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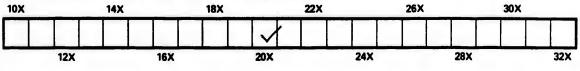
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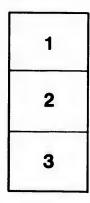
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JOHN FRANCIS GALAUP DE LA PEROUSE.

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In

Published June 20. 1798, by J. Stockdale .

THE VOYAGE

OF

LA PÉROUSE

ROUND THE WORLD,

IN THE YEARS 1785, 1786, 1787, AND 1788,

WITH THE NAUTICAL TABLES.

Arranged by M. L. A. MILET MUREAU, Inspector of Fortifications and Member of several literary Societies at Paris.

TO WHICH IS PREFIXED, NARRATIVE OF AN INTERESTING VOYAGE FROM MANILLA TO ST. BLAISE.

AND ANNEXED, TRAVELS OVER THE CONTINENT, With the Difpatches of La Pérouse in 1787 and 1788, BY M. DE I ESSEPS.

> TRANSLATED FROM THE FRENCH. Illustrated with Fifty-one Plates.

> > IN TWO VOLUMES.

VOL. I.

Iondon: FRINTED FOR JOHN STOCKDALE, PICCADILLY.

1798.

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TRANSLATOR'S PREFACE.

NAVIGATION, the moft important bond of the great fociety of mankind, has in the prefent age been advanced nearly to perfection. It has been employed for purpofes the moft honourable to its patrons, to its conductors, and to human nature, and its narratives have excited a more univerfal intercft than any other branch of literature. It has perfected the hiftory of man, united the extremities of the earth in the mutual intercourfe of peaceful commerce, and notwithftanding the temporary florms of revolution, has characterifed the prefent century as its peculiar æra.

Englishmen, who have so much to boast among contending nations, will proudly remember that Cook stands in the highest rank both as a navigator, and a benefactor of his species: while France, our constant competitor, whether in discovery, in commerce, or in the arts, has attempted to rival us even at the extremity of the

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globe. With that fpirit of emulative ambition which has ever marked her character, fhe planned the voyage detailed in the following pages; fhe configned to the perils of the ocean men of the deepest science, and most brilliant talents in France, and her veffels failed with an aufpicious promise of the happiest success. Their ill fated end is now but too ftrongly confirmed. Europe will deplore that an expedition, which, like that of Cook, may be called a circumnavigation of charity and benevolence, fhould fo fatally terminate in the destruction of all who embarked in it, and of a commander who feemed to vie with his great predeceffor in the virtucs and benevolences of a wife and prudent chief. Honourable and candid in his rivalfhip, he feems to exult in bestowing a just tribute of applaufe on him, whom he confiders as his archetype, while his own narrative is modeft perspicyous, interesting, and important.

To a commercial nation, it is particularly defirable to receive the earlieft and most accurate information of every geographical difcovery. But while we regret that feience and curiofity have been fo long ungratified, and that the compiler of the narrative was not from among the actors in these novel seens, few of whom escaped the general catastrophe; it is some consolation that the original journal, as the Editor asfures us,

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is most faithfully adhered to, without ever deviating from the fense and meaning of the narrator. M. Millet Mureau appears to have justly conceived the duties of the undertaking, and the execution does honour to his taste and judgment. Versed in the accounts of former discoveries, and the sciences allied to navigation, he has illustrated the work by many valuable notes, for which, however, he is often indebted to our countrymen Cook, Dixon, Portlock and others; and when he ventures to differ from the opinion of his author, submits his own with a candour entitled to applause.

In one inftance he has deviated from his accuftomed liberality, in an unfounded fufpicion of the veracity of Hearn. But this he retracts in a preliminary difcourse *. He constantly professive rather to collect materials for the speculation and enquiry of others, than to form systems for himself, a practice to which he declares himfelf an enemy.

* Vide page xxxii. Where, as if it was his fate to wreak all his calumny on an opponent invulnerably fecure in the, armour of integrity, honour, and fidelity, he aims an invidious attack at that gentleman, which the publication of his narrative previous to the following pages, has rendered equally invalid with the former accufation, and muft again expose him to the fame humiliating recantation.

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In reading the narratives of those who have visited favage nations, it is impossible to avoid contemplating with felf-exultation, the fuperiority of civilized Man over a state of nature, which if it means any thing, fignifies a state of ignorance, where cunning and treachery almost univerfally prevail. The mind is ftrengthened by the cultivation of the arts and fciences ; Man in fociety alone perceives the mutual advantage of reciprocal good faith, and virtue flourishes under the banners of truth and general utility: while the ignorance of the Indian, which renders his pleafures uncertain and transient, is compenfated by no one fuperiority of enjoyment, either mental or corporeal: nor does the most finished picture of favage life exceed a mere absence of care, or that inactive uninteresting tranquillity which civilization alone can render fecure.

To expatiate further on the utility of this expedition is unneceffary. The Public interest and curiofity, which ever anticipate works of this nature, will not have been diminissed by the unhappy fate of La Pérouse, his passengers and crews.

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Accuracy being no lefs important in a tranflator than veracity in a traveller, the English Editor has been folicitous rather to convey the true meaning of his author, than to decorate his language

guage with graces foreign to the original. This principle, itfelf fufficiently obvious, acquires additional force from La Pérouse's express defire; he wished, that to avoid facrificing fense to found, as might happen in the unpolished phrases of the sea, and other technical terms, his narration, should it be published without his inspection, might be committed to the care rather of a seaman than a man of letters.

With this fimple declaration the Translator would have fubmitted himfelf to the Public, had not a competitor appeared, whofe agents, with the petulance of ungenerous rivalship, have mifreprefented his defign, and accufed him of mutilating the original. Had it been poffible fooner to complete the work, this calumny could not have been fupported for a moment; and the Author only laments, fincercly laments, that the Public in general have feldom the inclination or the opportunity to enter into a comparison of the feparate merits of those who appear as candidates for their favour. He is therefore unwillingly compelled to urge his claim to their protection, by flating his defign and plan in the exccution of the work.

Confidering the Narrative and Tables of the first importance, particularly to the man of fcience and the navigator, he has given these, together A 4 with

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with all the memoirs and correspondence in a complete and accurate translation. The tables in particular must be viewed as the guide of future navigators, the clue to conduct them through the labyrinths of the South Sca Islands, the beacon to warn them from rocks, and fhoals, and breakers, and to direct their courfe through the mists of the ocean. To have omitted these, or to have neglected their accuracy, would have been to endanger the lives of others, and render the labour of navigators fruitlefs. Of the preliminary papers, however, which are by no means equally important or interesting, it appeared more defirable for every class of readers to peruse, at most a copious abridgment, comprising every useful information without the circumlocution and redundancy, fo frequent in official papers. To no Englishman could a detail of these minutiæ, or voluminous catalogues of French names composing the crews of the veffels have been useful. It is with no finall fatisfaction that the Editor has availed himfelf of the vacancy this fuperfluous matter has afforded, to introduce a comprehensive abridgment of another expedition, that of M. dc Leffeps over-land to Kamtfchatka, which is no lefs interefting in itfelf than by its connection with that of La Péroufe, of the narrative of whofe voyage it feems

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een the this uce exl to h it-Péems to to form a part. A full and accurate translation is also given of the voyage of the Spanish navigator Maurillo; and the whole illustrated by additional notes of the Translator.

Of the Engravings, which are numerous, little need be faid. They are eafily compared, and fcarcely need challenge comparison to obtain the most decided preference. In the conditions of publication *forty* plates are promised, but the encouragement shewn to the work during its progress, has induced the Publisher to encrease their number to *fifty-one*.

It must be noticed, however, that many of the original drawings having arrived in France without corresponding descriptions, are so publissed; the French Editor having only ventured to add an account of a plant from Chili, written by M. Ventinat. In one place in particular the figures have been numbered, though unaccompanied by any reference in the work.

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Voyage round the World.

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THE Public, inured to the painful impression which must have been produced by the loss of the two veffels employed in the unfortunate expedition committed to the charge of la Péroufe, will be furprized at the publication of the journal of his voyage. The decree of the Constituent Affembly, which has ordered the impreffion of the charts and memoirs transmitted by that navigator, muft, however, have announced that we were not entirely deprived of the fruit of that expedition. His fagacity engaged him not only to feize, but to feek for opportunities of fending his journals to Europe. It were to be wifhed that the felf-love of the learned gentlemen, embarked with him, had permitted them, in like manner, to forego the fruit of their labours ; we should not have had to regret the almost total loss of them.

La Pérouse, occupied with the difficult and numerous details, which the command of an expedition as important as perilous rendered necesfary, constrained at every step to exercise judg-Vol. I. a ment

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ment and forefight, and confequently to modify his ideas conformably to circumstances, could not possibly collect in their order, nor digest methodically, the materials which were one day to enable him to compose the history of his voyage. Those materials must have appeared still more destitute of form in the eyes of a Compiler who had no part in that enterprize.

As nothing that can ferve to promote the progrefs of the human mind ought to be neglected in voyages of discovery, perfons of science and artists conftitute an effential part of fuch expeditions : on their return, each one arranges his own materials, and gives to the particular object in which he was employed that degree of perfection of which he believes it to be fusceptible: from a judicious union of these different parts a complete relation is obtained, in which the particulars appear in connection, and every thing is in its proper place. In the prefent cafe, through a fatality which has no example, our new Argonauts have all perished; and I am called upon alone to fupply, by collecting what could be favcd from the shipwreck, the true and energetic touch of navigators, who would not have faid a word but what confifted with their perfonal experience.

In complying, not without reluctance, with the

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the folicitations which induced me to engage in this painful though honourable undertaking, it was impossible for me to overlook the difficulties which I had to encounter in a work, all the parts of which no human faculties could equally embrace.

The Public will undoubtedly regret, with me, that the ex-marine-minister, Fleurieu, now a member of the National Institute and of the Board of Longitude, a scholar of rare and distinguissed merit, who at first expressed a strong inclination to undertake himself the compilationof this work, has been obliged by circumstances to abandon his design.

The fame interest which induced me to manifest, from the tribune of the Constituent Affembly, the most ardent zeal for the publication of this voyage, for the benefit of the respectable widow of la Pérouse, prompted me to direct the choice of government to a person possessed of maritime talents capable of replacing the gentleman who had been first appointed to the task : but France had already lost, in a great measure, the most distinguished of her naval officers; the rest were fully employed, or had voluntarily retired. The minister could felect only one who had at least made a study of the mathematical fciences and of physics, the effential basis of such

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a work. The choice of a man poffeffed, in a fuperior degree, of those sciences was besides conformable to the intention of la Pérouse himself : for he wrote to one of his friends in words nearly to this effect : " Should my journal be fent to " the prefs before my return, let care be taken. " not to commit the compilation of it to a man " of letters : for he will either take upon him to " facrifice to an agreeable turn of expression the " proper term, which may appear to him harfh. " and barbarous, but which the feaman and the " man of fcience would prefer, and will in vain " look for; or elfe, putting afide all the nautical " and aftronomical details, and defirous of pre-" fenting to the world an interesting romance " merely, he will commit, through want of that "kind of knowledge which his education may " not have permitted him to acquire, errors " which shall prove fatal to my fuccessers: but " felect a compiler well verfed in mathematical " fcience, one who is a master of calculation, " one capable of combining my data with those " of other navigators, of rectifying the miftakes " which may have escaped me, without making-" others of his own. Such a compiler will go " to the bottom of the fubject; he will fupprefs " nothing effential; he will prefent the techni-" cal details, in the blunt and rough, but concife " ftile.

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" ftile, of a feaman; and he will well difcharge " the cruft repofed in him by fupplying my de-" fects, and by publifhing the work fuch as I " myfelf would have wifhed to make it."

Having made this wifh of the author my conftant rule, I advife that clafs of readers who have amufement for their fole object to proceed no farther; I have not laboured for them, but only for the feaman and the man of fcience. I have endeavoured, in a work whofe fubftance ought to have a preference to the form, and in which fidelity as to facts and exactnefs of expression are the most important qualities, to be clear and precife; I have made no facrifice to grace at the expence of truth. This acknowledgement is all the apology I make, at the fame time that it folicits the indulgence of the reader.

In this view I have religioufly refpected the character of ftyle employed by each author, fimply adapting its forms to the received ftandard of language: but when any idea ftruck me which could ferve to connect others, an expression which might complete an image, render it more prominent, or give to the phraselogy more harmony, without altering the fense, I thought myself at liberty to employ it.

The work which is now prefented would undoubtedly have been much more valuable, had

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it proceeded from the pen of the ex-minister, Fleurieu, enriched as it must have been with his various and profound literature: I am bound at the fame time to declare, that I have confulted him whenever I found myself in doubt; and I have ever found in him that complaisance and that modesty which are the inseparable attendants of real science and talents.

If to collect, to difpofe, to digeft in a proper manner, all the parts of fuch a work, was a difficult undertaking, the details relative to its publication, the pains, the refearches, the exertions of every kind, which the most indefatigable zeal alone could have supported, and the delays necessfarily occasioned by unforesseen accidents, feemed to render it impracticable.

The impression had been decreed in 1791, and no commencement was made in 1793, the æra when the labour devolved on me. A paper currency continually decreasing in value, dissolved the engagements made with artists, and with undertakers in every department, almost as soon as formed, or induced them to oppose to my efforts a most discouraging indolence, which formed its calculation on the profpect of a more fortunate futurity; an opinion, bordering on delirium, which then produced a forced accommodation to the times, in contradiction

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diction to the truth of hiftory, of the denominations, the ufages of very different times, laid me under the neceffity, in this refpect, of remaining paffive for more than a year; finally a new paper money, and embarraffment in the public finances, when gold and filver again appeared in circulation: thefe have been the phyfical and moral caufes of the delay to which I have been forced to fubmit.

In order to enable me to conciliate the difficulties of compilation, arifing out of the difficulties of the moment, it had been powerfully recommended to me to write the hiftory of this voyage in the third perfon. By this means tranfformed into an hiftorian, and appropriating to myfelf the materials intrufted to me, I removed the navigator to a diftance, that I might place myfelf between the reader and him. This propofal has not feduced my vanity; I have facrificed it to the intereft which always infpires the man who relates what he has felt, who defcribes the painful fituations through which he has paffed, and renders you the affociate of his pleafures as well as of his diftreffes.

If circumstances have involved me in fetters and obstacles during the progress of my labour, the refult will at least demonstrate that Government has not ceased to protect the arts and a 4 fciences

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fciences through the whole course of the most astonishing of revolutions, which has excited against it a war as general as oppressive.

I have explained the nature and difficulties of the undertaking; it is now incumbent on me to fay fomething refpecting the form of the work, of its diffribution, and of the care employed in the execution in every material point.

The title of Voyage round the World which I have given it, though not in ftrictnefs of fpeech due to it till the return of la Péroufe into one of our French ports, will affuredly not be difputed, as we may confider a voyage round the world to be completed, when, taking his departure from Europe, the navigator has arrived in China after doubling Cape Horn and croffing the South Sea. Befides, have not our navigators furnifhed, during the year of naval refearch which followed their arrival in China, a career much longer, more brilliant and more perilous, than that of fimply their return to Europe?

The work, confifting of four volumes in octavo, and of an Atlas in quarto *, is divided in the following manner:

The first volume contains all the preliminary

* The Paris edition, from whence the plates of this translation are engraved, is four vols. 4to. and a folio volume of plates.

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pieces relative to the expedition; I have only added to it the translation of a Spanish voyage, the manuscript copy of which has been transmitted by la Pérouse, and which I could place no where else without rendering the volumes of a fize too unequal.

A celebrated author refcued from oblivion the magnanimous felf-facrifice of d'Affas, who devoted his own life to fave the French army, calling aloud, *Here am I, Auvergne, that is the enemy*. The Society of Natural Hiftory at Paris had the merit of fixing the attention of the reprefentatives of the nation on the expedition of la Péroufe, by the petition which they prefented the 22d of January 1791. The National Affembly delayed not a moment to take it into confideration, however important the other fubjects of deliberation in which they were engaged,

The two decrees which were the refult of this, as honourable for the Affembly as for the perfons who were the object of them, are placed at the head of the work. They breathe humanity and fenfibility, and will announce for ever, to every one who fhall form the refolution of walking in the footfteps of la Péroufe : "When thou fhalt " have performed thy career through the quick-" fands and dangers of every kind which furround " thee, thou mayeft reft affured, fhouldft thou " fall

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" fall by the way, that a grateful country will " honourably enrol thy name in the temple of " Fame."

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I have not refricted myfelf to the practice of preferving the names of only the officers and fcientific men employed in fimilar expeditions: the publication of an exact lift of the fhips' crews appeared to me to be an act more conformable to juffice and to the fpirit of the French government; and I farther thought that this regifter might be henceforward the only mortuary extract which the families of our unfortunate navigators could produce.

The inftructions and the geographical notes which follow, for which 1 am indebted to the exminifter of the marine, Fleurieu, are a model too precious to be with-held from the public eye: they conftitute befides the only reply that I mean to give to a note of George Forfter, which has a tendency to diferedit the motives purely relative to the advancement of the feiences, which determined this expedition. It fills me with regret to think that a man whom I efteem fhould have expreffed himfelf thus in his *Hiftorical and Picturefque Tour along the Banks of the Rhine*, vol. i. pag. 311, of the French tranflation.

"At the period when the interesting and ill-. fated la Pérouse took his departure to make "new

" new conquests for commerce and philosophy, " a minister prefented to the Council a memorial " refpecting the incalculable advantages of that " enterprize. This memorial, though a long " one, was read with avidity ; neverthelefs it con-" tained but a fingle idea, and here it is: Would " you wish, fire, faid the minister, to divert the at-" tention of your fubjects from that dangerous an-" glomania, from that paffion for liberty, the de-" clared enemy of peace and good order; amufe " them with new ideas, deceive their hours of leifure " by images, whose poignant variety may furnish " aliment to their frivolity. It were much better " that they should employ themselves in contemplat-" ing the ridiculous tricks of a Chinese monkey, than " that they should perfift in the present fashion of " running mad after the horses and the philosophers " of England."

The fecond and third volumes comprehend the journal of the totality of the voyage, and tables of the track of the two frigates, in which is to be found the refult of the aftronomical and meteorological obfervations.

We ftand indebted to the progress made in aftronomy for the means of determining, at prefent, the longitude at sea to a high degree of precision. To announce that the astronomer Dagelet, a member of the Academy of Sciences, undertook

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THE COMPILER'S PREFACE.

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dertook the fuperintendance of this part of the labour, is to infpire the most complete confidence respecting its exactness, and that of the tables and charts which result from it.

If the journal does not in every point coincide with the tables of the fhip's track and with the charts, it arifes from the impoffibility of delaying the impreffion of the journal, till they were completely verified. At any rate thefe differences are neither frequent nor confiderable; when they occur, the preference ought to be given to the tables, and efpecially to the charts, which were executed under the direction of the first hydrographer of the marine, Buache, a member of the National Institute and of the Board of Longitude. I am bound here to acknowledge, with particular respect, the folicitude which that gentleman has discovered to support me in this important part of my engagement.

Through the whole course of the work, the longitudes, which are indicated by no particular meridian, are reckoned from that of Paris.

I have endcavoured to be exact in the orthography of proper names of perfons and places; but these last being as various in the relations, as the languages of their authors are different; it was necessary to adopt, in transcribing such words indicative and merely of convention, the orthography

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orthography most generally received, by combining it with the idiom of the country.

The fourth volume is compoled of memoirs, or detached pieces transmitted to government by the fcientific gentlemen employed in the expedition, and of those which I was able to collect. I had, for this purpose, made application to the late Academy of Sciences, and to individuals whom I suspected to have kept up a correspondence with the co-operators of la Pérouse, in order to obtain such memoirs as they might have communicated : but this labour was fruitles; I could procure only those of which I found some fcattered fragments in the journal of physicks, and I was at pains to place them together in this volume.

I have added, in the course of the work, a variety of notes, wherever I thought they could be useful; and I have diftinguished them by the initial letters of the words, COMPILER'S NOTE.*

In order to facilitate refearch, I have terminated the work by a general table of the fubjects contained in it.

The number, the magnitude and the beauty of the engravings and charts, made me determine to give them together in a feparate atlas, and of a larger fize. I thought that a national work, executed with fo much care, well merited fuch a

* In this translation, by the words—French Editor. prefervative

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prefervative precaution. If it is not generally approved, I have this to fay for myfelf, that fuch is the form of the beautiful edition of *Cook's Third Voyage*, published by order, and at the expence, of the English government.

I have been under the neceffity, in order to bring the work at length to conclusion, to diftribute among a great number of engravers, the drawings at first committed to five artists of eminent ability: from this has resulted an unavoidable defect in point of uniformity and perfection; I have done my utmost to render this as imperceptible as it could be.

If this work be fuch as the Public had a right to expect from the materials put into my hands, and after the unexpected lofs of our navigators, my most pleafing recompense will be to reflect, that I have fulfilled the views of Government, and that I contributed my efforts toward that monument of gratitude which it meant to rear to their memory.

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PRELIMINARY DISCOURSE

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THE COMPILER.

A LL Europe, in the favourable reception given to the relations of the modern voyages round the world, appears to have manifefted a wifh to promote the progrefs of the phyfical and natural fciences: but, it must be acknowledged, among the numerous amateurs of works of this kind, fome have nothing in view but amusement merely; the object of others is to establish, by means of a self-complacent comparison between our manners and customs, and those of favages, the superiority of civilized man over the rest of mankind: men of science alone, and they are few in number, fearch for and find in them, almost always, materials which conduce to the increase of their stock of knowledge.

The relations of voyages of difcovery may be reckoned among the most interesting books of modern history. Man, naturally fond of what is new and extraordinary, transports himself in thought into diftant regions; he identifies himself with the navigator; he partakes in his dangers, his pains, his pleafures, and becomes his inseparable companion from the diversity of objects which attach him, and which furnish a constant supply of aliment to his curiosity.

In this laft point of view, there can be no doubt that extracts from voyages, fuch as those which Prevost has given us, disengaged from all the dry and tirefome details which respect astronomy and navigation, may be more agreeable to read than the works

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at large; but fuch extracts are not the fources from which the mariner and the man of feience derive their fupplics, becaufe the materials thus paffed through the crucible of the man of letters, from which they iffued light and brilliant, no longer prefent the folid principle which conftitutes feience, and which is deftroyed by the change it has undergone.

The authors or translators of works of the fame kind with the prefent, have almost all of them given an enumeration of the voyages which preceded the one they were publishing, and of the difcoveries which had refulted from them. They thus exhibited a picture of the fucceffive acquisitions which geography had made, at the fame time that they indicated the works which gave an account of them. I shall not repeat this detailed enumeration, which may be found elsewhere, but fatisfy myfelf with giving a more complete chronological list of the principal navigators to whom we are indebted for discoveries in the South Sea :

Magellan, a Portugueze, in the fervice of Spai	n	1519
Garcia de Loaes or Loayfa, a Portugueze, idem	1	1525
Alphonzo de Salazar, a Spaniard -	~	1525
Alvar Savaédra, a Spaniard	-	1526
Ferdinand Grijalva and Alvarcdo, Spaniards	-	1537
Gaétan, a Spaniard	-	1542
Alvar de Mendana, a Spaniard -	-	1567
Juan Fernandez, a Spaniard	-	1576
Drake, an Englishman	-	1577
Thomas Candish, (Cavendish) an Englishman	-	1586
Sir Richard Hawkins, an Englishman -	-	1594
Alvar de Mendana, a Spaniard -	-	1595
Oliver de Nort, a Dutchman	-	1598
Pedro Fernandez de Quiros, and Luis Vaes de Torres, Spaniards	•}	1606
George Spelberg, a Dutchman -	1	1614
Le Maire and Schouten, Dutchmen -	4	1616
L'Hermite, a Dutchman	1	1623
Abel Tafman, a Dutchman -	-	1642
Anthony la Roche, a Frenchman -	-	1675
Cowley, an Englishman	-	1683
	Dampier,	

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Dampier, an Englishman - 1687
Davies, an Englishman 1687
John Strong, an Englishman 1689
Gemelli Carreri, a Neapolitan 1693
Beauchéne Gouin, a Frenchman 1699
William Funnel, an Englishman - 1703
Wood Roger, an Englishman - 1708
Louis Feuillée, a Frenchman 1708.
Frézier, a Frenchman 1712
Gentil de la Barbinais, a Frenchman 1715
John Cliperton and and George Shelvocke, 1710
Englinmen – – – – – – J
Roggewein, a Dutchman 1722.
Anfon, an Englishman - 1741
Le Hen-Brignon, a Frenchman 1747
Byron, an Englishman 1764.
Wallis, an Englishman 1766
Cartcret, an Englishman 1766
Pages, a Frenchman 1766
Bougainville, a Frenchman 1766
Cook, an Englishman 1769,
Surville, a Frenchman ' 1769
Marion and du Clefmeur, Frenchmen 1771
Cook, an Englishman 1772'
Cook, Clerke and Gore, Englishmen 1775

Cook's laft voyage was hitherto known only by the tragical end of the illustrious commander of that expedition, when France, availing herfelf of the leifure procured by the peace which had just been concluded, confidered it as a duty which the owed to her own rank among the first inaritime powers, and still more to her zeal, and to the means which the poffeffed for the advancement of the fciences, to iffue orders for a voyage of discovery, that the might concur in carrying to perfection the knowledge of the globe which we have fo long inhabited. If progrefs has been made in modern times in the exploration of unknown regions, if the polition of each of the known parts of the globe is henceforth fixed, in a word, if every ftep we take brings us nearer to the object in view, we owe all to the improvement of Vol. I. astronomical

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aftronomical knowledge. This feience gives us, in the diffances of certain flars, whofe motion is calculated with extreme precifion, an infallible bafis by which we are enabled to determine, with an accuracy fafficient for the fecurity of navigation, the longitude in the middle of an immenfe ocean, where, till now, it had been impoffible to fettle it, except to an approximation in a great measure arbitrary, which exposed the navigator to mistakes of ferious importance. This benefit of astronomy ensures, for the time to come, the success of our expeditions, and the perfecting of geography.

Means undoubtedly exift for accelerating this happy refult of ficientific refearch; and this is the place to fuggeft fome ideas refpecting an object of fo great magnitude. Thefe means might be combined into a fyftem, in a fpecies of Congress to be composed of agents commissioned by the principal maritime powers, which might with to participate in the glory of fuch an enterprize.

The Congress, confishing of aftronomers, hydrographers, and feamen, would make it their bufiness to retrace all the ancient difcoveries not completely verified till now; they would present a picture of all the parts of the globe where difcoveries are full to be made, to be completed, or details to be communicated; they would prepare a view of the feasions in every latitude of the two hemispheres, of the prevailing winds, of the moonfons, of the currents, of the refreshments, of the affisiance to be expected, &c.

Upon fuch a basis as this, a general instruction might be drawn up to be given to the commanders of a great expedition; and in order to prevent the direction of several projects to the same object, the totality of discoveries to be made might be divided among the maritime powers, regard being had to the possible poss P fa

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poffeffions and fettlements which might refpectively facilitate the execution of fuch enterprifes.

If England, Spain, Holland, Portugal, Ruffia, the United States, and France, were to agree to defray the expence of an expedition every three years, it is next to a certainty that geography, in lefs than twenty years, would be brought to a flate of perfection.

France would unquestionably have continued to favour the progress of geography, unless, for several ycars paft, interefts of a far different importance, and an expensive war, undertaken to maintain them, had entirely occupied her, and concentrated all her refources : but peace, by recalling in a great meafure the attention of government to the arts and fciences, promifes us new expeditions to be fet on foot to promote them.

When fuch enterprizes are fet afloat with enlarged views, all the fciences are gainers by them. Though the philosopher is not fond of shifting his place, the refults of voyages do not the lefs on that account become a province of his domain : prompt to collect the observations of the mariner, he makes himfelf mafter of his ideas, unfolds them, connects them with the general fystem, by analyzing and claffing the fentations which produced them, and thus give a new life to all the parts of the fcience.

If navigation thus improved must powerfully contribute to extend the boundaries of human knowledge, it is the part of government to ftimulate in this respect the efforts of talent, to reward its fucceffes, to collect and publish the discoveries, to receive and to reflect all the irradiations of thought, all the views of genius, and to attach to itfelf, over every point of the globe, the men who by their merit and their labours appertain to every country and to every age, without regard to their opinion refpecting events already removed to a diftance from us, and

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and of which nothing but the refult need to be feen, and which may become favourable, when on the re-eftablishment of general peace the proposed plan may be put in execution.

This plan would bring forward the difcuffion of fome important queftions in geography, and particularly of that of an universal meridian; for there is no geographer but has experienced the inconveniences arifing from the difference of meridians on which our charts have been laid down. It is neceffary to guard continually against falling into errors ; the fmallest comparison to settle between two meridians requires an operation of addition or fubtraction. This confusion is occasioned by navigators employing refpectively, in the formation of their charts, the meridian adopted by their nation, or even by their frequently affuming one of their own. On the other hand, fome in reckoning longitude proceed from the weft, others from the eaft, counting up to 300 degrees. Others, and they are the majority among the moderns, have divided their longitudes into eastern and western : now, the difference between the meridians of the observatories of Europe being the fame for the meridians of their antipodes, it is found, by this division to the cast and to the weft, that one longitude was, as in our hemisphere, western to the one, whereas it was eastern to the other. From this miftakes have refulted, which it would be eafy to avoid by reckoning longitude uniformly up to 360 degrees, and by a general agreement to proceed westward. The only objection against this mode of reckoning is, that it does not conftantly give, by the progression of the degrees. an idea of the diftance; that is, that up to 160 degrees, the meridian of the antipodes, it is clearly perceptible that degrees mark diftance; but on proceeding from that point, every one is not in a condition to comprehend that at 200 degrees of longitude,

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tude, the diffance from the meridian where the reckoning commenced is lefs than at 180, whereas by faying 160 degrees of east longitude, instead of 200 degrees of longitude, one fensibly perceives where he is.

It must be admitted that the objection againft numbering the degrees up to 300 is very feeble, regard being had to the merit of a process simple and secured from error; a merit which should make us overlook the inconfiderable number of persons who will not learn to comprehend the smallness of the distance between their own meridian and that of 350° , 50° .

The advantage refulting from the mode of reckoning longitude up to 360 degrees, is however a matter of little importance compared to that of the, adoption of a common meridian to ferve, in future, as the bafis of the geography of all nations. It is abundantly fenfible that the felf love of each of them will make inceffant efforts to cry up and prefer its own. Putting afide every confideration of this fort, the meridian which, it would appear, is the most proper to affine, in that it paffes over very little. land, and leaves the meridians of the maritime powers of Europe to the east, is that of the remarkable peak which Nature feems to have placed in the midft. of the ocean, to ferve as a pharos to navigators; I mean the peak of Teneriffe. A pyramid conftructed at the expence of the affociated powers might be raifed on the point through which the meridian line fhould pafs; and a board of aftronomers; chofen from among the members of the proposed congress, would determine, by a feries of operations, the exact differences between this common meridian, and that of the grand obfervatories of the two worlds.

These operations, to which the perfection of the means we possible would ensure the highest degree of accuracy, must remove all uncertainty of calcub 3 lation.

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lation, refpecting the quantities to be added or fubtracted, in comparing meridian with meridian ; they would annihilate the differences produced in the refilts of their comparison obtained at different epochs, and which may be taken for errors, if we lofe fight of this fact, that affronomers, after new observations, made with greater attention, and by the affiftance of better instruments, have changed the relations of. diftance fettled between the meridians of the obfervatories of Paris and Greenwich. That distance, which was fixed at 2º 19', is now afcertained to be 2º 20': nay, if a rigorous precision were exacted, it ought to be carried to 2° 20' 15", or 0' 21" of time, making allowance for the flattening, fuppofing it 360, according to the observations of the aftionomer, Lalando, with whole merit the world iswell acquainted, and whole calculations unite, to a very high degree, perfpicuity and precision, interest

The idea of a common meridian, which I prefent at the head of a journal of an important voyage, arole from the reflections fuggefied to me by the examination of that work, while employed in the labour of compilation; it finited 'upon me as I proceeded in that undertaking: it poffibly may not be univerfally relified; but I must be permitted to form a wifh for its adoption, till the inconveniences attending it, if there be any, are pointed out.

This new meridian leaves, at leaft, our immenfe geographical materials in all their value; were it not for that, the idea of it ought to be rejected, as I reject, for the prefent, though with no fmall regret, that of the new division of the circle, because it prefents the ferious defect of almost annihilating them. This needs to be explained, and cannot be confidered as a digression from my subject.

More than any one I am acquainted with the partifan of decimal calculation, which has been treated with to much accuracy in the writings of the

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the learned and ingenious Borda, as well as in those of the other members of the temporary board of weights and measures; I cannot however difguise the inconveniences of the division of the circle into 400 degrees. They are such, that it would require the lapse of several ages, from the epoch of its general adoption, completely to obliterate them, during which it would be necessary to preferve both divifions, in order to facilitate the labour of comparing our new charts with those of other powers, and with the ancient materials in geography.

If the portion of time known by the name of day admits of the decimal division, the fun, in his annual revolution, cannot be reduced to it. Since there is, therefore, in nature, a boundary at which decimal calculation stops, and as it cannot divide the period of a folar revolution, wherefore should it be adapted to the division of the circle?

It will be alleged, that this division of the circle into 400 degrees is perfectly in unifon with that of the day into ten hours, of the hour into 100 minutes, and of the minute into 100 feconds; which makes one degree of the circle correspond to two minutes and a half of time. It will be farther obferved, and with good reafon, that the bafis of all measurements, called mètre, being taken in nature, and formed of the ten-millionth part of the quarter of the meridian, there refults from it a natural decimal division, as the degree is found to contain a hundred thousand metres, or twenty leagues of five thousand metres each : but these advantages, and that of prefenting, in general, a conftant fcale in the degree, and its fubdivisions, cannot counterbalance the inconveniences which refult from the changes propofed.

The grand idea of rendering weights and meafures uniform, has produced the fublime one of looking for the ftandard of them in nature. That

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ftandard is precifely fuch, in fact, as we would have found it among a nation well informed and new to us, had it made the fame progrefs in the arts and fciences, and had it conceived, as we have done, the project of eftablishing the uniformity of weights and measures, by feeking the basis of it in nature.

What opportunity more favourable for difcuffing the advantages and the inconveniences of adopting an uniformity of weights and measures, and that of the decimal division, than that of a congress, confifting of the representatives of the most illustrious feientific focieties in the world ! If the different governments would agree to admit this uniformity in every case in which it would be deemed useful, its fimultaneous and universal reception would double the benefit of it; and then would be the time to make the greatest effort to overcome the difficulties of its application to the division of the circle and the measurement of time.

What power preferably to France would henceforth, by an influence equally extensive and commanding, realize the plan of fuch a congress? As great in her enterprizes as in her conceptions, in her operations as in her views, the determined, as I have faid, to fet on foot a voyage of dif. covery; the project agreed upon was adopted by government: the preliminary inftructions will demonfirate that it was as vaft as ably conceived, in the totality and in the details. A commander in chief, of acknowledged ability, was requifite to conduct the expedition : La Péroufe was fclected. His exertions, and his conftant fucceffes, in military marine enterprizes, had inured him to the approach of every fpecies of danger, and rendered him fitter than any man to purfue the painful and perifous career of a long navigation over unknown feas, and through the midft of countries inhabited by barbarous nations. I feel an obligation ta to de fat

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to the reader, on this fubject, to enter into certain details respecting the life of this celebrated and illfated officer.

John Francis Galaup de la Péroufe, commodore in the navy of France, was born at Albi, in the year 1741. Admitted at an early age into the marine fchool, his first attention was turned toward the ilhistrious navigators who had raifed the reputation of their country, and from almost the first moment he formed the refolution of purfuing their track; but, enabled to advance but by flow degrees in this difficult career, he prepared himfelf, by feeding his mind in advance with the fruit of their labours, to become one day their equal. He had united betimes experience to theory. He already completed eighteen naval campaigns, when the command of the laft expedition was confided to him. Appointed midhipman November 19, 1756, he ferved at first five campaigns in a war with England : the first four on board the Célèbre, the Pomone, the Zephyr, and the Cert; and the fifth on board the Formidable, commanded by St. André du Verger. This veffel was one of the fquadron under the command of the Marefchal de Conflans, when it fell in with the English fleet off Bellifle. The thips of the rear division, the Magnifique, the Hero, and the Formidable, were attacked and furrounded by eight or ten fail of the enemy. The engagement commenced and became general; it was fo defperate, that eight veffels, English or French, went to the bottom during the action, or, run a-ground, and were burnt on the coaft of France. The Formidable alone, more roughly handled than the reft, was taken after a vigorous refiftance. La Péroufe difplayed fingular bravery in this combat, and was feverely wounded.

Reftored to his country, he ferved in the fame rank three campaigns more on board the Robafte : here

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henced comngrefs? eptions, rmined. of dif. adopted ns will hceived. mander equifite was, fccceffes. him to hd renpainful ver untries inligation ta XXV

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he diffinguished himself in several trying situations; and his rising merit began to attract the attention of his superiors.

October 1ft, 1764, he was promoted to the rank of figual officer. A man of a lefs active difpofition would have enjoyed the fweets of peace; but a paffion for the profession which he had embraced, permitted him not to remain unemployed. It is fufficient, in order to form a judgment of his indefatigable activity, to caft an eye over the outline of his military and naval existence from that cra up to the year 1777: He was,

In 1765, on board the Adour, armed en flute; 1766, on board Le Gave, armed en flute; 1767, he commanded l'Adour, armed en flute; 1768, he commanded the Dorothée; 1769, he commanded the Bugalet; 1771, on board the Belle-Poule; 1772, ibid;

1773, 1774, 1774, 1775, 1775, 1776, 1777, 1777, He commanded the Seine, en flute, and Les Deux Amis, on the coaft of Malabar; his lieutenant's commufion bears date April 4th, 1777.

The year 1778 rekindled the war between France and England; hoftilities commenced June 17th, by the capture of the Belle-Poule.

In the year 1779, La Péroufe commanded the Amazone, one of the fquadron under the command of viceadmiral d'Eftaing. Appointed to cover the landing of the troops at Grenada, he anchored within pifolfhot of one of the enemy's batteries. In the engagement of this fquadron with that of admiral Byron, he was charged with carrying the orders of the commander in chief over the whole line. Finally, he captured, on the coaft of New-England, the Ariel frigate, frig inc

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the Amad of vicee landing in piflole engageal Byron, the comnally, he the Ariel frigate, frigate, and affifted in the capture of the Experiment.

Appointed Captain April 4th, 1780, he commanded the frigate Aftrea, when being on a cruize with the Hermione, commanded by Captain La Touche, he fought, July 21ft, a very obflinate battle with fix English ships of war, fix leagues off the north cape of l'Ifle Royale. Five of theie fhips, the Allegiance of 24 guns, the Vernon of the fame force, the Charlestown of 28, the Jack of 14, and the Vulture of 20, formed a line to receive them ; the fixth, the Thompson of 18 guns, kept out of cannon thot.¹ The two frigates advanced together upon the enemy with all their fails fet. It was feven o'clock in the evening when the first gun was fired. They extended the English line to leeward, to cut off all hopes of escaping. The Thompson kept still to windward. The two frigates manœuvred to dexteroufly, that the English little squadron was soon thrown into diforder "in little more than half an hour, the Charleftown, which bore the commodore's pendant, and the Jack, were obliged to firike; the other three thips would have thared the fame fate; had not the night faved them from the purfuit of the

The year after, the French government formed the defign of taking and deftroying the English fettlements in Hudfon's Bay. La Péroufe was deemed a proper perfon for executing this painful fervice, in feas of difficult navigation. He received orders to fail from Cape Français, May 31ft, 1782. He commanded the Sceptre, of 74 guns, and was attended by the Aftrea and Engageante frigates, of 36 guns each, commanded by captains De Langle and La Jaille : there were embarked on board this fquadron 200 infantry, 40 artillery men, four field pieces, two mortars, and 300 bombs.

July 17th, he came up with Refolution Ifland; but

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but fcarcely had he advanced 25 leagues in Hudfon's Strait, when he found his fhips entangled among the ice, by which they received confiderable damage.

On the 30th, after a conftant ftruggle with obfacles of every fpecies, he got fight of Cape Walfingham, fituated in the most westerly part of the ftrait. In order to arrive expeditionally at Fort Prince of Wales, which he proposed immediately to attack, he had not a fingle moment to lofe, the rigour of the feafon obliging all veffels to quit those feas, early in September: but as foon as he had fairly entered Hudfon's Bay he was involved in thick fogs; and on the 3d of August, when it began to clear up, he faw, himfelf, furrounded by ice as far as the eye could carry, which forced him to make for the cape, He triumphed nevertheless over these obflacles; and, toward evening on the 8th, having deferied the flag of Fort Prince of Wales, the French thips made for it, founding till they came within a league and a half, and anchored in 18 fathom water, on a bottom of mud. An officer, fent to reconnoitre the approaches to the fort, reported that the yeffels could be fafely moored a little way off. La Pérouse having no doubt that the Sceptre alone could not eafily reduce the enemy, fhould they refift, made preparation for effecting a landing in the night time. Though retarded by the tide and the darkness, the boats reached the land without meeting any opposition, about three quarters of a league from the fort. La Péroufe, observing no defensive disposition made, though the fort appeared in a condition to make a vigorous refiftance, ordered the enemy to be fummoned. The gates were thrown open; the governor and garrifon furrendered at diferetion.

This part of his orders being executed, he fet fail, August 11, for Fort York: in order to reach it, he had to encounter dangers still greater than those which wl or rot int ve ed

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e fet fail, ch it, he an thoic which which he had hitherto experienced; he failed in fix or feven fathom water, along a coaft of continued rocks and quickfands. After running through rifks innumerable, the Sceptre and the two frigates difcovered the entrance into Nelfon's river, and anchored, August 20th, about five leagues from thore.

La Pérouse had taken three decked boats at Fort Prince of Wales; he sent them, with the Sceptre's boat, to reconnoitre Hayes' river, near which stands Fort York.

On the 21st of August, the troops embarked on board the boats; and La Pérouse, having nothing to fear from the enemy by sea, thought it his duty to direct the debarkation in person.

The ifle of Hayes, on which Fort York ftands, is fituated at the mouth of a great river, which it divides into two branches; that which paffes before the fort is called the river of Hayes, and the other Nelfon's river. The French commander knew that all the means of defence were placed upon the former; there was befides a vefiel belonging to the Hudfon's Bay Company, carrying 24 nine pounders, moored at the mouth of the river. He determined on forcing his way up Nelfon's river, though his troops would have, in this direction, to perform a march of about four leagues; but he thereby gained the advantage of rendering ufclefs the batteries planted on the river of Hayes.

He arrived on the evening of the 21ft, at the mouth of Nelfon's river, with 250 foldiers, the mortars, the cannon, and provifions for eight days, that there might be no neceffity to depend on the fhips, the communication with which was extremely difficult. La Péroufe gave orders for the great boats to anchor in three fathoms water, in the mouth of the river, and advanced himfelf in his long-boat, with the fecond in command Langle, the commander of the troops to be landed Roflaing, and Monneron, captain

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captain of artillery, to found the river and examine the banks, on which he apprehended the enemy might have provided fome means of defence.

This operation demonstrated that the river was inacceffible; the finalleft boats could get no nearer than about a hundred fathom, and the bottom from that to the dry land was a fort mud. He thought it prudent, therefore, to remain at anchor, and to wait for the return of day-light; but the tide doing much more than he had reckoned upon, the boats were left dry at three o'clock in the morning.

Irritated by this obflacle, but not in the leaft difcouraged, all the troops difembarked; and after having walked for near a mile in the mud up to mid-leg, they at length gained a green field, where they drew up: thence they marched in order towards a wood, where they laid their account with finding a path which would lead to the fort. No one could be difcovered, and the whole day was employed in feeking for roads which had no exiftence.

La Péroufe ordered Monneron, the captain of engincers, to trace one by the compais through the middle of the woods. The execution of this extremely painful fervice difcovered that there were two leagues of a morafs to be croffed, in which the men frequently funk up to the knees in mud. A gale of wind, which fprung up in the night, forced the reftlefs La Péroufe to return to the flips. He reached the fhore; but, the tempest continuing, he could not get on board. He availed himfelf of an interval of moderate weather, and next day reached his fhip, an hour before a fecond gale came on. An officer, who fet off at the fame time with him, was fhipwrecked : he had, as well as his boat's crew, the good fortune to gain the land : but they could not return on board till the end of three days, naked and perifying with hunger. The Engageante and the

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Neverthelefs the troops arrived before the fort on the morning of the 24th, after a very troublefome march, and it was furrendered on the first fummons. La Pérouse ordered the fort to be destroyed, and the troops immediately to re-embark.

These orders were rendered ineffectual by a new gale of wind, which exposed the Engageante to the greatest dangers; her third anchor broke, as well as the tiller of the helm, and her longboat was carried away. The Sceptre likewise lost hers, her pinnace and an anchor.

At length fine weather returned, and the troops were re-embarked. La Péroufe, having on board the governors of forts York and Prince of Wales, fet fail to bid adieu to those latitudes, abandoned to ftorms and ice, in which military fucces, obtained without the flightest resistance, had been preceded by fo much pain, danger, and fatigue.

If La Péroufe, as a military commander, was under the neceffity of conforming to the first orders which he had received of deftroying the enemy's fettlements, he forgot not at the fame time the respect due to calamity. Having difcovered that on his approach fome of the English had made their escape into the woods, and that his departure, confidering the deftruction of the fettlements, exposed them to perifh with hunger, and to fall defenceles into the hands of favages, he had the humanity to leave them provifions and arms.

Can there be, on this fubject, an elogium more flattering than this fincere acknowledgment of an English feaman, in his relation of a voyage to Botany Bay ? "We are bound to recollect with gratitude, in "England especially, that humane and generous "man, for the conduct which he observed in acting under

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" under orders to defiroy our fettlements in Hud-" fon's Bay, in the courfe of the laft war."

After a testimony to just and to conformable to truth, and at a period when the English nation has acquired to much merit with the friends of the arts and fciences, by her zeal to publish the results of the voyages of discovery which the has ordered, shall we be under the necessity of reproaching another English military character with a breach of faith pledged to La Péroufe ?

Governor Hearn had, in 1772, performed a journey over land, toward the north, taking his departure from Fort Churchill; a journey of which the detailed account is expected with much impatience. The manufcript journal of it was found by La Péroufe among the papers of that governor, who infifted that it fhould be reftored to him as his private property. This journey, however, having been undertaken by orders of the Hudson's Bay company, in the view of acquiring farther knowledge of part of North America, the journal might well be confidered to belong to that company, and, confequently, to have devolved to the conqueror ! nevertheles, La Pérouse, from motives of pure benevolence, yielded to the folicitations of Governor Hearn; he reftored him the manufcript, but under the express condition that he would have it printed and published immediately upon his return to England. This condition does not appear to have been hitherto fulfilled : but it is to be hoped that the remark now made, and laid before the public, will produce the effect intended, or, at least, induce the governor to make it known whether the Hudson's Bay company, from an aversion to have the proceedings of their commerce difcloied, has forbidden the publication of it.*

* This anecdote had not come to my knowledge when I wrote the note to be found in a fubfequent part of this volume.

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The era of the re-establishment of peace with England, in 1783, terminated this naval campaign. The indefatigable La Pérouse did not enjoy long repose; a more important expedition awaited him : alas ! it was to be his last. He was defined to take the command of an intended voyage round the world, for which preparations were making at Breft.

I shall not conform to the common practice, by indicating beforehand the track which our navigator purfued through the two hemispheres, the coasts, and the islands, which he explored or revisited in the Pacific Ocean, the discoveries which he made in the feas of Asia, and the important fervices which he has rendered to geography: I make this facrifice to the Reader, whose curiosity will rather be excited than anticipated, and who will undoubtedly be better pleased to follow our navigator himself in his course.

Hitherto I have confidered La Pérouse only as the military man and the navigator: but he deserves to be equally known for his personal qualities; for he was not less capable of gaining the affections of men of all countries, or of commanding their respect, than of foresceing and overcoming the obstacles which human fagacity is permitted to furmount.

Uniting to the vivacity of the inhabitants of fouthern countries, an agreeable humour and an even temper, his gentleness and amiable gaiety made his conversation to be always eagerly courted. On the other hand, matured by long experience, he joined to uncommon prudence that firmness of character which is the portion of a vigorous mind, and which, ftrengthened by the painful kind of life to which a feaman is doomed, qualified him for attempting, and for conducting, with fuccess, the most arduous enterprizes.

From the union of these different qualities, the Reader, himself witness his inconquerable patience Vol. I. c in

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in exertions governed by circumftances, the fevere conduct which his forefight dictated, the measures of precaution which he employed with the people whom he vifited, will not be greatly aftonished at the beneficent and moderate, as well as circumfpect, behaviour of La Péroufe toward them, at the confidence, nay fometimes the deference, which he expressed for his officers, and at the paternal care which he exercifed over his crews : nothing that could intereft them, either by preventing their diffress, or promoting their welfare, efcaped his vigilance or his folicitude. Not wishing to convert a scientific enterprize into a mercantile fpeculation, and leaving entirely the profits of the objects of interchange as a benefit folely to the feamen of the crew, he referved for himfelf the fatisfaction of reflecting that he had been uleful to his country and to the feiences. Perfectly well feconded in his attentions to the prefervation of their fiealth, no navigator ever performed a voyage of to long duration, or of fuch valt extent, through an inceflant change of climate, with crews to healthy; for, on their arrival at New Holland, after being thirty months at itea, and running over a track of more than fixteen thousand leagues, they were in as good health as when they left Breft.

Matter of himfelf, and never giving way to first impressions, he was in a condition to reduce to practice, effectially on this expedition, the precepts of a found philosophy, friendly to humanity. Were more disposed to compose his clogium, necessarily isolated and incomplete, than to leave to the Reader the pleasure of forming an estimate of him from facts clothed with all their circumstances; and of founding a judgment on his writing's taken together, I might quote a multitude of passages from his journal, the character and turn of which faithfully paint the man, and which I have preferved as a precious treafure. I might thew him, in a particular manner, adhering

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hering icrupuloufly to that article of his influctions; engraven upon his heart, which directed him to avoid the fhedding of a fingle drop of human blood; having followed it confantly through a voyage of fuch length, with a fuccefs due to its principles; and, when attacked by a barbarous horde of favages, he had loft his fecond in command, a naturalift, and ten men of the two crews, notwithftanding the powerful means of vengeance which he poffeffed, and motives fo excufable to employ them, he reftrained the fury of his men, fearing to firike a fingle innocent victim among thoufands of the guilty.

Equitable and modeft, as well as enlightened, we fhall fee with what respect he makes mention of the immortal Cook, and how zealous he is to do justice to the great men who had preceded him in the fame career.

Equally just to all, La Pérouse in his journal and in his correspondence, dispenses with impartiality the praises to when is coadjutors are entitled. He likewife makes g. And mention of the strangers who, in different parts of the world, received him with kindness, and procured affistance for him. If government, as there is no room to doubt, means to fulfil the intentions of La Pérouse, it owes to these last a public token of acknowledgment.

Valued according to his worth by the English navigators who had an opportunity of knowing him, they have given him an unequivocal testimony of effect in their writings.

All who enjoyed his intimacy have pronounced his just elogium, but it would be endless to descend to particulars.

To fpeak, however, of his virtues, of his talents, is to recollect his misfortunes, is to awaken our own regret: the idea of the one is henceforward infeparably connected with the recollection of the other; and they lay the foundation for perpetuity of a monue 2 ment

fevere ires of whom benejehaviidence, ffed for e exerft them; ng their oni Not a merprofits of v to the the fatisul to his feconded ir health, long duinceflant ; for, on ng thirty more than od health

ay to first ie to praccepts of a Were necessarily he Reader from facts of foundogether, I nis journal, y paint the cious treanamer, adhering XXXV

ment of forrow and gratitude in the heart of every friend of the fciences and of humanity. If I feel any emotion of delight at the clofe of the painful labour which this work required, and after the care and trouble which it coft me up to the day of publication, it is undoubtedly at this inftant, when I am permitted to be the organ of the French republic, in paying to his memory a tribute of national gratitude.

La Péroufe, after his laft letters from Botany Bay, was to have gone to the Ifle of France, in 1778.* The two following years having clapfed, the important events which occupied and fixed the attention of all France, could not divert her attention from the fate which feemed to threaten our navigators. The first expressions of folicitude on the fubject, the first accents of fear and forrow, islued from the bar of the National Assembly, through the organ of the members of the Society of Natural History.

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"It was not in the purfuit of frivolous objects, or for his private advantage, that M. de la Péroufe has braved danger of every kind; the generous nation which was to have reaped the fruit of his labours, owes him likewife her intereft and her aid."

* See vol. ii. extracts from two letters of La Péroufe, dated Botany Bay, February 7th, 1788. " We

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"We are already informed of the lofs of many of this companions, fwallowed up by waves, or maffacred by favages: cleave to the hope which remains to us, of recovering fuch of our brethren as may have efcaped the fury of the billows or the rage of cannibals; let them return to our fhores, were they even to die of joy in embracing this land of liberty,

The demand of the Society of Natural Hiflory, received with the most lively interest, was followed up foon after by the law which directed the arming of two frigates to go in quest of La Pénoufe.

The motives which dictated this decree, the very terms of the report difference the tender and affecting interest which our navigators had inspired, and the ardor with which, from a defire to find them again, a fingle ray of hope was eagerly catched at, without reflecting on the great facrifices which this voyage of refearch demanded.

"For a long time our vows call for M. de la Pé-"roufe, and the companions of his glorious, too pro-"bably, alfo, of his unfortunate voyage."

"The Society of Naturalifts of this capital is come to tear afunder the vail which you dared not to raife "up; the mourning which they have announced is become univerfal; and you have appeared to embrace, with transport, the idea which has juft been fuggefied to you, of fending out thips in fearch of M. de la Péroufe. You have given orders to your committees of the marine, of agriculture, and commerce, to prefent you with their views refpecting an object to deeply interefting: the fentiment which appeared to determine your refolution, has likewife dictated their opinion."

"There fcarcely remains to us the confolation of doubting on the fubject: M. de la Pérouse has "fuffered some dreadful disafter."

" It is impossible for us reasonably to hope that c 3 his

f every feel any 1 labour are and publicaam perublic, in ratitude. any Bay, n 1778.* e imporattention from the ors. The , the first bar of the the memall states

nce has to of M. de ereft in his n the dark fufpect, is ich he acaped death rment of a ually difapfhipwrcck om whence is country,

s objects, or Pérouse has prous nation his labours, aid."

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PRELIMINARY DISCOURSE.

" his veffels are at this moment ploughing the fur-" face of the deep. That navigator and his com-" panions are either now no more ; or elfe, thrown "on fome difinal fhore, loft in the immensity of "innavigable feas, and confined to the extremities" " of the world." They are, perhaps, contending " with inclemency of climate, with ferocious animals," " with men, with all nature, and calling for affift-"ance on their country, which can only form con-" jectures about the calamity which may have be-" fallen them." Stranded, perhaps they are, upon " fome unknown coaft, upon fome barren rock : " there, if they have been to fortunate as to fall into "the hands of a hofpitable people, they breathe ; " but neverthelefs, ftill implore your aid; or if they "have been caft upon a bare folitude, wild fruits. " and fhell-fifth are the only support of their exist-" ence : fixed on the fhore," their eyes travel along " the face of the ocean in fearch of fome aufpicious " fail which might waft them back to France, to " their families, to their friends," por da and from

"Reduced to embrace an idea which is, perhaps, nothing more after all than a pleafing error, you are difposed undoubtedly, as we are, to prefer this conjecture to the overwhelming idea of their total "lois: it is that which the Society of Naturalists of Paris have just prefented to you; it is that which M. de la Borde had before impressed on every heart possessing fensibility, in a memorial "read before the Academy of Sciences." 6

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"But if you are affected, if you are firuck with this idea, it will be impoffible for you any longer to give yourfelves up to impotent regret: humanity requires it; we must fly to the relief of our brethren. Alas! where shall we go to look for them? Whom have we to interrogate concerning their deftiny? Is it possible to explore all the coasts of seas in some measure unknown? Is it possible to touch at all the

XXXIX

the furnis comthrown nfity of tremities tending animals, or affiftorm conhave bere, upon n rock : fall into breathe : or if they ild fruits eir cxiftvel along ufpicious rance, to

perhaps, rror, you refer this heir total Jaturalifts it is that refied on memorial

with this er to give hanity rebrethren. ? Whom deftiny ? us in fome uch at a.'l the

"the iflands of those immense archipelagos which " prefent to many dangers to the mariner) Is it pof-" fible to visit all the gulfs, to penetrate into all the "bays of the ocean ? Is it not even poffible, on " reaching the island which might contain them, to " land on one point, and leave them on another ?? 1. " The difficulties are undoubtedly great, the fuc-" cefs is more than hopelefs; but the motive of the en f terprize is powerful. It is poffible that our ill-fated " brethren may be firetching out their arms toward " us, it is not impoffible that we fhould reftore them " to their country; and henceforth a are no longer "permitted to recede from an attempt which cannot "but do us honour. We owe this interest to the "men who have devoted themfelves ; we owe it to " fciences, which are expecting the fruit of their re-" fearches : and, what ought to increase this interest, "M. de la Pérouse was not one of those adventurers " who thrust themselves on great enterprizes, either. " to procure for themselves an illustrious name, or " to make them fubservient to the raifing of the r for-" tune; he had not even difcovered the ambition of " commanding the expedition entrusted to his care ; " he could have wifhed it had been in his power to "refuse it; and when he accepted the command, " his friends well knew that it was an act of pure re-" fignation. I'vis riebouil of game

"Fortunately we know the track to be purfued in " a refearch to painful; fortunately we can put into " the hands of the perfons to be charged with this " affecting miffion, the conducting thread of the " perilous labyrinth which they have to trace."

"The proposal of a refearch which humanity en-"joins, cannot be carried to this tribune to be combatted by the maxims of parfimony, or to be difcutfed by cold reason, when it ought to be decided "purely by feeling."

"This expedition will be to M. de la Péroufe, or c 4 "to

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" to his memory, the most glorious recompence with " which you can honour his fervices, his felf-dedica-" tion or his misfortunes. Thus it becomes a great " nation to difpenfe rewards."

of". Acts like this confer celebrity on the nation alfo " which has the fpirit to perform them; and the fen-"timent of humanity which gives them birth, will "characterize the age in which we live. It is no " longer to invade, and to ravage, that the European "penetrates into latitudes the most remote, but to " introduce into them enjoyment and benefits; it is " no longer to rob them of corruptive metals, but to " fubdue those useful vegetables which contribute to "the fupport and delight of human life. Finally, " there will be feen, and the favage tribes will not "be able to contemplate it without the meltings of "fympathy, there will be feen, at the extremity of the "globe, pioufly affectionate navigators demanding " information with intereft, concerning the deftiny "of their fellow failors, of the men and the deferts, " of the caves and the rocks, and even of shelves and " quickfands; there will be feen on feas the most per-" fidious, in the finuofities of archipelagos the moft " dangerous, around all those islands peopled with " anthropophagi, men wandering about in fearch of "other men, to precipitate themfelves into their " arms, to fuccour and to fave them." ...

Scarcely had the fhips difpatched in queft of La Péroufe taken their departure, when a report was circulated that the Captain of a Dutch veffel failing through the Admiralty Iflands, to the weft of New Ireland, had perceived a canoe manned by the natives, who appeared to him to be dreffed in the uniforms of the French marine.

General d'Entrecasteaux, who commanded the new expedition, having put in to the Cape of Good Hope, heard this report. Notwithstanding its want of authenticity and of probability, he did not hesitate a fingle

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a fingle inftant; he changed the track which he had proposed to purfue, and flew to the place which the report indicated. His zeal having been followed with no manner of fucces, he recommenced his refearch in the order prescribed by his instructions, and he finished it without being able to obtain the flightest intelligence, or any thing that had the shadow of probability, respecting the sate of our unfortunate navigator.

The caufe of the loss has been reasoned upon in France, in various ways. Some perfons, unacquainted with the track which remained for him to purfue from Botany Bay, and which is traced in his laft letter, have alleged that his fhips muft have been caught in the ice, and that La Pérouse and all his companions muft have perished by a death of the most horrid form. Others have taken upon them to affirm, that before his arrival at the Isle of France, toward the close of 1788, he had become the victim of the violent hurricane which had proved fo fatal to the Venus frigate, for the was never more heard of, and which had entirely difmasted the frigate Refolution.

Though it be impossible to dispute the affertion of these last, at the fame time it ought not to be admitted without proof. If it is not the true account, La Pérouse must probably have perished through stress of weather, on the numerous shallows which line the shores of the archipelagos which he had yet to explore, and which General d'Entrecasteaux actually reconnoitred. The manner in which the two frigates always failed, within reach of voice, must have rendered the same accident common to both; they must have shared the disaster which had so nearly befallen them November 6th, 1786; and been swallowed up before they could reach land.

The only hope which can remain is, that they may have been fhipwrecked on the coaft of fome uninhabit-

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ed ifland in this cafe there may full exift fome indivisuals of the two crews; on one of the innumerable islands of the archipelegos. Fas from the tracks bitherto purfued, they may have afcaped all fearch unde for them, and may never again revifit their country, except from the effect of chance which may fond a flip that way, as they are probably deprived of all refources for building one.

We cannot, however, but admit the observation. that the favages perform very long voyages in canoes Smply; and we may judge, on infpecting the chart, that if our thipwrecked feamen had got athore, whether upon a defert ifland, or among favages who spared their life, they might have been able, in the courfe of pine years, to approach nearer and nearer to a place from which they could convey news of themselves ; for it is probable, that they would have attempted every thing to deliver themfelves from that fate of anxiety and fegacitration inexpressibly worfe than death in If, then your hopes be not enfively enhibilated, they are at least extremely faint. A nevigator has emitted a declaration of his having proofs of the thipwreck of La Péroufe. The Reader will judge of the confidence due to them. from his deposition, of which I shall give an exact copy, without prefuming to make any other observation than that of comparing the author with himfelf, and of contrafting his affirmation with the relation

Entract from the Minutes of the Municipal Court of the City and Community of Morlain.

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"George Bowen, commander of the fhip Albe-"marle, bound from Bombay to London, and "brought into Morlaix, being interrogated whether "he had any knowledge of La Péroufe, who had "left France on a voyage round the world, replied "that

fome indinumerable the tracks all fearch evifit their which may deprived of

on to mui blervation. s in canoes the chart, hore, whevages who ble, in the and nearer y news of would have elves from expredibly be not enly faint.

of his havoufe. The e to them, e an exact er observaith himself, the relation 1. 30 1 55

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fin. fhip Albendon, and ed whether , who had rld, replied " that

" that in December, 1791, he himfelf faw, on his " return from Port Jackfon to Bombay, on the coaft " of New Georgia *, in the eaftern ocean, the wreck " of M. de La Pérouse's vessel, floating on the wa-" ter +, and that in his opinion it was part of a " veffel of French construction ; that he did not go " on thore, but that the natives of the country came " on board his thip; that he could not comprehend " their language, but that by their figns he had been enabled to understand that a veffel had come " afhore in those latitudes; that these natives un-" derftood the ufe of feveral pieces of iron-work, " of which they were curioufly fond fand that he, " the Examinee, had exchanged feveral articles of " iron ware with those Indians, for glass-ware and bows : as to the character of those Indians, that " to him they appeared peaceable 1, and better in-" formed than the inhabitants of Otaheite, as they " had a perfect knowledge of works of iron; that " their canoes were finished in a very superior fiyle : " that when the natives were on board his fhip, he " had not as yet any knowledge of the wreck in " queftion, and that in coaffing along the land, he " perceived it by the help of a great fire kindled on " fhore, toward the middle of the nights of Decemind and while methes were of European units

ritont ha had out of curiofin · Seen again by Shortland, a lieutenant in the English navy, in 1788; but discovered in part by Bougainville, the captain of a French ship, in 1768; and still farther by Surville, captain of one of the East India Company's thips, who gave it the name of the country of the Arfacides.-French Editor.

† La Pérouse could perish only in 1788. I leave it to those who are acquainted with the effects of the waves of the fea on a fhip. wrecked veffel, to judge whether this wreck could ftill exift floating on the water, at the end of December, 1791 .- French Editor.

‡ Thofe Indians, characterized as peaceable, attacked the boats which Bougainville had fent afhore for water, upon their coming into Choifeul's Bay .- French Editor.

§ It is undoubtedly furprizing, that the wreck feen by George Bowen, and affirmed to be that of the veffel of La Péroufe, and of French construction, which supposes it to have been confiderable

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"ber 30, 1701 ; that, but for this fire, he would " probably have run aground on the rocks of Cape " Deception. The Examinee delares that, in all this " part of New Georgia, he observed a great number " of cottages or huts; that those Indians were of a " robuft form, and of a gentle character, from whence " he presumes that if M. de La Pérouse, or any of " his fhip's company, got on fhore, they may ftill "exist and that, to his knowledge, of all the fhips "which have navigated in those latitudes, no one, ex-" cept that of M. de Bougainville, the Alexander, the "Friendship of London, that of M. de la Pérouse, " and his own, were ever on that part of the coaft : " that of confequence he prefumes this to be the " wreck of M. de La Péroufe's veffel +, as the Alex-" ander went to the bottom in the Strait of Macaffa, " and the Friendship reached her port in England. " Being interrogated whether he had feen on the " natives of the country any article of drefs which " indicated a communication with Europe, replied, " that those Indians were naked : that the climate " is very hot, and that, by their figns, he underflood " that they must have feen ships before that time : " that he perceived in the pofferfion of those Indians " nets for fishing, the threads of which were of " flax, and whole meshes were of European manu-" facture §; that he had out of curiofity, taken a

in quantity, and examined closely and with minute attention, is here found to have been perceived only at midnight, by the light of a fire kindled on the land.—French Editor.

 Bougainville, obliged to repel by force, the attack of those Indians, captured two of their canoes, in which he found among other articles, a buman jaw balf brailed, an evident proof of their being men-eaters.—French Editor.
 + The English captain no longer states it as a matter of cer-

+ The English captain no longer states it as a matter of certainty, that the wreck which he faw, was part of the ship of La Pérouse; it is now no more than simply a presumption.—French Editor.

§ Bougainville found in the canoes which fell into his hands, nets with

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" fmall piece of one of them, from which it would " be easy to judge that the materials and the work-" manship were both from Europe."

Such are, up to this day, the only indications obtained respecting the fate of our navigator.

The public documents, always fubfifting, of the track which he purfued, and of the countries which he vifited, are the medals ftruck on occasion of his voyage, and left or distributed by La Pérouse in the courfe of his progress. There had been delivered to him about a hundred, partly filver, partly copper, and fix hundred of different metals. The remainder of his route being known, these medals may one day indicate to us nearly the place where his difaster interrupted it. T was wet and and a work of side a borriers

The medal relative to the voyage having become an hiltorical monument, and being within the probability of prefenting itfelf to future navigators in the fame track, I cannot refift my inclination to deferite it, though I did not think myfelf bound to get it engraved. It has, on the one fide, the effigies of the king, with the ufual infeription ; the reverfe is infcribed with thefe words, furrounded by two olive branches bound with a knot of ribband : mini ore in einanteouily of theoriter, is the expansion nuteria.

The frigates of the King of France, I.a Bouffole and l'Aftrolabe, commanded by Meffrs. de La Péroufe and De Langle, failed from the port of Breft, in June, 1785. The star whit tur stilling our party The art and the ences day a 2 . 11 + 4.16

So many precautions employed to enfure the fuccefs and authenticity of a great expedition, the expenfe which it occasioned, the vexation and calami.

with melbes of a very delicate thread and most writely woven. It is probable that their perfectness led George Bowen into an error .--French Edutor. to pt. Aller als It.

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e ; would of Cape in all this t number vere of a h whenco or any of may ftill the fhips one, exnder, the Péroufe, he coaft : b be the the Alex-Macaffa, England. n on the efs which , replied, e climate nderftood nat time : le Indians were of in manutaken afmall

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ty with which it is attended, will excite a doubt in the minds of certain prejudiced and fystematic gentlemen, whether this trouble and anxiety are compenfated by the reciprocal benefit which nations derive imm voyages of difcovery. Though I myfelf have relufed to acknowledge as a benefit the introduction of our domestic animals, and of fome farinaceous vegetables among favage tribes, compared to the mifchief refulting to them from the false or fuperficial notions which our principles fuggeft to them, and from the fudden communication of our manners and cuftoms; I fay, that after having given them detached particulars of knowledge, which they are incapable to extend or to apply, vegetables and animals which they neither preferve nor perpetuate, to abandon them to themfelves, is to render fruitlefs the defire excited in them to know and to enjoy, it is to make them miferable; but that to inftruct them gradually in order to civilize them, to form them into orderly colonies, before attempting to make them polithed nations, and not to communicate to them new wants and new modes of acting, without giving them, at the fame time, the means of providing for the one, and of ferving themfelves advantageoufly of the other, is to prepare and enfure to their posterity the happy refults of the expansion of the human faculties.

If there could refult to us as to them inconveniences from these communications, when the relations are fo different, the great advantages which the arts and fciences derive from voyages of difcovery, cannot be reafonably difputed. Civilized man feels the neceffity of proportioning his acquirements in knowledge, and his enjoyments, to the capacity of his understanding, and to the extent of his defires. The navigator, as he advances, difcovers new productions beneficial to humanity; he afcertains the different points of the globe, and gives fecurity to his his to grt pro led thu the tru

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his own route and to that of others, he teaches us to form a judgment of our fellow oreatures from a greater number of relations, and every flep of his progrefs is a new approximation toward the knowledge of man and of nature. It is great, it is noble, thus to incur expense and to encounter danger for the benefit of fociety at large, and for the increase of true riches.

If fome philofophers have condemned voyages in general, becaufe expeditions undertaken from ambitious and interefted views, have exhibited acts of barbarity following in their train, it is undoubtedly becaufe they confounded them with voyages merely of difference which have for their object the communication of bleffings to favage nations, and the enlargement of the field of fcience.

These benefits, it will perhaps be alleged, are the price of their blood, because these favage tribes are to be restrained only by mustering a force, which, becoming fatal to the navigators themselves, occafions a double crime in the eyes of philosophy and of nature.

Let us confult the navigators who have made themfelves known by their moderation; their relations demonstrate, that by employing the means which prudence dictates, it is easy to reftrain favages by the display of force fimply: foon conceiving an attachment, from benefits received, to navigators whom they respect, they are sufficiential of gratitude, and confequently of every other moral feeling.

Juffice muft be done to the motive which has mifled those philosophers; that respectable motive is humanity. We ought, then, henceforth to be agreed, as to the conduct of our navigators, in obferving their extreme tenderness where the life of favages is concerned, who destroy one another on the flightest pretext; in contemplating the ferocity of

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PRELIMINARY DISCOURSE.

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of these last, softened down by civilization, and the immense quantity of blood spared by the abolition of human facrifices, so shocking to humanity, and yet so generally practifed among favage nations.

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PRELIMINARY INSTRUCTIONS.

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DECREE

NATIONAL ASSEMBLY,

OF THE

OF FEBRUARY 9TH, 1791.

THE National Affembly, having heard the report of the united committees of agriculture, commerce, and the marine, decrees,

That the King be requeited to iffue orders to all ambaffadors, relidents, confuis, national agents, ememployed at the courts of the feveral maritime powers, to use their influence with the respective fovereigns at whose courts they refide, in the name of humanity, and of the arts and fciences, to charge all navigators and agents whatever, who act under their infiructions, in whatever place of the globe they may be, but especially in the southern parts of the South Sca, b make every enquiry in their power respecting the wo French frigates Bouffole and l'Aftrolabe, commanded by M. de la Péroufe, and alfo refpecting their crews, in the view of obtaining fuch information as may afcertain their existence or their shipwreck; to the end that, in case M. de la Pérouse and his fellow navigators fhall be found or heard of. no matter in what place, all poffible affiltance may be given them, and means procured for affifting them to return to their country, as well as for enabling hem to recover and carry off whatever property they may p flefs: the National Affembly becoming bound o indemnify, and even to reward, according to the mportance of the fervice, the perion or perions who hall lend affiftance to these navigators, obtain infornation concerning them, or fo much as procure for france the reftitution of fuch papers or other effects VOL. I. of

of whatever kind, which belonged, or might have belonged to their expedition.

Decrees, farther, that the King be requefted to iffue orders for the equipment of one or more fhips, on board of which fhall embark men of fcience, naturalifts and draughtimen, and to inftruct the commanders employed in the expedition, to fulfil the twofold miffion of fearching after M. de la Péroufe, agreeably to the documents, rules and orders which fhall be given them, and at the fame time to purfue refearches relative to fcience and commerce, taking every meafure to render the expedition, independently of the enquiry after M. de la Péroufe, or even in the event of recovering him, or of procuring intelligence concerning him, ufeful and advantageous to navigation, geography, to commerce, to the arts and fciences.

Compared with the original, by us the Prefident and Secretarics of the National Affembly. At Paris, this 24th of February, 1791.

(Signed)

DUPORT, Prefident; LIORÉ BOUSSION Secretarics

DECREE OF

THE NATIONAL ASSEMBLY,

OF APRIL 22d, 1791.

THE National Affembly decrees, that the relations and charts fent by M. de la Péroufe, of part of his voyage, up to his arrival in Botany Bay, be printed and engraved at the expence of the nation, and that this expence be defrayed out of the fund of two millions ordered by article XIV of the decree of August 3d, 1790;

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the relations f. part of his , be printed on, and that l of two milce of August

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PRELIMINARY INSTRUCTIONS.

Decrees, that as foon as the edition shall be completed, and as many copies set apart as the King may be pleased to dispose of, the rest shall be sent to Madame de la Pérouse, together with a copy of the present decree, in testimony of the public satisfaction with M. de la Pérouse's devotedness to the general welfare, and to the improvement of human knowledge and useful discovery;

Decrees, that M. de la Péroufe fhall remain on the lift of naval officers till the return of the fhips difpatched in fearch of him, and that his pay be remitted to his wife, conformably to the difpofal which he had made of it previous to his departure.

Compared with the original, by us the Prefident and Secretaries of the National Affembly. At Paris, this 25th of April, 1791.

(Signed) REUBELL,

Prefident :

GOUPIL-PREFELN MOUGIN-ROQUEFORT Secretaries ROGER

MEMORIAL FROM THE KING,

To ferve as particular Instructions to the Sieur de la Pérouse, Captain in the Navy, commanding the Frigates la Bouffole and l'Astrolabe.—26th June, 1785.

HIS Majefty having given directions to equip in the harbour of Breft the frigates la Bouffole, commanded by the Sieur de la Péroufe, and l'Aftrolabe by the Sieur de Langle, captains in his navy, to be employed on a voyage of difcovery; hereby notifies to the Sieur de la Péroufe, whom he has appointed commander in chief of thefe two veffels, the particuar fervices which he will have to execute in the courfe of the important expedition committed to his care, d 2 The

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The different objects which his Majefty had in view, when he iffued orders refpecting this voyage, render it neceffary to divide the prefent infructions into feveral heads, in order to explain with greater clearnefs to the Sieur de la Péroufe, his Majefty's particular intentions as to each of the objects which are to engage his attention.

The first part will contain his itinerary, or the fketch of his voyage, according to the order of the difcoveries to be made, or carried to perfection; and to this will be annexed a collection of geographical and historic notes, to ferve him as a guide in the various refearches which he is to purfue.

The fecond part will treat of objects relative to politics and to commerce.

The third will explain operations relative to aftronomy, to geography, to navigation, to phyfics, and to the different branches of natural hiftory, and will regulate the feveral functions of the aftronomers, the naturalifts, the hiftorians, the fcientific characters, and the artifts employed in the expedition.

The fourth part will preferibe to the Sieur de la Péroufe, the conduct which it may be proper for him to obferve with respect to the favage nations, and the natives of different countries, which he may discover or have occasion to visit.

Finally, the fifth will indicate to him the precautions to be observed for the preservation of the health of his crews *.

* The particulars detailed, in the original work, under each of these heads, are numerous, and to the generality of readers would probably appear tedious and uniquerefting. Instead, therefore, of giving an exact translation, the editor thinks himself warranted to prefent a concise and general view of de la Pérouse's instructions, that the reader may not be detained too long in the threshold.

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, under each of f readers would d, therefore, of elf warranted to e's inftructions, threfhold. FRELIMINARY INSTRUCTIONS:

PART FIRST.

Sketch of the Voyage.

ON leaving Breft de la Pérouse is directed to fteer for Madeira, and there take in wine, and thence for St. Jago; to complete his wood and water, and lay in refreshments : he is to crofs the line in the 29th or 30th degree of west longitude from the meridian of Paris, and try to hit Pennedo de San-Pedro; and fix its polition; to proceed to Trinidad to wood and water, and on leaving it to run into the latitude of Ifle Grand de la Roche, but to defift from looking for this ifland, if he does not fall in with it before reaching 50° weft longitude : He is to run into the latitude of Terre de la Roche, Cook's lile of Georgia, and confine his vifit to its fouthern coaft, hitherto inexplored. He is then to look out for Sandwich Land in about 57° buth, and having afcertained its extent, to fleer for Staten Land, try to double Cape Horn, and anchor n Christmas Sound, on the fouth-west coast of Terra el Fuego, and take in wood and water. In the event of being unable to get to the weft by the winds nd currents that oppose that passage, he is to make or the coaft of Brafil, touching if neceffary at Falkand's Iflands, which prefent a variety of accommodaions to the mariner. He is afterwards to pass Strait le Mair, or double Staten Land by the eaft, in order to reach Port Christmas Sound, which, at all events, was to be the first place of rendezvous for the ships in cafe of feparation.

On leaving Christmas Sound, he is to shape his course to as to cut the meridian of 85° west in the atitude of 57° south, and pursue this parallel up to 55° of longitude, in quest of Drake's Port and Land. He is then to proceed to cut the meridian of 105° n the parallel of 38° , and continue in it to 115°

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longitude, looking out for land faid to be discovered by the Spaniards in 1714. He is then to get into the latitude of 27° 5' on the meridian of 108° weft, looking out for Eafter Ifland, where he is to anchor, and execute a particular article of his inftructions. He is thence to return to the latitude of 32° on the meridian of 120° weft, and keep on that parallel to 135° of longitude, in fearch of land feen by the Spaniards in 1773. Here the frigates are to feparate. The first is to proceed to the intermediate parallel between 16° and 17°, and perfevere in it from 135° to 150° to the weft of Paris, and then fleer for Otaheite, it being prefumable that in this track new inhabited iflands may be difcovered. The fecond frigate, from the fame point of departure, is to run into 25° 12' fouth latitude, and endeavour to keep in this parallel, beginning at the meridian of 131° or 132°, and look out for Pitcairn's Ifland, difcovered by Carteret in 1767, in the view of afcertaining its longitude, because the exact knowledge of its position would ferve to determine that of the other iflands or lands afterwards difcovered by Carteret. On leaving Pitcairn's Ifland, the fecond frigate is to fleer weftward and then to the north-weft, looking out in fucceffion for the illands of the Incarnation, of St. John Baptift, of St. Elmo, of the Four Crowns, of St. Michael, and of the Conversion of St. Paul, discovered by Quiros in 1606, and supposed to be situated to the south-east of Otaheite. The fecond frigate will thus, in a northeaft courfe, arrive at the meridian of 150° weft, and at 19° fouth latitude, and then fleer for Otaheite, where it is prefumed both veffels may arrive about the end of April; and this to be their fecond place of rendezvous.

De la Pérouse's stay at Otaheite is limited to one month; he is then to visit, on his way, the islands of Huaheine, Ulietea, Otaha, Bolabola, and the other Society Islands, to procure supplemental provisions,

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imited to one the iflands of and the other tal provisions, to to furnish the inhabitants with useful European articles, to fow grain, to plant vegetables, trees, &c. which might hereafter afford fupplies to the navigators of those remote feas. He is to fleer to the northweft, from the Society Iflands, to get into the latitude of the island of St. Bernard of Quiros, about 110 fouth, but not to purfue his fearch after it beyond the meridians of 158° to 162° west longitude : he is then to get into the parallel of 5° fouth, and to the meridian of 166° to 167°, and then fleer to the fouth-weft, and, in that direction, crofs the fea which walkes the northern flores of the archipelago of the Friendly Iflands, where he will probably find others inhabited which have not yet been vifited by any European. He is to look for the island of Bella Nacion of Quiros between the parallel of 11° and that of 11° 30', from the meridian of 169° to 171° longitude; and for the Navigators' Islands of Bougainville one after another, and thence proceed to the Friendly Istes for refreshments. He is then to get into the latitude of the Isle of Pines, fituated on the fouth-east point of New Caledonia, and afcertain whether that land be a fingle ifland, or composed of feveral. If he can make Queen Charlotte's Islands, he is to try to reconnoitre the island Santa-Cruz of Mendana, and determine its extent fouthward. Should contrary winds prevents this, he is to make for Deliverance Iflands, and afcertain whether the Terre des Arfacides, difcovered by Surville in 1769, is not composed of a clufter of iflands, which he will endeavour to particularize. From Cape Deliverance he is to fleer for Endeavour Strait, and in paffing it, try to afcertain whether the land of Louisiade be contiguous to that of New Guinca, and examine the hitherto inexplored coaft from Cape Deliverance to the ifland of St. Bartholomew. He is defired to furvey the gulf of Carpentaria, paying close attention, at the fame time, to the fate of the north-weft monfoon, fo as to make d 4 fure

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fure of his paffage round the fouth-weft point of the ifle of Timor before the twentieth of November. In cafe he flould not have been able to procure refreshments, where he may have touched fince he left the Friendly Ifles, he is to flop at Prince's Ifland, at the entrance of the straits of Sunda. On leaving it, and quitting the channel to the north of New Holland, he will thape his course to as to examine the western coast of that land, and begin his furvey as near the equator as the wind will permit. He is then to take a more particular infpection of its, fouthern coaft, which will bring him to the extremity of Van-Dieman's Land at Adventure Bay, or Fredrie-Henry. Bay; from whence he will make for Cook's Straits, and anchor in Queen-Charlotte's Sound fituated in that firait, which feparates the two islands whereof. New Zealand is formed. This port is to be the third place of rendezvous to the flips in cafe of feparation. Here he can refit, and provide himfelf with refreshments, wood, and water. It is prefumed that he may be in a condition to fail from this port early in March, 1787.

On leaving Cook's Straits, he is to get into the parallel of 41° to 42°, and keep in it till he reach the meridian of 130° weft. He is thence to fland to the north, in order to get to windward, and into the latitude of the Marquefas, where he is to ftop, and take in necessaries in the port Madre de Dios on the weft coaft of Ifle Santa Christiana, called by Cook, Refolution Bay. This is to be the fourth rendezvous in cafe of parting company. About two months are allowed for this patlage.

On quitting the Marquefas, if the wind permits, he may visit some of the islands to the east of Sandwich Ifles, he is then to proceed to thefe last and lay in provisions, but to make no flay. Thence he is to. make the beft of his way toward the north-weft coaft of America, flanding to the north as far as 30°, to: get

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id permits, to f Sandaft and lay ce he is to -weft coaft as 30°, to get

get out of the trade winds, and gain that coaft in the latitude 36° 20', at Punta de Pinos, fouth of Port Monterey. He is supposed to reach this from the 10th to the 15th of July. In profecuting his refearches he is to avoid the parts which have been furveyed by Cook, but carefully to examine whether there may not be fome river, gulf, or inland lake, forming a communication with Hudson's Bay. He. is to purfue his furveys up to Behring's Bay and Mount St. Elias, vifiting ports Bucarelli and de los Remedios, difcovered by the Spaniards in 1775. Hence he is to direct his courfe toward the Shumagin Iflands, near the peninfula of Alafka, and then vifit the archipelago, of the Aleutian Mands, and after them the two clusters of islands to the westward. whofe number and true polition are unknown, and which all together form, with the coafts of Afia and America, the grand northern bahn or gulf. Having completed this furvey, he is to ftop at port Awaticha. or St. Peter and St. Paul, on the fouth-eaftern extremity of the peninfula of Kamtfchatka, which he may reach toward the 15th to the 20th of September ; and : this port will be the fifth rendezvous in cafe of feparation. Here he will provide himfelf with neceffaries, and procure information requifite toward making fure of provisions on his return thither in 1788; and order matters fo as to be ready to put to fea by the 10th of October. As restricted and the second of

He is to coaft along and examine all the Kurile: Iflands, the north-eaft coaft, the caft, and the fouth of Japan; and, according to the flate of the weather, extend his refearches to the iflands on the eaft and on the fouth of the Japanefe, and to the Lekeyo Iflands, as far as Formofa. This furvey finished, he is to put into Macao and Canton, or Manilla, according to circumftances. This port will be the fixth rendezvous in cafe of feparation. It is prefumed he may reach it by the end of 1787.

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Here he is to refit and victual his thips, and wait in port the return of the fouth-west monstoon, which ufually fets in about the beginning of March, with permission, however, to remain till the first of April. if the crews have need of longer refl, and if he shall judge that a navigation northward would be hazardous prior to that period. From this port he is to fhape his courfe to as to pass through the firait which feparates Formofa from the coaft of China. He is carefully to examine the western coast of Corea, and the gulf of Hoan-hay, taking care not to fland in too far, but always to keep it in his power eafily to weather the fouth coaft of Corea with a fouth-weft or fouth wind. He is then to examine the caffern coaft of this peninfula, that of Tartary, where a pearl fishery is established, and that of Japan opposite to it. He is to pais the firait of Tefloy, and visit the lands known by the name of Yeffo, and that which the Dutch call Staten Land, and the Ruffians the Ifle of Nadezda, of which we have no certain information, He will now finish his furvey of the Kurile Islands, and force his way through the frith which feparates fome of them, as near as poffible to the fouthern point of Kamtschatka; and come to an anchor in the port of Awaticha, the feventh rendezvous in cafe of feparation.

Having there refitted and victualled, he is to put to fea early in August, and run into the latitude of 37° 30' north, on the meridian of 180°. Hence he is to fieer westward, looking out for land faid to be discovered by the Spaniards in 1610, and to prosecute this refearch to the meridian of 165° east: he is then to fieer south-west, and south-south-west, looking out for the islands feattered over those feas to the northeast of the Marianne Islands. He may put into Tinian, but regulate his ftay there, and his course afterward, by the north-easterly monson, which does not fet in, to the north of the line, till October, so that, on leaving

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and wait n, which rch, with of April, f he fhall e hazardhe is to ait which . He is orea, and ftand in eafily to outh-west ne caftern re a pearl ofite to it. the lands which the he lfle of ormation. e Iflands, feparates fouthern anchor in us in cafe

is to put atitude of Hence he faid to be profecute he is then oking out the northt into Tiurfe aftern does not to that, on leaving leaving Tinean, he may have it in his power to furvey the New Carolinas, to the fouth-weft of Guaham, one of the Mariannes, and to the cast of Mindanao, one of the Philippines. This furvey to be purfued as far as St. Andrew's Iflands. He is after that to ftop a fortnight at Mindanao to take in provisions and refreshments; then to fleer for the Moluccas, and anchor at Ternate to take in farther fupplies. As the monfoon will not permit him to pass the Straits of Sunda. he must avail himself of the variable winds near the equator, to pass between Ceram and Bourro, or between Bourro and Bouton, and endeavour to force a paffage between fome of the islands to the east or west of Timor. Having then probably run beyond the parallel of 10° fouth, he will find himfelf out of the north-west monsoon, and be able with ease, with the wind from the caft and fouth-east, to make the Ifle of France, which will be the eighth rendezvous for the fhips in cafe of feparation.

He is to remain there no longer than is abfolutely neceffary to prepare for his return to Europe. On leaving it, he is to run into the mean parallel between 54° and 55° fouth, and look out for Cape Circumcifion, difcovered in 1739 by Lozier Bouvet. Croffing this latitude at 15° eaft, he will continue in the fame parallel to the meridian of Paris, or of no longitude, and then give up the fearch. Should he then judge that the fhips are not fufficiently provided with neceffaries, he is to put into the Cape of Good Hope to fupply them. This to be the ninth rendezvous in cafe of feparation.

He is to endeavour, on his return to Europe, to make Gough's Ifland, and those of Alvarez, of Tristan d'Acunha, of Saxenberg, and Dos Picos, and if he find them, ascertain their true position. He will then steer for Brest, where he will probably arrive in July or August 1789.

Though this is the track fketched for M. de la Péroufe,

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roufe, in his Majefty's influctions, he is vefted neverthelefs with a differentiationary power of deviating from it according to circumftances, provided that the main object of the expedition be kept continually in view.

PART SECOND.

Objects relative to Politics and Commerce.

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1. The ftay which the Sieur de la Pérouse is to make at Madeira, and at St. Jago, will be too short to admit of his obtaining exact information respecting the flate of those Portugueze colonies; he will, however, procure intelligence respecting the force which Portugal keeps up in them, respecting the trade which the English and other nations carry on there, and respecting the leading objects which it may be interesting to know.

11. He will accertain whether the English have entirely evacuated Trinidad, whether Portugal has formed an establishment in it, and of what it confists.

11. Should he hit the Ifle Grande de la Roche, he will fatisfy himfelf whether it contains any fafe and commodious harbour, capable of fupplying wood and water; what accommodation it prefents for the formation of a fettlement, in cafe the fouthern whalethery fhould attract French adventurers that way; whether there is any poft which could be eafily fortified, and defended by a fmall garrifon, at a diffance to great from France.

IV. He will examine Georgia in the fame view. But this ifland, being in a higher latitude, prefents, lefs attraction, and the ice which obfiructs the navigation during part of the year, would probably difcourage the fifthermen from making this a place of rendezvous or retreat.

v. The iflands of the great equatorial Ocean prefent few fubjects of obfervation relative to polities and commerce, from their immenfe diffance, except perhaps

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ule is to oo fhort refpecthe will; he force ting the carry on which it

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perhaps to the crown of Spain. M. de la Peroufe is, however, directed to attend to the climate, and the productions of the different illes of that ocean which he may vifit, to the manners and cuftoms of the natives, their religion, form of government, mode of making war, arms, veffels, diffinctive character of each tribe, what they have in common with other favage, and with civilized, nations; and the particular diffinction of each. In fuch of those iflands as have been vinited by Europeans, he will endeavour to find out whether the natives could diffinguish the different nations of their vifitors, and what opinion they may have formed of each of them in particular. He will enquire what use they have made of the various articles of merchandize, metals, tools, fuffs, &c. introduced into their country. He will inform himfelf whether the beafts and birds left by Captain Cook in fome of them have multiplied; what European feeds and pot-herbs have thriven beft; what mode of culture is employed by the iflanders; and what use they make of the produce. He will examine the facts related by former navigators, and fupply their omiffions.

At Easter Island he will fatisfy himself whether the human species is there on the decrease, which Captain Cook's observation and belief render credible.

On touching at Huaheine, he will try to get acquainted with Omai, whom the English navigator fettled there in the course of his third voyage, and learn what treatment he received from his fellowislanders after the English were gone, and what use he himfelf had made of the knowledge he must have acquired in Europe, toward the improvement of his own country.

vi. In his furvey of the iflands of the great equatorial Ocean, and the coafts of the continents, fhould he meet at fea any veffels belonging to a foreign power, he will conduct himfelf conformably to the modes

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modes of behaviour established among polished and friendly nations; and on meeting any such in a port pertaining to a nation confidered as favage, he will concert measures with the commander of the foreign vessel, effectually to prevent all altercation between the crews which may happen to be on those together, and to fecure mutual affistance in case either should be attacked by the islanders.

VII. In his vifit to New Caledonia, Queen-Charlotte's Iflands, the land of the Arfacides, and Louifiade, he will carefully examine the natural productions of those countries, which being fituated in the torid zone, and in the fame latitude with Peru, may open a new field of commercial fpeculation, and, without truffing to the exaggerated accounts given by the ancient Spanish navigators of the fertility and riches of fome of the iflands which they difcovered in this part of the world, he will observe only that approximations founded on geographical combination, and on information derived from modern voyages, furnish room to think that the land discovered by Bougainville in 1768, and by Surville in 1760, may be the islands discovered by Mendana in 1567, and fince known by the name of Solomon's Iflands, from their real or fuppofed fruitfulnefs.

He will examine, with equal attention, the north and weft coafts of New Holland, those parts particularly which, being within the torrid zone, may partake of the productions peculiar to countries fituated in the fame latitudes.

viii. He will have to repeat the fame enquiries at the iflands of New Zealand, of which the relations of Englifh navigators have given an ample detail. But, during his ftay in Queen-Charlotte's channel, he will make it his bufinefs to find out whether England has formed or projected any fettlement there, and inform himfelf or the fpot refpecting the ftate, ftrength, and object, of fuch eftablifhment.

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1x. If in reconnoitring the north-west coast of America, he shall fall in with any forts or factories belonging to his Catholic Majefty, he fhall carefully avoid giving offence to the officers commanding fuch fettlements, and improve the ties of blood and amity which unite the two fovereigns, as the means of procuring fuch affiftance and refreshments as the country may afford. He will endeavour to obtain information respecting the state, strength, and object, of those Spanish settlements. He will enquire at what latitude peltry becomes procurable; what quantity the native Americans are able to furnish; what articles are best adapted to the fur trade; what conveniency prefents for forming an establishment on that coast, fuppoling this branch of commerce were to engage the attention of the French merchant, in the profpect of importing peltry into China, where it would find a certain market. He will likewife procure information respecting the species of skins to be purchased, and whether that of the otter, which fetches the higheft price in Afia, is the most common in America. He will bring to France famples of all the different furs he is able to procure : and as, in the profecution of his voyage, he is to ftop fome time in China, perhaps touch at Japan, he will inform himfelf what fpecies of thin promifes to have the eafieft, fafeft, and most lucrative fale in those two empires, and what benefit France may derive from this new branch of commerce. Finally, he will endeavour, during his ftay on the coast of America, to discover whether the Hudson's Bay settlements, the forts or factories of the interior, or any province of the United States, have opened through the intervention of wandering favages, any intercourse of commerce or barter with the tribes on the weft coaft.

x. It is probable that in vifiting the Aleutian Iflands, and the other clufters to the fouth of the great bafin of the north, he may fall in with fome Ruffian

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Ruffian fettlements. He will try to find out their conflitution, their force, their object; what is the navigation of the Ruffians in those feas, what fhips, what men they employ in it; how far their commerce extends; whether any of those ifles acknowledge the fovereignty of Ruffia, or are all independent; finally, whether the Ruffians have not been advancing measure and nearer to the continent of America. He will avail himfelf of his flay at Awatfeha to extend his information on these particulars, and to procure, at the same time, all possible light respecting the Kurile Isles, the land of Jeffo, and the empire of Japan.

x1. He will examine the Kurile illes and the land of Jeffo with all poffible circumfpection, not only in the view of objects relative to navigation in feas unknown to Europeans, and underflood to be tempefuous, but also in confideration of the intercourse which may take place with the inhabitants of those countries, whole character and manners must have an affinity to those of the Japanese, who may have subjugated part of them, and maintain a communication with the reft. As Ruffia extends her fovereignty over only fome of the Kuriles, adjacent to Kamtfchatka, he will examine whether, among the fouthern and independent iflands, fome one may not be found on which, in cafe of a peltry trade being opened for France, it might be poffible to form a fettlement or factory, which could be fecured against every infult on the part of the islanders.

x11. He will reconnoitre the eaft and north-eaft coaft of Japan, and anchor in fome of its ports, to obtain certain information whether its government actually oppofes invincible obftacles to all chablifhment, to every operation of commerce or barter on the part of the Europeans; and whether, by the attraction of peltry, an object at once of utility and luxury to the Japanefe, it might not be possible to prevail on

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on the ports to the east and north-east, to admit veffels loaded with this commodity, and to give in exchange the teas, the filks, and the other productions of their foil, and the articles of their manufacture.

x111. On his arrival at Macao, he fhall take the measures necessary to facilitate his wintering at Canton. For this purpofe he will address himself to the Sieur Vieillard, his Majefty's conful in China, and engage him to take the proper steps with the Chinese government to obtain permiffion. He will avail himfelf of his flay there, to acquire accurate information respecting the actual state of commerce between European nations and Canton, under every relation which it is of importance to know. He will procure intelligence of every particular that may affift his farther navigation in the feas north of China, on the coafts of Corea and eaft Tartary, and all the other lands to be visited in those parts. He will secure, if poffible, a Chinefe and Japanefe interpreter, and a Ruffian one for his fecond call at Awaticha; making an agreement with them for the time they are to be in the fervice of the fhip, and on his return, will put them afhore at Mindanao or on the Moluceas.

xiv. He must be apprized, that Japanese pirates fometimes fwarm in the fea furrounded by Japan, Corea, and Tartary. The feebleness of their vessels renders no other precaution neceffary, except being on his guard against surprize by night : but it might be of advantage to hail one of them, and engage him, by prefents and promifes, to pilot his Majefty's fhips on the excursion to Jesio, part of which is supposed to be under the dominion of Japan; in paffing the ftraits of Teffoy, with which the Japanefe must be acquainted; and in reconnoitring fuch of the Kurile If the sas they are in the habit of frequenting. Such a pilot might likewife be ufeful in vifiting fome port on the west coast of Japan, in case circumstances fhould not have permitted him to land on any point VOL. I. e * of

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of the east or north-east coast. But whatever use may be made of fuch pilot, he is not to be truffed implicitly. M. de la Pérouse will likewise, if possible, engage fome fifthermen of the Kuriles to pilot him through the iflands adjoining to Kamtfchatka. He will thus endeavour, in flanding northward, to complete his furvey of the iflands which he could not reconnoitre on his way from Awaticha to Macao, and to fupply on the weftern coaft of Japan, what he was not able to accomplish on the east and north-east. His furvey of the coafts of Corea and Chinefe Tartary must be taken with great circumspection; the Chinese government being extremely punctilious, he ought not to difplay his colours on that coaft, nor permit any operation which might give offence, left it fould be refented on French fhips trading to Canton.

xv. In examining the Carolina Iflands, known only by name to moft of the nations of Europe, he will take care to inform himfelf whether the Spaniards have formed any fettlement there. He will endeavour to acquire the knowledge of the productions of those iflands, and of all those which he may discover to the north-cast, and to the west-south-west of the Mariannes.

xvi. In ftopping at Tinian he will procure information refpecting the fettlements, the firength, and the commerce of the Spaniards in that archipelago and its vicinity. He will make the fame inquiries at Mindanao, to learn, as far as poffible, the political, military, and commercial flate of that nation in the Philippine Iflands.

1 XVII. During his ftay at the Moluccas he will carefully inform himfelf refpecting the fituation and the commerce of the Dutch in those iflands, and particularly in the view of knowing what advantages muft refult to the commerce of England, from the liberty which that power has obtained by her late treaty of peace pe th en that that me

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he will careic1 and the in particuntages muft the liberty te treaty of peace peace with Holland to navigate and traffic through the whole extent of the Adriatic feas; and he will endeavour to find out what ufe England has made of that liberty, and whether fhe has yet been able, through this channel, to open any new vein of commerce with that part of the world.

xviii. Should he put in to the Cape of Good Hope, he will procure accurate information refpecting the actual flate of this colony; of the force which Holland, or the Dutch Eaft India Company, keeps up there fince the peace, and of the flate of the old and new fortifications which defend the town and anchorage.

xix. In all the iflands, and in all the ports of continents occupied or frequented by Europeans, where he may touch, he will prudently, as far as circumftances permit, make every enquiry which may enable him to difcover, in detail, the nature and extent of the commerce of each nation, the fea and land force which each keeps up, the relations of intereft or friend/hip which fubfift between them and the chiefs or natives of the countries where they have fettlements, and, in general, every thing that concerns politics and commerce.

PART THIRD.

Operations Relative to Aftronomy, Geography, Navigation, Physics, and the different Branches of Natural History.

1. Two aftronomers having been appointed to act under the orders of the Sieur de la Peroufe, on the expedition entrufted to his charge, and the two frigates being furnished with all the inftruments of aftronomy and navigation which need to be used by fea or land, he will take care that, during the course of the voyage, neither of them neglect any opportu-

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nity of making fuch aftronomical observations as may to him appear useful.

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The object of greatest importance toward the fafety of navigation, is to afcertain, with precifion, the latitude and longitude of the places where he may land, or in fight of which he may pufs. He will accordingly direct the aftronomer employed on board each frigate to obferve, with extreme accuracy, the movement of the marine time-keepers, and to avail himfelf of every favourable circumstance for afcertaining on fhore how far the regularity of their motion has been kept up during the run, and to confirm, by comparison, the change which may have taken place in their daily motion, for the purpofe of keeping an account of that change, in order to determine with more precision the longitude of the iflands, capes, or other remarkable points which he may have reconnoitred in the interval of the two obfervations.

As often as the flate of the fky will permit, he muft have lunar obfervations made to afcertain the longitude of the veficil, and to compare it with that which the time-keepers indicate at the fame infant : he will take care to repeat observations of every kind, that the mean refult of different operations may procure a more precife determination. On paffing within fight of any land where he does not mean to ftop, he will take care to keep as nearly as poffible on the parallel of that point, at the infant of obferving the meridian altitude of the fun or any other ftar, from which to calculate the latitude of the fhip; and continue in the fame meridian at the moment of making obtervations for determining her longitude, in order to avoid all error of polition or calculation of diffance, which might injure the exactness of determination. He will, every day that the weather permits, obferve the declination and inclination of the magnetic needle. On

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On arriving in any port he will choose a convenient fpot on which to pitch his tents, and raise his portable observatory, and place a guard over it.

Befide obfervations relative to the determination of longitude and latitude, for which every known and practicable method is to be employed, and those for afcertaining the variation of the compass, he will not fail to observe every celestial phenomenon, which may be perceived; and, on every occasion, procure for the astronomers all possible assistance toward ensuring the fuccess of their operations. His Majesty is perfuaded, that the naval officers will manifest a proper zeal to make themselves, in concert with the astronomers, every observation tending to improve navigation; and that they, in their turn, will be eager to impart to the officers the fruit of their studies, and the theoretic knowledge which may contribute toward the perfection of the nautical art.

On board each of the frigates there must be kept a double journal, on which shall be entered every day, both at fea and on fhore, the aftronomical obfervations, those relating to the employment of timepieces, and all others. These observations shall be entered rough, that is fimply indicating the quantity of degrees, minutes, &c. given by the inftrument at the moment of observation, without any calculation, only pointing out the error of the inftrument employed, if it has been afcertained by the ufual verifications. Each of the aftronomers to keep poffeftion of one of the journals, and the respective commanders the other. The aftronomer fhall befides keep a fecond journal, containing, day by day, all the observations made, and add, for each operation, all the calculations leading to the ultimate refult. At the end of the voyage the Sieur de la Péroufe shall take possefion of the two journals kept by the aftronomers, after their truth has been certified by their ingnatures.

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II. When he shall stop at places which it may be of importance to know in a military view, he will have the country furveyed by the chief engineer, who must give him a circumstantial report of all his remarks, and of the plans he may have prepared. He will have exact charts drawn of all the coafts and iflands he may vifit; and if they are already known, he will afcertain the exactness of preceding navigators. For this purpole, in navigating along coafts or in fight of iflands, he must have them very exactly furveyed with the quadrant or azimuth compass, obferving that the furveys, the most to be depended on for conftructing charts, are those by which one cape, or any other remarkable object, can be laid down by another.

He will employ the officers of the frigates, and the geographic engineer, carefully to lay down plans of coafts, bays, ports, and anchoring grounds, which he may have an opportunity of infpecting, and affix to each plan inftructions which fhall exhibit every thing relating to the appearance and bearing of coafts, the getting in or out of harbours, the mode of anchorage and crofs-mooring, and the beft fituation for watering; the foundings, the quality of the bottom, the dangers, rocks and fhoals; the prevailing winds, breezes, monfoons, the length of their duration, and the period of their change; in a word, every nautical detail that may be useful to a mariner. All plans of countries, coafts, and harbours, muft have duplicates, one copy to reft with each of the captains; and, at the end of the voyage, the Sieur de la Pérouie thall take pofferfion of the whole, with the inftructions relative to them. His Majefty leaves to him the fixing of the era when the decked boats are to be put together, which are on board each frigate in pieces: his flop at Otaheite may be the proper feafon. Thefe boats may be employed to advantage in attending the frigates, whether on exploring the archipelagoes fituated

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ted in the great equatorial Ocean, or furveying in detail the parts of the coaft, and in founding bays, harbours, paflages, and, in a word, on every fervice that can be performed by a vefiel of fmall draught of water, and capable of carrying feveral days provision for its crew.

111. The naturalifts appointed to make obfervations analogous to their feveral purfuits, are to be employed each in his peculiar department. M. de la Péroufe will preferibe the objects of refearch, and diffribute the proper infiruments and apparatus, taking care that no one have a complicated tafk, but that the zeal and intelligence of every individual may produce their complete effect toward the general fuccefs of the expedition. He will communicate to them the memorial transmitted by the Academy of Sciences, pointing out the particular obfervations recommended to their attention.

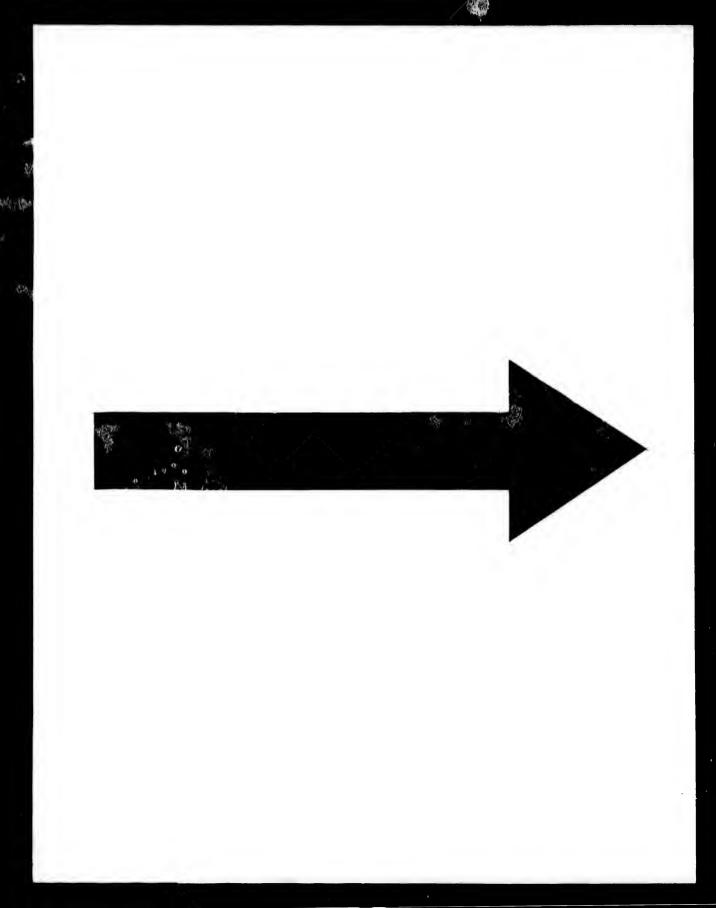
He will in like manner communicate to the furgeons of the fhips the memorial of the medical Society, that they may purfue their professional refearches to advantage. Both in the progress of failing, and in port, he will have a journal kept on board both veffels of daily obfervations made on the flate of the weather, the winds, the currents, the variations of the atmosphere, and every thing relating to meteo-When in port he will observe the genius, rology. character, manners, cuftoms, temperament, language, government, and number of the inhabitants. He will examine the nature of the foil, and the productions of the different countries, and every thing relative to the natural hiftory of the globe. He will collect natural curiofities both of the land and of the water; and have them claffed, with a defcriptive catalogue of each fpecies, mentioning the places where they were found, the uses to which the natives apply them, and, if they be plants, the virtues aferibed to them. He will likewife collect and clafs the cloth-

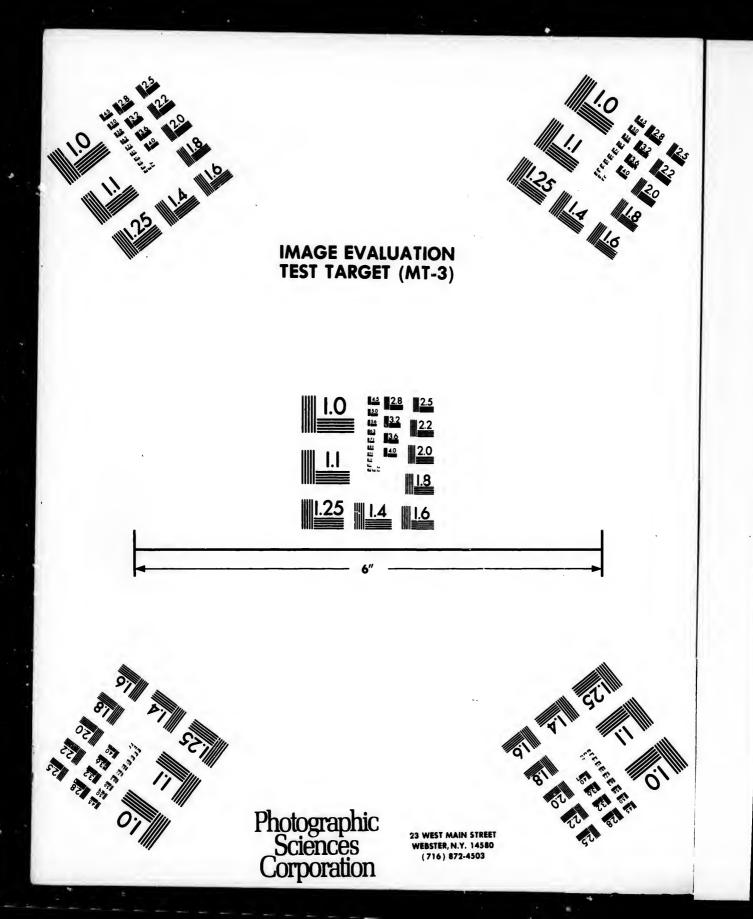
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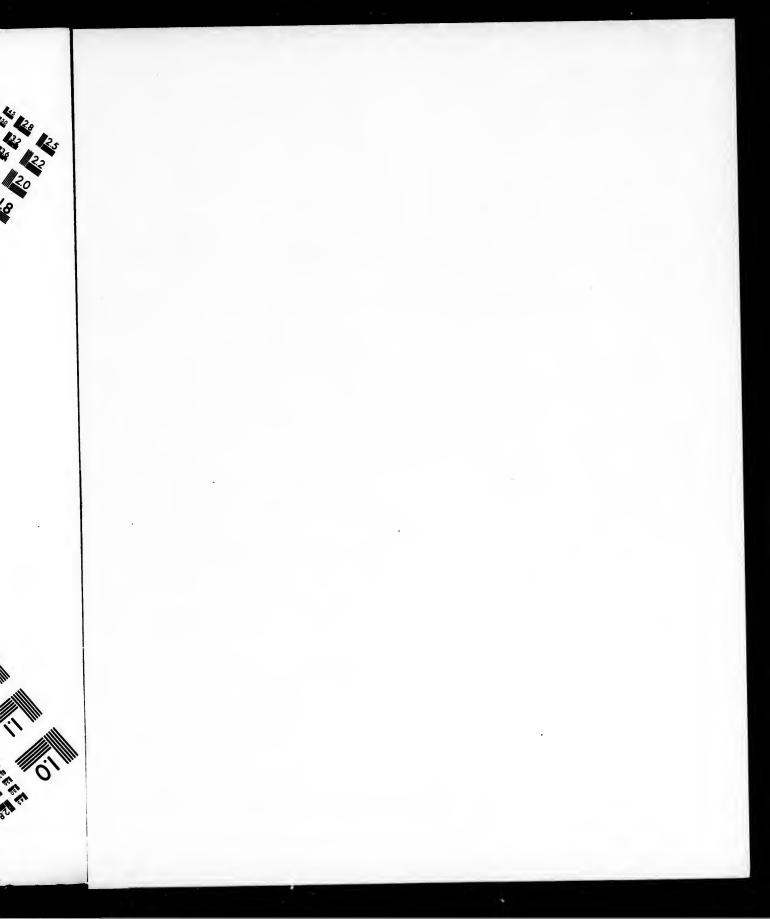
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it may be w, he will engineer, port of all prepared. coafts and dy known, ng navigalong coafts ery exactly impafs, obepended on o one cape, d down by

es, and the n plans of s, which he ind affix to every thing coafts, the anchorage 1 for waterottom, the ling winds, aration, and ery nautical All plans of : duplicates, ns; and, at érouse shall ructions ren the fixing be put toe in pieces: fon. Thefe tending the agoes lituated lxxi







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ing, arms, ornaments, furniture, tools, mufical inftruments, and all other effects used by the different nations he may visit, and every article must be labelled and numbered correspondently to the catalogue.

He will direct the draughtimen to take drawings of all the remarkable land views and fituations, portraits of the natives, their peculiar drefs, ceremonies, pastimes, edifices, boats, all the land and sea productions of the three kingdoms, if drawings of these objects appear to him likely to facilitate the comprebenfion of defcriptions given by the fcientific gentlemen on board. All drawings made on the voyage, all boxes containing natural curiofities, with defcriptions of them, and the collections of aftronomical observations shall, at the end of the voyage, be put into the hands of the Sieur de la Perouse ; and no one of the literati or artifts shall referve to himself, or for any other, any article of natural hiftory, or other obiect, which M. de la Pérouse shall deem worthy of a place in the collection defigned for his Majefty.

IV. Before entering the port of Breft, at the end of the voyage, or before his arrival at the Cape of Good Hope, fhould he ftop there, he fhall take poffeffion of all journals kept by the naval officers, aftronomers, literati, artifts, pilots, and all other perfons; enjoining them, on their word of honour, to obferve a profound filence refpecting the object of the expedition, and the difcoveries made, with an affurance that their journals and papers fhall be reftored.

PART FOURTH.

Conduct to be observed toward the Natives of the different Countries.

The relations of former navigators have difclofed the characters and manners of part of the different nations with whom he may come into contact, both in the iflands of the great fouthern Ocean, and on the northP d ir

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north-weft coaft of America. He is thereby prepared to imitate the good conduct of fome of his predeceffors, and to fhun the faults of others.

On his arrival in any port, he will endeavour to ingratiate himfelf with the chiefs, by expressing benevolence, and making prefents; he will fecure the refources which the place furnishes for supplying the wants of his fhips' companies, and employ all honourable means of forming intimacy with the natives. He will find out on what European commodities they fet most value, and make up a proper affortment which may encourage them to barter. He will fee the neceffity of using every prudent precaution to maintain his fuperiority against a multitude, without employing force; and, however well received by favages, he must ever thew himself in a flate of defence, left fecurity on his part might tempt them to come on him by furprize. In no cafe fhall he fend a boat on fhore but what is provided with arms and ammunition, and commanded by an officer, with orders never to lofe fight of the boat under his charge, and always to leave fome men to guard her. He must not permit any officer, feaman, or other to fleep on fhore, except on duty; and perfons obliged by actual fervice to pafs the night on land, shall retire betimes to the tents erected to ferve as obfervatories and magazines, with a guard placed over them under the command of an officer, to maintain good order among the feamen and foldiers, and to prevent, by active and unremitting vigilance, every attack or enterprize of the favages. He will take care to have the fhips moored within reach to protect the fettlement, and give inftructions to the officer on guard refpecting the fignals to be made in cafe of alarm.

These dispositions being made, he will prepare for providing subsistence, and other necessaries for the ships' companies; and, having made a selection from the commodities with which the frigates are furnished, he

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he will form a magazine on fhore under protection of a guard : but as all the iflanders of the South Sea have an irrefiftible propenfity to fteal, he will take care, that they may not be tempted by the fight of too many objects in one place, to have no more goods brought afhore every day but what are fufficient for the daily demand. He will regulate the value of those exchanges, and never allow the rate once fixed to be exceeded, left by giving, at first, too high a price for the articles to be procured, the natives flould afterwards refuse to deal on lower terms He will open but one magazine for both frigates; and on purpose to maintain good order and prevent abuse, he will fpecially charge an officer to treat with the favages, and to felect the petty officers or others, who fhall under his own infpection perform the duty of the magazine. No officer, or other perfon on board, shall be permitted, under any pretence, to carry on any fpecies of barter, without express permiffion from the Sieur de la Péroufe, and after the rate of exchange is fixed. If any of the crew shall be found stealing the effects of the fhip, or any of the commodities fet apart to be exchanged, he must have him punished feverely according to law, and more effectially fuch as being in the fervice of the magazine have abufed his confidence, and fecreted goods for carrying on a fraudulent trade. He will strictly enjoin all under his command to maintain a good understanding with the natives, and try to conciliate their friendship by fair-dealing and kindnefs, and prohibit them, under the most rigorous penalties, to take by force what the inhabitants refused voluntarily to furrender.

The Sieur de la Péroufe will, on every occafion, treat the people he may vifit with gentlenefs and humanity; he will zealoufly exert himfelf to ameliorate their condition, by procuring for them the ufeful potherbs, fruits, and trees of Europe; by teaching them the method of cultivation, and the ufe they ought to make

make of those presents, the object of which is to multiply on their foil the productions necessary to nations which derive almost all their fuscenance from the ground.

Should imperious circumftances, againft which prudence ought to provide on an expedition of fo long duration, ever oblige the Sicur de la Péroufe to ufe fuperior force, to procure the neceffaries of life, that force is to be exerted with the utmost moderation, and every transferfilion of orders to be punished with extreme rigour. In every other cafe, if he cannot make fure of the friendship of favages by kind treatment, he will endeavour to over-awe them by terror and threatenings, but never have recours to arms, except in the last extremity, that is, in cafes of felfdefence, and when moderation might endanger the scare.

His Majefty will confider it as one of the aufpicipus circumftances of the expedition, that it terminate without coffing the life of a fingle individual.

PART FIFTH.

Precautions to be employed for preferving the Health of the Crews.

The Sicur de la Péroufe being fully apprized of his Majefty's wifnes, that the propofed expedition, fo far from proving injurious to favage nations whom he may vifit, thould rather procure for them bleffings which they want, must furely feel what particular attention he is bound to pay to the prefervation of the crews under his command.

The thips are amply provided with every article that can either prevent the difeafes of the fea, or check their progrets, as also with those which are defigned as subfitutes for ordinary provisions, and to correct their bad effects. He will take care that these cordials

rotection South Sea will take fight of ore goods icient for value of once fixed po high a ves fhould He will

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dials and correctives be feafonably applied, and with moderation; and will pay fpecial attention to the refources which may prefent themfelves in the ports where he may touch, to procure refrefiments and wholefome food, in order to correct the effect of a long ufe of falted provifions. He will ufe his own differentiation in directing the proper mode of flowage of the frigates, and when in port, will caufe to be infpected and aired fuch parts of the provifions as difcover a tendency to decay, in the view of flopping its progrefs.

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He will neglect no opportunity of procuring fresh fifh for his men, and of freshening his falted flores by the methods put into his power, and fuccefsfully practifed by late navigators. He knows well that one of the precautions which most effectually contributes to the health of feamen, is unremitting attention to cleanlinefs, both in their perfons and in the thips. He will employ for this purpose all the known methods of ventilation, fumigation, perfuming for fweetening and purifying the air in the hold, and between decks. He will every day, if poffible, caufe the feamens' hammocks and bedding be exposed to the air: and that they may not neglect performal eleanlines, he will divide them into parties, and confide the infpection of each division to an officer, who shall once a week report to the captain the flate of the clothing, and the wants of his particular charge, and, upon an order from M. de la Péroufe, the supplemental clothing which has been put on board fhall be diffributed among the crews, according to the regulation laid down by the commanding officer, and as circumftances may require.

He will cftablifh the moft exact difcipline on board the frigates, and carefully guard against every relaxation in this respect. But the feverity necessary to all fervice, especially during an expedition of several years, will be tempered by the constant expression of the

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curing fresh falted flores fuccefsfully vell that one contributes attention to in the fhips. known meng for fweetand between aufe the fead to the air : cleanlines, nfide the inho fhall once the clothing, ind, upon an mental clothbe diffributed gulation laid d as circum-

line on board every relaxaecefiary to all on of feveral t expression of the

the paternal regard which he owes to the companions of his labours; and the King, knowing the fentiments with which he is animated, refts affured that he will unremittingly exert himfelf to procure for them all the accommodation and comfort compatible with the interests of the service, and the object of the embarkation. His Majefty could not give a more diffinguished mark of the confidence he reposes in the Sieur de la Pérouse's zeal, capacity, and prudence, than by entruiting to his charge one of the most extensive enterprises ever projected. Preceding navigators in the career of difcovery have left him great leftons and examples; but the King is perfuaded that as ambitious of glory as his predeceffors, as zealous for the extension of useful knowledge, and as perfevering, he will one day merit himfelf to ferve as a model to those who, animated by the same spirit, aim at the attainment of the fame celebrity.

NOTE.

In forming a plan of navigation for the expedition confided to M. de la Péroufe, the object was to point out a tract not purfued by former navigators; this appeared the furcit method of multiplying difcovery, and of promoting the great work of attaining a complete description of the terrestrial globe. It was neceffary, however, to indicate islands already known, as places of call where he was fure of procuring the means of subfistence, by the aid of barter for the commodities with which he was provided, and adapted to the taftes of the iflanders. But in pointing out to the French commander ports already frequented, he is directed to find his way to them in tracks not hitherto purfued, and the commodities to be exchanged confift of many articles yet unknown to the iflanders, which will convince them that the importers belong

Ixxviii PRELIMINARY INSTRUCTIONS.

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belong to a nation different from any of their former vifitors. Various principles of calculation have been employed to effimate the duration of the feveral runs. In open feas the fhips are supposed to make 30 leagues, under the trade winds, in 24 hours : 25 leagues only have been allowed to the fame fpace of time, in latitudes where it is prudent to lie to in the night; and only 20 leagues when the fhips are on difcovery, and in this cafe a certain number of days is added, to make up the time employed in reconnoitring. On these data are founded the durations of the runs and reftings, but the whole fubmitted to the direction of unforeseen events and circumstances. The whole voyage will neceffarily exceed four years: the objects in view could not have been accomplished in less time. The periodical returns of the monfoons, to the north and fouth of the line, are data to which the course must be subjected, and which mightily impede navigation in certain feas. This confideration has required various combinations to regulate particular courfes, fo as not greatly to increase the total duration of the voyage. The fhips are amply provided with flores of every kind, more than tufficient for four years, making allowance for the incidental fupplies to be expected at the various ftopping places. Captain Cook's laft voyage lafted four years, two months, and twenty-two days, and his thips were not provided as the King's will be. From the known character of M. de la Péroufe, his voyage, it is expected, will leave nothing to future navigators, but the merit of giving more circumstantial details refpecting fome portions of the globe.

All that remains is to indicate the method employed in continucting the hydrographic charts, to be transmitted to the commander, when approved of by his Majesty.

A first chart of the Southern Ocean has been prepared, on which are traced, after the journals of navigators,

heir former have been veral runs. 30 leagues, cagues only ime, in lanight; and covery, and added, to On tring. e runs and direction of The whole the objects in lefs time. o the north the courfe npede navition has ree particular total duraply provided ufficient for idental fupping places. years, two ips were not the known ge, it is exigators, but 1 details re-

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vigators, the courfes which led to difcovery, and those are indicated which are still to be made or verified. This chart is confiructed after the best French, Spanifh, English, and Dutch charts, and regulated by aftronomical observation, by which the position of the principal points of the continents and islands have been determined." The extent of the great Ocean, commonly called the South Sea, or Pacific Ocean, has rendered it neceffary to divide it into three belts or zones; the 1ft contains the great Southern Ocean, or the fpace contained between the antarctic polar circle and the tropic of Capricorn; the 2d is the grand equatorial Ocean, or interval contained between the tropics; and the 3d, the grand boreal Ocean, or the fea fituated between the tropic of cancer and the arctic polar circle. As the course prefcribed is not to extend beyond the 60th parallel, north and fouth, it was unnecessary to trace on the charts the great boreal polar, or the great fouthern polar Oceans.

In order to prepare a chart of the Great Ocean, the journals of all the navigators of the paft and prefent century have been examined; their detailed plans have been confulted, and, by reducing the scale, have been brought into the general chart. All the known tracks of ancient and modern navigators are traced on it, to bring into one view recent and ancient difcoveries, and to prove, in feveral cafes, their identity. This general chart is the refult of all that has been produced by navigators and geographers up to this day. To prefent in detail the materials employed would fill a volume. It is deemed fufficient to fubjoin to the King's inftructions to M. de la Péroufe, fome geographical and hiftoric notes on parts that need to be detailed; and to the general charts of the Great Ocean will be added thirty-feven other charts pr original manufcript plans of the lefs frequented parts of those feas.

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EXTRACTS

From M. de la Péroufe's General Inftructions.

26th June, 1785.

HIS Maiesty authorizes the Sieur de la Pérouse to grant to his crews a bounty of fome months pay, the quantity to be regulated by circumstances, but that the amount of the bounties for the whole voyage fhall not exceed a year's pay to each crew. Befides these bounties, which he is to announce to the petty officers, feamen, and foldiers, in cafe they have merited them, he will inform the two crews that it is his Majefty's intention, that the pay of fuch as may die on the expedition, reckoning from the day of their death, fhould go into a mais to be diffributed, as a farther bounty, among the furvivors of the crews to which the deceased respectively belonged ; and that his pay up to the day of his death be accounted for to his family, as well as the value of his effects, if they have been given away.

NOTES GEOGRAPHICAL AND HISTORIC,

To be fubjoined to the Memorial from the King, to ferve as Particular Instructions to M. de la Pérouse, Captain in the Navy, and Commander of the Frigates la Boussfole and Astrolabe.

SOUTHERN ATLANTIC OCEAN.

 The three rocks, fituated S. S. W. of St. Jago, one of the Cape de Verds, as well as the French beacon and breakers feen by the Cefar, in 1730, S. S. E. of the fame ifland, are laid down after the Englifh chart of the Atlantic, publifhed at London, in 1777.
 Pennedo de S. Pedro. The latitude is 55' north, as M. Daprès fays he obferved in 1750: he fettles its longitude lo m to

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longitude at 29° west of Pari., but from later and more accurate observation, it appears to be 34' more to westward.

3. The fhoals near the line are laid down conformably to the inftructions of the Neptune Oriental.

4. The fmall Island of St. Paul, scen in the same latitude by the ship of le Vaillant, is laid down after Sailing Directions for the East Indies, London 1781; but it differs 35' as to longitude.

5. Fernando de Noronha, is laid down conformably to Captain Cook's determination 3° 53' fouth, 34° 53' 50" west from Paris.

6. St. Matthew's Island was difcovered by a Portugueze, in 1525, but had been difcovered 87 years before. It is laid down after the general chart of Cook's third voyage. Its position is however still uncertain.

7. The Iflands Fernando Po, Prince's, St. Thomas, nd Annobon, are placed according to obfervations hade by Varella, a Spanifh navigator, in 1779, as nder; Fernando Po, 3° 28' north, 6° 30' weft from hris; Prince's, 1° 39' north, 5° 2' weft; St. Thohas's, 20' north, 4° 34' weft; Annobon, 1° 25' fouth, ° 25' weft. Conformable to these longitudes, those f Cape Vord, Sierra Leone, the Islands of Los, and he Cape of Good Hope, where observations have een made in like manner, the positions of the difrent points on the west coast of Africa have been igulated.

8. Afcention Ifland is placed agreeably to Cook's ofervations; middle of the ifland 8° fouth, 16° 50' eft from Paris.

9. Island of St. Helena is likewife placed conforably to Cook's and Halley's obfervations, at fort mes, 16° fouth according to Halley, 8° 11' weft, cording to Cook. But according to Dr. Maskelyne, oyal Observer at Greenwich, the latitude of St. Hena is 15° 55' fouth, and its longitude, from an ob-Vol. I.

Tions.

Pérouse to as pay, the be voyage Besides the petty have meritnat it is his as may die ay of their buted, as a he crews to 1; and that counted for is effects, if

DRIC,

King, to ferve Péroufe, Caphe Frigates la

N.

of St. Jago, French bea-730, S. S. E. the Englifh lon, in 1777. is 55' north, he fettles its longitude Ixxxi

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fervation made by himfelf on the first of Jupiter's fatellites, is 8° 9' west.

10. The Island of Trinidad is placed according to its diffance from Cape Frio, on the coaft of Brafil, as given by Daprès; north coaft, 20° 25' fouth, 32° 15' weft from Paris. Dos Picos is placed after the Dutch charts, fubjecting its position to that of Trinidad.

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11. If les of Martin-Vas, are three rocks lying relatively to each other, north and fouth, excepting the most northerly, which is thrown a little more to the weft: their extent is not above a mile. Bouvet fays that they are eight leagues diffant, and lie $\frac{1}{2}$ northeast from Trinidad, being in the fame latitude with that ifland.

12. Ifland of Afcençaon, on the coaft of Brafil is placed after Daprès, 20° 25' fouth, 38° weft. This pofition fuppofes its diffance from Cape Frio to be 120 leagues.

13. Rock difcovered in 1692, and Rock under water in 1701. Thefe dangers are placed after Dalrymple's chart of the South Sea.

14. Saxenburg, and ifland difcovered by Lindeman, a Hollander, in 1670, in 30° 45' fouth, and about 22° weft.

15. Kattendyke is laid down after Dalrymple's chart, and the general chart of Cook's third voyage.

16. Iflands of Triftan d'Acunha; their polition is regulated after Daprès, who fixes them between 37° 10' and 37° 45' fouth, and from 16° 30' to 17° weft, after a mean refult between the different runs of feveral fhips, which give 34° for the difference of meridian between those ifles and the Cape of Good Hope, which is 16° 3' 45'' eaft of Paris. Halley places the fouthmost of them in 37° 25' fouth. Betides the anchoring ground on the north of the largeft, there is a fort of harbour to the eatt of the fouthmost point, not visible in running down the coast, from the vast quantity of canes thrown down and floating across in certain

Jupiter's

ording to Brafil, as h, 32° 15'the Dutch 'rinidad. Is lying recepting the nore to the Bouvet fays ie $\frac{1}{2}$ northutitude with

of Brafil is weft. This Frio to be

Rock under ed after Dal-

d by Linde-5' fouth, and

Dalrymple's hird voyage. eir pofition is between 37° to 17° weft, ht runs of ference of melape of Good Halley places Betides the largeft, there athmost point, from the vast ating acrofs in certain certain winds. It is about half a mile broad, and three fourths deep, in form of a horfe-fhoe It has 28 fathoms water at the middle of the inlet, and 14 near the fhore: the depth is likewife 14 fathom in the middle of the length, and 10 at the head of the harbour; the bottom is black fand, and good holding ground.

17. Ifland of Diego d'Alvarez, is laid down after the general chart of Cook's third voyage, and its bearing and diffance from the Iflands of Triffan d'Acunha, according as they are given in that chart, 38° 53' fouth, 13° weft.

18. Gough's Island, fo called from an English East-India captain, who discovered it in 1715. It is very high land, in 40° 15' fouth, and 1° 57' west of Greenwich, that is, 4° 17' west of Paris. Vincent, commander of the Offerley East-Indiaman, found it in the latitude indicated by the discoverer, but from his own calculations, he reckons the longitude to be fixed too ar to the east by fome degrees. This island is not inown to French navigators: but as it may lie in he way of thips going directly to India or China, arly in the feason, without touching at the cape, it ippears an interesting object to ascertain its true poition, and M. de la Pérouse, it is hoped, may be able to accomplish this.

19. If a Grande de la Roche can be laid down only by conjecture, from a relation extracted and translated from a Spanish geographical work, printed at Malrid in 1690 *. In laying down the Isle Grande, its position has been regulated by that of the first land which la Roche had discovered to the east of Staten

* The French compiler here introduces a long quotation from the above-mentioned Spatisfi work, containing an account of la coche's paffage round Cape Horn, and fublequent difcoveries, hich we omitted, as foreign to the defign of this publication. For the fame reafon we have not translated many other tedious quotaons and difcuffions.

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Land,

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lxxxiv PRELIMINARY INSTRUCTIONS.

Land, and which has recently been re-difcovered, and called by Cook the Ifland of Georgia. There is reafon to think that the Ifle Grand of la Roche is the fame land which had been difcovered by Americus Vefpuifus, on his third voyage, in 1502.

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20. Terre de la Roche, the Georgia of Cook, and laid down by him between 53° 57' and 54° 57' fouth, and between 40° 33' and 37° 54' weft.

21. Sandwich Land, discovered in 1775: it is laid down on the chart conformably to Cook's journal and determination.

22. Chriftmas Sound, on the fouth-west coast of Terradel Fuego, laid down after the journal and charts of Cook's second voyage.

GREAT SOUTH SEA.

23. Drake's Ifland and Harbour, placed by geographers in 180 or 200 leagues W. S. W. from Cape Horn. Many accounts of Drake's voyage round the world have been published in England; they differ effentially from each other respecting the position of the lands difcovered by that celebrated navigator, after his passage through the straits of Magellan. It is not to be doubted that, if the weather favour M. de la Pérouse, he will one day furnish a verification, which fhall ferve to deftroy for ever an error in geography. Cook, in 1769, and Furneaux, in 1775, purfued tracts which, if these lands existed at the place affigned them by geographers, must have enabled those navigators, if not to fee them, at leaft to perceive fome fign, fome indication of land; and it is well known that neither of them difcerned the flighteft trace.

24. Theodore Gerard's Land. He was among the first Dutch navigators who made a voyage in the Great Ocean; he was driven by a storm in 1599, as far as 64° fouth, where he discovered a mountainous country

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-discovered, a. There is Roche is the by Americus

of Cook, and 4° 57' fouth,

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laced by geo-W. from Cape age round the d; they differ the position of ted navigator, Magellan. It ner favour M. a verification, a error in geoaux, in 1775, existed at the must have enem, at leaft to f land; and it discerned the

was among the voyage in the rm in 1599, as a mountainous country country covered with fnow, refembling Norway. It is laid down at 16° weft of the meridian of Cape Horn.

25. Land faid to have been feen by the Spaniards 1714, but of uncertain existence and position. It is placed on the chart of the Great South Sea, 33° fouth, and between 108° and 109° west. This position agrees with the opinion of Cook.

20. Eafter Ifland, difcovered in 1722 by Roggewein, a Dutchman, and vifited by Cook in 1774, who determined its position. The Spaniards touched here in 1770, and called it San Carlos. They place it at 27° 6' fouth, and 268° 19' from the meridian of Teneriff, or 110° 41' west from Paris, that is, they have carried it about 1½ degrees too far to the east. The variation of the compass was there, according to the Spaniards, in 1770, 2° 30' north-east.

27. Islands faid to be feen by the Spaniards in 1773, 32° fouth, and 130° weft from Paris. This position has been adopted by Cook, but is still difputable.

GREAT EQUATORIAL OCEAN.

28. Iflands of this vaft Sca, between 26° and 10° fouth, in the fpace contained between 130° weft, and 170° east of Paris. For all these M. de la Pérouse is referred to the voyages of Byron, Bougainville, Carterct, Wallis, Furneaux, and Cook, as containing every neceffary geographical, phyfical, and hiftorical detail, for the purfuit of his object. For the islands anciently discovered in those latitudes, he is referred to the chart conftructed on the observations made by Mendana, Quiros, Torrez, Maire, Schouten, Tafman, and Roggewein, with inftructions to verify, by his own observation, the mistakes of the ancient, rectified by modern, navigators. For this purpose he is furhifhed with an abstract (1) of Magellan's voyage, in f 3 1510;

IXXXVI PRELIMINARY INSTRUCTIONS.

1519; (2) of Mendana's, in 1567; (3) of Mendana's fecond voyage, in 1595; (4) of the voyage of de Quiros and de Torrez, in 1606; (5) of the voyage of le Maire and Schouten, in 1616; (6) of Abel Tafman, in 1642; (7) and of Roggewein, in 1722.

29. New Caledonia. It does not appear that the ancient navigators knew any thing of this ifland. De la Péroufe is referred to Cook's details of it, who difcovered it on his fecond voyage, and to the chart relative to its difcovery.

30. Santa Cruz, difcovered by Mendana on his fecond voyage, or Egmont and Queen Charlotte's Islands, vifited by Carteret, in 1767.

31. Terra del Espiritu Santo, discovered by Quiros in 1606; or the Great Cyclades of Bougainville, in 1768, and the New Hebrides of Cook, in 1774.

All this part has been laid down on the chart of the Great Equatorial Ocean, after Cook's journal and obfervations.

32. Land of the Arfacides, difcovered by Surville, in 1769. At the moment of difcovery, the latitude of the veffel was 6° 57' fouth, and her longitude, by calculation, 152° 28' eaft of Paris. But this longitude, corrected by that of New Zcaland, as determined by Cook, muft be 153° 45' at the point where land was first deferred.

33. Terres de la Louifiade, discovered by Bougainville, in 1768. La Pérouse is here referred to Bougainville's voyage.

34. Endeavour Straits, between New Holland and New Guinea. La Péroufe is here referred to Hawkefworth's collection of voyages round the world, vol. iii. p. 610, &c.

35. North and weft coafts of New Holland. There is nothing to offer that can be deemed authentic or fufficiently detailed respecting this part of the greatest island in the world. La Péroufe is referred to Dampier's voyages, for the north coaft, and to de Brofle's Navigations

PRELIMINARY. INSTRUCTIONS. IXXXVII

Mendana's yage of de e voyage of pel Tafman,

ear that the ifland. De it, who difhe chart re-

ha on his fc-Charlotte's

ed by Quiros againville, in 1774. chart of the rnal and ob-

red by Surwery, the lad her longiis. But this aland, as deat the point

by Bougainrred to Bou-

Holland and d to Hawkefe world, vol.

lland. There authentic or of the greateft rred to Damto de Brofle's Navigations Navigations aux Terres Auftrales, for the north and western coasts, and he is furnished with a copy of the foundings, and other particulars extracted from the journals of the English navigators who have more recently visited those parts.

36. Van Diemen's Southern Land, part of the fouth of New Holland. Confult Cook's fecond and third voyages.

37. New Zealand. Cook's voyages fupply every thing to be wifned on this fubject, as they contain, befides aftronomical and nautical obfervations, and defcriptions, all the particular plans and charts conftructed by Englifh navigators.

38. The Marquefas de Mendoça, difcovered by Mendana, in 1595, and re-difcovered by Cook, in 1774, to whofe relation reference may be had for every thing that concerns their defeription and geographical polition.

39. Nublada, Rocca Partida, and others, E. S. E. of Sandwich Iflands. They are laid down on the chart of the Great Equatorial Ocean, after that of Anfon's voyage, and which is copied from one found on board the Manilla galleon which he had captured.

40. Sandwich Iflands, difcovered by Cook, on his third voyage, in 1778. To him and Captain King we owe every detail which has reached us refpecting those islands.

GREAT NORTHERN OCEAN.

41. North-weft coafts of America, from port Monterey, fituated toward $36^{\circ} 42'$ north, to the Aleutian Iflands. In tracing the chart of those coafts of the Great Boreal Ocean, for the use of M. de la Pérouse, the geographical positions laid down by the Spaniards are combined with those of Cook, which last ferve to rectify the former. He is defired to verify facts by his own observation, and is referred to Cook's third

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voyage,

IXXXVIII PRELIMINARY INSTRUCTIONS.

voyage, and the charts annexed to it, as well as to those which make part of the M. S. collection.

42. The Aleutians, or Islands of Foxes, and others, which are supposed to be situated to the W., the W. S. W., and the W. N. W. of these. Cook visited only those of Oonalashka, the straits which separate them, and a few of their harbours. The other siles of this cluster, and those situated more to the west are known to us only from the Russian accounts of them, which are too inaccurate to be depended on. De la Pérouse will consider them merely as a vocabulary, and look out for those islands as if they were absolutely unknown. He may however consult Coxe's work entitled, *Discoveries of the Russians*.

43. Port d'Awaticha, or St. Peter and St. Paul, at the extremity of the peninfula of Kamtichatka. He is furnished with a particular plan of this port, on a great fcale, differing from that in Cook's third voyage, to which he is referred on touching there.

44. Kurile Islands. Captain Gorc, who fucceeded Cook and Clerke in the command, vifited none of them. Muller fays, that Yefo or Jeffo is the name given to all the islands denominated by the Ruffians Kurilfki or Kuriles. The most northern of them is very near the fouthmost point of Kamtschatka. They are 22 in number, and at no great distance from each other. The inhabitants are supposed to be fusceptible of friendship, hospitable, generous, and humane. Confult Cook's third voyage.

45. Land of Yeflo or Jeflo. The Japanefe confound this with the Kuriles, but they are generally believed to be different. Cook has thrown no light on the fubject. De la Péroufe is furnifhed with a copy of the chart conftructed by the Dutch, which prefents a detail of all their diffeoveries in those feas.

46. East coast of Japan. A chart of a small portion of it is to be found in Cook's third voyage, and nautical observations relative to it.

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47. Lekeyo Islands, to the S. W. of Japan. Buache has given extracts from all the letters of miffionaries relative to those islands.

48. Great Island, populous and rich, faid to have been difcovered by the Spaniards about 1600. Referred to a passing in the Philosophical Transactions of the Royal Society for 1674, for some particulars relating to this island.

SUPPLEMENT.

49. Caroline Iflands. Of these a particular chart has been constructed after that of Father Cantova, nd the relations of other missionaries, which have een printed as a supplement to the Histoire des Naigation aux Terres Australes, by de Brosses.

50. An island to the fouth, between Mindanao and he Moluccas. Confult, for all this part, Forster's byage to New Guinea.

51. Straits the east and west of Timor. M. de la rouse is referred to Dampier's voyages for instrucous which may affist him in navigating the ships rough one or the other of those straits, as the wind and other circumstances may direct.

52. As to the Ifle of France and Cape of Good lope, he is referred to the Neptune Oriental of Dares, and the inftructions fubjoined.

53. Marfeveen and Denia; two little iflands known o the Dutch, and furnifhing them a fupply of wood, nd yet their position is not determined. Cook rerets that it was not in his power to look for them. They are laid down couformably to the position given hem on the general chart of his third voyage; Mareveen, in 40° 30' fouth, and 2° 45' cast of the Cape f Good Hope; and Denia in 41° fouth, and 3° cast f the Cape.

54. Cape, or Ifle, Circumcifion, difcovered January ft, 1739, by M. de Lozier Bouvet. Its pofition is ftill

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and others, V., the W. ook vifited ch feparate other ifles to the weft accounts of epended on. v as a vocaf they were nfult Coxe's

St. Paul, at hatka. He is port, on a hird voyage,

o fucceeded ted none of is the name the Ruffians of them is hatka. They iftance from ed to be fufous, and hu-

apanefe conare generally own no light nifhed with a Dutch, which n those feas. a fmall porl voyage, and

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fill undetermined; having escaped the refearches both of Cook and Furneaux, and all posterior navigators; and the discoverer not having fixed it with fufficient accuracy.

End all

LETTER

From M. le Mareschal de Castries, to M. de Condorcet, Secretary to the Academy of Sciences.

Dated Verfailles, March, 1785.

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IN this farther preliminary piece, the Marefehal informs the Academy of his Majefty's refolution to iffue orders for a voyage of difcovery round the globe, and explains the general and particular objects which it had in view. He calls upon them to digett a memor containing a detail of the different phyfical, aftronomical, geographical, and other obfervations proper to be made, both by fea and land, to direct and affif the perfons to be employed on the expedition; and concludes with exprefling a wifh that the illumination of that learned body, co-operating with the zea and exertions of the naval officers might be productive of the happieft effects on the progrefs and improvement of feience.

This produces, on the part of the Academy,

A DIGESTED MEMOIR,

For the Use of the learned and scientific Persons about to embark under M. de la Pérouse.

To reduce this fummary to all poffible order and perfpicuity, the Academy collects, under one point d view, obfervations relative to feveral branches of feences, allied by the nature of their object, though cultivated

e refearches offerior navixed it with

de Condorcet, inces.

March, 1785. the Mareschal s resolution to und the globe, objects which digest a memoir physical, astrorevations proper direct and affist xpedition; and at the illuminang with the zeal ight be productogress and im-

Academy,

ific Perfons about Véroufe.

offible order and nder one point d branches of fei r object, though cultivated cultivated by different descriptions of men. At the head of the memoir they place in one class,

GEOMETRY, ASTRONOMY, MECHANICS.

They recommend, as peculiarly interefing, to apply unremittingly to afcertain the length of the pendulum of a fecond's vibration, in different latitudes, from a perfuafion that an aggregate of operations to this effect, carefully performed by the fame perfons, with the fame inftruments, would be invaluable; they herefore intreat the navigators to purfue this object, with all poffible exactnefs, wherever they ftop.

The determination of longitudes being a primary bject to navigators, they are requefted to prefervehe original calculations of obfervations of longitude, y the diftance of the moon from certain ftars, that cafe fome aftronomer fhould afterwards, by new infervations made on land, correct the principles with may have determined the longitudes in quefn, that correction may be employed in its turn, to ftify the calculation of those very longitudes.

Navigators know before hand the moment of the . lipfes to take place during their voyage, and the aces where they will be visible. They are requested of to confine their observation to the inflants of benning and ending, but to defignate the progress ith all possible precision.

The phenomena of the tides are too interesting to men to be overlooked. They must carefully mark e double tide of every day. And some perhaps need be informed; that we have no accurate observaons of the tides on the west coast of Africa, on that America, any more than of the Moluccas and hilippines.

Observations relative to geography being suggested his Majesty's instructions, the Academy will only bjoin a few remarks communicated by M. Buache er geographic affociate.

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Under this head the navigators are directed to make accurate observations of the daily variation of the magnetic needle, every time they go on thore, and at fea whenever the weather permits: to keep an exact account of the height of the barometer, near the equator, at different hours of the day; and try to afcertain whether, as fome have remarked, the mercury flands an inch higher on the weft coaft of America than on the east: to employ fmall air balloons to determine the height at which the winds blowing in the lower region of the atmosphere change their direction, and the course of those directions; and to prepare themfelves to give an accurate account of the currents in the various parts of the globe. They are defired to obferve the auroras, boreal and auftral, and examine their height and amplitude; and to mark every circumstance which may ferve to explain the phenomenon of waterfpouts: to make frequent experiments on the different degrees of temperature of the fea, and its faltnefs in different latitudes, and at different depths: to examine and diffinguish the floating ices they may mect : and to obferve more clofely the phenomenon of the light which fometimes fhines on the furface of the fea, in the view of afcertaining its real caufe.

CHEMISTRY.

To throw light on the theory of gas, it would be of importance to afcertain whether or not the air is purer or contains more vital particles, at the furface of great extents of fea, than elfewhere. They are defired to enquire whether fedative falt is found in the lakes of the countries they vifit, as it certainly is in fome we know. They may probably meet with mineral

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mineral alkali, and will examine the fubfances with which it is mixed, its diffance from the fea, &c. in order to trace the process of nature in producing the alkalization of marine falt. They will observe in the feveral countries they visit, the colours employed in dying, the substances whence they are extracted, and the mode of application.

ANATOMY.

Befide attention to the exterior of the various tribes of the human race, comparison might be extended to the interior parts. The skull and os hyoides of a full-fized body might be procured, among a people fenfibly differing from Europeans in the form of the face, or of the whole head, and thus knowledge might be acquired refpecting the varieties of the human species from the form of the bones of the head. The proportions of the human figure, in different nations, might be compared with those which imners observe in representing beautiful nature, by dividing the height, taken in a ftrait line, into eight parts, from the heel to the crown of the head. The dimensions most accurately to be ascertained are, the length of both arms, extended from tip to tip of the middle fingers; the length of one arm, from the arm-pit to the tip of the middle finger; the circumference of the head, at the height of the forehead; that of the cheft, at the paps; that of the belly, at the navel. Examine whether, in countries where the men are of extraordinary ftature, there be fix lumbar vertebra, or only five; enquire what is the duration of life, and the age of puberty.

ZOOLOGY.

The hiftoire naturelle générale & particulière, and the ornithology of Briffion are recommended as models.

directed to variation of on shore, ts: to keep barometer, e day; and marked, the weft coaft of mall air balh the winds here change directions; accurate acparts of the the auroras, height and ftance which on of waters on the diffea, and its erent depths: ces they may phenomenon n the furface s real caufe.

, it would be not the air is at the furface e. They are alt is found in as it certainly bly meet with mineral xciii

dels. In examining uncommon fhells, the object fhould be to difcover all that are to be found on the fame coaft, the predominant fpecies, and the conformation of the animals they contain; to compare the petrified fhell-fifh of different latitudes, with the live ones in the feas adjoining, and to difcover whether the petrefactions of Europe have their living analogies in diftant feas.

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MINERALOGY.

The examination of the firata which form the correspondent coasts of a firait, or the foil of an island, on one fide, and that of the continent which fronts it, on the other, will lead to form a conclusion whether a coaft be of ancient or recent formation ; whether an island is adjacent to the mouth of a river, or has made part of the continent. Obferve, in fmall iflands, and parts of continents that can be examined in detail, at what height above the level of the fea marine deposits are found in horizontal strata. Try to afcertain whether mountains, composed of horizontal and calcarcous firata, diminish in height as you approach the equator. Collect as great a number as poffible of cryftalizations. To this is fubjoined a lift of the fpecies exhibited in Daubenton's nomenclature. They will procure specimens of the moft fingular woods and marbles; and they will fatisfy themfelves whether cryftals, which become electric by fimple heat, manifest the positive or negative electricity at one of their extremities, relatively to their polition.

BOTANY.

Let their refearches be directed to objects of utility, fuch as the knowledge of the plants ufed by different nations for food, medicine, or in works of

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XCV

, the object ound on the nd the conto compare les, with the infcover whetheir living

orm the corof an island, which fronts nclusion whenation ; wheof a river, or erve, in small be examined vel of the fea l strata. Try ofed of horiin height as great a numo this is fub-Daubenton's cimens of the they will fabecome elece or negative relatively to

to objects of plants ufed by or in works of art. art. Let them make a rich and varied collection of the grains of exotic trees and plants, picked up in a temperature, not greatly different from that of France, whofe productions, naturalized to our climate, may one day enrich our plantations, and adorn our meadows.

OESERVATIONS OF M. BUACHE.

Thefe indicate the Parts of the Ocean in which New Difcoveries may most probably be made.

1. IN the fouthern division of the Pacific Ocean there are two fpaces hitherto very little known, and in which there is every reafon to hope that new lands may be found. The first is that fituated to the fouth of Easter and Pitcairn Islands, between 30° and 35° 5, and the fecond space, which deferves to be more articularly reconnoitred, is that contained between he New Hebrides and New Guinea.

2. The northern part of this occan, ftill lefs known. may open a field of ftill more extensive discovery. To the fouth of the Mariannes, between 5° and 10° N, there is a chain of iflands, divided into feveral clufters, and extending more than 25° in longitude : and which are known only in a vague defeription. and from a chart constructed on the report of fome of the islanders, who were thrown by a form on the Ifle of Guaham. The part of those feas to the north of the Mariannes, or to the caft of Japan, are equally unknown, only we have fufficient indications that this fpace contains a confiderable number of iflands. and these very interesting; one particularly of great extent, about 300 leagues east of Japan, whither its inhabitants come to trade. The land of Jeffo cannot

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not possibly be such as the English and Russians have represented it.

3. On the weft coaft of America, to the north of California, the river of Martin d'Aguilar may afluredly be found again, in the latitude of 43°. He was one of the pilots of Sebaftian Vifcaino, whofe voyage through those feas is highly interesting. It were to be wished that some information could be obtained respecting the inland nations to the north of California; and that on the return, the islands of Denia and Marseven, to the south of the Cape of Good-Hope, could be explored. The navigators would do well to procure for us the names given by the natives to the islands they may discover, and a vocabulary of names given by them to objects the most remarkable, and of the first importance.

EXAMINATION OF THE NATURE OF THE AIR.

In order to determine the degree of its falubrity, in different latitudes, and at different elevations, the application of nitrous air feems the most fimple and most infallible. The first requisite is to procure nitrous air, nearly pure. That produced from the folution of mercury by the nitrous acid, is the pureft; for want of it, that obtained from iron may be used. Introduce 200 parts of nitrous air into the eudiometer; add to it 100 parts of the air to be proved, and observe the number of parts remaining after absorption. Subtract this remainder from the fum of the two airs, multiply this refult by 40, and divide the product by 109, the quotient will express the quantity of vital air contained in the 100 parts of the air examined. Make a memorandum of the height of the barometer and thermometer.

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PRELIMINARY INSTRUCTIONS.

SPECIFIC GRAVITY OF THE AIR.

The navigators must have a globe of glass fitted to their air pump, which they can exhauft and fill at pleasure. By weighing this globe full and empty, the fpecific gravity of air, in different latitudes, will During each experiment the be thus obtained. height of the barometer and thermometer must be accurately observed, and the operator provided with a very exact balance, capable of afcertaining the gravity with cafe, to the precision of half a grain.

EXAMINATION OF WATER.

They are referred to the experiments of the Abbé Chappe, and the refults of them published by M. de Caffini. These may affist them in determining, upon a fingle voyage, the degree of faltness of alnost every sea. They only need, for this purpose, very accurate hydrometer; which may likewife be mployed for determining the specific gravity of the ater of lakes, rivers, and fprings; and by joining b these some experiments made with reagents, an dea may be acquired not only of the quality, but kewife of the quantity of falts contained in those vaters. When a particular water shall appear to refent any thing interesting, a part of it may be vaporated, and the refiduum put up, carefully laelled, to be more closely examined at the end of he voyage.

VOL. I.

QUESTIONS

SPECIFIC

XCVIII PRELIMINARY INSTRUCTIONS.

QUESTIONS

Proposed by the Medical Society to the Gentlemen why are to accompany M. de la Pérouse, read in the Sitting of May 31, 1785.

As these questions are numerous, they are exhibited under titles which form so many heads of medical refearch.

I. ANATOMY, PHYSIOLOGY.

Structure of the Human Body, and Functions of its Organs.

THE descriptions of most travellers, on this subject, are known to be exaggerated and erroneous; but more exactness is expected from the scientific persons who accompany M. de la Pérouse, and they are requested to observe the following objects with peculiar attention:

1. The ordinary ftructure of both fexes; the great and imall diameter of the head; the length of the upper and lower extremities, meafured from the elbow to the tip of the middle finger, of the thigh to the extremity of the great or fecond toe; the circumference of the pelvis; the breadth of the cheft, of the fhoulders; the height of the vertebral column, from the first vertebre of the neck to the facrum.

2. The form, the colour of the fkin, and its different regions; as alfo of the hair and nails.

3. The particular form of the fcull; that of the face, particularly of the forehead, of the nofe, eyes, ears, mouth, chin, teeth, tongue, the hair of the head and of the beard. These parts of the body islanders are accustomed to deform in various ways. 4: Procure an exact description of the process

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and the fubftances employed in making indelible marks on the fkin, and all other circumftances relative to fuch disfigurations.

5. The defect, excefs, or different conformation of various parts of the body; are thefe the uniform production of natural organization, or the effect of certain particular practices? Are there ambidexters, or is the right-hand universally pre-eminent?

6. The comparative firength of the men, capability of bearing buthens; of walking, running, as to time, and fpace.

7. The feates of feeing, hearing, fmelling. Does the acuteness of one fease impair that of any other?

8. The voice, diffinctness of articulation, the mode of expression joy, pleasure, forrow.

9. The age of puberty in both fexes, the menfirual flux, pregnancy, child bearing, fuckling, proportion of males and females.

10. Proportion of deaths before the age of puberty: the medium length of human life in different climates.

11. Frequency or flowness of the pulse, which is in Europe from 05 to 70 in a minute.

12. The affinity between the colour of the fkin and that of the humours.

13. Are there men with milk in their breafts? What is to be faid of the hermaphrodites of Louifiana? Is the fexual inclination periodical among favages?

II. HEALTH.

Of the Air, Water, Food, Habitations, Clothing, Exercife, Paffions.

1. Air in different places to be tried by the eudiometer; higheft and loweft temperature in the fun and in the fhade, drynefs, humidity, gravity, elafticity, electric ftate; division of feasons; prevailing g 2 winds,

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unctions of its

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th fexes; the the length of fured from the of the thigh to toe; the cirh of the cheft, e vertebral coneck to the fa-

kin, and its difnd nails.

ill; that of the f the nofc, eyes, the hair of the rts of the body in various ways. of the proces, and xcix

winds, their variations; the nature of the metcors, fnow, hail, rain, thunder, hurricanes, water-fpouts; corruption by vapours or emanations.

2. Examination of fea-water at various depths and diffances from land; frefh and brackifh water, the nature of falt contained; what fort the natives drink, mineral waters, cold and hot; made drinks, fiweet or fermented; their mode and materials of preparation, the fubfances of which they are composed, their effect, particularly the kava deferibed by Anderfon.

3. Aliments. Vegetable or animal food, or both ? Seafoning, cookery, times of eating, quantity ? Do they use falt ? The refemblance which their roots, fruits, &c. have to our pot-herbs ? Their farinaceous plants, the fern of New Zealand, fugary fubstances ?

4. Habitations, their form, extent, openings, exposure, of what foil, of what materials, what thelter they afford, drynes, humidity? Do the natives refort thither during the night, the whole year round, or occasionally? What numbers to one house? On what do they fleep? Are there tribes who always live in the air? Their clothing, form, materials, varieties?

5. Employments of both fexes, labour, exercife, how far conducive or injurious to health ?

6. Paffions, manners, leading character? Practices favourable to the fecretion of humours, chewing tobacco, betel, &c. finoking, frictions, unctions, bathings, with their effects, particularly that of tattooing ?

III. DISEASES.

1. Are there are any acute difeafes or fevers among those islanders? What eruptive diforders? Does the small-pox exist? What is its progress, its ravages? Is inoculation practifed? Is the small-pox any where endemical? What other contagious or epidemical

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bd, or both ? antity ? Do n their roots, eir farinacefugary fub-

penings, ex-, what fhelter ie natives re-; year round, houfe ? On ho always live tterials, varie-

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r fevers among orders? Does ogrefs, its rathe fmall-pox contagious or epidemical epidemical difeafes? Have they been vifited with the plague? Are children fubject to the tetanus and the croup?

2. To what are we to afcribe the frequency of tetters and ulcers in fome of those islands? To oily unctions or the flinging of infects? Do these breed in them frequently, as in the ulcers of hot climates? Are the ulcers which corrode the face cancerous? Are they fubject to the leprofy, the loufy diffemper, and the dracunculus?

3. Does the venereal difeafe exift among them ? Does it appear to be natural, or to have been imported? The mode of cure? In what flate is it in the Friendly or Society Iflands? The fymptoms? Is it true that the gonorrhea is unknown among those iflanders?

4. Is the feury endemical in any particular latitude? What its fymptoms and ravages in hot or cold climates? What its cure?

5. Are the rickets known in those countries? Do nervous, convulsive, spasmodic, but especially epileptic diforders exist among them? Are children subject to any illnes, particularly convulsions, while they are teething?

6. Are there any perfons, male or female, particularly charged with tending the fick? What remedies or proceffes do they employ? Are there hofpitals, or do they feelude patients of certain claffes from fociety?

IV. MATERIA MEDICA.

The navigators will inveftigate the virtue of the plants whole favour and other phyfical properties may communicate to them any medical information. The following articles are fubmitted to their confideration :

1. Examine the tafte, the finell, of the roots, woods, barks, leaves, flowers, fruits, and feeds of the

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vegetable

vegetables of countries imperfectly known, and compare them with the different vegetable fubfiances uted as medicines in Europe, and make the fame experiments on the faps of trees, as well as on animal fubfiances.

2. Obferve the remedies used in warm countries to counteract peculiar diforders, and even describe the superstitious processes which are frequently the only medicine of barbarous nations.

3. Try the decoclions of fome of the emollient, aromatic, acrid plants, on cutaneous diforders.

4. Employ mercury in friction in venercal cafes, and affift the iflanders in delivering themfelves from this terrible fcourge; above all, obferve the effects of mercury.

Difcover whether certain fudorific vegetables have not an antivenereal virtue in those islands.

6. Difeover whether there may not exift, in fome warm countries, plants analogous to the jeluit's bark, the fimarouba, the ipecacuanha, the camphor, the opium, &c, and whether the iflands produce emetic or purgative plants which might be turned to good account.

7. Procure information, and make obfervations on the properties of the anacardium, which is faid to be a cure for infanity; on the virtues of the *telephium* and of the granum marinum, which the Greenlanders prefer to the cochlearia as an antifeorbutic; on Winter's bark, the root of Belaage, of Columbo, and that of Juan Lopez.

8. What nations use poisoned arrows, what fubftances they employ for this purpose, what antidotes to counteract their deleterious action, and, above all, whether falt and fugar possibles this quality?

9. Examine the animals, particularly ferpents and venomous fifnes, and diffeover the caufe of this dangerous property in these last, and the means of prevention.

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10. Collect carefully the remedies, internal and external, which are applied as fpecifics, the mode of preparation, of application, the dofes, the effects, and the period of the difease at which they are administered.

11. Put up in a scparate herbal the plants or parts of plants which are used as food, medicine, or poison.

CHIRURGERY.

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1. Are diflocations, fractures, ruptures, and chirurgical maladies, in general, common among people who live in a flate of nature ?

2. What means do they employ for curing those diforders ?

3. Have they particular inftruments? What is their form, of what materials, how used? Buy some, and make a collection.

4. Are circumcifion and infibulation practifed ? How is the operation performed ?

5. Are there any perfons, male or female, particularly entrufted with the treatment of fuch and fuch a chirurgical cafe, as of the eyes, ears, teeth, fkin, child bearing ?

6. What is the form and nature of their warlike inftruments, that of the wounds they inflict, the mode of treatment and cure ?

(Signed)

MAUDUYT, VIC-D'AZYR, DE FOURCROY, and THOURET.

At the Louvre, 31ft May, 1789.

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SKETCH

Of Experiments to be made for preferving Water on Ship-board from Corruption, communicated by the Abbé Teffier, of the Academy of Sciences, and of the Medical Society.

TWENTY cafks of equal fize are to be felected on the voyage, fimilar to those which contain the rest of the fresh water; they are to be of the same wood, and hooped as the others, showed in the same part of the ship, and without any particular precaution.

1ft Experiment. The water with which two of the cafks are to be filled, muft firft be boiled for half an hour. There are no infects' eggs which can ftand this degree of heat without perifhing. Mark the cafks No. 1. E. B, No. 2. E. B. the initials of *eau bouillie*, boiled water.

2d Experiment. Let the infide of other two be impregnated with quick lime diffolved in boiling water, repeating the operation twice or thrice; for this purpofe a bruth muft be ufed, and ftrongly applied to the ftaves and feams, that the lime water may penetrate the deeper. It is plain that one of the ends muft be out when this is doing, and the infide of it muft be likewife impregnated before it is replaced. These two are to be filled with water which has not boiled, and marked No. 1. E. C. S. No. 2. E. C. S. the initials of *eau chaulée fimplement*, water limed fimply.

3d Experiment. This is to combine the two preceding, by filling the two cafks, impregnated as before, with boiled water; let the one be marked No. 1. E. B. C. the other No. 2, E. B. C. the initials of eau bouillie, chaulée, boiled water, limed.

4th Experiment. To two cafks of water, boiled and limed as before, add four ounces of the ipirit of vitriol for every 250 pints of water, Paris measure, marked

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marked No. 1. No. 2. E. B. C. V. the initials of ease bouillie, chaulée, vitriolisée, boiled water, limed, vitriolated.

5th Experiment. Fill two other cafks with fresh water neither boiled nor limed, and add the vitriol in the above proportions, and mark them No. 1. No. 2. E. S. V. the initials of *eau fimple*, vitriolisée, plain water, vitriolated.

6th Experiment. To two cafks of boiled water add the vitriol as before, and mark them No. 1. No. 2. E. B. V. the initials of *eau bouillie*, vitriolisée, boiled water, vitriolated.

7th Experiment. Let two cafks be tarred over on the outfide, and filled with boiled water without any internal impregnation, and mark No. 1. No. 2. E. B. G. E. the initials of *eau bouillie*, goudronnée exterieursment, boiled water, tarred externally.

8th Experiment. Impregnate with lime internally, as in the 2d, 3d, and 4th experiments, two cafks of boiled water, and likewife tar them on the outfide. Mark them No. 1. No. 2. E. B. C. G. the initials of can bouillie, chaulée, goudronnée, boiled water, limed, tarred.

9th Experiment. Let two be tarred fimply on the outfide, and filled with plain water which has not boiled, marked No. 1. No. 2. E. S. G. E. the initials of *eau fimple*, goudronnée exterieurement, plain water, tarred externally.

10th Experiment. Fill two with plain water, without any preparation whatever, external or internal, of either the water or the cafks. This experiment is an object of comparison with all the others.

The water is not to be boiled till the cafks are quite ready, and they muft be filled immediately, left other infects (hould deposit their eggs in it; and it is obvious that all the experiment cafks (hould be clofely bunged up. When, from the heat, the reft of the water on board begins to corrupt, each of the experiment

ng Water on cated by the es, and of the

be felected on in the reft of fame wood, fame part of caution.

ich two of the ed for half an can ftand this ark the cafks of *eau bouillie*,

other two be in boiling wahrice; for this agly applied to iter may penethe ends muft fide of it muft placed. These has not boiled, C. S. the initials fimply.

ne the two preregnated as bebe marked No. the initials of ed.

f water, boiled of the ipirit of Paris measure, marked

riment cafks ought to be examined at the fame time, and their tafte, fmell and transparency observed; the gravity must be tried by the hydroftatical balance, and the temperature, by introducing the thermometer into the cafk; in an equal quantity of each fort, an equal quantity of dry pulle; fuch as had been used before failing, must be boiled; finally, an equal quantity of the foap formerly employed, must be diffolved in equal quantities of the feveral waters.

Carefully remark if infects are forming in them, of what fpecies, trace their metamorpholes, preferve fome of them in fpirits to be brought home. If the neceffities of the thip's company permit, the remaining cafks of the ten experiments ought not to be touched before arriving in a different elimate, and full in a latitude where common water will corrupt; in this cafe, let them be examined as before.

An exact account muft be kept of every thing done and observed in the experiments, to be figned by M. de la Pérouse, his officers, and the naturalists on board. It is to be wished that each of the ships should repeat the experiments at the same time. Double observations will confirm each other, and carry the fact up to demonstration. The experiment water will be as good as any other, and so no room will be uselessly occupied.

M. de la Péroufe is requefied to fign two copies of this fketch, together with the author of it, each of the parties to keep one, as a testimony of the engagement he enters into with the public, to fuperintend experiments which may tend greatly to promote the comfort of navigators.

At Rambouillet, May 19th, 1785.

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(Signed) TESSIER.

LA PÉROUSE.

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TESSIER. LA PEROUSE.

MEMOIR

To direct the Gardener in the Labours of his Voyage round the World; by M. Thouin, first Botanical Gardener.

The object which this branch of the expedition has in view is two-fold; to fend to the inhabitants of newly difcovered countries the vegetable productions of Europe which may be useful to them ; and to receive from them in return fuch of their productions as are calculated to enrich Europe. This memoir is accordingly divided into two parts corresponding to this double object of mutual benefit.

PART FIRST.

Choice, Nature and Culture of the Vegetables to be transported from France.

Nutritious plants deferve the preference; the hoice. therefore, must be made among our legumious plants, and most valuable trees. Such as need to preparation in order to be used as food, must have he first rank; and those which need only to be oafted to become eatable must occupy the fecond. To these limits we ought to restrict the presents which we mean to make to a race of men who, deftitute of veffels proper for boiling, could make no use of vegetables that require this mode of cookery. Plants of eafy culture ought to have the preference.

No feeds to be put up but of laft year's growth, perfectly matured and found. Some need only to be kept from air and moifture, others must be laid in earth or fand, to preferve their germinative power. The gardener is directed to mark and label every parcel, and arrange the whole conformably to a written catalogue. On arriving at a place where he propofes to fow, he must examine the temperature of the climate, and obferve whether the native plants, particularly

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particularly annuals, are in a flate of growth, maturity, or decay. This will direct his choice of the proper feed, and afpect. The time of the year muft be carefully attended to, as well as the nature of the foil. Let him try to engage the natives to affift in the labours of the field. Befides more regular culture, every time he walks abroad he ought to be provided with an affortment of feeds, to be feattered about occafionally where they are likely to fpring. He muft keep a regular journal of all his operations and their refults, which will furnifh points of comparifon towards perfecting the art.

Particular directions are then given respecting the packing and carriage of growing plants, both by land and water.

PART SECOND.

Of the gathering of Vegetables that may be useful to Europe, and of their Preservation on the Voyage.

The collection must confist of 1. Seeds : 2. Bulbs and flefhy roots of vivacious plants : 3. Slips of valuable trees, the feeds of which cannot be procured. Seeds to be gathered when a choice is to be had, and in a flate of perfect maturity ; but in cafe of a fhort ftay, they must be taken on the plant though immature, and all means employed to ripen them on the paffage; and every chance taken of procuring a precious vegetable to Europe. Attention must be paid to the manner of putting up even perfectly ripe Those which grow in husks, pods and capfeeds. fules, must remain in their envelopes, and these tied up to prevent their opening; the fame care must be taken of cones, and in general of all dry fruits. Small feeds growing in ears, clufters, panicles, mult be picked entire with flalks of five or fix inches long, and all communication between the germ and the air prevented : they must be carefully cleared of all infects and their eggs. Samples of every fpecies of plant,

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efpecting the both by land

ay be usesful to the Voyage.

eds : 2. Bulbs 3. Slips of vat be procured. to be had, and cafe of a fhort though imman them on the ocuring a pren must be paid perfectly ripe pods and capand these tied e care must be all dry fruits. panicles, muft ix inches long, germ and the cleared of all every fpecies of plant, plant, and its refpective feed to be marked and numbered. Naked feeds of the fize of a hazel-nut or upward, require a different preparation. They must be left exposed to a free air for fome time, to fweat off the fuperfluous moisture, and perfect their maturity. When packed up they must be deposited in fuch parts of the ship as are least exposed to variations of the atmosphere, and equally fecured against exceflive dryness and humidity.

It cannot be doubted that the trees and plants which may be used as food are of the first importance, fuch as the fern whole root ferves as aliment to the inhabitants of New Zealand : those useful in the arts will occupy the fecond place ; fuch as are ornamental to our gardens, the third; and the fourth will comprehend those which are only proper for a botanical collection. The quantity gathered fhould be in proportion to the climate of the country. Where the temperature is analagous to that of Europe, there can be no rifk in taking a great deal : in hotter climates lefs will ferve, as the feeds need hotbeds and frames to raife them, only a few can be preferved; unlefs it were an object to propagate them in our East or West India settlements. Colleft more in the last periods of the voyage than in the Forward, as opportunity prefents, collections firft. already made, with proper information.

Directions follow respecting the mode of packing and conveyance, and of culture during the voyage; and a list of necessaries to the gardener in the discharge of his office.

A Lift of Seeds to be packed up for the Expedition.

FIRST DIVISION.

Substances which need no preparation to become food.

FRUITS

FRUITS OF TREES.

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Seeds of apples, pears, grapes, goofeberries. Stones of peaches, apricots, plums, cherries. Almonds. Nuts.

FRUITS OF HERBS.

Seeds of melons, of different kinds; artichokes, white and violet; Guinea pepper.

LEGUMINOUS PLANTS.

Seeds of celery of all varieties; chervil, creffes, parfley, purflain, golden; forrel, lettuce, cabbage and coos; finall lettuce for cutting; wild fuccory.

ROOTS.

Onions white and red, turneps of various forts, radifhes, garlic, fhalot.

SECOND DIVISION.

Substances that need no preparation, but roasting, to become food.

ROOTS.

Potatoes, carrots of all varieties, chiroui, parfnips, falfify, Spanish and white; bect-root, red, white and yellow.

FARINACEOUS SEEDS.

Wheat of different fpecies, maize of all varieties, buck wheat, or black corn; Piedmontefe rice, barley of different forts, oats of every variety, ryc.

THIRD DIVISION.

Productions not eatable till boiled, and therefore proper only for nations provided with veffels fit for this fpecies of cookery.

Peas of all forts, kidncy-beans of all forts, gardenbeans of every variety, lentiles, the large fpecies; chick-peas, white and red; lupines, vetches, white and black; fenugreek, white-muftard, egg-plant, cabbage,

CX

cabbage, white and red; pompion and mufhroomcucumber, gourd, calabath, orach, chard-beet, tobacco.

Vegetables to be transported in their natural State.

FRUITING TREES AND SHRUBS.

Apple-tree, red calville, white, rennet, d'api; Englifh beurré pear-tree, bon chrétien, craffane, St. Germain; vine, golden chaffèlas, muſcadine, raifin de Corinthe; peach, groffe mignonne; nectarine, plum, reine-claude, mirabelle, large damafcene of Tours; apricot, common, peach; fig, white angelique, violet; cherry, Moutmorenci, blackheart, white-heart; olive, native; Portugal quince, black mulberry, garden cheſtnut, walnut, thin-fhelled; almond, thin-fhelled; Maltefe raſpberry.

LEGUMINOUS PLANTS.

Potatoes of every variety, Jerufalem artichoke, garlic, fhalot.

Weft-India fweet-potatoe and yam to be taken in at the Cape de Verd iflands, at the Cape of Good Hope, or in North America.

SHRUBS FOR PLEASURE.

Rofe, hundred-leaved ; lilach, tuberofe.

INVENTORY

Of Goods and Merchandize to be given in Prefents or Barter.

These confist of all forts of iron, copper and lead ware; clothes, fifthing-nets and hooks, mirrors, glass, crockery, trinkets, coins, jewellery, fluffs, woollen, linen, filk, tape, cordage, paper, &c. &c., to the amount of 58,365 livres. The articles contained in M. Thouin's inventory, 2,330 livres. Infiruments

erries.

artichokes,

crvil, creffes, ce, cabbage ld fuccory.

arious forts,

but roafting,

oui, parfnips, ed, white and

f all varieties, fe rice, barley rye.

and therefore veficies fit for

forts, gardenlarge fpecies; vetches, white d, egg-plant, cabbag^e, cxi

CIII

fruments of astronomy, navigation, physics, &c. and books purchased in France, 17,034 livres. Articles purchased in England, about 6000 livres. Befides these, effence of spruce, malt, and other antifcorbutics, to the value of 30,000 livres. The total extraordinary expense for the expedition about 150,000 livres, 62501. Sterling, exclusive of the table of the selentific gentlemen and artists.

This is followed by a lift of aftronomical and other inffruments for the use of the navigators, and a catalogue of books of voyages, of aftronomy, navigation, physics, natural history, and others, and the preliminary matter concludes with a

LIST OF THE NAMES

Of the Officers, Scientific men, Artifts, and Seamen, embarked on Board of the Frigates la Bouffole and PAftrolabe, July, 1785.

LA BOUSSOLE.

M. de la Pérouse, Post-captain, Commander in Chief, employed as Chef de Division, and made Chef d'Escadre, November 2d, 1786.

LIEUTENANTS.

De Clonard, made Post. D'Escures.

ENSIGNS.

Boutin, made lieutenant, May 1st, 1786, and Major, April 14th, 1758.

De Pierrevert.

Colinet, made sous-lieutenant de vaisseau, May 111, 1786.

MARINE GUARDS.

Mel de Saint Ceran, put ashore at Manilla, April 16th, 1787.

De Montarnal.

VOLUNTEERS.

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hyfics, &c. livres. Arlivres. Bcl other anti-The total cxout 150,000 table of the

cal and other is, and a caomy, naviga-, and the prc-

d Seamen, em-Bouffole and

ommander in nd made Chef

786, and Ma-

vaisseau, May

Manilla, April

VOLUNTEERS.

PRELIMINARY INSTRUCTIONS.

VOLUNTEERS.

De Roux Darbaud, and Frederic Broudou, both promoted on the voyage.

ENGINEERS, SCIENTIFIC MEN, AND ARTISTS.

De Monneron, Enginner in Chief. Bernizet, Geographical Engineer. Rollin, Surgeon-major.

Lepaute Dagelet, Professor of the Military School, Astronomer.

De Lamanon, Natural Philosopher, Mineralogist, Meteorologist.

L'Abbé Mongès, Naturalift, and Almoner.

Duché de Vancy, Draughtiman of Figures and Landicapes.

Prevost le Jeune, Botanical Draughtsman. Colignon, Botanic Gardener.

Guery, Clockmaker.

Warrant Officers		-		•	O)
Gunners and Fufileer	S		-	-	8
Carpenters, Caulkers,	and	Sai	il-ma	kers	10
Topmen, Steersmen, a				-	38
Quarter Gunners	-		-	-	12
Supernumeraries		-		-	9
Domeftics .	•		-	-	7
Supplementary	-		-	-	7

L'ASTROLABE.

M. de Langle, Commander. De Monti, Lieutenant.

ENSIGNS.

Freton de Vaujuas. Daigrement. De la Borde Marchainville. Blondella. Vol. I. h

MARINE

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MARINE GUARDS.

De la Borde Boutervilliers. Law de Laurifton. Raxi de Flaffan.

SCIENTIFIC MEN AND ARTISTS.

Monge, Professor of the Military School, Astronomer.

De la Martiniere, Doctor of Medicine, Botanist. Dufresne, Naturalist.

Le Perc Receveur, Naturalist and Almoner.

Prevoft, Botanical Draughtiman.

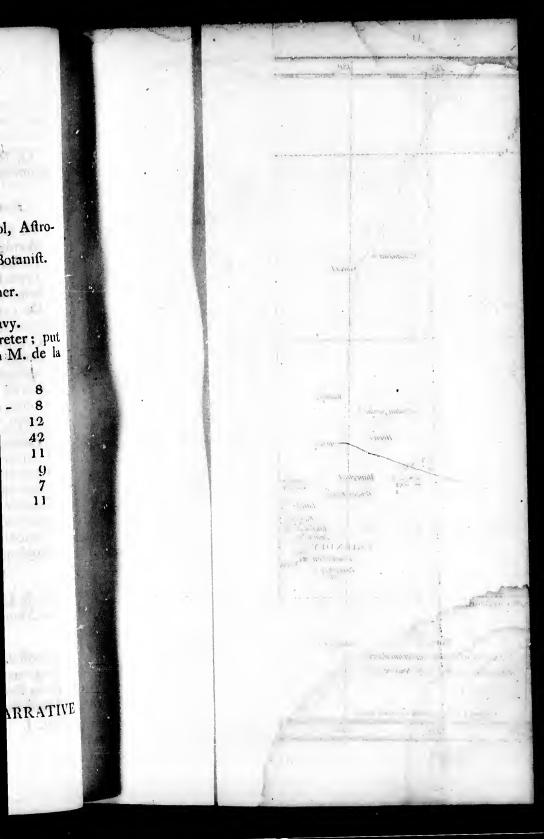
Lavaux, Surgeon in Ordinary of the Navy.

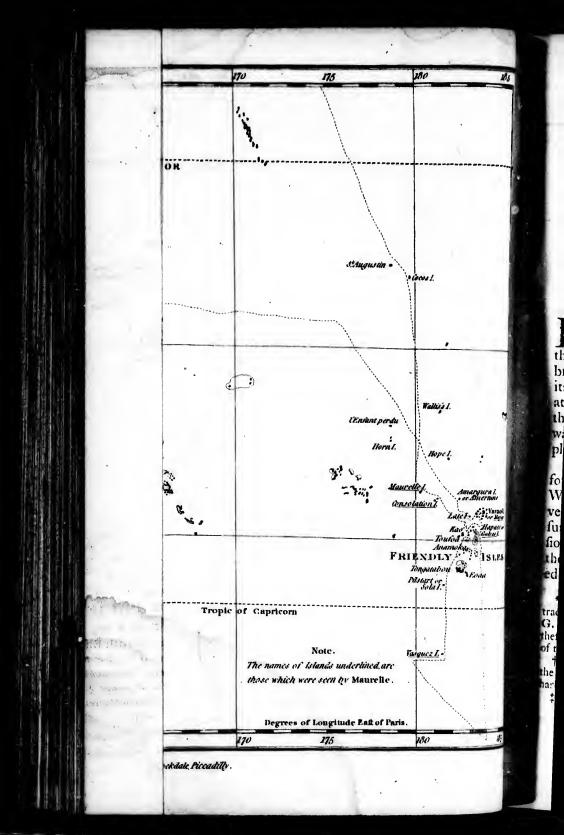
Lessen, Vice-conful of Russia, Interpreter; put ashore at Kamtschatka, and intrusted with M. de la Pérouse's dispatches to Paris.

Warrant Officers	-	1 - 1	•	8
Gunners -		-	-	8
Carpenters, Caulkers,			1	12
Topmen, Steerfmen, a	nd Sailors			42
Quarter Gunners		-		11
Supernumeraries,	·		-	9
Domefics -				7
Supplementaries	-		-	11

NARRATIVE

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NARRATIVE*

OF AN

INTERESTING VOYAGE

FROM

MANILLA TO SAINT BLAISE, +

In 1780 and 1781.

0-16-00

MMEDIATELY upon my arrival at Manilla, the commander of the frigate that carried me thither difembarked the maritime forces which he brought, flationed them at the port of Cavita ‡ for its defence, and appointed me major of the troops: at the fame time defiring that I would take a plan of the harbour and its environs. The object of this was to fix on the most advantageous fituation for placing the force to oppose the defcent of an enemy.

The governor fitted out the frigate La Princessa for an expedition which he thought to keep secret. When the frigate was ready to fail, I received orders, very unexpectedly, to take the command of it. The surprise which this unlooked-for appointment occafioned me, my entire ignorance as to the object of the expedition, the fear of seeing my mission thwarted by the necessity of some engagement, were to my

* The Spanish originals of this narrative, and the following extract, were tent by La Pérouse; the translation is the work of A. G. Pingré, and the corresponding chart composed according to these accounts; and the ancient journals is by Buanche, member of the national inflitute.—French Editor.

† It is well known that Manilla, in the Island of Luconia, is the capital of the Philippine Isles. Saint-Blaife, or Saint-Blas, is a harbour on the western coast of Mexico.

‡ Cavita is three leagues from Manilla.

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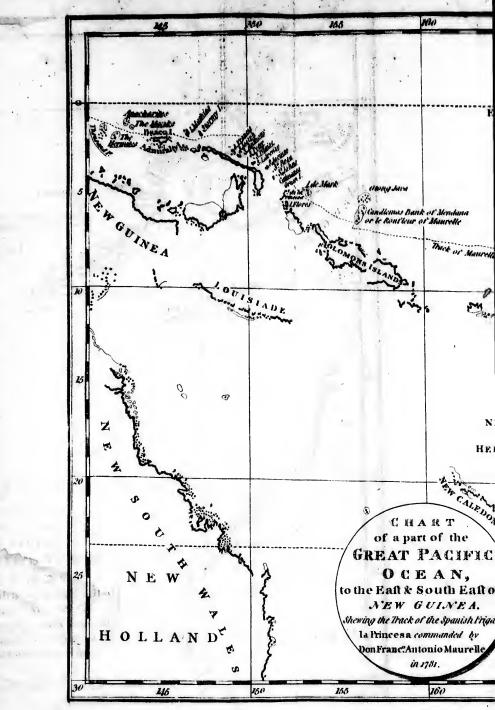
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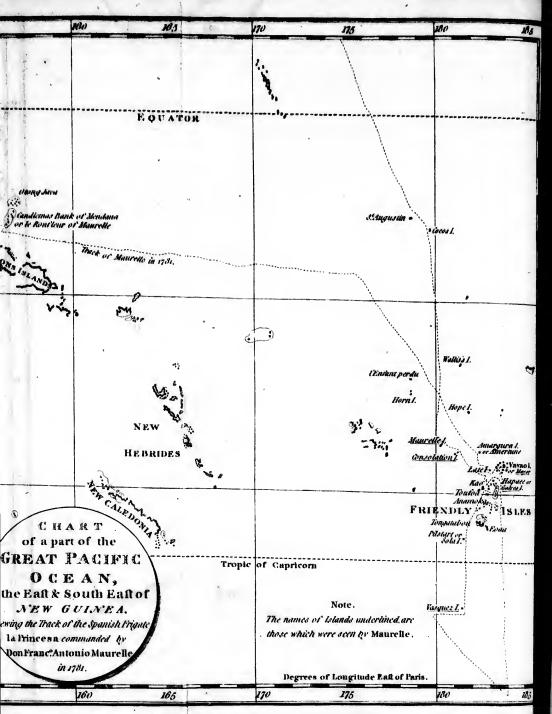
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London Published , ... Iugust 27.1



London Published , . Inquist 27. 1708, by I. Suckdale Piccadilly .

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mind the fource of a thousand anxieties : but the governor reprefented to me that this commission would do me as much the greater honour as the object was more interesting; that should the enemy think of feeking me, which he would not be backward in doing, the expertness and activity of my manœuvres would be a proof of my ability; and that, in fhort, the fuccefs of my expedition would be of material advantage to our Sovereign. These expressions were fo powerful an incitement, that I confidered myfelf particularly honoured by the governor's having chofen me for this expedition, in fuch critical circumftances. I accepted the command, and failed the 24th of August, after receiving from government a fealed packet, containing inftructions and orders for my observance, and the port whither I was defired This packet I was not to open till first to repair. twelve leagues diftant from Cavita.

The 25th, being at the diffance prefcribed, I opened the packet. I was enjoined to make the port of Sifiran*, there to wait the final orders of government, always keeping on the watch to repel the attacks of the enemy, who without doubt would endeavour to intercept me, fhould they come to blockade Manilla.

The winds fell, and becoming contrary, were against my getting clear of the ifles. 1 in confequence bore up constantly on different tacks, making every poffible effort to gain the weather gage; but I could not overcome the current, which forcibly put me back, running from the point of Escarfea 7, which it was out of my power to double. I was then under the necessfity of coming to anchor, at ten o'clock in

* Siliran is a harbour on the eaftern coast of Luconia, almost directly opposite to Manilla, being but 16 min. more southerly than that city.

† This point, the port of Las Galeras, the Ifles Tiaco, and St. Bernard, are fituated in the channel or firait which divides Luconia from the other Philippine iflands.

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the morning, near this point opposite Galeras Bay, in 25 fathoms, and a fandy bottom.

At half past three on the morning of the 30th the wind changed to the weft, but it was fo violent that I drove from my anchors. I wanted to put to fea, but the current prevented me, and even drifted me towards the port. I was in ten fathoms water, and let go an anchor that was the sport of the current and winds, which freshened more and more, so that I foon found myself in only five fathoms water. I let go a fecond, and by the affiftance of the fheet anchor, which I caft with great velocity, I got further from thore, from whence I was only about the thip's length diftant; and though still detained within the point of Alagalican, which forms the port of Galeras, I could neverthelefs get under way, but it was by leaving an anchor, fheet anchor, two cables, and a fheet cable fast in the rocks*. At nine o'clock in the morning I doubled the point, and although the wind abated in getting to the third quarter +, I neverthelefs, by a prefs of fail, fucceeded in coming to anchor at eight o'clock in the evening of the 31ft, under shelter of the Island of Tiaco, to quit it again on the morrow.

I again put to fea on the 1ft September, and at four o'clock in the evening found myfelf a quarter of a league to the north of St. Bernard. Thence I shaped my course for passing between the Cantaduanes \ddagger and Luconia: as this route must bring me to the narrowest passage between the breakers and this

* I have much abridged this, as well becaufe the detail would be ufelefs and tirefome, as becaufe there are fome paffages which I do not comprehend, either through my own want of knowledge, which however I do not believe, or through the fault of the copier, who may have mutilated the original.

[†] The Spaniards divide the horizon into four quarters: the first extending from north to east, the fecond from east to fouth, the third from fouth to west, and the fourth from west to north.

[‡] This ifland is opposite to the most fouth-easterly part of Luconia; its fouthern point is almost parallel with Sistiran.

the gowould ect was hink of d in donœuvres n fhort, material ons were d myself ing chocircumailed the rnment a orders for s defired open till

d, I openhe port of vernment, attacks of leavour to kade Ma-

ere againft nence bore every pofut I could ly put me , which it hen under o'clock in

iconia, almost foutherly than

Tiaco, and St. divides Luco-

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island, I at ten o'clock brought to, and found myfelf at day-break of the 2d, distant ten leagues from Cantaduanes. I fet every fail, and at half past eleven had reached its most north-western point, and passed at a very short distance from the last islots in the vicinity of that point. Thence I steered W. S. W., and to W., keeping close to the wind to gain Sissiran, which port I neared at fix o'clock in the evening.

I ftood off and on all night, and the following day, 3d, came to anchor at two o'clock in the afternoon, and moored the frigate in the beft poffible manner, in expectation of the laft orders which were to be fent. As foon as I arrived I employed myfelf in exercifing the men in every thing which might be of fervice for our defence, in cafe we fhould be attacked, and had it occurred, all were fufficiently accuftomed to the ufe of arms. I alfo wrote to the governor, informing him of my arrival at Sifiran, and requefting his final orders.

Sifiran is fituated in the vicinity of very high mountains, which render the air extremely damp. From thence likewife arife the continual hurricanes I experienced during my ftay there. The perpetual damp occasioned difeases among my crew, of which I loft one failor.

We were thirty or thirty-five leagues from the neareft inhabited parts; and to have a communication with them it were neceffary to climb fteep mountains, inhabited by favages, which rendered this communication extremely difficult. It was not, in confequence, without the greateft trouble that I fucceeded in procuring fome of the refreshments which I thought would be of fervice to us in the courfe of fo long a campaign.

To replace the two cables and fheet cable I had loft, I requefted the alcade, or commander of this province, to get me new ones made, which he did, and

and asked the b rifdid Or and p patch verno expec New the p molt depar till th To veffel then b anne'l could felf as new, Thoug fimilar fteered the fan conclu attemp I ha cution my exp welfare in fura abfolut take. Britain infinity to be fo Μ.

and fent them as foon as finished. I in like manner asked for some anchors, but there was not one to the best of his knowledge throughout his whole jurisdiction.

On the 10th November an officer came on board and put into my hands a great box, containing difpatches respecting his Majesty's fervice. The governor-general ordered me to fend, with the utmost expedition, this box to his excellency the viceroy of New Spain, and to that effect, to make fail towards the port of St. Blaife, or Acapulco, as I should judge most expedient. 1 immediately got ready for my departure; but two successive tempests delayed me till the 21st.

To fail from the Philippines to New Spain, the veffel muft leave in June, the wefterly winds which then blow, carrying the fhips to the eaft of the Marianne Iflands: at any other time a fuccefsful voyage could not be hoped for. I therefore confidered my felf as on the eve of undertaking a voyage abfolutely new, on tracks of fea, till then, almoft unknown. Though a navigator might even have taken a courfe fimilar to mine, had he the fame winds? Had he fteered the fame points? Had he gone through the fame parallels or meridians? I might therefore conclude the courfe I took had never been before attempted by any navigator.

I had nothing more at heart than the faithful execution of the orders entrufted to me, and to render my expedition uleful to his Majefty's fervice, and the welfare of his fubjects. This fentiment animated me in furmounting my apprehensions with respect to the absolute ignorance I was in as to the course I was to take. My knowledge went no further than New Britain; and even in that run I might meet with an infinity of islands, of which not the least veftige was to be found on the marine charts.

M, de Bougainville, who failed from the east of h 4 New

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New Guinea to the Cape of Good Hope in the fame ifland, gives the polition of only two fmall ifles, which he called the Anchorèts, and a group of other flat infignificant ifles, which he termed Mille Ifles* (Thoufand Iflands). He has doubtlefs placed them in their proper latitude : but befides thefe, not a day paffed without difcovering others on all fides, of which any one may eafily be convinced by looking over my chart. The only choice left me, and which I took from the first moment of my expedition, was to employ the most fcrupulous attention, and exercise the most unceasing vigilance during the whole course of our navigation, to acquit myself with honour of the commission with which I was charged in spite of the continual risks I had to encounter.

Though I had quitted a port from whence I could have been fupplied with every thing neceffary for fo long a voyage, I at the fame time was thereby spared much diffrefs. My ship's crew were attacked by difeate more or lefs acute : the provisions, precifely fufficient for fix months, were for the most part fly-blown and putrified; the water, limited to feventy pipes and forty barrels, without regarding the wafte, was a fupply very infufficient for a voyage of fuch a length, and the cordage was fuch that it broke the first time it was used. I defired from the alcade fome tar, of which we were absolutely in want, but there being none in the province, I supplied its place with pitch. Though all these reasons left me almost defitute of hope, my zeal for the King's fervice fuffered no abatement; and I prepared myfelf to undergo all the calamities with which the nature of our provisions and the state of the rigging threatened me.

• Bougainville did not give this group the name of Mille Isles, but l'Echlquier.

Departure

Depar 14⁰ in (Ber

II breez ing ft differe Island latitu then on the a qua that t weft, **N.** N In winds failed lent under gettin voyag Th I fou from moit tance 130 2 east d W third eaftw * F

tion of this le

Departure from Sisiran, on the eastern coast of Luconia. 14° 20' N. lat. 126° 34' west of St. Lucas, or Lucar, in California, 121° 20' east of Paris, 20' west of St. Bernard, in the Mouth of the Strait.

I PUT to fea the 21ft November with flight breezes at E. N. E. and by E., which foon becoming ftrong, and being directly contrary, I ran upon different tacks, to get to the north, and clear the lifland of Cantuadanes. These winds carried me to latitude 16° 14', which I observed on the 30th. I then bore away to S. S. E., and again faw the island on the 3d December: its bearing was fouth east by a quarter fouth, distant five leagues. I concluded that the currents* had thrown me back 2° 26' to the west, notwithstanding the correction I made in my N. N. W. course.

In this polition, where I was detained by the winds, which prevented my fleering S. E., I was affailed by a heavy mountainous fea, and extremely violent winds, which frequently obliged me to lay to under the fore fail, taking every polible method of getting to windward, to enable me to continue my voyage.

The 9th December, after running on different tacks, I found myfelf again in fight of the Cantuadanes, from whence I took my final departure, the fourhernmost point bearing W. N. W. 3° welt, at the diftance of ten or twelve leagues, which made me in 13° 24' lat and 122° 26' long. east of Paris, and 46' east of St. Bernard.

We then had tolerably fair fresh breezes from the third quarter, of which I took the advantage to run eastward till the 14th, when the winds veered E. N.

* Befides the currents the lee-way had undoubled on the direction of the courfe; but it was apparently upon the calculation of this lee-way that the courfe had been corrected.

fame which at in-Thoutheir baffed by one charr. m the oft unur nacomte con-

could for fo **fpared** ed by precifeoft part to feing the age of t broke : alcade nt, but ts place : almost rice fufto une of our ned me.

Iille Isles,

Departure

E. E. .

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E: E. and E. S. E. This change obliged me to keep two points nearer the fouth. The 18th, according to one of the charts on which I had laid down my courfe, I muft have been weft of the Martyr Ifland at feven leagues diftance; and between the 20th and 21ft came upon that called the Triangle: but by another chart, I was on the 10th near the Yap Ifland, or Great Caroline, and on the 20th, off the Pelew Iflands, without having obferved either of them : but there could be no other caufe for the fhort and billowy fea which we had, than the proximity of the Carolines or New Philippine Iflands, agreeable to their fituation on the French chart.

On the 29th, croffing the line, I entered the fouthern hemisphere. The winds then came from the third and fourth quarter, fufficiently fresh, but interrupted by frequent calms, which much incommoded us, owing to the exceffive heat which they occafion. ed. I then steered in the second and first quarter, next to the east, not however losing fight of my defign to bear up rather to the fouth, and fail in with the wefterly winds, which must predominate in the higher latitudes. Steering this courfe we remarked many large trunks of trees, birds of different kinds, boobies and others called dominicos. In this fame courfe I proposed taking an observation of the Mille Ifles, the most northerly and easterly of which Bougainville places in his chart at 1° 10' fouth, and -* eaft of Paris. I accordingly met with them on the 7th January; they extended from the 28th degree of the fecond quarter to the 9th of the third +. The latitude of the most north-easterly one was precifely as laid down on the chart, but its longitude

* The longitude is wanting in the M. S. It is 139 deg. 30 min. by Bougainville's chart. As to the reft the Mille Ifles are clearly the fame as his Exchiquier.

+ Their extent muit then have been from the east 38 deg. fouth, to fouth 9 deg. weft.

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according to me 141º 12' east of Paris. I determined on coafting these islands as near as possible, and took an infinity of their bearings which, together with the way the frigate made, enabled me to determine, with the utmost precision, the position of twenty-nine of these islands that we have discovered. There are undoubtedly many others in the fouthern part, of which we could not take account. It is impossible to describe, on the chart, the extent of each, when fcarce any in the longest part is one league. They are all flat, and covered with trees; fome are furrounded by reefs which join them to the neighbouring islands. On these reefs the fea breaks, but the breakers are only perceptible at a fhort diftance. I continued to near these islands. fo that I passed the most northerly at the distance only of two miles. At feven o'clock in the evening I deferied many fires on the most eastern ones, and could not but be very much furprifed at feeing fuch finall portions of land inhabited.

Quitting thefe islands, I fleered to east, a quarter rorth-east; and on the 8th discovered to the fouth, three degrees east, distant five or fix leagues, two islots, which I named the Hermits; and in the evening of the fame day faw the Anchorets at the north and west, distant five miles: I found them precisely in the latitude given by Bougainville. We at the fame moment descried two finall islots to the east: I passed to the fouth of them at midnight, at a league distant; I called them the Monks.

Thence I bore away for the north coaft of New Britain: but on the 10th, fcarce had the day broke when I difcovered other iflands to the S. S. E.* This and the following day I ran the length of the most westerly, at a reasonable diftance. I took every pos-

* It is in the M. S. fudoefte: it fhould undoubtedly be read fudefte, or fud-fuefte, fouth-eaft, or fouth-fouth-eaft; all that follows proves that this ifland could not be weft of the frigate.

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CXXIII

CXXIV INTERESTING VOYAGE FROM

fible method by means of bearings to make myfelf acquainted with its true fituation, and am fure that its northern coaft is eleven leagues long, and without doubt proportionably wide: far beyond the plains, which extend to the fea fide, are feen many high mountains. The chart gives its perfpective. Beyond this are four other flat iflands, covered with trees, the coafts of which, rifing in fucceffion, are bold and free from reefs, and I doubt not in the channels which feparate them is good anchorage, where fhips may be fufficiently fheltered from the wind and fea.

The inhabitants of these islands, seeing me on the 11th two miles diftant from their most eastern point, came near in their canoes to the number of twelve, befides many others which did not put to fea. Curious to know the character of these islanders, I lay to: they came along fide, but would not venture on board: they earneftly requefted fome food, and preffed us to come to anchor between the ifles. We threw them fome cocoa nuts, and pieces of bifcuit, which they fcrambled for with great eagerness, and almost fought to obtain; but when they faw at the poop a net containing fome garden fluff, they used their utmost efforts to reach it with long wooden hatchets. All this was a convincing proof of the dreadful state in which they lived; and fo far from hoping for any refreshment from them, I faw they wanted it themselves more than me. I was therefore from neceffity constrained to leave them in their miferable state. I faw no difference between them and the negroes of Guinea; colour, hair, lips, eyes, every part feemed to correspond. The only arms of these people were arrows, but without bows to fhoot with. The points were armed with very clumfy flints; they had also fome fishing nets, which undoubtedly furnished them with their principal article of subfistence. Purfuing my track, on leaving this island, to which

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I gave the name of Don Joseph Basco, I discovered in the evening of the same day fix others, and named the most westerly of the two nearest the south, St. Michael, and the most easterly, Jesus Maria. Their coasts are more extensive than I should have conceived from the bearings I had an opportunity of taking; for the mountains are very high, and the distance I was at did not permit me to overlook the whole extent of the coasts.

I at the fame time coafted along two other islands at a distance of two miles. The most westerly I called St. Gabriel, and the most easterly St. Raphäel: between these and the two preceding ones were two very small islands, that of the north was called Flar, or Low Island, and the fouth Oven Island. Thence standing as before to the east, I found I was at midnight to the north of three islands, which I named the Three Kings.

On the 1 left a very finall islot at the 38th degree of 1. Chird quarter, (S. 38° W.) at fix leagues distance.

At half paft one in the afternoon of the fame day we deferied at N. E. 3° E. another ifland eight or nine leagues off. It prefented to our view a very high mountain; and fufpecting it to be Ifle Matthias, which the French chart places north of New Britain, I fteered E. N. E. to get nearer to it, and convince myfelf of its fituation. At fix o'clock in the evening the bearing of the mountain was at the 22d degree of the first quarter, (N. 22° E.) at the diftance of fix or feven leagues; and its fituation, determined by our bearings, did not leave a doubt of its being Matthias Ifland.

I continued the fame courfe to find out Stormy Island, placed on the French chart more to the east. This island certainly has its proper name. We inceffantly, during the whole night, experienced strong gusts of wind, and a high fea. Nevertheles, on the 13th,

e myfelf ure that id withond the en many fpective, red with fion, are t in the chorage, from the

ne on the rn point, f twelve, ea. Cuers, I lay venture ood, and les. We of biscuit, ness, and aw at the they used z wooden of of the far from faw they therefore their mithem and yes, every ns of these hoot with. nts; they tedly furubfiftence. , to which I gave CXXV

13th, notwithftanding the fogs and frequent fhowers which began with the break of day, we discovered at the north-west by north, at seven leagues distance, another which seemed smaller than Stormy Island, as represented on the chart; but its distance, and the circumstance of the horizon being far from clear, might have made it appear less than it in fact was. I at last judged this either to be Stormy Island, or a little one very near it.

As, according to my observations, I found the fouthern point of Matthias Island to be in latitude 1° 23', and the French chart places it 2° 10', I thought it better to give this last up, and I placed this island on my chart in the latitude I concluded it to be in from the observations I made at noon, and which I believe to be very exact*. I have corrected the latitude of Stormy Island in the fame proportion. The position of these two islands, fo close one to the other, are doubtles subject to the fame error.

On a comparison of my longitude, reckoned from Matthias Ifland 144° 20' eaft of Paris, with that of 145° 35', which is affigned it on the chart \uparrow , I found my point, according to the chart, was erroneous by 1° 15' towards the weft. Supposing the discoverers of this island to have accurately ascertained its diftance by the Cape of Good Hope of New Guinea \ddagger , I corrected the longitude of 143° 39' east of Paris, which I obtained at noon for that of 144° 54' which was the result of the longitude of Matthias Island.

* The latitude of the fouthern point of Matthias Island is 1 deg. 38 min. in Bougainville's chart.

† The longitude of the fame point is on the fame chart 145 deg. 10 min. Stormy Ifland is there reprefented double: the middle of the moft eaftern ifland is there 1 deg. 45 min. lat. and 145 deg. 37 min. long. Bougainville faw, but took no obfervation of thefe iflands.

[‡] Modern navigators would rather regulate the diffance of this ifland by Cape St. George, whofe geographical fituation is better determined than that of the Cape of Good Hope of New Guinea. I dif-

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tance of this on is better w Guinea. I difI distributed this well-timed correction over the position of the islands I before discovered. I therefore fixed my new point of departure in long. 144° 54'.

The fame day, 13th January, I came in fight of an extensive coaft; the fecond and third quarter of the horizon (throughout the whole of the fouth) was loaded with clouds, thick fogs, and tornadoes. If the weather became fine, it foon changed again, fo that it was impoffible for me to determine what land I faw. I believe it to be, however, the coaft of New Britain, as well becaufe, the following days, we continued to difcover portions of land, which could only belong to a large ifland, or continent, as becaufe that in coafting these fhores we diftinguished very high mountains, fuch as are rarely feen in finall iflands.

In the afternoon of the 14th we faw a high mountain in the fouth-weft, and a coaft of great extent from eaft to weft. There was no doubt of its being a coaft of New Britain. I could not exactly aftertain its bearing, being twelve leagues diftant. I at the fame time paffed near three other ifles, which bore from me S. by S. W., to the moft northerly of which I gave the name of St. Francis; it was two leagues and a half off; the middle one I called St. Joteph, and the third St. Anthony: the latter was diftant feven leagues and a half. After paffing them, we at midnight law a little ifland at 10° of the fecond quarter (E. 10° S.) which I named St. Peter.

We faw two iflands on the 15th; at noon they bore S. E. 8° S. at the diftance of ten leagues. The most western was termed St. Laurent: the most eastern St. Blaife.

From the 15th to the 17th the winds were light and changeable from the first to the fourth quarter : on the 17th a finall island came in view, to which I gave the appellation of St. Hyacinth; its bearing 58°

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58° of the third quarter, or W. 32° S. diftant ten leagues.

On the 18th we difcovered, eight miles off, three other iflands, one of which runs from north to fouth; the moft wefterly was named St. Rofe, the large one Refuge Ifland; and the finall one, very near the foregoing, Madalene: The fame day we faw, to the fouth-weft of Refuge Ifland, a coaft covered with very high mountains. I fuppofed myfelf twelve leagues from its fhore, in the direction of 65° of the firft and third quarter (N. 65° E. and S. 65° W.). This was the only affiftance I had in determining the pofition of this ifland.

I at first doubted whether this land were not part of New Britain: but was afterwards convinced of its being the island of St. John, represented on the French chart as a large island, and fituated in the parallel where I observed it *; the more so, as we had seen numberless little islands since that of Matthias, none of which could be taken for the island of St. John.

The 19th at fun-rife we faw two very low iflands, both of which run from N. W. to S. W. at fix leagues diftance: they were feparated on a narrow ftrait, open on the S. W., which we named Les Caimans.

At fun fet we came in fight of two islands towards the fouth; the most northerly, which was very fmall, had the name of St. Anne, the other St. Barbe; by my bearings the length of the coast of the latter was feven miles.

* I fhould like to know by what French chart our navigator fteered. The Ifland of St. John is placed, according to a chart of Fleurieu, in 3 deg. 45 min. lat. 150 deg. 32 min. eaft of Paris: but by Carteret's Voyage, (French edition, 4to.) the chart of which is on a larger fcale, the latitude is 4 deg. 19 min. long. 153 deg. 3 min. eaft of Greenwich, 150 deg. 43 min. eaft of Paris. Carteret obferved this ifland. The author of the *Difeoveries of the French*, page 300, (Englifh edition, printed for Stockdal) is decidedly for 4 deg. lat. and 151 deg. 30¹/₂ min. eaft of Paris.

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nds towards very fmall, Barbe; by le latter was

our navigator ng to a chart of eaft of Paris: chart of which long. 153 deg. Paris. Carteies of the French, is decidedly for At day-break the center of a large ifland, which I named Don Manuel Flores, bore S. 59 W. at the diffance of 13 leagues; upon it was observed a pretty high mountain, and its coast appeared to run from E. S. E. to W. N. W. for the space of fix leagues.

At eight o'clock in the morning we got fight of nine iflots, which I did not doubt of being the Ontong Java of the French chart. The latitude of these islands is precisely the fame as those which is affigned to the center of Ontong Java on the chart. I fleered directly for them to get as near as possible, and observed that they were furrounded by a fandbank which cannot be feen till within two miles of the coast. Near the edges of this bank we faw, above the water, at short distances, some small rocks a very little way from the fand-bank itself.

The bank leaves a narrow opening on the fouth coaft, oppolite to which the latitude was by observation 4° 53'; we were but two cables' length from this mouth, which leads to a gulph where the fea is perfectly ftill, and where is a fecure harbour, if neceffary to put in for wood or water. This gulph is fheltered on the north by the iflots : we gave it the name of Princes's Harbour. On the chart we have given a very correct plan of this port, paffing it near enough to be answerable for the accuracy of the draft*.

From

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* Ontong Java, (or Jaba, which is all one to the Spaniarda) was difcovered they fay in 1616 by Maire and Schouten. They enumerated twelve or thirteen iflands, but did not obferve them any thing like fo near as our navigator. At a diffance they could not have feen fome very low flips of land, which connected two parts of one ifland, and thus they deferibed one ifland as two. In 1767 Carteret difference, in the fame latitude, nine iflands which he conceived to be the Ontong Java of Schouten. These ifles extended from the N. W. a quarter W. to the S. E. a quarter E. for the space of about fifteen leagues, one of which is very extensive; whereas Ontong Java does not extend three leagues, and all the illands of which it is composed are very finall. Notwithstanding Vol. I.

From thele islots, which are not above a mile from each other, issued out about fixty cances which approached us within a short gun-shot; but the wind being favourable, I did not think it worth while to wait for them, but shord on always in the same course. They returned to their islots, on which it appeared to me impossible for human creatures to fublist. We saw there a tolerable number of palmtrees, which no doubt bore fruit, and by this and the help of fish, these islanders drag on their miserable life.

After leaving Ontong Java I continued my way with gentle pleafant winds during the day, but ftormy in the night, which obliged me to keep a ftrict look out for whatever might offer itfelf to our view, and recommended a fimilar vigilance to all the fhip's company. They at once faw the rifks we had to encounter; confequently no fooner was an object deferied in the horizon, than I was informed of it; the ifland obferved, and the danger avoided.

I failed the 22d without feeing any land, but the night being dark we heard at ten o'clock a dreadful roaring in the N. E. and faw wide of the fhip's quarter, at an inconfiderable diffance, the fea all white with foam. I was obliged to bear away to the S. W. until the noife of this fhoal, which I called the Snorer*, were no longer heard. I then ftood again to the eaft as before.

If the many accidents which occurred during my voyage be taken into confideration, the conftancy I invariably flowed in my aim at two objects of equal moment, yet directly oppolite one to the other, may be eafily conceived. My commission required the ut-

this, we shall endeavour to prove that the nine islands of our navigator, as well as those of Carteret, Maire and Schouten, are one and the fame groupe, diffinct from the Ontong Java of Tasman.

* Fleurieu takes this Snorer (Le Ronfleur) to be the fame rock as the Candlemas Shoals of Medana, which is not improbable.

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most celerity, and confequently obliged me to prefs every fail without a moment's lofs of time. On the other hand the tornadoes under the line only took place during the night; the winds then frethening confiderably, rendered the air dark and gloomy, emitting thunder and lightning. During the day there was almost a perfect calm, and I could therefore take advantage of the night alone to get forward. At one time I fell in with land during the day, at another during the night. Prudence undoubtedly required me not to expose myself to dangers which might in an inftant put an end to the very aim of the voyage; but I might thereby have experienced a delay which had been prejudicial to my commission. I therefore supplied the defect of tardy prudence by the most active vigilance in looking out for every obstacle that might prefent itfelf, and profiting by every favourable breeze.

For the remainder of January the winds were light, and blew between N. N. W. and N. E.; obliging me either to purfue my courfe eafterly, or in the fecond quarter next to it. I therefore encreased my fouthern latitude, without having it in my power to bear up to the north, the wind conftantly blowing from the first quarter, except a few puffs which came from the fourth and fecond quarter, and of which I took advantage by nearing the line: but the calms were fo frequent, that the longest way I made in twenty-four hours was but 70 miles.

From the commencement of February the calms were yet more conftant : from the 6th to the 17th our longeft run being 40 miles, and commonly only from 12 to 15. I in vain endeavoured to pass to the north of the line, 1n hopes of doubling the weltern thoals of St. Bartholomew *: light airs from the N. N. W. and N. N. E. obliged me to fteer in the

* This I gueffed at, as the M. S. gives no intelligible meaning: I think my guefs is tolerably right.

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fourth quarter to a point fo near weft, that I loft the longitude I gained in the eaft at the expence of fuch multiplied hazards. These reasons induced me again to keep my way in the first quarter, in hopes that the easterly winds would soon facilitate my getting northward of the line.

As my voyage was lengthing, I took the precaution from the 20th January of leffening the ordinary ration of bread, two ounces per man, befides an ounce less in the pound, which I took off the moment we embarked : but on the 16th February, feeing that time did not ameliorate our condition, and confidering that we were at first only victualled for fix months, that the 70 pipes and 40 barrels of water put on board were not near fufficient for that fpace of time only; that where I then was, in S. lat. 30 22' and long. E. from Paris 174° 8', with fcarcely provisions left for three months, and a very infufficient quantity of water, I concluded that necessity required the diminution of a ration more, which I ordered from that day, reducing it to two thirds. 11 11 1.1

Our diffres was infinitely increased by the innumerable quantity of cockroaches* which infested our ship. The bifcuit was much lighter than when first put on board; but what discouraged me most was the state of our water cashs, which we not only found empty, but frequently unserviceable, the cockroaches having perforated the staves by holes as big round as two fingers.

After most ferioufly reflecting on all these circumfrances, I conceived that it was not possible for me to continue my course north of the line, without putting into fome island to replace the water 1 had

* Cancrelas, or Kakerlaque, is a coleoptorous infect like a cockchaffer, but larger and much flatter; it foils and devours every thing. It is faid to be called ravet at the Antilles; the cockroaches of the Ifle of France feemed to me much larger than the ravet of St. Domingo, but they are equally tormenting.

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loft. the N flectio Iflanc of; 1 would with' of Mo 1 th winds next' the So league canar. E.N. 1 ting in Findin led to ern he with fo dearth not wi 22 deg able fo promife pulling the win time; have pu After to torm ter (bei while t 26th I 1 tor, ho The cre would equalled 11 11

loft. I could not flatter myfelf that I should reach the Marianne islands in time. The refult of my reflections was the refolution of ftanding for Solomon's Islands, which I was then 107 leagues westward of; hoping the winds, which blew from the North, would not prevent this, and from thence 1 might with greater fecurity and fpeed reach the Prefidio

I therefore made fail for Solomon's islands; but the winds blowing uninterruptedly from the first quarter next the North, obliged me to drive infenfibly to the South. The 20th February, I found myfelf 17 leagues west of the Cape of Santa Cruz or Guadalcanar. We then began to meet with breezes from E.N.E. and E.; which made me lofe all hopes of putting into, or even getting fight of Solomon's islands. Finding myself therefore in 12° S. lat. I was compelled to take the refolution of getting into the fouthern hemisphere, confident that I should fall in with fome iflands where I could remedy the extreme dearth to which I was reduced; at the fame time not without the hope, after having traverfed 20 or 22 degrees of latitude, of meeting with winds favourable for carrying us eaftward, which I could not promife myfelf in navigating in the north, unlefs by pulhing on to 44 or 46 degrees, and keeping close to the wind, which would have been an infinite lofs of time; and even in adopting this course, I must still have put in to the Mariannes.

After these and other reflections which never ceased to torment me, I refolved to fteer in the fecond quarter (between East and South) purfuing that course while the eafterly winds would permit. On the 26th I faw a fmall ifland, which I immediately flood for, hoping to caft anchor and take in water there. The crew leaped for joy, thinking that this island would put an end to all their wants; their joy equalled their diffrefs, but not for long : when witheff of ofe's

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in two miles of the island, we clearly faw, that fo far from any anchorage, not even a boat could get afhore. It was abfolutely barren; on its mountain, which was by no means small, there was not a fingle tree to be feen. This was named Bitter Island.

On the 27th we discovered an island directly ahead, on which was a very high mountain, its fummit apparently burnt, but the declivity, covered with trees, displayed an agreeable verdure. We plainly diffinguished many cocoa-nut trees, which ftrengthened my defire to bring to; but the lightness of the breeze would not fuffer me to get nearer than about a league from its welt fide, from whence came many canoes with cocoa-nuts and bananas, and exchanges immediately commenced. The Indians came on board with the most perfect confidence; he who commanded them manifefting the most tender friendship, dancing on the deck, and finging feveral fongs. Among other prefents, he gave us a large kind of counterpane, like blotting-paper, but composed of two or three forts of fheets interwoyen with each other, to give more frength to the texture. I returned his civility, and he retired well fatisfied. He told me that this island, of which he was the chief. was called Latte, fertile in different forts of fruit, with foft water in abundance, and that I thould find good anchorage. This news was very fatisfactory, but, for my own part, I could discover no place where I could be fecurely fheltered.

In ftretching round the island to look for a good anchoring place, we faw at E. N. E. about 12 leagues off, other islands not fo high, but of greater extent, with feveral channels between them; the wind faint but favourable for our approach. The perfpective of thefe islands promising abundant relief, I bore up for them.

The calms and light contrary airs, which I experienced on the 1st of March, was of many days duration,

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duration, but on the 4th, after feveral tacks, I ran into an opening, formed by thefe islands, at N. W, and came to anchor in 45 fathoms, at a fhort diftance from land, whence we faw within the gulph, houfes, abundant plantations of banana and cocoa-trees, very fatisfactory appearances as to water, which laft was neareft our hearts; and in fhort, in the interior of this groupe of islands, many harbours, where vefiels might lay in fafety from the rage of the winds and fea: fo that we were thoroughly perfuaded of our mifery being at an end.

In the evening of the fame day, we drew up the anchor, and as the depth of water confiderably increafed, 1 gained the offing by fhifting the anchor to the water's edge (or between wind and water) fo that it would be ready to let go again. As foon as it was weighed, I again tacked towards the port, and the 5th at day-break, anchored in 38 vares (about 23 fathoms*) bottom of fand and ftone, two cables' length from the fhore, in a creek where, the evening before, I had feen the houfes.

Every day which I loft in getting near thefe islands, from fifty to a hundred cances came along fide, bringing pigs, fowls, bananas, and potatoes, which had fomething of the flavour of cuftard; fome of thefe potatoes were five vares long, + and in thicknefs about the fize of a lufty man's thigh; the leaftweighed three pounds. They offered us, likewife, a kind of cloth woven from the bark of the palm-tree, others of a finer make, and laftly, fome of the cloaks or counterpanes, refembling blotting-paper, of which I have already fpoken; the counterpanes, particularly, they held in high effimation. All the commerce was carried on over the fhip's ftern. The islanders wanted

* L think it should be 38 fatherns.

+ The Spanish word pope or papa, fignifies a kind of panada, made with milk, with which infants are fed. It feems very justifiable to fuspedt exaggration in the length of the potatoes.

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in change for their fruit and produce of their manufactures, hatchets, adzes, and other cutting infruments; but I forbade, under the feverest penalties, that any should be given, and I believe I was obcyed. They were, therefore, obliged to content themfelves with bits of cloth or stuff. My crew cut their shirts, jackets, and trowfers into pieces, and with these bandages procured pigs, and other refreshments. On account of these provisions, I suffered the allowance of meat, and reduced that of the bread to one half.

The Indians who came on board preffed me to go into the interior of their archipelago; each pointed out his ifland, affuring me I thould there find water and every thing elfe I wanted : the equis or captains fhewed me the greateft friendfhip as they arrived, and I endeavoured not to be in their debt. Many fat down at the table with me, though they only partook of their own fruits. I imagined that thefe iflanders were divided into many cafts or tribes, from the number of their equis; but, on the other hand, I obferved among the whole the greateft harmony.

We were likewife vifited by women, whofe countenances were by no means diagreeable; their clothing confifted in a kind of petitoat, which reached from the waift to the feet; the men were dreffed the fame. I admired the fine bulk of the latter; fome of them whom I measured being fix feet four inches high, and large in proportion, and these by no means the tallest. It is certain that the shortest of those I faw, equalled the tallest and stoutest of my ship's company. These islanders are in general tall and robust

We no fooner caft anchor than I received a prefent of fruits fent by the Tubou; the meffenger being, as I was told, his fon. This name of Tubou, which the equis repeated with a particular tone of affection—what can it fignify? I then thought that it den which over the ner of ceived with to with n went t contrar

Fror rounde manneo thrill, t board. us that no foo. were of the Tul age and agility 1 equis, w were un fhoulder followed other fe almost a fome Eu marked fifth yea both to the othe the feet a canoa both of the necl flefh-col

* The South Sea

it

it denoted apparently the equi of the ifland, near which we were, who must hold fome pre-eminence over the others, on account of their respectful manner of treating him. Whatever it might be, I received his fon in the best possible manner, from the wish to conciliate his friendship, that we might meet with no impediments in our operations, when we went to take in water, and that he might, on the contrary, favour us with all his authority.

From eight in the morning the frigate was furrounded by a hundred canoes : the cries of those who manned them and bartered around the thip, were fo fhrill, that it was not poffible to hear each other on board. Neverthelefs, this fame hour they informed us that the Tubou was coming to pay us a vifit, who no fooner approached, than all the canoes which were on our ftarboard fide dispersed. I received the Tubou with every poffible mark of respect. His age and enormous fize had deprived him of the agility neceflary for getting on the deck; fo that his equis, whom till then I had confidered as little kings, were under the neceffity of fupporting him on their shoulders, while he mounted the ladder. He was followed by his wife, who furpared in beauty all the other females I had feen on this ifland; and I could almost at once have fworn that the was daughter of fome European, fo ftriking were the graces I remarked in her; and not being at most in her twentyfifth year, youth still added to her charms. They both took their feats on the watch-bench, and all the others profoundly proftrating themfelves, kiffed the feet of the Tubou. He brought me as a prefent a canoa * load of potatoes. In return, I decorated both of them with a fcarf of flame-coloured filk, from the neck to the waift, to which I fupended by a flesh-coloured ribband, two large piastres stamped

* The Spanish term canoa, means boat; but the boats of the South Sea were probably only canoes.

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ointed water ptains rived, Many ly parthefe s; from hand, I ıy. counclotheached fed the ; fome inches means thofe I fhip's all and

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with the refemblance of our august fovereign. I at the fame time distributed feveral reals * with the fame flamp, to be at a future period incontrovertible proofs of our having put in here. The fubordination of the equis towards the Tubou was fuch, that none of them dared to be feated in his prefence : even his fon, who before his arrival affected a majeflic gravity, was now as respectful as the others. I can fay with truth, that the Tubou fcarcely honoared them with one or two words. I conducted them to the fate cabin; they were firuck with admiration at the fight of the equipment of the frigate and other things which I shewed them. In short, quite fatisfied with the reception they had met with; they retired, after giving me unequivocal affurances of their most fincere friendship, and a thousand embraces, with which the good old man inftantly overwhelm. ed me.

To avoid the exceffes which the crew often give themfelves up to when they go alhore, I published an order, threatening with fevere penalties, any one that should disturb those islanders, under whatever pretence.

I defired my men, notwithftanding, to keep themfelves at all events on their guard; and to give the Indians an idea of the power of our arms, I ordered a few guns to be fired againft the rocks; the noife produced by the bullets and cafe fhot infpired them with the greateft fear, and they intreated that I would not repeat it. This difcharge in the prefence of twelve or fifteen hundred perfons produced the defired effect, infpiring them with the dread of our arms, which I hoped in the fequel they would not put me under the neceffity of employing againft them.

On the 6th I chose from among my complement,

• The piastre contains 20 reals; the real is worth a trifle more than two pence half penny of our money.

fifteen

fifteen and ca which which whom order, boat; Indian moven The

men to walked faid the I fent where well on gave w to be c avoid 1 the frig gave m To do like to On t well ar of the water ; After f lution on the caution left in the ind The great 1 with y

fifteen men, well armed with muskets, pistols, fwords and cartridge, and embarked with them in the boat, which carried four fwivels; we landed on the beach, which I found covered with men and women, whom I made disperse, and brought up my force, in order, under arms, at about ten vares " from the boat; the fwivels were pointed against the crowd of Indians, in case we should perceive any hostile movement.

The Tubou's fon offered to conduct one of my men to a running ftream of water; but after having walked for half an hour and afcended a fmall hill, he faid they were ftill at fome diftance from it; the perfon I fent thought proper to come back to the beach, where I waited his return. I had, however, funk a well on the beach, which, when on alevel with the fea, gave water though not fit to drink. I caufed another to be dug twenty vares from the beach, wifhing to avoid the receffity of weighing anchor, and taking the frigate more within the archipelago, where they gave me the most positive affurance of finding water. To do that I must give up many days, and I did not like to lose time.

On the 7th, I was in my boat, with a detachment well armed, and an Indian accompanied me to one of the places where they told me I might be fure of water; but this water was too far from the fhip. After filling a few barrels I returned, with the refolution of continuing the well I had begun. I went on fhore the fame day, always taking like precautions; the work of the well advanced, which I lrft in fuch a ftate as to be able to afford us water on the morrow.

The Tubou or king, came to pay me a vifit in great pomp; the equis were ranged in two files, with venerable old men at each extremity; walking

* The vare is equal to about three feet.

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before the king. The Tubou, as a proof of his tender friendship, carefied and embraced me a hundred times'. His retinue fat down, making a large circle, in the fame order which it arrived in. Two carpets made of palm were brought; the king fat down on one, and made his fon be feated on the other, at his right hand. 'The whole kept a"profound filence; those only near the king and whose great age certainly made the most respectable, faithfully repeating all his words. Some roots were foon brought, with which they made a drink in a kind of troughs. By the faces of those who drank it must be very bitter. This refreshment was ferved up in veffels made of Three or four young Indians prebanana-leaves. fented it to the Tubou and me first. The islander nearest the Tubou pointed out those who were to drink; the others were not offered any. Roafted potatoes and perfectly ripe bananas were afterwards put before me, of which I eat. Soon after two canoes appeared full of the fame kind of provision, to be divided among my foldiers. This refreshment over, the Tubou returned home : I returned the vifit, appointing the first pilot to command in my place, with orders to let nobody approach under any pretext whatever. The Tubou received me in the best poffible manner; the queen foon appeared, preceded by eight or ten young girls, from fixteen to eighteen years of age, all of whom waited upon her; fome drove away the flies which might incommode her, on the others flie leaned. She was wrapped up in many cloaks which made her look'extremely fat. She receiving us with a fmiling countenance, graciously repeating the word liley, liley, liley, which fignifies very well or welcome. After the first visit, I made but few others, left the Tubou thould ftrip himfelf of all his clothes to put on me, which is confidered as a fignal mark of favour. The king gave me two great doradoes

dorad thing lours. the m Ou Sth, v ment comp I this who r quanti collect as I wa the fea diftan the m anothe diftand which all the ken; ten and but in depth with it The wind a the we a wind other e came f thoms which pletely rock. · Do fignifies a well-k † I a

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doradoes * and one of his weapons, which was nothing but a flick of acana + painted of different colours. I returned on board, hoping to get water on the morrow.

Our well being completed, in the evening of the sth, we began to draw water, to the great aftonishment of the Indians; but it was to bad that we were compelled to give up this method of getting a fupply. I this day made a fecond vifit to the King and Queen, who never miffed fending, every evening, a great quantity of roafted potatoes, undoubtedly from a recollection of the large number I had to feed. As foon as I was affured of the unhealthinefs of the water near the fea, without hopes of finding any but at a great distance from the bank, owing to the proximity of the mountain, I weighed anchor and brought to in another bay, at a league and a half or two leagues diftance. On weighing one of the anchors, the cable, which was in use for the first time, absolutely failed, all the ftrands of which it was compoled having broken; the whole length of the cable was entirely rotten and unferviceable. I tried to fifh up the anchor but in vain, not being able to ftay long, and the depth of water giving me but little hopes of meeting with it'eafily.

The new bay was perfectly protected both against the wind and fea, which I fome days after experienced, the weather being extremely violent out at fea, with a wind from the N. and N. W. and I perceiving no other effect from it than a gust now and then, which came from that direction. I was at anchor in 32 fathoms in a bottom of fand and frome; fome hills, which formed the harbour on the north fide, coinpletely sheltered us; the bottom all around us was rock.

• Dos dorados. The Spanish word dorado, taken adjectively, fignifies gilt, substantively, I know no other meaning than dorado, a well-known fish.

+ I am ignorant of this kind of wood,

is tenindred circle, arpets wn on at his ilence : ze cerpeating t, with is. By bitter. nade of ns preislander were to Roafted erwards o canoes n, to be nt over, visit, apce, with pretext peft poleded by eighteen r; fome ode her, d up in fat. She rac:oufly fignifies 1 made b. himfelf lered as a wo great doradoes

On the 9th, we began taking in water, at only five vares diffance from the beach. The work went on fafter than I wanted it, the equis having commanded their Indians to roll our cafks, but when the Tubou came no one befides himfelf dared to give any more orders.

The 10th, 11th, and 12th, we got as much water as we chose to put on board; an innumerable quantity of canoes came however to barter, and their confidence in us was such, that many passed the night and slept on board.

During this time, the king invited me to a feaft. which he defigned preparing for that purpose. When I went athore on the 12th, I faw in the thick wood near the port a vaft circular space, which had been cleared with fuch care, that not the least veftige of what it had been, remained. A little after, the Indians went two by two to the Tubou's house with long poles on their shoulders, from which were fulpended many potatoes, bananas, cocoa-nuts, and These, by the direction of the Tubou, were filh. taken to the newly cleared camp, where they were piled, in a cubical form, to the height of two vares. The equis and venerable old men came to conduct the Tubou, who took me by the hand, and we repaired to the valt circle, where upwards of 2000 Indians waited our coming. We took our feats on the carpets of palm prepared for that purpole, as did all the people, always keeping each caft or family diffinct, as they never mix with each other.

The king then made me an offer of all the fruits, and had them taken to my boat, which they completely filled. The porters being returned to their respective posts, a profound filence was observed, while the king spoke; those who had the right, from their age and dignity, of sitting near him, repeating all his words. Not knowing to what this tended, I ordered those of my soldiers, whom I had left

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he fruits, ney comd to their obferved, ght, from b, repeatis tended, had left in in command of the first pilot, to hold themselves in readinels to fite both with their mulkets and piltols, should they perceive any hostile movement. A ftrong robult young man now stepped forward from the ranks, the right hand placed on his breaft, and firking his clow with his left, making many ganabols round the place opposite the groupe of different tribes to himfelf. One of another tribe then ftepping out with the fame geftures, they began to wreitle, laying body to body, closing with, and repelling each other with fuch animofity, that cheir veins and nerves fwelled and extended prodigionaly. At last one of them fell with fuch violence, that I thought he would never rife again; he neverthelefs got up all covered with duft, and retired without daring to turn afide his head. The conqueror prefented himfelf to do homage before the king; while those of his tribe fang, but whether in praise of the conqueror, or contempt of the vanquithed, I cannot lay.

These wrestling combats lasted two hours; one of the combatants had an arm broken, and I faw others receive terrible blows. While this wrestling lasted, other champions with their hands and wrists bound with thick cords, which served instead of gauntlets, prefented themselves. This kind of combat was far more dreadful than the wrestling, the combatants, from the commencement, firking at. the forehead, eyes, cheeks, and all parts of the face, while those who received the blows became more impetaous and ardent. Some were felled to the ground by the first blow. The assembly regarded these combats with a certain degree of respect, and all were not indiferiminately admitted to them.

Some women, particularly those who attended on the Queen, affisted at this fête, and I found them quite otherwise than what they had hitherto appeared to be. I had not judged of them unfavourably, but on this

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this day they were clothed in their best attire, with their mantles well plaited and tied up in a knot on the left fide, chaplets of large glass beads round their necks, the hair carefully dretled, the body washed and perfumed with fweet-scented oil, and so clean a skin, that they would not have suffered the smallest particle of fand to remain on it; they completely fixed my attention, appearing more beautiful than ever.

The King ordered the women to fight with their fifts like the men, which they did with fuch fury, that had they not been feparated now and then, they would not have had a tooth left. The fpectacle touching me to the foul, I intreated the King to conclude the combat, which he did; and all applauded the compation I had for thefe young females.

The Toubou, after this defiring an old woman, who carryed a tin bottle at her neck, to fing, which fhe did for half an hour without ceafing, at the fame time with fuch accompanying geftures and action, as might have led us to take her for an actrefs declaiming on the ftage.

The entertainment at length concluded, and we . returned with the King to his houfe, where I found the Queen, who received me with her cuftomary marks of regard : I afked her why fhe was not prefent at the feaft, to which fhe anfwered, that those forts of combats were by no means agreeable to her.

The bands of friendthip were fo clofely tied between us, that the Tubou called me his hoxa or fon. I took leave of the Queen and him, and returned to embark. The beach was entirely covered with the natives, who loaded my people with a thoufand careffes for having condefcended to affift at the feaft. The conquerors even took me on their fhoulders and carried me to the boat. The Tubou, who from his houfe faw this crowd, and knew how much I fuffered when the Indians mixed with my men, ordered

dered went in flick, faved than th ther th Not I was wind fr and bl which higher, chorage for all cable g third an On 1 when I the hop hold by joined to navigati were rot ropes, a state of tion of that hap tain in t To re cable to the rema employe and fifh * Is the

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dered his captains to purfue them, and he himfelf went into fuch a paffion, that he ran out with a great flick, flriking fuch as came within his reach. All faved themfelves in the woods but two, worfe mauled than the reft, who were left for dead on the fpot; whether they recovered I do not know.

Nothing now prevented my putting to fea, which I was refolved to do on the 13th, but a guft of wind from the N and N. W. that role the fame day, and blew almost directly into the channel through which I must go out. The wind role higher and higher, notwithstanding which, the fea at our anchorage was fearcely agitated more than ordinarily; for all that, and riding at three anchors, the sheet cable gave way and I remained with the hope* and third anchor only.

On the 15th, the wind fomewhat abated; but when I worked fhip to get under way, the cable of the hope broke, fo that I had now nothing more to hold by than the third anchor. Thefe accidents, joined to the croffes I met with in the courfe of my navigation, much difconcerted me. All my cables were rotten, as were the haliards, fheets, tacks, braces, ropes, and, in a word, all my tackling +. The bad flate of my rigging left me in the dreadful expectation of losing the only anchor I had, and should that happen, i could not but confider my loss as certain in those diflant climates.

To remedy our most immediate want, I fastened a cable to a neighbouring rock, which, conjointly with the remaining anchor, ferved to hold me fast. I also employed fome of the men to endeavour to look for and fish up the two lost anchors; after a labour of

* Is the name of an anchor in Spain.

† I here omit a long detail of the damage the tackling fuftained, and a tedious flory of the author's complaints; that would not be very amufing to the reader; befides which there are feveral errors in the manufcript.

Vol. I.

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twenty-four hours we found it useles, the water being too deep.

The vexations whereby I was tormented, did not permit me to accept an invitation the Tubou gave to affift at an entertainment fimilar to what he had before given on my account : but this prince, who called me his fon, and undoubtedly loved me as fuch, did not forget to fend every evening two bafkets of potatoes, fome fowls, and fifth. He ordered the whole great quantity of provisions which had been got together for this new feaft to be brought to me; and came feveral times to the frigate, often dining with me, and afterwards taking his afternoon's nap on board.

On the 16th, I endeavoured to fet off, and the wind being contrary, ran upon different tacks, and although the current was also against me, and the gut fo narrow as hardly to give me room to tack about, I found myfelf at the laft tack to windward of all the points; but a furious squall blowing directly in my teeth, threw me back among the rocks through which I was fteering. I was now more than ever perplexed, having no choice left but to return to my old harbour, let go the anchor, and carry a cable speedily on fhore to hold me in the best manner that was possible. I, on the 18th, fent my first pilot in the boat to found another channel, fhut in, it is true, by feveral iflands, but which, however, promifed us an easy entry with the' then prevailing winds. The pilot, on his return, affured us that the channel had throughout a good bottom, entirely free from thelves, and the paffage large enough for running on tacks if requisite. Laccordingly got ready for going out on the 19th, and at two o'clock the fame afternoon, had cleared all the iflands, which was all that I could then defire. The Indians and Tubou were not prepared for this leparation which they undoubtedly were much affected with : the king and queen took leave of me with

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Thi formed fmaller de May and 17 found t ingin not be lofes its whether is from fand, w the gul only from the dept In this p rage mut bays the

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with the greatest demonstrations of forrow, and the Indians, in their canoes, accompanied us till we were out of their archipelago.

This port, which I named Refuge Harbour, is formed by three tolerably large islands and feveral fmaller ones. The whole group I called Don Martin de Mayorga. The port is fituated in 18° 36' fouth, and 179° 52' east of Paris. There may at all times be found the most favourable shelter : the winds blowing in vain with their greatest fury, the fea could not be more tranquil, and the hurricane itself lofes its power. At entering between these islands, whether by the W. N. or S. W. channel, the depth is from fifty to fifty-five fathoms, bottom of ftone and fand, which fame depth continues to the center of the gulph two cables length from fhore, when it is only from thirty-five to forty fathoms. In fome creeks the depth decreases even to twelve or fifteen fathoms. In this place are neither shoals nor reefs; the anchorage must, however, be chosen by the plumb, in some bays the bottom being partly earth* and partly fand.

The fertility of the earth is fuch that it cannot but promife a favourable harveft. An immenfity of cocoa and banana trees, ranged in rows with the moft delightful regularity, are feen all around, much potatoe ground, as may be concluded from the great quantity fent on board, with other roots very pleafant and nearly of the fame fpecies. Lemon trees, fugar canes, fruit much refembling apples, oranges, &c. In fhort, two or three equis having once conducted me to a fruitful country, I admired the order with which every thing was difpoled, no weeds being fuffered to grow among the plants : their roads are kept up with a care worthy the imitation of the moft polifhed nations. Seeing the zeal they had for agriculture, I gave them fome beans, maize, a few grains of allfpice and rice,

* Should not this be rock inftead of earth.

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explaining their uses, and affuring them that they would fucceed in their beft foil.

They cultivate fhrubs all ranged in order, fimilar to the banana trees, the bark of which fhrubs ferves for their cloaks or counterpanes, they likewife make a kind of petticoat of it.

Their conduct during our ftay, is a proof of the confidence they placed in us; it was not in my power to do the fame in this respect, never going on shore without a detachment which infpired them with terror. Neither did they give us the leaft caufe of complaint but in their inclination to fleal, a paffion which Indians cannot furmount. Every time they came on board, whatever cloaths or iron work fell into their way, they confidered as a lawful prize. They drew through the port holes or windows whatever they could carry away. They even stole the chains from the rudder, of which I complained to the king, who gave me leave to kill any one I might furprife in the act; and I was affured that he had not only difcovered but put to death the authors of the above mentioned theft. Our vigilance was increased, and we furprifed fome of the islanders taking away fresh chains from the helm; we fired a piftol at them, of whom one fell dead : it was a lefton for those on board or aftern of the frigate, who cried out, chito (thief) fama (dead).

I used every method to find out if they had any kind of religion, whether they adored any creature or falle gods; but we observed nothing that could even make us suspect it.

We could eafily pronounce the words of their language, and they as eafily repeat ours; a ftay of a few months would have put it in the power of the one and the other to use both languages indifferently. If my misfortunes had not totally abforbed me, 1 should have collected all the words of their language, which could ferve for holding conversation with these Indians.

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Indians. In the little intercourfe I had with them, I gathered the names of all the parts of the human body, as well as of the numbers as far as ten.

They allured me that two frigates had put into their islands, the captains of which, with five or fix officers from each, had flept on fhore, and gave them chaplets of glass beads, hatchets *, and adzes.

The 16th of March, when I got ready for fetting off, they told me that two fimilar veffels with mine, were then making fail to the N. W. and they entered into fuch a detail that it was impossible to doubt the truth of the fact.

The equis, from cuftom, carry a mother of pearl fhell, fulpended from their neck, and have the two fmaller fingers of the hands cut off close to the roots.

The Tubou used his utmost endeavours to induce me to go with the frigate to his ordinary place of refidence, where I should find vegetables in greater abundance. I should certainly have acquiefced in hisdefire from the first invitation, had the nature of my commission permitted it; and the rather as I should have found, by his affurance, as well as that of all the other Indians, a better shelter and affistance in repairing my rigging.

During my thort ftay in this port, I could not find out what where the functions of the equis, how they were distributed, what the nature of the Tubou's authority was, and how far his power extended. In the latter days of my remaining there, in particular, fuch was my chagrin that I thought of nothing but fetting fail. This, indeed, I am fure of, that but for the unfortunate accident of losing my cables, which exposed me to a thousand dangers, I never thould have made a pleasanter ftay; fince befides a sufficiency of water and the repair of twentyfive empty unferviceable cafks, we found for the starts

* We may conclude from thence that the frigates were Spanish, as were those of which we are going to speak.

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companies more refreshments even than we should have had in our own ports; fo that they did not regret the demi-ration I discontinued, having been provided for several days. Some who were so afflicted with the scurvy as to be given over by the surgeon, recovered their health, and in short we had met with a prince, whose inclinations were so favourable towards us, that he was constantly classing me in his arms, and offering all the provisions he had.

Departure from Refuge Harbour, in the Island of Don Martin de Mayorga, in Lat. 19°. 38'. S. and 179°. 52' E. from Paris.

ON the 20th of March, having weathered all the islands, I kept as close to the wind E. N. E. as lay in my power, running fouth-eaft on the nearest points to it. In this track we discovered E. S. E. 7°. S. a very elevated island, fifteen or fixteen leagues diftant; and at fun-fet three other islands, which extended from S to W. S. W. 50°. W. at a distance of five leagues from the most easterly, which obliged me to tack at 9 P. M. At one o'clock I again re-tacked to the fouth, to approach these islands. We perceived in those nearer to us forty-eight fires.

On the 21ft, at fun rife, we counted ten iflands on the flarboard, and fix on the larboard fide. We paffed between them on the fouth, through wide channels which they form. We faw none of them a-head, until, come to a vaft gulf, when we difcovered, at five or fix leagues diftance, iflands out of number, making a very extensive circumference, in the center of which we were. In traverfing one of the ftraits formed by these iflands, we had taken foundings; the plumb made it five fathoms, but only for an inftant, the moment after the depth having greatly increased. increa low if many thefe that t would refolve ifland diftannity a

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increafed. Seeing myfelf furrounded by fo many low iflands, or fmall iflots, between which were left many channels, I attempted to fail through one of thefe openings, but as we approached we perceived that they were obftructed by rough fhelves, which would not let me fail through the fouthern part. I refolved to bear up wefterly, towards the very lofty iflands we had deferied in the evening, at a great diftance, not doubting that I muft find in its vicinity a free panage out of this archipelago.

From the break of day, fucceffively arrived many canoes laden with the fame fruits and provifions as those of the preceding islands. The exchange began, fhreds of linen being the price of their commodities.

The Tubou of this island fent me two pigs and fome cocoa nuts, and invited me to come to the island, where he refided. He afterwards came himfelf on board, when he told me he would entertain me with the feat of wreftling, and that he would collect for my crew a heap of potatoes, as high as our main-maft. He appeared jealous of the good reception that the Tubou of Mayorga had given us.

I gave him to understand that I would comply with his wifhes as foon as I fhould be to the fouth of the ifland before us, but they all agreed in informing me that the paffages were flut by floals and reefs, and that on the contrary I fhould find fufficient depth by taking the courfe of the Tubou's Ifland and the high one that I was already fteering for. Although I was affured by all that this great equi was lovereign of forty-eight islands, which they named to me in the most minute detail; I did not perceive that they had the fame affection and respect for him as those of Refuge Iflands had. Immediately, on his coming on board, he put his beads of mother-of pearl round my neck, as a token of close friendship; and after having paffed five or fix hours, returned to one of k 4 the

fhould not reig been afflicted iurgeon, net with able tone in his

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n iflands de. We gh wide of them fcovered, number, he center the ftraits undings; or an ing greatly ncreafed. clì

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the islands, in the expectation that I should join him to-morrow.

I ran close along many shelves, and at fun-fet found myfelf to the eaft of St. Chriftopher* Islands, at fix leagues diftance, clear of the little flat islands : but as the wind freshened from the east, I remained all night under very little fail, that I might not expose myfelf to run upon any unobferved islot.

I gave this group of islands the name of Don Jofeph de Galvez. The fouthern cape of the Tubou's Island is in lat. 10°. 30'. and long. 170°. 38'. W. of Paris.

At day-break of the 22d I ran under a prefs of fail as near fouth on the next point, as poffible; and in following this tract we faw two islands before us, which I called the Adders, beyond which was perceived a great ridge, the breakers whereof were feen very far; it was five leagues from us.

The prevalent winds from the east and north east, drove us forward, by which we continued our navigation more easy in mind, finding ourselves delivered from the dangers whereto we had been expofed, as well by the islands as reefs. We faw nothing more till the 24th, when we difcovered in the third quarter (between S. and W.) at feven leagues diftance, a finall island, which I named The Solitary. On the 27th we faw another W. S. W. 3º W. ten leagues diftant, to which I gave the name of Valquez.

From the night of the 27th to the 28th, the wind became outrageous, and the fea ran very high. At midnight I was obliged to lay to, till day-break, when the weather became mild, and I flood towards the weft, with a light north-cafterly wind.

On the 20th, finding myfelf S. lat. 25°. 52', and

* What is this ifland of St. Chriftopher? Can it be the lofty ifland which was mentioned, and to which that name was given? It fhould have been explicit on this head.

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reckoning myfelf 179° 17' eaft from Paris, the wind veered to the weft, of which I took the advantage to make fail to the S. E. a quarter E. wifhing to bring myfelf more to the S. and at the fame time gain fome longitude towards the eaft. This route I purfued to the 3d of April, on which day, in 30s lat. and 174° 22' long. W. from Paris, the wind fell almost into an absolute calm.

In fuch circumfrances, and on account of the continual complaints that the fhip bread was not eatable, I thought it advifeable to look into it myfelf. When I faw the actual frate in which it was, I could not but regard my fituation as the most dreadful, to which those who navigate unknown feas, without hope of any relief, can be reduced. Never fhall I call to mind that forrowful moment, without the recollection of the spectracle which then came to my view, piercing and rending my very heart. I can with truth affirm, that if God had not suftained me in that deplorable moment, I should have fallen in the utmost despair, scieng no appearance of being able to continue our way.

I ordered the first pilot, Don Joseph Vasquez, the second, Don John d'Echeverria, and all the sea officers to attend, and made the surgeon, Don Pedro Carvajal, reporter of the counsel which we were going to hold, and of the deliberations which should be there taken. I conducted them, one after another, to the bread-room, when we found millions of cockroaches; to convey an idea of the number of these infects, they must nave been seen by the eye. This plague had so infessed our frigate, that the holy Father was obliged to exorcise them more than once. For my own part, I took care to distribute in the cabins, bread-rooms, and throughout all the thip, vessels* rubbed over the infide with honey mixed with

* In the text it is wrote fpitting pots.

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efs of fail ; and in efore us, was perwere Gen

nd north nucd our felves debeen ex-We faw overed in at feven at feven med The V. S. W. gave the

the wind high. At lay-break, d towards

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fugar; each day brought me a large pail full of those intects. I thus confumed almost my whole stock of honey, while their number did not perceptibly diminish.

The bread, at first opening the room, appeared untouched, but near the partitions the bifcuit had entirely difappeared, and the floor prefented to view nothing but a heap of bran and duft. From the dimunition of the allowance, which order I iffued on the 16th of February, and from the drawback of one ounce in each pound, which took place from the time we left Sifiran, there fhould remain 8225lb. of bread, (16 oz. to the lb.) without reckoning the other provisions, which were in tolerable abundance : but on that day I faw myfelf reduced to two great boxes of dust rather than bread*. I had the three casks of referve opened, which were well bound with iron hoops, properly coated with pitch. There was no appearance of their having contained any bread, they were full of cockroaches alone.

I finally took the precaution of picking out as much bread as poffible, and inclosing it in the flag and arm chefts. On weighing it I found it to be 1000lb. weight. (16 oz.) In the fecond place I collected all the potatoes that remained among the crew, but the provision having been given out a fortnight before, hardly two bafkets full could be obtained. Thirdly, I had all the pigs and other animals killed, except fome fowls which were kept for the fick, for whom I also preferved the little honey remaing from the flock I took in at Sifiran. The fourth precaution I thought neceffary to take, was infantly to fuspend even the allowance of bread, and to distribute per head to the fhip's company a fmall ration of pota-LOES, from the provision which I made of them with the Indians, three ounces of pork and one of rice. In all this my only aim was to preferve life until I

* I again abridge here.

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office my p ought main. fore t had t thoug had ca a bad fentim league anne i ther th calms fuch v of our me hor the cor unanin worfe t propofe tic hop ing tha could ga, not first an tions; be beft fary to nate ag interefi the inte of thef

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might be in a fituation to grant them more abundant fupport. In fhort I refolved to divide with them my provisions, referving as a last refource, the two chefts, which I looked upon as facred.

After all these resolutions, I took counsel with the officers already pointed out. I reprefented to them my proceedings fince the first of January, what bread ought to have remained, and what did actually remain. I told them that I the more willingly laid before them the precautions I proposed taking, as they had themselves suffered from the retrenchments I thought it my duty to make, retrenchments which had caufed me to be treated like a tyrant, as having. a bad heart, and as a man who had laid afide every fentiment of humanity : that we were actually 1760 leagues from Peru, 1240 from Guaham in the Marianne iflands: that the winds were favourable for either the one or the other of these tracks, fave some calms or croffes which must always be expected in fuch voyages; that they had themfelves feen the flate of our victuals; that, in fhort, I entreated them to tell me how they would conduct themfelves if they had the command of the fhip in fuch circumstances. All unanimoufly answered, that death alone could be worse than our present fiate; that of the two routes proposed, although either of them gave but very little hope of fafety, they could not difpenfe with choofing that of the Mariannes, and trying whether they could not get fome affiftance at the iflands of Mayorga, not having a month's provisions. In the end the first and second pilot supported all their rep cfentations; and myfelf, convinced that their advice would be beft, befides, being unwilling to be at all acceffary to the lofs of fo many unhappy men, or be obftinate against what seemed to me most to the King's intereft, I gave orders for fleering to the north, with the intention of getting forty leagues to the eaftward of thefe islands, where I had already found, and hoped

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ppeared auit had to view rom the flued on back of from the 251b. of the other ace : but eat boxes cafks of vith iron was no ead, they

g out as n the flag it to be ace I colthe crew, fortnight obtained. als killed, e fick, for haing from th precauhftantly to b diffribute on of potathem with he of rice. life until I

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ed again to find refreshments. This resolution, however, I did not take without a pain ftill more acute than that which I had felt on inspecting our provifion : I would rather have chosen death than to run again to the north; and had I not given way to reafon, I should have taken the mad resolution of purfuing our navigation eaftward. The calmnefs of mymind entirely forfook me; I was far from experiencingthat tranquillity wherewith I have borne up against an infinity of croffes in the dangerous voyages for difcoveries * I had undertaken. The reflection that we had no other choice left was not fufficient for my tranquillization, effectively when I reflected that this state of diffrefs manifefted itfelf precifely at the time when we furmounted the difficulties of our navigation, when we had reached a latitude where we could not but expect favourable winds, and with which I thought we might terminate our voyage. It is neverthelefs certain, that if this whim of myfelf feeing into the flate of our provisions had been a fortnight later, our greateft happines would have been to flay in some defart ifland, if we had had the good fortune to fall in with any. And even in the fituation wherein we found ourfelves, if the refreshments furnished us by the Indians had not been fo plentiful, I could then have taken no other part, than to look out for fome land whereto we could fly for refuge. It was then truly by an act of Providence that we fell in with the iflands of Mayorga, whence we had drawn fuch effential affiftance. With variable winds which blew from all points of the horizon, I from the 4th of April followed a northerly courfe, or that which approached it nearest in the first quarter (between N. + id E.). On the oth a breeze from S. E. to N. E. Legan to prevail, which I availed myfelf of to get forty leagues caft

* What fervice would not this navigator be of to geography, would he communicate his difcoveries to the public?

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of these islands, that I might afterwards find them with less difficulty by following their parallel.

The wind on the 16th abated, but on the 18th it increased, and was accompanied by overcast weather and rain in abundance; we laid to all night. At day break we ran for these islands, but the current carried us fome minutes to the north : the bad weather afforded us no opportunity for taking an observation, befides which, these islands being very low, we did not perceive them. We faw to the N. W. the ifland which lies S. W. 7º S. of that of Latté, upon coming near to which we recognized Latté at the diftance of fix leagues, the refult of which was, that my reckoning was thirty miles aftern of the frigate, and that we had confequently paffed between the two groupes of the islands of Galvez and Mayorga, at a short diftance from both, which continual fogs and a cloudy horizon had prevented our feeing.

As the only hope whereby the courage of my failors was fuftained, was being able to gain the ifland of Mayorga, I hauled my wind as close as poffible, and reefed the topfails; but the fea running high, the wind ftrong, and the night dark, obliged me to give up the idea of landing on thefe iflands, convinced that I could not approach them (which was at any rate very doubtful) without lofing many days. My complement was diffour aged by the fight of its wretched ftate, the weakness of which was fuch, that to hoift a topfail, the men of both decks were frequently obliged to put all hands to the work. The most rigorous hospital diet could not have enfeebled them more. To cheer up their fpirits, I made them confider, that in our prefent track, we must infallibly fall in with other islands, where they might recruit their ftrength. That the winds were favourable, and that we every day advanced in full fail towards the end of our fufferings. Tranquillized by this reafoning, they became calm under their afflictions. Ou

on, howre acute r provih to run y to reaof purefs of my eriencing. gainft an for difn that we iny tranhis state of when we on, when ot but exoughtiwe elefs certhe flate our greatme defart ll in with we found by the Inthen have fome land then truly the iflands ffential afw from all oril followroached it LE.). On an to preeagues caft

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On the 21ft we difcovered at N. N. E. and E. N. E. two iflands, which I named Confolation, becaufe my crew there found fome relief, having obtained potatoes, pigs, bananas, cocoa nuts, and fowls, which the iflanders brought during the thirty hours I laid off the coaft. Had the weather not been fo rough, the refrefiments would have been more plentiful; however, the fhip's company, by their barter, in which their apparel was not fpared, and at the rifk of being left abfolutely naked, made provisions for more than a week, whereby the failors recovered their ftrength, and were better enabled to fupport the laft misfortune which awaited them.

As, at our approach to the island, we faw a very great number of cances, laden with provisions, coming to meet us, I suspended the feanty allowance which I furnished from my own store. It is easy to conceive my object in this parsimony.

The Indians of these, islands speak the same language as those of Refuge Island, and their character of mind is the same. Such was the confidence they reposed in us, that nineteen of them steps on board, whether we would or not, and the next day we were obliged to rid ourselves of them by force.

They were defirous for me to land in their ifland, when they would exchange a great many large hogs with us, the fmall fize of their cances only permitting them to bring leffer ones; but time being precious I contented myfelf with feeing that no one neglected himfelf, and that every provision was made that circumftances would admit of.

The 22nd at night I ftood to the N. N. W. with a light wind from the north*, and in this track dif-

* There is fome miftake here. I cannot think that the Spaniards could, with a northerly wind, have fleered N. N. W. It must certainly be read either a north eaflerly wind, or a courfe to the W. N. W.

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The fecond times calm. ment, lat. I furrou impen tom v ifland nut tre the fl Confol I fer

good f reef pr the co but w Howe extrem ment. the ha from t to tow

* It Cocal. I did no

covered on the 24th another island, which I named Maurelle. The wind became calm, except fome fqualls and transient puffs from the north eaft, that prevented my ftanding for the island before fun fet. A fouth eafterly wind then fpringing up, I approached it within three leagues, but night coming on, and the diffance being too great for the little canoes of the Indians, made two of them, coming under fail, and, no doubt, laden with refreshments, return.

The winds continued to blow from the first and fecond quarter (from N. to E. and E. to S.) fomctimes fresh, and then so faint that they fell into a calm. I took advantage of every favourable moment, and found myself, on the 3d of May, in 6° lat. In this position we found a very low island, furrounded with a fandy shore, terminating in one impenetrable reef, near which I could reach no bottom with a line of upwards of 50 fathoms. The island was covered with a thick plantation of coccoanut trees*. This fight was the more agreeable to the scompany, as the provisions obtained at Confolation Island were exhausted that very day.

I fent the long-boat, armed, to try to bring us a good fupply of cocoa-nuts; this the breakers of the reef prevented. The frigate, however, got fo near the coaft, that the natives fpoke to us from the beach, but we could devife no means of getting nearer. However the Indians put their canoes to fea with extreme difficulty, the reef being a great impediment. They reached us in great numbers, though the hazard of the navigation had prevented them from bringing but very few nuts. They endeavoured to tow the frigate, by fastening feveral lines to her

* It will be prefently feen that this island was called *Island of Cocal*. Cocal fignifies a plantation of *cocoa palms*, (cocotaie) but I did not dare to risk that term.

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cir ifland, arge hogs permitting g precious neglected e that cir-

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prow, and paddling all at once towards the ifland, from whence they flung ropes to haul us in. Six hours having pafied without their being able to effect it, and feeing no prospect of ultimate success, I made fail towards the N. W.

The inhabitants of this islot already began to vary much in their produnciation of feveral words, common to the other islands. They were fo fineared over with paint, that one might have taken them for images of demons. They, for the most part, had long beards, hanging down upon their breasts. Near the cocoa-nut plantation there were for many huts, placed in such excellent order, that the population of the island might be concluded to be confiderable.

On the 6th I was under the neceffity of reducing the allowance of bread to five ounces, pork two, and beans two, which I drew from my own private flock, there being no more in the king's flores; and although I thought it impoffible for any crew to fupport nature with ten ounces of bad victuals, the dreadful flate of our provisions did not permit me to give out more.

The fame day, in the evening, we faw another ifland lower, but much larger than the preceding one. I named it St. Augustin, and left it fix leagues to the S. W.

We had, in recroffing the line on the 13th, fqualls from every point of the compass. All the remarks I had made on the flate of the horizon, fince leaving Cocal Islands, convinced me that we had left many lands to the east, which no doubt compose, with Solomon's Islands, a firing more or lefs open to the fouth of the equinoctial line.

During the fhort time that the allowance of bread remained at fix ounces, there was not a fingle man among the crew but complained of a weaknefs in the the flo that a withou to difp of gree On

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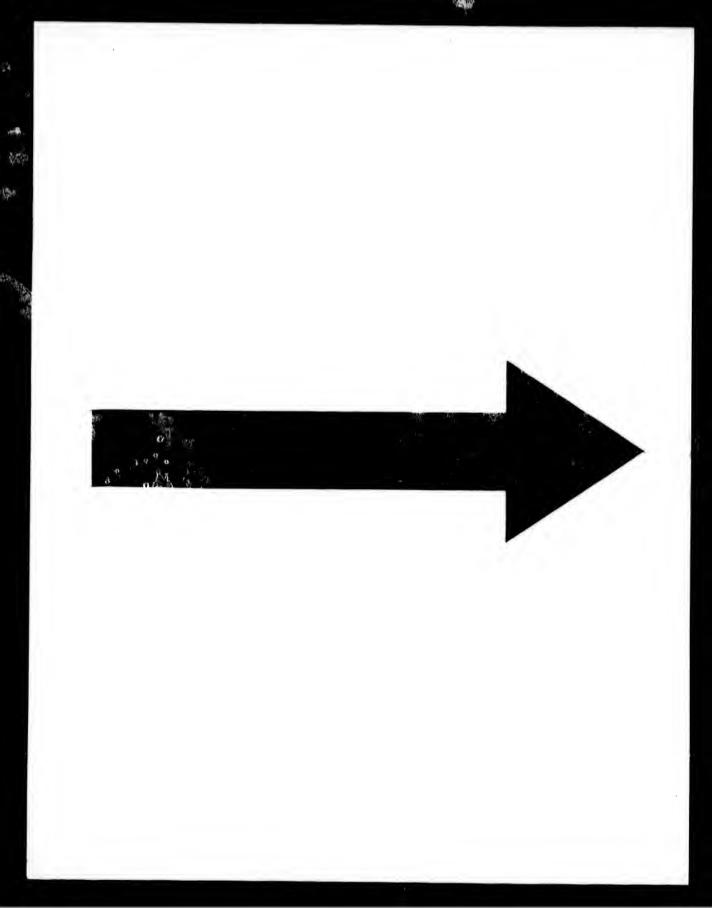
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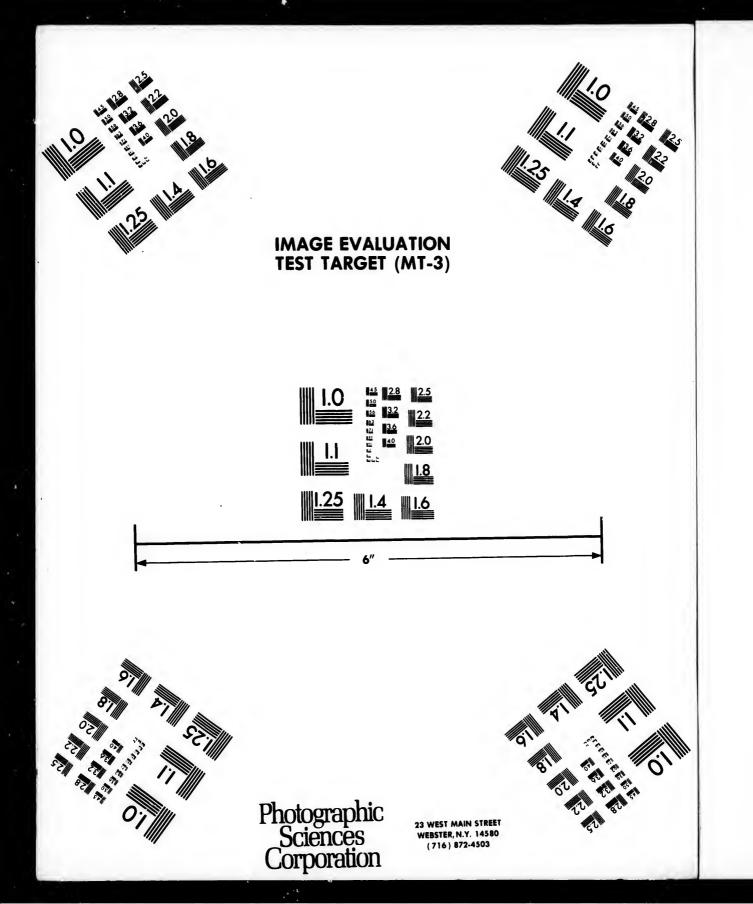
th, fqualls ie remarks fince leave had left compofe, cfs open to

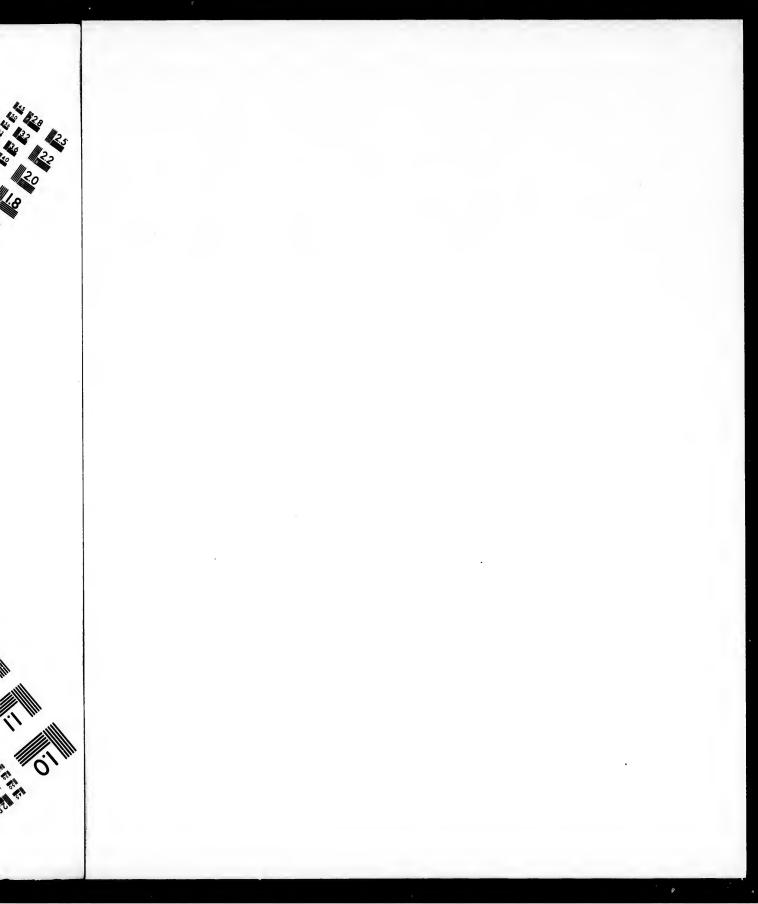
ce of bread fingle man veaknefs in the the flomach. The whole of them were fo feeble that all hands together could not hoift the fails without great difficulty, which forced us frequently to diffient with manœuvres that would have been of great utility.

On the 22nd I calculated that I was upon the fhoals of St. Bartholomew. Prudence would have undoubtedly required me fometimes to lay to during the night, particularly as the wind was not only pretty fresh but even violent; but I was too much affected with the lamentable state of my crew, the majority of whom were attacked by the scurvy, owing to the bad quality of the bread. I crowded fail, and the extreme vigilance I recommended to every individual of the scompany, supplied the place of those precautions which, under any other circumftances, I should have taken.

Our latitude on the 24th, was 13° 16' N. and all danger over; I therefore fleered W. by N. W. for Guam, the capital of the Marianas, where I came to anchor on the 31st, in Umata road, and foon received the neceffary affiftance for properly victualling my fhip's company. As I had only one anchor, too little to truft to in the road, I fent an express to Don Phillip Zérain, governor of the ifland, whom I made acquainted with the actual flate of my veffel, and the object of my commission, defiring him to put me in a flate for fetting fail as foon as poffible; declaring that however bad the condition of my fails and rigging, I was neverthelefs refolved to make the belt of my way for New Spain, to place in the hands of his excellency the viceroy of Mexico, the important difpatches with which I was charged. I added, that I hoped he would facilitate my being furnished with provisions, of those articles of food indifpentiable for fo'long a navigation. That I did not demand the provisions with which it is cuflomary to furnish king's ships, they would not Vol. I. have







have been found in this prefidio, but fuch as could be got together in the ifland, provided that their quantity might make them equivalent to the ordihary provisions.

The governor took upon himfelf to judge of every thing necessary for the fucces of my commission. Conceiving the confequence of not being driven by the wind out of the roadstead while my crew were bereft of food, he fent fifteen days' provisions in rice. maize, and hogs, on board, without difcontinuing the daily refreshments we were furnished with for the re-eftablishment of the health of those afflicted with the fourvy, and preparing my crew for a new voyage. He likewife ordered to be brought from a prefidio, ten leagues from Umata, a very old anchor, wanting it is true a quarter of the flock, but I repaired it fo as to make it fit for fervice, and by the help of another wooden anchor, which I confiructed with my carpenter's affiftance, we were, at the end of eight days, riding at three anchors, though not to the entire fatisfaction of the crew. challen at a

Nothing now remained for us but to procure water, to affure our fubfiftence whether at anchor or under fail. Since my arrival I had fucceffively put on fhore all my empty water cafks. It was not long fince they had been filled at the iflands of Mayorga. What then muft be our affonifhment, when we found only two pipes of water left, one of which wanted a whole barrel of being full ! I requefted the governor, his major, and all my crew to be witneffes with their own eyes of this enormous wafte. All returned God thanks for his having faved us from the imminent danger with which we were threatened.

As all the flaves and heads of the barrels were eaten throughout, we were obliged to repair them anew; but after this labour, the pipes which before held fix barrels, now contained only four; befides we could only make up 48 pipes from these wrecks. The gover-

governo on board This fuc had real however of our pr - The e treafure; pigs, 20 of dried cocoa nu and all th fhip. Un not have got every June 17 ment of highly be

Departur Guam, 10' N.

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on Weights each, would lefs, or onl ance would 800 or 800 † The bufhels and ‡ This a however, el is a weight

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ocure waanchor or flively put s not long Mayorga. we found wanted a governor, with their urned God imminent

were caten em anew; re held fix we could cks. The gover-

governor feeing the infufficiency of this fupply, fent on board 30 cannes, each holding eight quartillos *. This fuccour was certainly unequal to the ravage we had reafon to fear from our destructive infects. however took courage, hoping that in the abundance of our provisions they would eafily fatiate themfelves. The eatables I procured, without coft to the royal treasure, were 140 anègues + of maize, 60 of rice, 30 pigs, 20 young bulls, (perhaps oxen) 45..... ‡ of dried meat, falt, butter, lamp-oil, brandy made of cocoa nuts for the crew, 60 cocoa nuts for the hogs, and all the other articles of importance neceffary for a fhip. Under more favourable circumstances we should not have been fatisfied with fuch provisions. I now got every thing in readinc's for fetting fail on the 20th June 1781, for new Spain, to complete the fulfilment of a commission, the refult of which might be highly beneficial to the welfare of the State.

Departure from the Road of Umata, in the Island of Guam, the Capital of the Marianas, fituated in 30° 10' N. Lat. 21° 28' Long. of Manilla.

I GOT under way the 20th June, and once more experienced the great weakness of my cables, par-

* This is probably a miftake. According to Paueton's Treatife on Weights and Measures, &c. the thirty cannes, of eight quartillos each, would only have held 125 Paris pints, and above one half lefs, or only fixty pints, by Sejournant's Dictionary. This affiftance would have been very triffing. It must apparently be read 800 or 8000 quartillos.

† The Anegue, or rather Fanègue, contains very near four bushels and a half, Paris measure.

[‡] This abreviation probably means Anègues. The author has, however, eliewhere ufed it for *Arrobes*. The arrobe, for fubitances, is a weight of twenty-five pounds, forty-five arrobes would only make, therefore, 1125 pounds, which would not be a very great flock.

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ticularly of that attached to the anchor which the Governor had procured. The anchor was fearcely got out of the water before the cable broke, and the Thip in caffing having greatly increased the depth of water, it funk beyond the reach of the cable.

The featon permitted us to take a northerly courfe, the winds from E. and E. N. E. carried me to lat. 20° 10'. We were afterwards becalmed for feven whole days, during which time we only moved with the currents, whereby we were drifted to the N. W.

On the 3d July, in 24° 26' lat., the wind of the fourth quarter (between W. and N.) began to blow now with great violence, and then more faintly; it carried mc on the 7th to 25° 9' lat., and I then fuppofed I might be off the Great-Volcano Ifland. This route we continued to the 11th, when finding myfelf in 27° 52' of lat., I judged that I might be 25 leagues to the eaft of the ifland of Bad-Shelter, and that I had cleared all the ftring of the Marian Iflands. The wind then veered to the third quarter, (between S. and W.) and I flood to the N. E., always endeavouring to get a higher latitude, for the purpose of falling in with a fresh westerly wind. Arrived at 40° lat., I fteered E. by N. E. as far as the winds would permit, but finding that I was in lat. 43°, long. 179° 28' E. from Paris, the wind shifted to the second quarter (between E. and S.) and it became fo violent as to oblige me to lie by two days.

The 5th August the wind blew from the N. W., I steered E. by S. E. till the 13th. In this interval the wind came from every point of the compass, fixing at last in the second and first quarter. I availed myfelf to the utmost of these variations to proceed eastward.

On the 30th I was in N. lat. 37° 5', and I reckoned my longitude 144° 17' W. of Paris, and 260 leagues from Cape Mendocino. The wind being then in the fourth quarter, I flood eaftward until the 3d 3d Sep fir-tree proxim nearer The

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almoft a a terribl hours w and fou ing the us, we the for been dif longer.

The fi I fet eve I double night, a lat. 21° tunate a notwithf cockroad 3d September, when we faw fea-weed, and trunks of fir-trees floating on the water, the first fign of the proximity of the northern coast of California. To get nearer it I bore up E. S. E.

The fea on the 4th changed colour, and the fight of fome fmall birds was a confirmation of our not being far from a land which we fhould not be long before we came in fight of.

On the 8th I was off Point Pedernales or Gun-Flints, at the diffance of five leagues. Thefe bearings placed me in 123° 3' long. W. of Paris. By reckoning I was in 130° 34', to that my calculation was 122 leagues wrong, by which I made myfelf too much to the weft.

On getting fight of this Point I made for Cape St. Lucas. In the way I pafied to the caft of the Ifland of Guadaloupe at the diffance of eight leagues. The weather was calm for fome days, after which on the 20th, I came in fight of Morne St. Lazarus, and was on the 22d, near Cape St. Lucas.

On the 25th after fome calms, during which I was almost always within fight of the land of this Cape, a terrible hurricane arole, that in the space of fix hours went round from the cast to the north, west and south, with such violence, that notwithstanding the impetuosity of the sea, which was against us, we ran seven miles and a half an hour under the fore-fail only. Doubtless we should have been difinasted, had the tempest continued much longer.

The fame day, when the hurricane had fubfided, I fet every fail and ftood for the Maria Iflands, which I doubled to the north on the 26th and 27th at night, and anchored in the roadftead of St. Blas, in lat. 21° 30' long. 107° 6' W. of Paris. I was fo fortunate as to bring home my crew fafe and found, notwithftanding the horrible havoe made by the cockroaches in our provisions, and the mifery which

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ich the fcarcely and the depth of

v courfe, to lat. or feven ved with e N. W. d of the to blow intly; it hen fupnd. This ng myfelf nt be 25 lter, and n Iflands. (between ys endeaurpofe of ed at 40° ids vould ong. 179° he fecond fo violent

e N. W., is interval oafs, fixing vailed myceed caft-

I reckonand 260 ind being d until the 3d

was the refult of it, with the lofs of only two men, one of whom died in the Port of Sifiran before our departure, and the other was attacked by a phthifis when he embarked *.

F. A. MAURELLE.

St. Blas, 27th September, 1781, on board the La Princessa Frigate.

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Extract from the Narrative of a Voyage made in 1779, by Don Francis Anthony Maurelle, Enseigne de Frégate, in the Service of the King of Spain, for the Discovery of the West Coast of North America.

THE Spaniards have within a few years undertaken three voyages for examining the weft coaft of North America. In the first, Don John Perez, first pilot, got as high as 55° lat., and on his return twice reconnoitred the coast between this point and the port of Monterey.

For the fecond voyage, undertaken in 1775, a frigate and febooner were fitted out. The command of the febooner was given to Don John Francis de la Bodega y Quadra, lieutenant de vaificau. Don Maurelle, who accompanied Don de la Bodega, and was then but a fecond Pilot, had given a fketch of this expedition, a copy of which fell into the hands of the Englifh. Sir Daines Barrington publifhed an Englifh translation of it in England, and Captain Cook mentions it in the account of his third voyage. But Captain Dixon, in the narrative of his voyage in

* I have not added any remark to the account of this voyage which Maurelle has termed interefting; but as in hydrography, the leaft exact journals may be ferviceable in fome degree, notwithftanding the fomewhat fevere judgment of La Péroufe upon it, in the extract from his correspondence in the fecond volume, I thought it might be of ufe to fome navigators, or throw light on fome geographical difcuffions.—French Editor.

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thefe fe hood ; that thi boafts o culation relle is : " endea " ftraits " to dife " which " fearch " exifter of Quee " iflands " from 1 " that th is it ful Queen Ci iflands ? " fiderin " been fe not thefe of them had othe make dif fell them the narra a perfon tomed to us in the what rela edly, very ous opini reality of neceffary fole object Maure. extended relle has p

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this voyage graphy, the e, notwithupon it, in volume, I ow light on

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these seas, accuses Don Maurelle of manifest falsehood; according to him it is an indifputable fact, that this officer has never been in the feas where he boafts of having made fruitlefs refearches. The accufation is ftrong, and if well founded, Don Maurelle is entitled to no confidence what ver. "We " endeavoured," fays this navigator, " to find out the " ftraits of Admiral Fuences, though we had not hither-" to difcovered the archipelago of St. Lazarus through "which we failed. After all these unavailing re-" fearches, we can pronounce this firait not to be in "exiftence." There, fays Captain Dixon, fpeaking of Queen Charlotte's Iflands : " the fituation of thefe " iflands, viz. from 54° 20' to 51° 56' N. lat., and " from 130º to 133º 30' W. long. evidently fhews, " that they are the archipelago of St. Lazarus," But is it fully proved, that what Captain Dixon calls Queen Charlotte's Iflands, is really a groupe of feveral iflands ? " There is every reafon to believe it, by con-" fidering the number of fmall ftraits which have "been feen in ranging along the coaft." But may not thefe finall firaits be nothing but creeks, none of them having yet been penetrated ? Captain Dixon had other affairs to attend to; his object was not to make difcoveries, but to purchase fine furs cheap, and fell them dear at China. Neither is he the author of the narrative. It is, he fays in the introduction, by a perfon as little verfed in a literary career as accuftomed to a maritime life. But Captain Dixon tells us in the introduction, that he has carefully corrected what relates to navigation. The whole is, undoubtedly, very well corrected ; but to fupport the erroncous opinion which people appear to be in as to the reality of Admiral Fuentes' difcoveries, it were unnecellary to tax with imposition a navigator whose fole object was to make difcoveries.

Maurelle's difcoveries, in this fecond expedition, extended to the 58th degree of latitude. Don Maurelle has particularized them on a chart, which may 1 4 probably

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probably not have fallen into the hands of the Englifh: the Spaniards will perhaps publish it, and the difcoveries of Maurelle may then be combined with those of Cook and Dixon. Don de la Bodega, and Don Maurelle, difcovered, among other places, in 55° 18' lat., the entrance of an harbour, which they fupposed to be a good one, and named it the Entrance of Bucarelli, in honour of friar Don Anthony Maria Bucarelli y Urfua, Viceroy of Mexico, who fpared nothing, as far as depended upon him, to facilitate the fuccess of these expeditions. He discovered alfo two very good harbours; that of Guadelupa in 57° 11', and Los Remedios in 57° 18'. Cook, in his third voyage, faw these harbours, but did not put in there.

A third expedition was, in 1777, ordered by the King of Spain, whereby he intended to complete the exploration of the N. W. coaft of America, from 58° to 70°. Don Bucarelli equipped two frigates; the la Princeffa commanded by Don Ignace Arteaga, licutenant de vaifleau; the Favourite, by Don de la Bodega, who took Maurelle, then enfeigne de frégate, as his fecond captain. Their first place of rendezvous was agreed to be at the entrance of Bucarelli, where they were to take in wood, water, &c.

On the 11th February, 1779, they left the harbour of St. Blas, which they place in lat. 21° 30' N, and long. 107° 6' W. of Paris. They arrived the 3d May at the entrance of Bucarelli, the geographical fituation of which is, by this account, in lat. 55° 18' N., and long. 139° 15' W. of Paris. There does not appear to be ground for calling in queftion the accufacy of the latitudes determined by Don Maurelle; the fame cannot be faid of the longitudes, which were probably only determined by account. According to an obfervation taken by Cook the preceding year, of the coafts near the entrance of Bucarelli, that entrance muft be very nearly 227° E of Greenwich, or $135\frac{1}{3}^{\circ}$ W. of Paris.

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In this he too princip the crea and ha named and ver It ismu as well and ifla of their be fo ef vifited particu the Eng few hat lage, fi could o wooden fall dow The Crofs () in its vi ing the picces (niards their ge factures They having counter They a They d

into a valt gulph, where they anchored the 3d May in a port, as they fay, inferior to none in Europe. They named it Port of the Crofs (La Cruz.)

Don Maurelle was dispatched on the 18th of May with the two long boats to furvey the gulph all round. In this expedition, which lafted till the 12th of June, he took the bearings of all the capes, illands, and principal parts of the great gulph, and delineated all the creeks, bays, and particular ports. All these bays and harbours are, fays he, good and fecure. He named them all, and afterwards conftructed a large and very exact plan of the whole of the great gulph. It is much to be wished that this plan were made public, as well as the chart which he composed of the coafts and iflands difcoverd by the Spaniards in the courfe of their expedition. The chart would not, however, be fo effential as the plan, the fame coaft having been vifited the year preceding by Cook, though fome particulars might be found upon it which had efcaped the English argonaut. Don Maurelle unct with but few habitations in his expedition, feeing only one village, fituate at the top of a fleep mountain, which could only be afcended by a flight of fteps, or rather wooden ladder, whence if the foot flipped, one must fall down the precipice.

The Spaniards were not long in the port of the Crofs (La Cruz) without being vifited by the Indians in its vicinity. Traffic commenced, the Indians giving them furs, and various trifles, for glafs beads, pieces of old iron, &c. From this barter, the Spaniards were enabled to form a pretty good idea of their genius, offenfive and detentive weapons, manufactures, &c.

They are of a clear olive colour, many of them having notwithstanding a perfectly white skin. Their countenance is well proportioned in all its parts. They are robust, courageous, arrogant, and warlike. They cloath themselves, apparently with the fur of one

ic Engand the ed with ga, and accs, in ich they Entrance y Maria o fpared facilitate ered alfo a in 57° his third in there. d by the plete the ca, from frigates; Artcaga, on de la de frée of renof Buca-, &c. the har-• 30' N., ed the 3d graphical . 55⁰ 18' docs not the accurelle; the were proing to an ar, of the entrance or $135\frac{10}{3}$

Spaniards into clxix

one or more undreffed fkins of otters, fea wolves. benades, (a fpecies of deer) bears, or other animals which they take in the chace. These dreffes cover them from the neck to the middle of the leg. Several of them wear boots of finooth fkin, not unlike the English boots, except that those of the Indians open before, and are laced up with a ftring. Their hats are woven from fine bark of trees, the form of which is like a funnel or cone. At the wrifts, they have bracelets of copper, iron, or for want of thefe metals, fins of whale; and round the neck, necklaces of finall fragments of the bone of fifh, or other animals, or even copper necklaces as thick as two fingers. Their ear-rings are of mother of pearl, or plates of copper, on which is embofied a topaz-coloured rofin. accompanied with jet beads. Their hair is long and They use a comb very like ours to hold it thick. together in a fmall queue from the middle to its extremity : a narrow ribbon of coarfe linen woven on purpofe, ferves as a ligament.

They wear also as a covering a kind of fcarf*, about a vare ψ and a half long, and a vare wide, woven like the *peillons* \ddagger of Peru, with a fringe half a quarter of a vare wide, the thread of which is regularly twifted.

The drefs of the women is a proof of the modefly and decency of their manners. Their phyfiognomy is agreeable, their colour fresh, their checks of a lively red, and their hair long, which they plait into our trefs. They wear a long robe of smooth skin tied

* In the Spanish it is algunas prefadas I do not know whether prefada fignifies any thing but a green colour. Prefadas is perhaps written for frafadas, a covering. P. for F, and f for z, frequently occur in the manufcript.

+ The Spanish vare is about three French feet in length.

‡ The Spanish peillon is a species of ancient robe, which is yet in use at Peru. I have not been able to find out of what texture it was.

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about th it covers reach d many fk them fro them, if beauty v tent with they hav figure th large apo piece of of which the grea It rende men, wh drawn de neceflaril The girl the lip, a to be pla Thefe picces, n ftays of measure, warp; by leaves the pons. 1 get, whic head is the head feet they ture as from the

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about the loins, fomething fimilar to that of a nun; it covers them from the neck to the feet : the fleeves reach down to the wrifts. On this gown they put many fkins of otters, or other animals, to defend them from the inclemency of the weather. Many of them, if better dreffed, might difpute the prize of beauty with the fineft Spanith women; but not content with the charms befowed upon them by nature. they have recourse to art, not to embellish but disfigure themfelves. All the married women have a large aperture in the lower lip, which is filled up by a piece of wood of an oval form, the finalleft diameter of which is nearly an inch; the older a woman is the greater is the extent of this beautiful ornament. It renders them frightful, particularly the old women, whofe lip; deprived of its natural fituation, and drawn down by the weight of this admirable jewel, necefiarily hangs in a very difagreeable manner. The girls only wear a copper needle, which croffes the lip, where the ornament is intended afterwards to be placed.

Thefe Indians ufe, in war, cuiraffes and fhoulder picces, not unlike, in workmanship, the whalebone flays of Europeans. Narrow boards form, in fome measure, the woof of this texture, and threads are the warp; by thefe means the whole is very flexible, and leaves the arm a free motion for wielding the weapons. They wear round the neck a large coarse gorget, which covers them up to the eyes, and their head is protected by a helmet, ordinarily made of the head of some wild beast. From the waist to the feet they have a kind of apron of the same texture as their cuiras. Lastly, a fine skin* hangs from the shoulder to the knee. With these arms

* In the Spanish it is written quera, which I do not believe to be a Spanish word. I supposed that it should be made cuera, the name of a species of skin garment.

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they are invulnerable to their enemies; but they cannot move with equal agility as if they were lefs encumbered. Arrows are their offenfive weapons. Bows, the firings of which are woven, like the largefiring of our beft mufical inftruments; lances four vares in length, headed with iron; knives of the fame metal, longer than European bayonets, a weapon which, however, is not common among them; finall hatchets of filex, or green ftone, fo hard as to cleave the clofeft wood, without turning its edge.

The pronunciation of their language is extremely difficult, speaking from the throat with a motion of the tongue against the palate. The little use the women can make of their lower lip is a great impediment to the plainness of the language. The Spaniards could neither pronounce nor write the words they heard.

These Indians, from their vivacity and attention to keep the market, established at the port, well supplied, it may be concluded, are tolerably laborious. They continually brought fluffs, well woven, and fhaded with different colours; fkins of fea and land wolves; otters, bears, and other fmaller animals. Of these skins fome were raw, others dreffed. At this market we also found coverlets * of common cloth, intermixed with brown and black colours, very well woven, but in fmall quantities. Large ribbons of the fame, which might be compared to that of the Spanish officers' mattreffes. Skeins of thread, of which this cloth was made ; wooden trenchers, prettily worked ; little boats, or canoes, painted of feveral colours, the figures of which represented heads with all their parts; perfect imitations, in wood, of frogs, which opened like fnuff boxes, and ferved for them to keep their trinkets in; boxes, made of fmall planks, of a

* Trefadas again occurs here. I supposed frazadas, bed coverlets, were meant.

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cubical form, three quarters of a vare on each fide, with figures of different animals, well fletched, on the outfide, the covers made like the etwees of Flanders, having indented edges, fo as to flut into the body of the box; animals of wood, both terreftrial and aërial; figures of men, of the fame materials, headed with helmets, to reprefent the heads of different beafts; fnares and nets for fifting; copper necklaces and iron bracelets, which they would not part with, but at a very high price; and beaks, from whence they drew a found like that of a German flute. The principal officers picked out from this merchandife what they liked beft, leaving the reft to the difpofal of the fhip's company.

The Indians perceiving that the Spaniards were very dainty in fifh, did not let them want for choice. Those of which there was the greatest abundance was falmon, and a kind of fole or turbot, three vares and a quarter long, and proportionably broad and thick; also cod, pilchard, and fish refembling trout. Hence it may be inferred, that this gulph must be well filled with fifh. The banks likewife are lined with The quantity of mother-of-pearl that these fhells. Indians cut up to make ear-rings with, awakened the curiofity of the Spaniards, who endeavoured to find out whether these people had not in their posseffion, or the country did not produce pearls or precious flones. Their refearches were fruitlefs, finding only fiones, which they judged to be of a metallic quality, and which they put on board the fhip, not having the neceffary means for extracting the metal they might contain.

The food of thefe Indians is fresh or dry fish, boiled or roasted; herbs and roots, the produce of their mountains, and that in particular called in Spain fea-parsley; and, lastly, on the flesh of animals which they take in the chace, which must undoubtedly

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ention to rell supaborious. ven, and and land nals. Of this mar. h, interll woven, he fame, nish offinich this worked; colours, all their s, which n to keep iks, of a

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doubtedly be very plentiful, by the great number of dogs they breed up for that purpofe.

The Spaniards perceived no veftige of worfhip among them, except their fometimes bending towards the fun, but whether as an act of devotion; they could not afcertain. Don Maurelle, in his expedition round the gulph, found, in two iflands, three bodies laid in boxes, fimilar to those before deferibed, and decked in their furs. These biers were placed in a little hut, on a platform of the branches of trees.

The country is very hilly, the mountains very high, their flope extending, in almost every inflance, down to the fea. The foil, limestone, is notwithflanding covered with a very impenetrable forest of losty, thick, and first pinc trees. As their roots cannot strike deep into the ground, the violence of the wind often tears them up. They rot, and change into a light mould, in which grows a bushy thicket, wherein are found nettles, camomile, wild celery, anife, a species of cabbage, celandinc, elder, wormwood, forrel, and, no doubt, along the rivers, many other plants.

The Spaniards faw ducks, mews, divers, kites, ravens, geefe, cranes, goldfinches, and other little birds, to them unknown.

The traffic between the Spaniards and Indians was perfectly undiffurbed; the former always keeping upon their guard, ready to defend themfelves in cafe of attack, the others contenting themfelves with ftealing to their utmoft, fecretly if not observed, and openly if they thought they were the firongeft. For the better maintenance of peace, the Spaniards flut their eyes to petty thefts; but if any were committed too much to their prejudice, they feized upon fome cance, or perfonage of diffinction, which was not releafed till refitution was made; but this was attended with no bloodfhed.

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The defire of procuring iron, cloth, and other fuffs, was, with fome Indians, prevalent over paternal love, they felling their children for fome vares of fuffs, or broken pieces of iron hoops. The Spaniards purchafed, in this manner, three young boys, one five or fix, the other four, and the third nine or ten years of age; not to make flaves, but Christians of them; hoping, at the fame time, to derive from them useful information as to the nature of the country and its inhabitants. These children were fo rejoiced at being with the Spaniards, that they concealed themfelves when their fathers came on board, for fear of being returned to their parents. With the fame view two little girls had likewife been bought; one, very ugly, feven or eight years old, the other younger and better made, but fickly, and almost at death's door.

The oldeft of the boys appeared to have a vivacity of fpirit and underftanding by no means common; he foon made himfelf beloved by the whole crew. He fignified, by very exprefive figns, what his countrymen meditated, what they ought to do, and what was the end they proposed. He took the foldiers by the hand, conducted them to the *depot* of arms, put the mutkets in their hands, made figns for them to be charged, and give fire upon fuch or fuch a canoe, but to fpare fuch and fuch another, which belonged to friends. The environs of this port are therefore inhabited by different tribes inimical to each other.

At the new and full moon the fea rifes in the harbour of La Cruz to feventeen feet three inches Englifh; the water is there high at a quarter paft twelve at noon. The lowest tides are fourteen feet three inches; the night tides exceeded those of the day by one foot nine inches.

The fouth, fouth-east, and fouth-west winds being always accompanied by fogs, and continual rain, the

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the Spaniards quitted La Cruz on the 15th of June, and gained the port of St. Anthony, with the intent of getting with greater cafe out of the gulph, with the first north-westerly winds, which thay could not do till the 1st of July.

The 16th of July they difcovered, half a league to leeward, a fhoal, which they calculate to be in lat. 59° 2' and long. * 147° 46'. They at a great diffance faw Mount St. Elias, whofe fummit they fay equals that of Orifba in height.

The 17th, at noon, Cape St. Elias bore W: 40° N. at three leagues diffance. Its latitude they effimate at 59° 53', its longitude at 149° 20'. The charts reprefent an ifland in the vicinity of this cape : the point of this ifland neareft the cape bore N. 18° W. five leagues off. The two points formed between them a channel three leagues wide. From the cape the coaft runs to the north, inclining a little towards the north-weft. In this part they diffinguifhed large bays, which they think muft be well theltered harbours.

This ifland, fays Don Maurelle, is larger than is laid down in the charts. The Spaniards, being but half a league diftant, difcovered a fhoal to the S. W.

They got fight, on the 18th, of a vaft gulph W. of Cape St. Elias, ten leagues in depth. On the 20th two canoes of a fingular confiruction came along fide, very thin boards or planks form the wood work, which are attached to each other by indifferently firong cords, leaving however fpaces between them; fo that without the 1kin, it would make a true fkeleton of a boat. This fkeleton is furrounded completely with fkins of animals, leaving a round aperture only at top, which ferves as a girdle for him that manages the canoe, and to prevent the water from getting in at this

* All the latitudes are to the N. the longitudes to the W. of Paris. We have already observed, that these longitudes cannot be depended upon.

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orifice, the conductor cloathes himfelf with a fkin made of bladders, tied exactly to fit the edges for the opening. These canoes, it is conceived, must be very light. Their form is exactly that of a harp, their prow having a fimilar curve to that whereon the strings of the harp are fastened.

The Indians who manage there canoes were cloathed with a fkin jacket, which was a fufficient protection against the cold. Their hats refembled those of the inhabitants of the port of Bucarelli, large glass beads were the pendants they wore at their ears. Their fishing instruments are worked as if by a lathe with the greatest nicety, a great rod, blown up bladder, harpoon, the point of which is bone, and a long cord made with the entrails of animals properly twifted. They firike the otter or fea wolf with the harpoon, which thus firuck attempts to dive, but is prevented by the bladder, and the Indian foon draws him within reach. The young Indians embarked at Bucarelli were defirous of communicating with thefe, but they neither underflood the other. These two canoes induced the Spaniards to put in at the neighbouring coaft, where they came to anchor the 20th of July at midnight, but early they next day they gained a creek which bore from them north, diftant one league. They were sheltered from N.W. to the N. and S; a little further in they would have been protected from every wind. This port, which they named St. James's Harbour, lies in lat. 60° 16' and long. 157° 52'. To fatisfy themfelves whether they were near an ifland or continent, they fent off the long boat, which after having failed fix or feven leagues to the N. N. W. reported that the coaft turned E. whence they concluded that the land near which we were at anchor was an island *.

* Upon a thorough investigation, I think that this port is near Cape Hinchinbrooke. Cook took no observations about this Cape, Vol. I. m neither

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Six canoes of Indians about 26 cubits long and 4 wide, lined with white fkins, and by no means unlike the European boats in conftruction, paid a vifit to the Spaniards. Before approaching, they hoifted three flags, the first of a carnatic colour, the fecond white, and the third blue; but they ftruck them before they came along fide. Their wives accompanied them, whofe fex is diffinguished by glass beads or other baubles hanging from both fides of the mouth. They are in other respects nearly the fame in dress as the women of Bucarelli.

The commandant having been once a fifting in the long-boat, it was very foon filled with fifth of an agreeable flavour, which they called *pargo mulato*, but the fifth of which there was the greatest abundance in those feas, is falmon, the pargo mulato being only plentiful in the little creeks which line the shore,

The Indians inhabiting this country are robuft, tall, and large in proportion, industrious, and thieves. The points of copper with which all their arrows are tipped, made the Spaniards believe that there are mines of this metal in the country.

The 28th July our pavigators weighed anchor to double a point which they faw in the S. W. 50° S. at 11 leagues diftance (probably the fouthern point of Montagu Island). They withed not to lofe fight of land, but the rain and fogs would not always permit them. They lay from the 30th to the 31ft, when they found themfelves in the vicinity of a group of islands extending from S. S. W. to S. S. E. They came to anchor on the 1ft of August to the S. of one of thefe islands, which they named Isle de Regla (Rule

neither did Dixon. The long boat could have penetrated into the bay, which is called Rofe Bay upon Dixon's Chart; and feeing it entirely clofed to the E. its courfe might have been continued towards the coaft running to the N. N. W. As for the reft, I think the transcriber may have written for longitude 157 min. 52 deg.; long. 153 min. 52 deg.—The manuscript abounds with faults.

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Island). count, a Maurelle on Bellin Ermogen obferving feen the feveral is Terra Fi towards 1

On the tain, cert tirely con at more t by twiligh finoke. was a litt mountain another w leaft appe at the diff wards ren was W. latter, alth ones, and with fnow On Re wolves juf but not a

* On the vol. iii.) is a which the ift tagu Ifland, 40 deg. E. or Paris). Co iflands, Dixo enough to be than is imagi

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Island).

Island). They place it in 155° 52' of longitude by account, and 59° 8' of latitude by obfervation *. Don Maurelle is of opinion, that these islands form what on Bellin's chart, engraved in 1766, is called *Cape St*. *Ermogene*; the latitude is the same. The Russians observing this groupe at a distance, might not have seen the intermediate channels which divide it into feveral islands, and therefore taken it for a point of Terra Firma. The island of Regla had many others towards the fouth.

On the 3d of August the fky being clear, a mountain, certainly higher than the peak of Teneriff, entirely covered with fnow, was feen to the N. W. 7º N. at more than 20 leagues diffance. In the evening by twilight, it was observed to vomit torrents of thick inoke. The crater from whence these torrents islued was a little more cafterly than the fummit of the mountain; it was thought to be a volcano. Near this another was observed, very high, whereon was not the leaft appearance of fnow; it bore W. N. W. 8° W. at the diftance of 15 leagues. Two others were afterwards remarked, the bearing of the higheft of which was W. S. W. 4º S. 13 leagues diffant; the two latter, although high, were lefs fo than the preceding ones, and they were notwithftanding entirely covered with fnow.

On Regla Island were found fome fmall huts, fca wolves jufi fkinned, and a great number of birds' heads, but not a fingle inhabitant. After two or three days flay, a cance appeared at one of the neighbouring

* On the chart of Prince William's Sound (Cook's third voyage, vol. iii.) is a place that might be taken for the groupe of iflands, of which the ifland of Regla makes a part; it is to the S. W. of Montagu Ifland, about lat. 59 min. 8 deg. long. 210 min. 30 deg. to 40 deg. E. of Greenwich (or 150 min. 40 deg. to 50 deg. W. of Paris). Cook paffed about 15 leagues to the weftward of thefe iflands, Dixon as much to the eaft. Thefe iflands may not be high enough to be feen at this diffance; they may alfo be more wefterly than is imagined.

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INTERESTING VOYAGE, ETC.

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points. The Indians uttered fome words, but would not come to the frigates. The expedition of the Spaniards terminated at this island, which they guitted the 7th of August, and anchored at St. Blas the 27th of November. From Cape St. Elias to the Island of Regla they took bearings with the greateft minutenefs, of all the islands, capes, and bays which they recognized ; but the winds and currents, very frequent, and violent, in these seas, drove them off the coaft oftener than they would have wifhed, and was prejudicial to the accuracy of their estimated route. If, however, they publish the chart which they have constructed according to their bearings, their observations, in conjunction with those of Capt. Cook, La Perouse, and Capt. Dixon, will contribute in a confiderable degree to bring the geography of that part of the coaft of North America to perfection,

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VOYAGE

ROUND THE WORLD,

IN THE YEARS

1785, 1786, 1787, AND 1788.

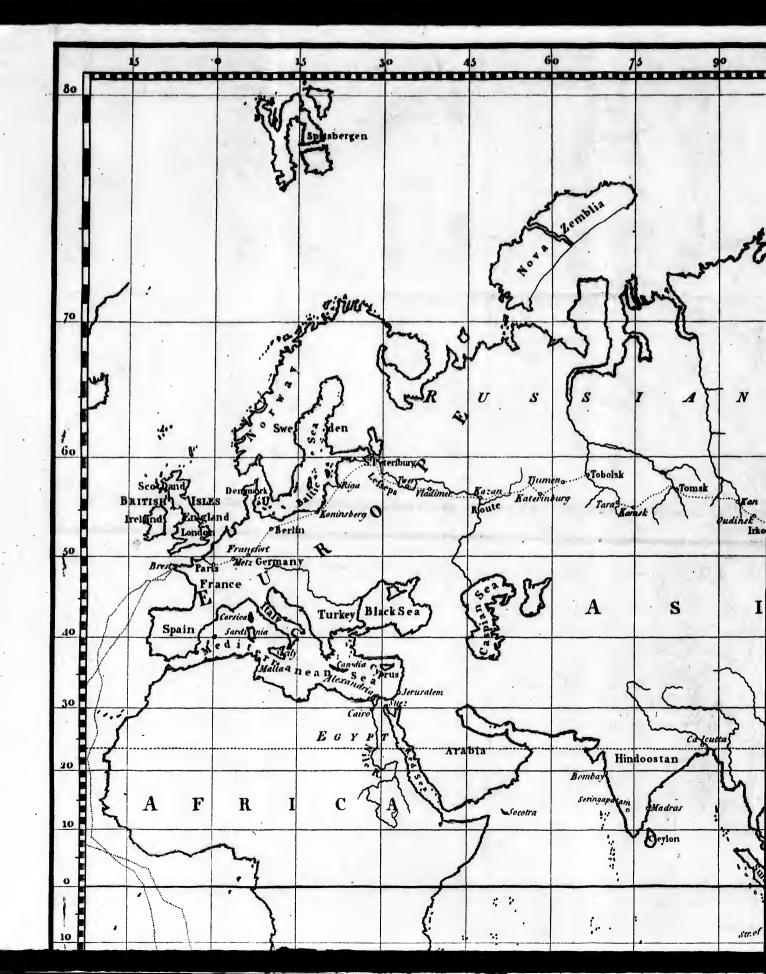
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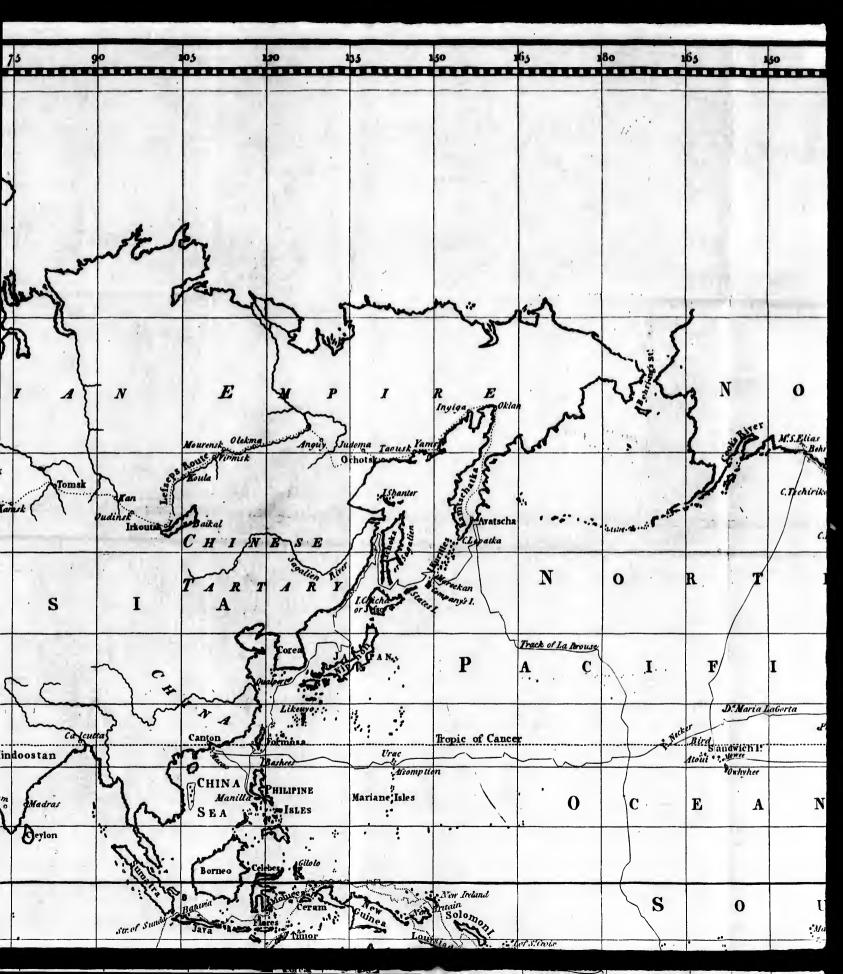
CHAP. I.

OBJECT OF THE VOYAGE AND EQUIPMENT OF THE TWO FRIGATES; STAY IN BREST ROAD— PASSAGE TO MADEIRA'AND TENERIFFE; STAY IN THOSE ISLANDS — EXCURSION TO THE PEAK— ARRIVED AT TRINIDAD — TOUCHED AT ST. CATHERINE'S, ON THE COAST OF BRASIL.

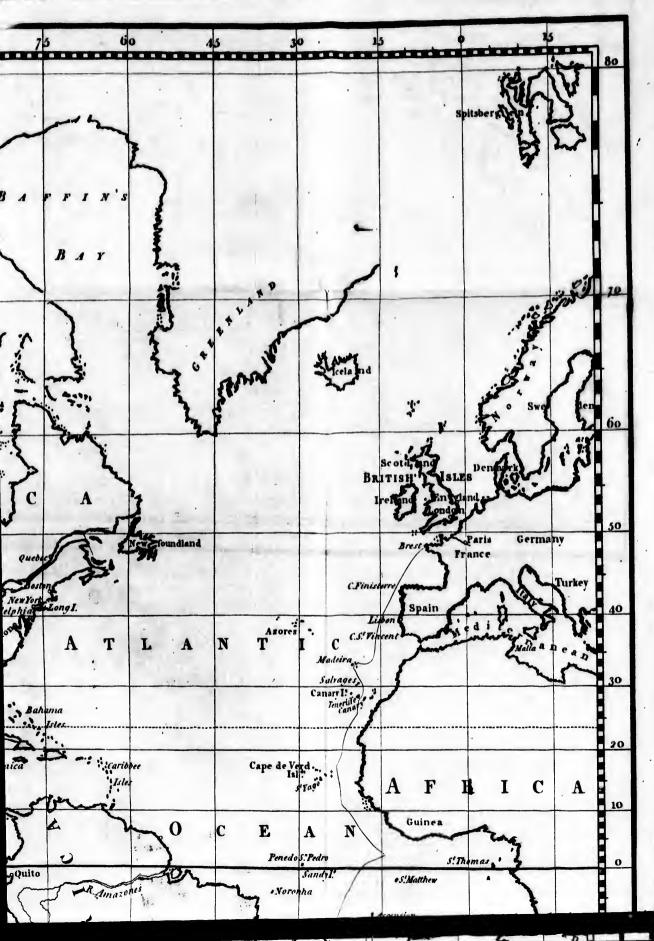
THE voyage of Ellis to Hudson's Bay, in 1747, had by no means answered the expectation of those who had advanced the fund for that enterprize. Captain Bouvet, on the first of January, 1739, who thought he had discovered land in 54° south latitude, which it now appears probable was only a mass of ice, had, by this mistake, retarded the progress of geography, and the ancient spirit of discovery appeared almost extinguished. The makers of systems, who delineate continents and islands in the retirement of the closet, concluded that the pretended Cape Circumcision was the northernmost point of the southern continent, the existence of which appeared to them necessary to the equilibrium of the globe^{*}.

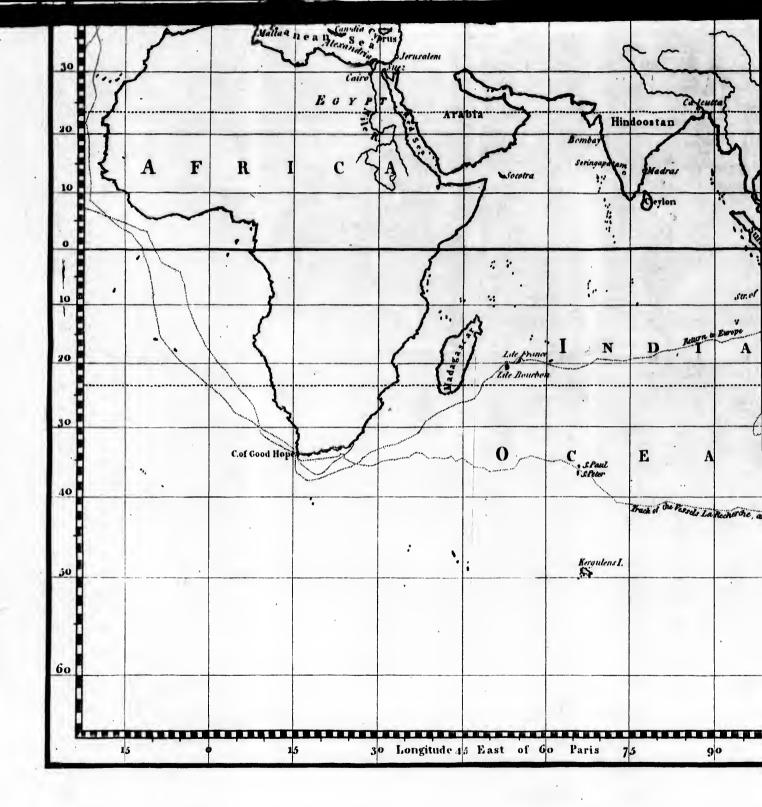
Those who maintain the existence of a southern continent, will deem the assertion of La Pérouse too bold. Yet, without pretending that Cape Circumcision belongs to a field of ice rather Vol. 1. B than

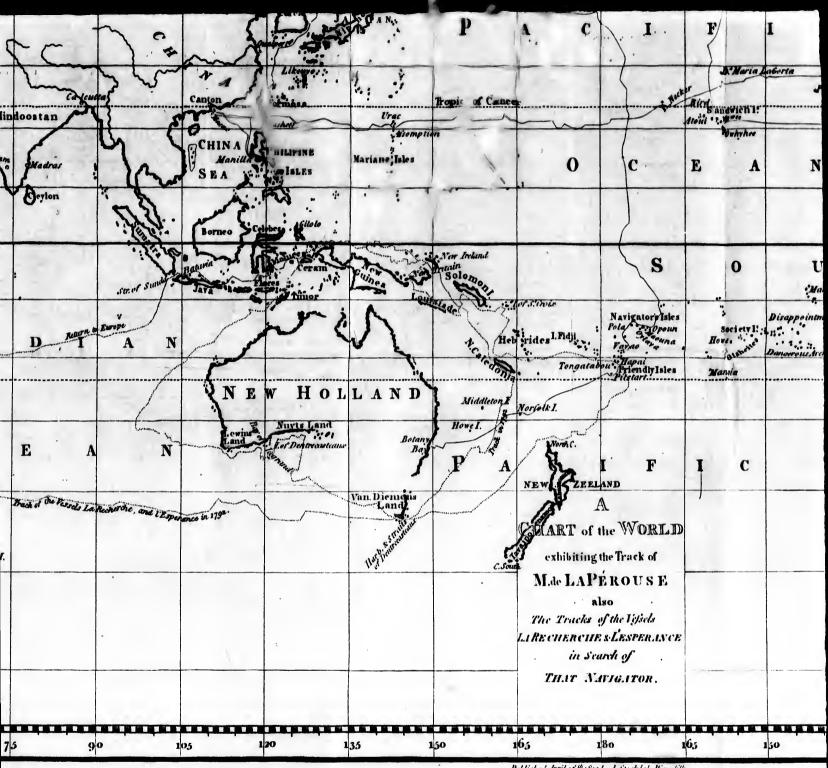






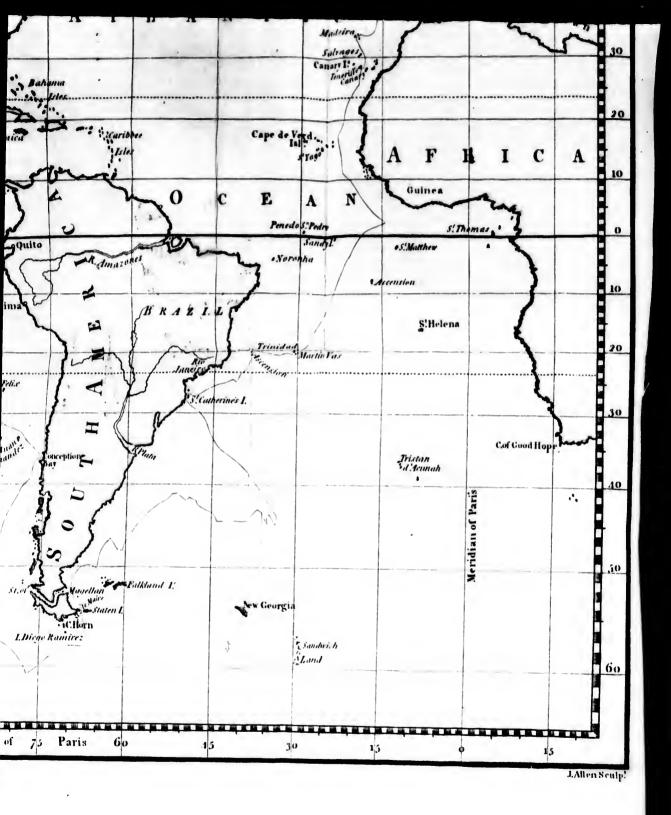






Published April 16th 1800 by J. Stockdale Pinudilly,





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The event of those two voyages might not unreasonably discourage individuals, who, from a mere spirit of curiosity, were sacrificing considerablesums to an object which had long ceased to attract the attention of the various maritime powers of Europe.

In 1764, England fitted out a new expedition, the command of which was entrusted to Commodore Byron. The accounts of that voyage, and those of Wallis, Carteret, and Cook, are generally known.

In the month of November, 1766, M. de Bougainville set sail from Nantes, with the Boudeuse

than to an island*; without resolving the idle problem of a southern continent, since it must be situated in a latitude by which it will be for ever insulated from the rest of the globe, I shall observe, that the first voyages of Cook round the south pole have fully determined the question; and that the arguments of Le Monnier, to prove that Cook did not seek Cape Circumcision in its true longitude, are not of the least importance †. But while I am declaring my opinion in favour of the existence of a southern continent, I do not believe that continent necessary to support the equilibrium of the globe. What, indeed, could be the effect of so small a protuberance, on so enormous a mass, when the least variation in the specific gravity of its internal component particles would be sufficient to counterbalance any inequality, however great, on its surface.

Though Capiain Cook professes a hope that no more will be said of a southern continent ||, it will perhaps be of service, some ages hence, to determine the progress which the ice may make towards the equator; and thus establish a proof of the ingenious theory of Buffon, that the earth is gradually losing its heat. But it will require many centuries to establish a probable system: for navigators have met with ice in a higher or lower latitude, at the same periods of different years. Those engaged in the whale fishery who go annually to Spitsbergen, have, it is said, once penetrated within one degree of the pole; and a passage to the north appears to have been navigated by Lorenzo Ferrer de Maldonado, of whom I shall elsewhere speak; but this has never since been met with by our most intrepid navigators, who have been constantly repulsed by the ice.—Note of the French Editor.

* Captain Cook having passed considerably to the southward of the land discovered by Bouvet, Cape Circumcision cannot possibly belong to a southern continent.

+ See the Memoirs of the Academy of Sciences at Paris for the year 1766, p. 665; the year 1779, p. 12; Cook's Second Voyage, vol. iv. p. 109, and following pages; Cook's Third Voyage, vol. i. p. 425, and following pages, || Cook's Third Voyage, vol. iv. p. 120.

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the year 1766, w. p. 109, and blowing pages,

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ROUND THE WORLD.

frigate, and a pink called l'Etoile. Steering nearly the same course as the English navigators, he discovered several islands; and the account of his voyage, written with animation, has not a little contributed to inspire the French with that taste for discovery which had just revived with so much energy in England.

In 1771, M. de Kerguelen was sent upon a voyage towards the southern continent, the existence of which no geographer at that time had even ventured to dispute. In December, of the same year, he descried an island : but the weather prevented him from completing his discovery. Full of the ideas which he entertained in common with all men of learning in Europe, he did not doubt but he had discovered a cape of the southern continent. His eagerness to announce this news, did not allow him for an instant to delay his return; and he was received in France as a second Columbus. A ship of the line and a frigate were immediately equipped to prosecute this important discovery. The choice of ves. sels so unusual for such an expedition, would alone be sufficient to demonstrate that enthusiasm had for a time banished reflection. M. de Kerguelen had orders to lay down a chart of the supposed continent he had discovered. The ill success of this second voyage is wellknown. Even Captain Cook, that first of navigators, could not have succeeded in a similar enterprize, with a ship of 64 guns, a frigate of 32, and 700 sailors. He, perhaps, would have declined the command, or obtained a more suitable equipment. At length M. de Kerguelen returned to France with as little information as before, and discoveries were no longer pursued. The king died in the course of the last expedition, and the war of 1778 directed every attention to far different objects. It was not, however, forgotten that our enemies had the Discovery and Resolution at sea; and that Captain Cook, B 2 labouring

labouring to enlarge the sphere of our knowledge, deserved to be considered as a friend by all the nations of Europe *.

The principal object of the war of 1778 was to secure the tranquillity of the seas, and was accomplished in 1783. The same spirit of justice which had recourse to arms to procure for the flags of those nations which were weakest by sea an equal respect with those of France and England, should, during peace, be directed to whatever is most conducive to the felicity of mankind. The sciences, by softening our manners, have contributed more perhaps than the laws themselves to the welfare of society.

The voyages of the various English Navigators, by which the sphere of science was enlarged, had merited the just admiration of the whole world. Europe had paid due veneration to the great talents and exalted character of Captain Cook: but, in a field so vast, succeeding ages will but furnish new objects of science to develope. Strange coasts will long remain to be explored; plants and trees of new kinds; birds and fish of unknown species are yet to be described; minerals to be analized; volcanos to be investigated, and nations to be studied; on whom, perhaps, we may bestow new means of happiness. For, to the inhabitants of the South Sea, a new species of fruit, or a farinaceous plant, which we may

• Every consideration engages me here to recal to view a fact equally gloricus to the French, and to him who became the object of their urbanity, amid the horrors which the policy of war renders necessary.

At the period of hostilities against England, in 1778, orders were issued to all ships of war that should meet the Discovery and Resolution, commanded by Captain Cook, to let them pass without interruption; and so far from treating them as enemies, to furnish them with every needful supply.

- Thus it is that a great nation manifests a religious respect for useful discoveries, and for the improvement of science.—French Editor.

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ROUND THE WORLD.

introduce among them, are benefits of inestimable value*.

These reflections suggested the project of a voyage round the world; and learned men of every de-

* But can the advantages to be derived from a new farinaceous plant, a new species of fruit, or even the introduction of domestic animals stand in comparison with that mass of evils which must result to these people from the introduction of European customs and manners?

Examining this problem in the different views of philosophy, of policy, or even of religion, considering what they now enjoy; and well persuaded that new desires can only spring from a knowledge with which they are yet unacquainted; we must, I think, most ardently wish that they may long continue to enjoy that felicity, that unalterable tranquillity which can only be founded on the satisfaction of the heart, the tender pleasures of sentiment, the unrestrained enjoyment of sympathy, and an obedience to the laws of nature and simplicity.

The following passages, extracted from Cook's third voyage, come in support of my opinion :

"When the Adventure arrived first at Queen Charlotte's Sound, in 1773, Mr. Bayly fixed upon this place for making his observations; and he, and the people with him, planted several spots with English garden-seeds. Not the least vestige of these now remained. —Though the New Zealanders are fond of this root (the potatoe), it was evident that they had not taken the trouble to plant a single one (much less any of the other articles which we had introduced); and if it had not been for the difficulty of clearing ground where potatoes had been once planted, there would not have been any now remaining." Vol. i. p. 125.

"These two Chiefs became suitors to me for some goats and hogs. I gave to Matahonah two goats, a male, and female with kid; and to Tomatongeauooranne two pigs, a boar and a sow. They made me a promise not to kill them; though I must own I put no great faith in this. The animals which Captain Furneaux sent on shore here, and which soon after fell into the hands of the natives, I was now told were all dead. Vol. i. p. 131.

"He said (i.e. Taweiharooa) that the Captain of her, during his stay here, cohabited with a woman of the country; and that she had a son by him about the age of Kokoa; who, though not born then, seemed to be equally well acquainted with the story. We were also informed by Taweiharooa, that this ship first introduced the venereal disease among the New Zealanders. I wish that subsequent visitors from Europe may not have their share of guilt, in leaving so dreadful a remembrance of them amongst this unhappy race." Vol. i. p. 141.

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scription were employed in the expedition. M. Dagelet, of the Academy of Sciences. and M Monge*, both Professors of Mathematics in the Military School, were appointed astronomers; the former embarked on board the Boussole, and the latter in the Astrolabe.

To M de Lamanon, of the Academy of Turin, and corresponding member of the Academy of Sciences, was allotted the department of Geology or natural history of the earth and atmosphere; the Abbé Monges, Canon of St. Geneviève, Editor of the Journal de **Physique**, analizing and examining minerals, and generally to superintend the different branches of natural philosophy. M de la Martinière, Doctor of Physic, graduated at Montpelier, was appointed by M. de Jussieu to the botanical department. He was assisted by M Collignon, one of the King's gardeners who, on the recommendation of M. Thouin, was to cultivate and preserve the plants and seeds we might be able to bring back with us to Europe. Messrs. Prevost, uncle and nephew, were engaged to make drawings of the various objects of natural history. M. Dufresne, a great naturalist, and very expert in classing the different productions of the earth, was appointed for that purpose by the Controller General. And, lastly, M. Duché de Vancy received orders to paint the dresses, landscapes, and in general whatever cannot, as it often happens, be otherwise described. All the learned bodies of the kingdom were upon this occasion earnestly desirous of testifying their zeal for the improvement of the arts and sciences. The College of Physicians and the Academy of Sciences each addressed a memorial to the Marshal de Castries, on the most important objects for ou, attention during the expedition.

• The health of M. Monge became so had from Brest to Teneriffe, that he was obliged to return to France.

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ROUND THE WORLD.

The Abbé Tessier, of the Academy of Sciences, proposed a method of preserving fresh water from corruption. M. du Fourni, Military Architect, furnished observations on trees, and the method of taking the level of the sea. M. le Dru addressed to us a memorial, directing our attention to the variations of the compass in different latitudes and longitudes; and presented us with a dipping-needle constructed by himself, the indications of which he requested us to compare with those of the two dipping-needles, sent us by the British Board of Longitude. I ought also to express my gratitude to Sir Joseph Banks, who having been informed that M. Monneron could not procure a dipping-needle in London, was pleased to lend us those which had been used by the celebrated Captain Cook, which I received not without a sentiment of religious respect for that great man.

M. Monneron, Captain in the corps of engineers, who had attended me in my expedition to Hudson's Bay, embarked as principal engineer. His friendship for me, as well as his partiality for the sea, induced him to solicit this appointment. He was engaged to lay down bearings and draw plans. M. Bernizet, geographical engineer, was his assistant in this department.

In fine, M. de Fleurieu, an old naval Captain, superintendant of the ports and arsenals, himself drew up the necessary charts for the voyage; in addition to which he furnished us with a complete volume of notes and disquisitions of great learning, upon the different navigators from the time of Columbus to the present day. This public testimony of gratitude is due to him for the information he has communicated to me, and the friendship of which he has given me such repeated proofs^{*}.

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* The arts and sciences will share most deeply in the regret which all Europe must feel for the loss of our navigators. The B 4 immense

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The Marshal de Castries, Minister of Marine, who had recommended me to the King for this command, had given strict orders at the different ports that we should be supplied with every thing requisite to ensure the success of the voyage. Lieutenant-General d'Hector, who commanded the fleet at Brest, entered into his views, and attended to the particulars of my equipment with as much zeal as if he himself was to have conducted the expedition.

Being indulged with the choice of all the officers, I appointed to the command of the Astrolabe, M. de Langle, a Captain in the navy, who had commanded the Astrée in my expedition to Hudson's Bay, and had given, on that occasion, the strongest proofs of talents and exalted character. A hundred officers proposed themselves to M. de Langle and myself for this expedition: and all whom we selected were distinguished for their scientific accomplishments. On the 26th of June my instructions were sent me; and on the first of July I set off for Brest, where I arrived on the 4th, and found the equipment of the two frigates in a very forward state. The embarkation of different stores had been suspended, because it was necessary for me to choose between articles of exchange with the savages, and provisions with which I would gladly have stocked myself for several years. I gave the preference to articles for barter, thinking they might procure us fresh provisions; when those on board would be nearly spoiled by keeping. We had also on

immense collection made by their learned coadjutors, and a part of their notes have perished with them. This voyage, highly interesting in its present state, would have presented a most valuable whole, had it not been for this tragical event. If any hope be still permitted, its rays are very feeble, and every day destroys the small remains we are yet willing to cherish.

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ROUND THE WORLD.

board the frame of a decked boat*, of about 2) tons burthen, two Biscay shallopst, a spare main-mast, a rudder check, and a capstan. In short, my ship contained an incredible quantity of stores. M. de Clonard, my first Lieutenant, had stowed them with that zeal and intelligence of which he has afforded such frequent proofs. The Astrolabe had taken on board exactly similar articles. We were in the road on the 11th; but our vessels were so encumbered that it was impossible to heave at the capstan. We took our departure, however, in a fine season, and were in hopes of reaching Madeira without meeting with bad weather. M. d'Hector ordered us to take in harbour moorings, that we might have nothing to do, but slip our cables when the wind should permit us to sail.

On the 12th we were reviewed. The same day, the astronomical clocks by which when in harbour we were to verify the daily rate of the time-keepers, were put on board. These had been accurately observed for a fortnight. Messrs. Dagelet, and Monge, with the other men of science and the artists had reached Brest before me: Messrs. de Langle and d'Escures had observed the rate of the time-keepers before the arrival of the two astronomers; but unfortunately the astronomical clock by which they were regulated, was found so bad, that it was necessary to begin the whole process anew.

In the evening of the 13th, M. Dagelet sent me the following note:

"Upon our arrival at Brest we found an astronomical station established in the garden belonging to the Commissioner's house, where Messrs. de Langle

* A very strong kind of flat-bottomed vessel, used in Holland and Flanders, well calculated for inland navigation.—French Editor.

† Barca longa, long boats, very narrow at the extremities, and fit for navigating a swelling sea.—Fr.nch Editor.

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and d'Escures were engaged in making observations, in order to ascertain the rate of the time-keepers. But as the instruments of the Academy of Brest, and particularly the astronomical clocks they had used, were in the very worst state, they found it necessary to refer every comparison of the time-keepers to No. 25*, which was in the observatory. When our instruments were set up on shore, I determined the rate of my clock by the altitude of the sun and stars; every day comparing the timekeepers, No. 18 and 19, by means of signals from on board, and of which I drew up the following table:"

Days of the Month.	No. 18. LOSS OF TIME, according to mean Time at Paris.			No. 19. LOSS OF TIME, According to mean Time at Paris.		
28th June	36'	46"	8	27'	51''	0
30 ib.	37	7	1	27	47	7
1st July	37	19	0	27	45	0
2 ib.	37	S 1	0	27	44	2
3 ib.	37	39	5	27	45	4
4 ib.	37	51	8	27	44	0
5 ib.	38	5	0	27	42	0
6 ib.	0	Q	0	27	42	1
7 ib.	38	36	7		ditto	
8 ib.	38	49	3	ditto		
9 ib.	39	3	0	27	48	8
10 ib.	39	13	6	27	42	5
11 ib.	39	27	0	stopped		
12 ib.	0	• 0	0	0	36	6
13 ib.	0	0	0	0	36	4

The westerly winds detained us in the road 'till the first of August; during which time we had fogs

* All the time-pieces on board the two frigates were invented and constructed by Ferdinand Berthoud, who has distinguished them by numbers.—*French Editor*.

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and rain; and though I was fearful lest the health of the crews should suffer from the humidity of the weather; yet, in 19 days, we only put one man on shore, who was in a fever.

It set sail from Brest-road on the first of August. Nothing interesting occurred on my passage to Madeira, where we anchored on the 13th. The wind had been constantly fair, a circumstance exceedingly favourable to our vessels, which, from having too muchweight forwards, steered very badly. During the fine nights of this passage, M. de Lamanon. noticed those luminous particles in the salt water, which proceed, in my opinion, from the decomposition of marine substances. Were this light produced by insects, as many natural philosophers assure us, they would not be spread in such profusion from the pole to the equator, and would be most abundant in particular climates^{*}.

No sooner had we cast anchor at Madeira than Mr. Johnston, an English merchant, sent on board my ship a boat-load of fruit. Several letters of recommenda-

* According to the result of the experiments presented by Rigaud, in 1768, to the Academy of Sciences at Paris, we cannot doubt the existence of polypi, or luminous animals in sea-water. I cannot discover on what La Pérouse can rest an assertion combatted by Godeheu, who observed near the Maldives and on the Malabar coast, places where the sea is more luminous than in the parts of which our navigator speaks, and that the water was covered with small luminous animals, discharging an oily liquor which swam upon the surface and emitted a phosphoric light when agitated.

I therefore believe the existence of these animalculæ, supported by the observations of Nollet, Roy, Vianella, Grisellini, &c. 1 am also of opinion, that the phosphoric oil of certain fish arriving at the surface of the water, produces, in part, the luminous appearances observed throughout the surface of the ocean.

In support of my opinion I shall cite the effect of the oil of the bonita, which becomes luminous when agitated. I may also refer to the observations of Forster upon the phosphoric light of sea-water, at the end of Cook's second voyage; and those of Lalande, Journal des Savans 1777.—French Editor.

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tion from London had previously reached him, which greatly excited my astonishment, as I was entirely ignorant of the persons by whom they were written. A kinder reception than Mr. Johnston gave us, we could not expect from our own friends and relations. Having paid our visit to the governor, we went to dine with this gentleman, and the next day breakfasted at the delightfulseat of Mr. Murray, the English Consul, from whence we returned to the town, and dined with M. Moutero, who was Chargé des Affaires of the French Consul. During the whole of that day, we enjoyed every pleasure the most select company or the most marked disposition to oblige, could afford, and were at the same time filled with admiration by Mr. Murray's beautiful villa. From the prospects presented by this charming situation, our attention could only have been diverted by the consul's handsome nieces who soon convinced us no kind of beauty was wanting to this enchanting spot. Had not unavoidable circumstances prevented, it would have afforded us great pleasure to have passed some days at Madeira, where we had met with so polite a reception. But the object of our going on shore could not then be accomplished. The English having raised the wine of this island to an exorbitant price, we could procure none for less than 13 or 14 hundred livres per ton, though it was sold for 6 hundred livres at Teneriffe. I therefore ordered every thing to be prepared for our departure next day, which was the 16th of August. The seabreeze did not subside till six in the evening, when we immediately got under sail. I also received from Mr. Johnston a great quantity of fruits of various kinds, a hundred bottles of Malmsey, half a hogshead of dry wine, some rum, and some preserved lemons. The most flattering civilities from this gentleman, distinguished every moment of my stay at Madeira. We reached Teneriffe after a passage of only three

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days, and anchored there on the 19th, at three in the afternoon. On the 18th, in the morning, I made Salvage island, the eastern part of which I ranged at the distance of half a league. It is very healthy; and though I had no occasion for sounding, I am persuaded there are a hundred fathoms water within a cable's length of the shore. There is not a single tree on this island which is not entirely parched up, and appears to be formed of strata of lava, and other volcanic matter. We took several bearings to determine its direction.

The observations of Messrs. Fleurieu, Verdun and Borda, leave nothing to be accomplished with regard to the islands of Madeira, Salvage and Teneriffe. The sole object therefore of ours was to verify our instruments, and the rate of our time-keepers, which had been determined by M. Dagclet at Brest, with so much accuracy, that we could rely upon them for the longitude during several days. Our landing at Madeira was very convenient for ascertaining what degree of exactitude we might expect from them. The longitude we had observed in sight of land, and referred to that of the town of Funchal, did not differ more than three minutes of a degree from that The short stay we made determined by M. Borda. in this island, did not allow us to erect an observa-Messrs Dagelet, d'Escures, and Boutin, only tory. made some sketches from the bearings taken when at anchor, which I have not laid down, as they may be found in many printed voyages. We were employed on the 18th of August in taking observations off Salvage island ; and I think its longitude may be fixed in 18° 13' west, and its latitude in 50° 8' 15" north.

Upon my first arrival at Teneriffe, I employed myself in establishing an observatory on shore. Our instruments were set up there the 22d of August, and we ascertained the rate of our astronomical clocks by correspondent altitudes of the sun or stars, in order,

der, as soon as possible, to verify the motion of the time-keepers belonging to the two frigates. The result of our observations, provided that the error of No. 19 had only been 18" too slow, since the 13th of July, the last day of our observations at Brest: that our watches, No. 19 and No. 25, had also been too slow; the former 1' 0" 7, and the latter no more than 28": thus in the space of three-and-forty days, the greatest error was but a quarter of a degree of longitude. After some days of uninterrupted observations and comparisons, we established the daily motion of these clocks. M. Dagelet found that No. 19 gained about 2", 55 in 14 hours; No. 29 about 3"6; and No. 25 about 0"8. It is upon these principles this astronomer has drawn up the table of their apparent motions, paying due regard to the corrections required by the variations which different temperatures produce, according to the degrees of the thermometer and of the arches of the balance-wheel. M. Dagelet had his doubts on the mode of constructing the table of variation for No. 19, according to the few data furnished by the experiments made at Paris. He thought it would be very advantageous for those who make use of time-keepers, that the number of experiments should be augmented, and fewer terms left uncalculated, in the intermediate steps which he has been obliged to pursue, in order to obtain these data; especially where the arches of the balance would enter into this species of correction, which renders a table by double entry necessary, and leaves a doubt respecting the manner in which the ordinates of the curve should vary. He made experiments on the simple pendulum on the 27th, 28th, and 29th, of August, and observed the number of oscillations in a given time, in order to determine the force with which bodies gravitate in different latitudes. Several observations of latitude and longitude were made at Santa-Cruz, in Teneriffe, which, we think, may

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be fixed at 18° 36' 30" west longitude, and 28° 27' 30" north latitude. At length we concluded our labours by experiments on the dipping-needle. But we found little agreement in the results, and only mention them to prove how far this instrument still remains from the degree of perfection necessary to procure it the confidence of astronomers. We presume, however, that the quantity of iron with which the soil of Teneriffe is impregnated has greatly contributed to the extraordinary variations we remarked.

On the 30th of August I set sail with the wind blowing fresh from north-north-east. We had taken on board each ship sixty pipes of wine: and were obliged to unstow half our hold, in order to get at the empty casks destined to contain it. This took up ten days; a delay which was, in fact, occasioned by the dilatory conduct of those who supplied us with this wine from Orotava, a small town on the other side of the island.

I have already given an account of the manner in which the astronomers employed their time. Our naturalists also wished to improve theirs while they remained in the road of Santa-Cruz; and therefore set off for the Peak with several officers of both ships. M. de la Martinière collected herbs in his way, and found many curious plants. M. de Lamanon measured the height of the Peak with his barometer, which at the summit of the mountain fell to 18 inches, 4 lines $\frac{3}{10}$: while by an observation made at Santa-Cruz, at the same moment, it was at 28 inches 3 lines. The thermometer which at Santa-Cruz indicated 24 degrees and a half, was, at the top of the Peak, stationary at 9°. I leave every one at liberty to calculate the height; for this method is so loose, that I prefer giving the data without the re-M. Monneron, Captain of the corps of sults*.

* Those who would wish to make the calculations will find the data

Engineers, also made an excursion to the Peak, in order to take its level as far as the sea, which was the only mode of measuring this mountain that had not yet been attempted. Local difficulties. if not absolutely insurmountable, were unable to stop him, as he was extremely conversant in these pursuits. He found that the natural obstacles were much less than his imagination had suggested. For. in one day he had completed every thing in which there was any difficulty. He had reached a kind of plain, very elevated, but easy of access, and in prospect beheld with the greatest joy the termination of his labours, when he experienced, on the part of his guides, difficulties which it was impossible to vanquish. Their mules had not drunk for three days: and neither entreaties nor money could induce their drivers to continue their stay. Thus when he considered his labour almost finished, was M. Monneron obliged to leave imperfect a work which had cost him incredible pains, and considerable expence; for he had been obliged to hire seven mules and eight men to carry his baggage, and assist him in his operations In order, however, not entirely to lose the fruit of his labour, he determined the principal points, and one day more would now be sufficient to complete the level, and afford a conclusion more satisfactory than any hitherto produced by all the different travellers."

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data here omitted in every work of experimental philosophy. But if they wish to calculate with some degree of accuracy in this method of measuring elevations, at best very liable to error, they should not omit such corrections as relate to the temperature of the air. The difference of the logarithms of the heights of the barometer in lines gives the height in toises at 16 degrees and a quarter of the mercurial thermometer, on which the point of boiling water is 80 degrees. The two hundred and fifteenth part should be substracted for every degree of cold. See De Luc, Enquiries on the Modification of the Atmosphere.—French Editor.

* The work of Monneron here announced has not reached our hands.

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The Marquis Branciforte, Governor-General of all the Canary islands, and Field Marshal, never ceased to shew us the greatest marks of friendship during our stay.

We were unable to depart before three o'clock in the afternoon of the 30th of August, and were still more encumbered with stores than at our departure from Brest. But these were diminishing every day, and we had nothing but woou and water to procure 'till our arrival at the Islands of the South Sea. With these two articles I intended to provide myself at Trinidad; for I determined not to touch at the Cape de Verd Islands, which at this season are very insalubrious, and the health of the crews was of the first importance. To preserve this I gave orders to fumigate between-decks, and the hammocs to be taken down every day from eight o'clock in the morning 'till sun-set. But that every one might have sufficient time for sleep, the crew was divided into three watches, so that eight hours of rest succeeded to four of labour. Having no more hands

hands. There is reason to believe he had left his operations in such a state as to be prosecuted by any other traveller. I imagine he made use of the water-level, notwithstanding the inconvenience of this instrument on very steep declivities. If his operations had been finished, he would have decided the dispute between those who, measuring the Peak each his own way, have assigned it very different heights.

However defective, however tedious and difficult this mode of measuring heights may be, these inconveniences vanish before one much in the habit of such employments. It is evident it cannot require more than a thousand stations; and supposing; though almost impossible, an error of three lines in each station, that these errors should not be mutually corrected, and that they should be always plus, or always minus, a thing still less possible; there would at last be an error of only three thousand hnes, or 20 feet 10 inches French. This difference, though barely possible, is nothing when compared with that of the various travellers. For Heberdeen ascribes to the Peak a height of 2,409 toises or fathoms; Feuillée (Memoirs of the Academy of Sciences for the year 1746, p. 140) 2,213. Bouguer 2,100, and Verdun, Borda, and Pingré, 1,904.—French Edutor.

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on board than were indispensably necessary, this arrangement could only take place in calm weather; and I have been under the necessity of reverting to the ancient custom when sailing in stormy seas. Nothing remarkable occurred during our passage as far as the line. The trade-winds left us in 14 degrees N. lat and blew constantly between W, and S.W. 'till we reached the line, and obliged me to run down the coast of Africa, which I did at the distance of 60 leagues

We crossed the line on the 29th of September, in 18° of W. longitude. I could have wished, as my instructions were, to have passed it more to the westward; but fortunately the wind drove us always to the eastward, otherwise it would have been impossible to have made Trinidad; the wind being S.E. at the line, and continuing there 'till we reached 20° 25' N. latitude : so that I always "ept close to the wind, and was unable to get into the latitude of Trinidad nearer than about 25 leagues to the east of that island. Had I made Pennedo de S. Pedro*, I. should have found great difficulty in doubling the eastern point of Brasil. I passed, according to my reckoning, over the shoals, on which the ship Le Prince thought she had touched in 1747. We had no indication of land, except some birds called frigates, which followed us in pretty large flights from the 8th degree of N. to the 3d degree of S. latitude. During all that time our ships were surrounded by tunnies, of which we took but few, they being so large and heavy, that all our fishing lines broke with their weight. Each of those we caught weighed at least sixty pounds.

The dread which some navigators entertain of being, at this season, becalmed under the line, is found-

* To touch at this island was no part of my instructions, it being only suggested as advantageous, if it should not lie out of my track.

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ed in error. We were not a day without wind, and only once had rain; when, indeed, it was so abundant as to fill 25 casks.

The fear of being driven too much to the eastward. into the bottom of the gulf of Guinea is equally chimerical. The S. E. wind is soon met with, and even drives ships too rapidly to the westward; so that had I been better acquainted with this navigation, I should have steered away more large with the S.W. wind which constantly prevailed to the N. of the line, and I should then have crossed it in the latitude of 10 degrees. This circumstance would have permitted me to run, with a free wind, on the parallel of Trinadad. A few days after our departure from Teneriffe, we left those serene skies only found in the temperate zones : instead of which, a dull whiteness, between fog and cloud, always prevailed. The horizon was contracted within less than three leagues; but after sun-set the vapour was dissipated, and the nights were constantly fine.

On the 11th of October we took many observations of distances between the sun and moon, in order to ascertain the longitude, and prove the rate of our time-keepers. By the mean result of ten observations taken with quadrants and sextants, we found our longitude 25° 15' W. That indicated by the time-keeper, No. 19, at three in the afternoon, was 25° 47'. We afterwards repeated the tame sort of observations.

On the 12th, about four o'clock in the afternoon, the mean of our observations gave 26° 21', and at the same moment the time-keeper, No. 19, gave 26° 33' for the longitude of the ship. On comparison, it appears that the longitude indicated by the time-keeper, No. 19, is 12 minutes more to the W. than that obtained by observation. By these operations we have fixed the longitude of the islands of Martin-Vas and Trinidad. We have also ascer-C 2

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tained their latitudes with great exactness, not only by taking the sun's meridian altitude with precision, but also a great number of altitudes near the meridian, and reducing them all to the true time from noon, inferred from corresponding altitudes. The greatest error arising from this method cannot exceed twenty seconds.

On the 16th of October, at ten in the morning, we descried the islands of Martin-Vas five leagues to the N.W. They ought to have been seen in the west, but the currents had driven us 13 miles to the southward in the night. The winds unfortunately having blown, till then, constantly from the S.E. obliged me to make several boards, in order to near those islands, which I passed at about the distance of a league and a haif. Having accurately determined their situation, and taken several bearings to enable me to delineate relative positions on the chart, I hauled close to the wind, on the starboard tack, steering for the island of Trinidad, distant from Martin-Vas about nine leagues W. by S. These islands of Martin-Vas are, in fact, mere rocks; the largest of which may perhaps be a quarter of a league in circumference : there are three little islands, separated from each other by small intervals, which, seen from a distance, appear like five heads.

At sun-set I made the island of Trinidad, bearing W: 8° N. The wind being constantly at N.N.W. I passed the night in standing off and on, keeping to the E.S.E. of the island. When day appeared I continued on the land tack, hoping to find smoother water, under shelter of the island. At ten in the morning I was but two leagues and a half from the S.E. point, which bore N.N.W.; and I perceived, at the extremity of the creek formed by that point, a Portuguese flag hoisted in the middle of a small fort, surrounded by five or six wooden houses. The sight of this flag excited my curiosity; and I determined

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termined to send a boat on shore to procure intelligence concerning its cession and evacuation by the English. For I already began to perceive, that at the island of Trinidad I could procure neither the wood norwater wanted. A few trees only could be perceived on the summit of the mountains The sea broke every where so violently, that it could not be supposed a boat could easily land. I therefore resolved to beat up with the wind on the beam all day, in order to be at day-break sufficiently to windward to gain the anchorage, or, at least, to send my boat on shore. At night I hailed the Astrolabe to apprize her of my intended manœuvre; and added, that we should observe no order in tacking, as, at sun-rise, the creek of the Portuguese establishment was to be our rendezvous. I instructed M. de Langle, that whichever of our ships should be nearest the shore, should send a boat to ascertain the resources this port might offer. The next morning, October 18th, the Astrolabe being but half a league from shore, sent off her long-boat under the command of M. de Vaujuas the lieutenant, accompanied by M. de la Martinière and Father Receveur, an indefatigable naturalist. They went quite up the creek, between two rocks. But the surf was so great, that the boat and her crew would infallibly have been lost, but for the prompt assistance of the Portuguese, who hauled the boat upon the beach to shelter it from the fury of the sea. Every thing was saved excepting a small anchor. At that station M. de Vaujuas counted about two hundred men, of whom 15 only were in uniform, the rest in their shirts. The governor of this establishment, which being quite uncultivated, is not worthy the name of a colony, told him the governor of Rio Janeiro had, about a year before, caused possession to be taken of the island of Trinidad. Heeither did not or pretended not to know, that it had been previously in possession of the Eng-3 3 lish:

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lish : but we cannot depend much on any thing mentioned to M. de Vaujuas in this conversation. The governor, who thought himself under the necessity of disguising the truth on every subject, pretended that his garrison consisted of 400 men, and that his fort was defended by 20 pieces of cannon : though we are certain there was not a single battery in the establishment. This officer so much dreaded our discovering the miserable state of his government, that he would never permit M. de la Martinière and father Receveur to leave the beach in search of plants. After having manifested to M. de Vaujuas every external mark of politeness and good-will, he pressed him to return on board, assuring him the island produced nothing; that supplies of provisions were sent every six months from Rio-Janeiro; that he had scarcely a sufficiency of wood and water for the garrison : and even these he was obliged to procure at a great distance on the mountains. His detachment, however, assisted us in launching our long-boat.

At day-break I sent a boat on shore under the command of lieutenant Boutin, accompanied by Messrs. de Lamanon and Monneron; but I forbad M. Boutin to land, if the Astrolabe's boat had arrived before him : in which case he was to sound the road, and make as accurate a survey as possible in so short a time. Accordingly M. Boutin did not approach within musket-shot of the shore; and in all his soundings he met with a rocky bottom, mixed with a small portion of sand. M. Monneron took a drawing of the fort with as much exactness as if he had been on the beach; and M. de Lamanon was near enough to perceive that the rocks were nothing but basaltes^{*}, or substances that had been in a state of fusion, the remains of some extinguished volcanos.

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This opinion was confirmed by father Receveur, who brought on board a great number of stones, all volcanic, as well as some of the sand, which was only found mixed with fragments of shells and coral. As, according to the report of M. Vaujuas, and M. Boutin, it was evident we could not, at the island of Trinidad, get either the wood or water we wanted, I determined immediately to steer for the island of St. Catharine on the coast of Brasil. This was the place where the French ships, bound for the South-sea, used formerly to touch; and at which Frézier and admiral Anson found an abundant supply for all their wants. In order not to lose a single day, I gave St. Catharine's the preference to Rio-Janeiro, where the necessary formalities would have consumed too much time. But, in shaping my course for St. Catharine's, I wished to be assured of the existence of the island of Ascension, which M. Daprès has placed 100 leagues W. of Trinidad, and only 15 miles more to the southward. According to the Journal of M. Poncel de la Haye, who commanded the Renommée, I was certain several navigators, and among others Frézier, a very well informed man, thought they had landed on Ascension island, when, in reality, they had only been on that of Trinidad. Not withstanding the authority of M. Poncel de la Haye, I conceived this point of geography required fresh illustration. The two days we passed to the southward of Trinidad, enabled us to take bearings from which M. Bernizet delineated the plan of the south-side of the island. It differs but little from that of Doctor Halley, which had been sent me by M. Fleurieu. The view painted by M. Duché de Vancy is so remarkably accurate, that it will alone prevent any navigators that may land on the south side of Trinidad from falling into an error. That island presents to the eye nothing but a rock almost naked and barren; where no verdure, no shrubs, are C 4 seen

seen but in the narrow defiles of the mountains. It is in one of these vallies to the S. E. of the island which is only about 300 toises broad, that the Portuguese have formed their establishment.

Nature had never designed this rock to be inhabited, for it can furnish neither men nor animals with subsistence. But the Portuguese are fearful lest some European nation may avail themselves of its vicinity to establish a smuggling trade with Brazil: and to this motive alone we must ascribe the eagerness they have discovered to seize upon an island, which, in every other point of view, must be a mere burthen.

Latitude of the largest of the Martin-Vas isles, 20° 30' 35" south.

Lougitude, by lunar observations, 30° 30' west. Latitude of the south-east point of the island of Trinidad, 20° 31' south.

Longitude, by lunar observations, 30° 57' west.

On the 18th of October, at noon, I stood to the westward for the island of Ascension till the night of the 24th, when I abandoned the search. I had then run 115 leagues west; and the weather was sufficiently clear to see 10 leagues a-head. Thus, I may aver, that having directed my course on the parallel 20° 32' with a view north and south of, at least, twenty, and having laid-to every night, after the first 60 leagues, when I had run the distance perceived at sun-set—I say, I may aver that the island of Ascension exists not from the meridian of Trinidad to about seven degrees west longitude, between the latitudes of 20° 10', and 20° 50', my view having embraced the whole of that space.*

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* La Pérouse may be right in advancing that navigators have erroneously imagined they landed on Ascension Island, while, in fact, they touched at that of Trinadad. Not attending to the resemblance which runs through the former descriptions of these two

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On the 25th of October we experienced a most violent storm. At eight in the evening we were surrounded by an horizon of fire; while lightning burst from every part of the heavens. A cone * of fire appeared on the point of the conductor: a phenomenon which was not confined to our ship: for the Astrolabe, not being furnished with a conductor, had also the

two islands, proves that they have committed this error. For, from these charts, they might indifferently suppose they were on the one or the other, their latitude being nearly the same, and their longitude very imperfectly ascertained. But these proofs are not sufficient for the enlightened geographer; whereas the authentic testimony of Daprès, in his *Neptune Oriental*, page 10, and the minute and very different plans which Dalrymple has given of these two islands and appearance, prove, beyond doubt, they are not the same.

Had La Pérouse felt greater confidence in the materials furnished him, he might on this subject have made a very easy calculation.— The W. long. of the north coast of Trinidad, was there fixed at 32° 15', and he himself found that of the S. E. point no more than 30° 57'.

According to the meridian of Rio-Janeiro, which is fixed at 45° 5', the coast of America, under this parallel, may be calculated at 43° 30'. Daprès fixes the longitude of Ascension Island at 38°, because he believes it to be 120 leagues from the coast. I have reason to think it still nearer. Hence, it is evident, La Pérouse has not pushed his researches far enough, and that having sailed about seven degrees upon this parallel, after his departure from Trinidad, he abandoned his object at the very moment of its attainment.

To the data of these two authors, so valuable on account of their exactness, whom I have just cited, I shall add, that since writing this note I have accidentally met with a navigator (Lépine, a halfpay lieutenant) who has touched at both these islands, and who, not being provided with instruments, to determine their longitude with precision, has only fixed their latitude.

* I am not in the least astonished that a ball of fire should also have rested on the mast-head of the Astrolabe, knowing from the accounts of La Pérouse, that this ship was never out of hail of the Boussole. Every one knows that when the electric fluid enters by a point, it appears as a spart, but in flying off from one has

the same appearance on her mast-head. From that day the weather was constantly foul till our arrival at St. Catharine's; and we were enveloped in a fog thicker than those on the coast of Brittany in the

has the appearance of a luminous cone. The earth is the grand reservoir of electric matter, and water is its best conductor. It appears then that when a low cloud, negatively electrified, passes over a vessel, the masts and yards serve as conductors, and we see conic fire from all the extremities directed towards the cloud.

It is evident that a vessel furnished with a conductor, must have at its point a cone of a much more beautiful appearance, on account of its chain, which has a direct communication with the sea; while without that instrument it only communicates the fluid, by means of tarred wood, which is a very bad conductor.

On the same principle we may sometimes observe electric fire on the surface of the sea, of which the following experiments are a convincing proof, and may be depended on, as I have frequently performed them in my closet.

Electrify a quantity of water in a vase of glass or metal; but, in the latter case, place it upon an insulated stool. Then, in the dark, present your finger to the surface of the water, not close enough to draw sparks, but so as to make the water rise, when a luminous cone will arise in the direction of your finger.

In this experiment the finger produces the effect of a cloud. But it will be said, perhaps, that the sea does not, like the bason, contain a superabundant quantity of electric matter. Should this argument leave any doubt, the following experiment may be made:

Take a metal bason filled with water; let this bason communicate with the earth, by means of a chain or any other conductor; electrify strongly the outside of the Leyden vial, by which the inside will be electrified negatively: place this vial upou an insulated stool, that you may be able to take hold of it by the outside without discharging it. Then present the knob of the bottle at a certain distance from the surface of the water, as you did your finger in the former experiment, and you will produce the same effect.

If in the first experiment, instead of your finger you make use of the knob of the vial electrified minus, you will produce a stronger effect, as the electric fluid will make a greater effort to escape from the water when electrified plus into the vial, which is electrified minus.

This principle once laid down and demonstrated, will develope the theory of electric vapours producing explosion, which are much more frequent than is generally imagined. But this digression, which has no connection with the subject, would lead me too far.—French Editor.

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the midst of winter: We cast anchor on the 6th of November, between the island of St. Catharine and the continent, in seven fathoms water, with a bottom of oosy saud. The middle of the island of Alvaredo then bore north-east, Fleming's Island south by dast, and the island of Gal north. wet at the think Though our voyage had now continued ninety-siz eys, we had not one man on board sick. The change of climate, the rains and fogs, had produced no effect on the health of the crews. But our provisions were of excellent quality; for I had neglected no precaus tion that experience or prudence could suggest. We did our utmost to keep up their cheerfulness, and encouraged them to dance every night from eight till ten, whenever the weather would permit.

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TIONS AND EVENTS DURING OUR STAY-DEPARTURE FROM ST. GATHARINE'S-ARBIVAL AT LA CONCEPTION.

THE island of St. Catharine extends from 27° 19' 10". to 27' 49' south latitude ; and its breadth from east to west is not more than two leagues in the narrowest part. It is separated from the continent only by a channel of 200 cosses in width. On the point at the mouth of this strait is built the city of Nossa Senhora del Desterro, the capital of this commandery, where the governor resides. It contains, at most, 3000 inhabitants, and about 400 bonars ; and wears a very agreeable appearance. Acsurging to Frézier's account, this island served, in the year 1719, as an asylum for a set of vagabonds, who escaped thither from different parts of Brazil, and

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and were but nominally subject to Portugal, as they acknowledged no lawful authority. The country is so fertile that they were able to subsist without any supplies from the neighbouring colonies; and as they were destitute of money, they could neither offer a temptation to the avarice of the governor-general of Brazil, nor inspire him with a hope of subduing them. The yessels which touched there gave them nothing in exchange for provisions but clothes and shirts, of which they were almost destitute. Not till towards the year 1740 did the Court of Lisbon establish a regular government in St. Catharine's, and This governthe parts adjacent on the continent. ment extends from north to south 60 leagues, from the river St. Francisco to Rio-Grande. Its population amounts to 20,000; but I have seen so great a number of children in some families, that I think it will soon be more considerable. The soil is extremely fertile, and produces, almost spontaneously, all sorts of fruits, vegetables and grain. It is covered with trees that are always green; but so intermixed with briars and thorns, that the forests are impassable, without cutting away with the hatchet; besides which they are infested with serpents whose bite is mortal. Their houses, both on the island and continent, are all on the edge of the sea: and the woods, which surround them, yield a most delightful fragrance, from the abundance of orange-trees, and other aromatic plants and shrubs, with which they abound. But, notwithstanding these advantages, the country is very poor, and absolutely destitute of manufactures; insomuch, that the peasants are almost naked, or covered with rags. Their soil, which would be very suitable for the cultivation of sugar, cannot be employed for that purpose without slaves, whom they are not rich enough to purchase. The whale-fishery is very productive, but the crown has conferred an exclusive right to it on a company

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at Lisbon This company has, upon the coast, three great establishments, where they take about 400 whales every year, the produce of which, both in oil and spermaceti, is sent to Lisbon. by way of Rio-Janeiro. Of this fishery the inhabitants are merely spectators, for it yields them no profit; and if the government do not relieve them, and grant them immunities or other encouragements, one of the finest countries on the face of the globe will languish for ever in the depression of poverty, and become useless and burthensome to the mothercountry.

The approach of ships to St. Catharine's is very easy. Lighteen leagues in the offing there are 66 fathoms water, over a bottom of soft mud, gradually shoaling till within four cables length of the shore, where there is still four fathoms water.

The ordinary channel is between the island of Alvaredo and the north point of St. Catharine's : but there is another between the islands of Gal and Alvaredo, which however requires yet to be explored. Our boats were so much employed during our stay, that I could not take the soundings. The best anchorage is half a league from Fortress Island, in six fathoms, oozy bottom, the citadel bearing S. 3° W. the fort on the larger point S. 6° E. There are several watering places both on the island and the continent; and that creek may be chosen where the wind renders the landing most easy. This consideration is of great importance; for the navigation of boats is very difficult in this harbour, which is two leagues wide as far as the bight where the town stands : and there is a violent surf always breaking on the lee shore. The tides are very irregular: and the flood comes in between the two channels lying north and south Up to this bight it rises but three feet.

It appeared that our arrival had spread great terror through

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through the whole country. The different forts fired several alarm guns, which determined me to cast anchor early, and send my boat on shore with an officer, to make known our pacific intentious, and our want of water, wood, and refreshments. M. de Pierrevert, whom I employed on this occasion, found the little garrison of the citadel under arms, cousisting of 40 soldiers, commanded by a captain, who immediately dispatched an express to the city, to Governor Don Francisco de Baros, Brigadier-General of Infantry. He had been apprised of our expedition by the Lisbon Gazette; and a bronze medallion that I sent him left no doubt respecting our object in touching there. The most precise and speedy orders were issued, that every thing necessary should be furnished us at a fair price : and an officer appointed to each frigate, who was entirely at our command. We sent him with the clerks of the commissary of stores to purchase provisions of the inhabitants. On the 9th of November I removed nearer the fortress, from which I had hitherto been at some distance. I went, the same day, with M. de Langle and several officers, to pay a visit to the commander of this post, who saluted me with 11 discharges of cannon, which were returned by my ship. Next day I sent my boat, under the command of Lieutenant Boutin, to the city of Nossa-Senhora del Desterro, to make my acknowledgements to the Governor for the great abundance his attentions procured us. Messrs. de Monneron, de Lamanon, and the Abbé Mongès. accompanied this officer, together with M. de la Borde Marchainville, and Father Receveur, who had been dispatched by M. de Langle for the same purpose; they were all received with the utmost politeness and cordiality.

Don Francisco de Baros, governor of this commandery, spoke French with perfect ease, and his comprehensive knowledge inspired us with the fullest

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fullest confidence. Our friends dined with him, and were informed at dinner, that the supposed island of Ascension had no real existence, although the Governor-General of Brazil had, upon the testimony of. M. Daprès, dispatched a vessel the preceding year. tosurvey all the points formerly laid down as parts of that island; and the captain of the vessel having; found none of them, it had been expunged from the charts, that an ancient error might not be perpetuated*. He added, that the island of Trinidad had always formed a part of the Portuguese possessions, and that the English had evacuated it on the first requisition of the Queen of Portugal; the Englishminister adding that the nation had never given its sanction to this establishment, which was no more than a private adventure.

At eleven o'clock the next day, the boats of the Astrolabe and Boussole returned, and announced an early visit from the Major-General of the colony, Don Antonio de Gama, who did not however arrive till the 13th, when he brought me a most obliging letter from the Governor. The season was so far advanced that I had not a moment to lose. Our crews enjoyed the finest health, and I had flattered myself on my arrival that I should provide for all our wants, and be ready to set sail in five or six days. But the southerly winds and the currents were so violent, that all communication with the land was

[•] It would be injurious to the improvement of navigation, and fatal to navigators, to adopt this method of effacing from our charts, islands formerly discovered, because they have been sought in vain, or their position uncertain, through paucity of the means of laying them down accurately at the period of their discovery.

I ought to oppose this method the more earnestly, as I have proved the existence of Ascension island. In thus effacing islands from the globe, we become, in some measure, responsible for the dangers incurred by navigators when they fall in with them, lulled into security by their charts; whereas, if laid down, though uncertain, yet by rousing the attention of the navigator, they may assist him more easily to find them.—French Editor.

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frequently interrupted; a circumstance which retarded my departure.

I had chosen St. Catharine's in preference to Rio-Janeiro, merely to avoid the ceremonious formalities of great cities, which always occasion a loss of time. But experience taught me that this harbour united several advantages. Provisions of every kind were extremely plentiful; a large ox cost eight plastres, a hog of 150 lb, weight cost four, and turkeys were sold for a plastre the pair. We had only to throw the net in order to draw it up full of fish. Oranges were brought on board and sold to us at the rate of 500 for less than half a plastre, and vegetables were also very reasonable. The following fact will give some idea of the hospitality of this good people. My boat having been overset by the surf, in a creek where the crew were cutting wood, the inhabitants who assisted in saving it, obliged our sailors who had been cast away, togo into their beds; sleeping themselves on matts in the middle of the room which was the scene of this affecting hospitality. A few days after, they brought on board the sails and masts of the boat with its grapnel and flag, objects of great value in their estimation, and which would have proved of the utmost utility in their canoes. This people are good, obliging, and of gentle manners; but they are very superstitious, and jealous of their wives, who never appear in public.

Our officers shot many birds of most brilliant plumage, among others a rollier, a bird of a remarkably fine blue; which, though not described by Buffon, is very common in this country.

Not having foreseen the obstacles which detained us twelve days in the road, we did not land our astronomical clocks, supposing we should not lie at anchor more than five or six days; a circumstance which, however, caused but little regret, as the sky was constantly cloudy. We therefore determined the 1785.]

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the longitude of this island by the moon's distance from the sun, and according to our observations, the most north-easterly point in St. Catharine's, may be fixed in 49° 49' W. longitude, and 27° 19' S. latitude.

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On the evening of the 16th, every thing being on board, I sent my packets to the Governor, who had undertaken to send them to Lisbon, where I addressed them to M. de Saint-Marc, our Consulgeneral; every one being permitted to write to his family and friends. We flattered ourselves with setting sail the next day, but the north wind, which would have been so favourable to us had we been out at sea, detained us in the bottom of the bay till the 19th of November. I then weighed at break of day, but the calm obliging me to cast anchor again for some hours, I did not clear all the islands till night.

We had purchased at St. Catharine's oxen, hogs, and poultry sufficient for the ship's crew for more than a mouth, and had added some orange and lemon trees to our collection, which, ever since our departure from Brest, had been well preserved in cases made at Paris under the eye and direction of M. Thouin. Our gardener was also furnished with the seeds of oranges and lemons, grains of rice, maize and cotton, and in general every species of esculent plant, of which navigators have described the inhabitants of the South Sea to be destitute, and which are more analogous to their climate and mode of living than the pot-herbs of France, of which we also carried an immense quantity of seeds.

The day of my departure I sent to the Astrolabe new signals of much greater extent than those we had hitherto used. We were going to navigate in the midst of fogs, and in the most stormy seas; circumstances which required additional precautions. It was also agreed with M. de Langle, that in case Vol. 1, D of

of separation our first rendezvous should be Port Success, in the Straits of Le Maire, supposing us not to have already passed beyond its latitude by the 1st of January, and the second, Venus Point: in the island of Otaheite. I further informed him, that I should limit my researches in the Atlantic Ocean to l'Isle Grande de la Roche, having no longer time to seek a passage to the southward of the Sandwich islands. I then regretted extremely that I could not begin my researches to the eastward; but I did not dare to pursue a measure so contrary to the plan adopted in France, because in that case I could no where have received the Minister's letters which had been announced to me, and which might contain the most important instructions.

The weather was very fine till the 28th, when it blew a very heavy gale from the east, for the first time since our departure from France; and I saw with infinite pleasure that if our ships sailed very badly, they behaved very well in foul weather, and would be able to withstand the rough seas we had to We were then in 35° 4' south latiencounter. tude, and 45° 40' west longitude : I steered E.S.E. because 1 proposed in my search after l'Isle Grande to get into its latitude ten degrees to the eastward of the place assigned it in the different charts. I did not shut my eyes to the extreme difficultics I should have to struggle with; but, in all events, I was under the necessity of running very far to the westward in order to reach the Straits of Le Maire; and all the way I should make on that point of the compass, pursuing the parallel of l'Isle Grande, brought me nearer the coast of Patagonia, the soundings of which I was obliged to take before I doubled Cape Horn, The latitude of l'Isle Grande not being perfectly determined, it was more probable I should meet with it in plying between 44° and 45° of latitude than if I steered a direct course in 44° 30', as I might do in

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in sailing from west to east, the wind blowing as constantly from the west in these latitudes as from the east between the tropics.

It will presently be perceived that I derived no advantages from these considerations, and that after 40 days fruitless research, during which I met with five heavy gales of wind, I was obliged to direct my course for my ulterior destination.

On the 7th of December I was on the pretended parallel of l'Isle Grande in 44° 38' S. latitude, and 34° W. longitude, according to a lunar observation taken the preceding day, when we saw a species of the sea-weed called goémon pass us, and were for many days surrounded with birds of the albatross and petrel kind, which never approach the land but in the season for laying.

These feeble indicia of land, however, kept our hopes alive, and reconciled us to the dreadful seas we were navigating. But I was not without disquietude when I considered that I had 35° to run back to the westward, as far as the Straits of Le Maire, which it was of great importance to reach before the end of January.

I kept plying between 44° and 45° S. latitude, till the 24th of December, and ran down 15° of longitude on this parallel, and in the 27th of Decemberabandoned my attempt, being convinced the island of La Roche had no existence^{*}, and that the goémon and petrels by no means prove the vicinity of land, since I met with sea-weeds and birds till I made the coast of Patagonia. The chart on which ourdaily run is traced will exhibit the track I followed

^{*} If l'Isle Grande de la Roche could have been placed in the maps with more certainty, La Pérouse, in traversing the parallel assigned him, might have been assured that it did not exist. But as its position has never been exactly determined, on account of the defective journals of Anthony de la Roche, and Vespucius Americanus, the researches of La Pérouse only prove that it does not exist in the position indicated.—French Editor.

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much more clearly than these details, and I am convinced that navigators who may succeed me in this research will not be more fortunate than myself: but they ought not to pursue this course except when they are steering E. towards the Indian Ocean, where it is not more difficult or more tedious to run 30% on this parallel than on any other; and if they find no land they will at least have pursued a course approaching the object. I ampersuaded l'Isle Grande, like that of Pepis, has merely a chimerical existence*, and that the report of La Roche, who pretended to have seen great trees there, is void of all probability. It is very certain that in 45° nothing but shrubs can be found upon an island placed in the midst of the southern ocean, since not a single large tree is to be found on the islands of Tristan d'Acunha, a latitude infinitely more favourable to vegetation.

On the 25th of December, the wind settled in the S. W. quarter, and continued there several days, which obliged me to steer W N.W. and quit the parallel I had constantly followed during 20 days. As I had then passed the point assigned in all the maps to l'Isle Grande de la Roche, and the season was far advanced, I determined to steer that course which would most accelerate my progress to the westward, much fearing lest I should be exposed to double Cape Horn in the stormy season. But the weather was more favourable than I hoped. The heavy gales ceased with the month of December, and the month of January was nearly as pleasant as that of

• I know that New Georgia, as mentioned in the Journal of La Roche, has a ain been found, but I am much in doubt whether we ought to ascribe to him the honour of this discovery. Aceording to his Journal there is a strait of ten leagues between the Isle of Birds and Georgia, while in reality this strait is not more than one league; a mistake too great for the most inexperienced mariner to make, had he been speaking of the same place. It is however from the former place the departule should be taken, in order to place l'Isle Grande between 43° and 54° of longitude, for I have crossed every meridian from 35° to 50° withoutd scovering it. July

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July from carry were ance when by en The n cloud hours theco sure t round that d N. to We smoot gates a cons almost genera the cr sufficie The sa but I keep :t ind albatr varieti highly ducks scribe Cook, Banks satisfa At the so and 6

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July on the coasts of Europe. The wind only blew from the N.W. and S.W. But we were able to carry all our sails; and these changes of the wind were always so distinctly aunounced by the appearance of the sky, that we were certain of the moment when the wind was going so shift, and were thereby enabled to run on the most advantageous tack. The moment the horizon became hazy, and the sky cloudy, the S.W. wind shifted to the west, and two hours afterwards it came round to the N.W.: on the contrary, when the haziness disappeared we were sure the wind would not be long before it, came round by the W. to the S.W. I do not believe that during 66 days sailing the wind veered from N. to S. by the E. more than 16 hours.

We had some days of calm weather, with a smooth sea, during which the officers of both frigates formed shooting parties in the boat, and killed a considerable quantity of fowls with which we were almost always surrounded. This sport, which was generally productive, procured fresh provisions for the crew, and it often happened that we killed a sufficient quantity to make a general distribution. The sailors not only preferred them to salt meat, but I believe they contributed infinitely more to keep them in good health.

In our different excursions we killed nothing but albatrosses of the large and small kind, with four varieties of petrels. These birds when skinned and highly seasoned were nearly as good as the wild ducks eaten in Europe. They have been well described by the naturalists who accompanied Captain Cook, and are the same as those of which Messrs. Banks, Solander, and Forster have given the most satisfactory descriptions.

At length on the 14th of January we came into the soundings of Patagonia, in 47°, 50' S. latitude, and 64° 37' W. longitude, according to our last D 3 lunar

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lunar observations, for which we never suffered any opportunity to escape when the weather was favourable. The officers of the ship were so accustomed to it, and seconded M. Dagelet so assiduously, that I do not believe our greatest error in longitude could exceed half a degree.

On the 21st we made Cape Fair-Weather, on the north point of the river Gallegos, on the coast of Patagonia, being three leagues from the land in 41 fathoms water, over a bottom of small clayey stones about the size of peas. Our longitude determined at noon, differed from the chart in Cook's second voyage only 15', which we were more to the eastward. We sailed along the coast of Patagonia at a distance of between three and five leagues from shore.

On the 22d at noon we set Virgin's Cape, bearing four leagues west. This land is low and without verdure. The view of it given by the editor of Admiral Anson's Voyage appeared to me very exact, and its position is determined with perfect accuracy in the chart of Cook's second voyage.

The scandings as far as Virgin's Cape always bring up soft mud, or those small stones mixed with ooze, which are generally found in a line with the mouths of rivers. But on the coast of Terra del Fuego we had always a rocky bottom, and only from 24 to 30 fathoms water, though at the distance of three leagues from the land, which makes me think this coast is not so bold as that of Patagonia.

The charts of Captain Cook have determined with the most perfect accuracy the latitude and longitude of the different capes of this coast.

The bearings of the coasts are delineated from exact surveys, but the minutiæ, in which consists the security of navigation, have not been attended to with sufficient care. Neither Captain Cook nor any other navigator can answer for more than the tracks

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he ks tracks they have followed, and the soundings they have taken; and it is possible that in smooth water they may have passed by banks and shoals, which did not then break, so that this navigation requires infinitely more caution than that of our European continents.

I have entered into these particulars with a view to point out the degree of confidence to be placed in these sort of charts, doubtless the most accurate that can be constructed in a rapid passage over a great extent of sea. It was impossible for the old navigators, before the method of taking lunar observations, to approach this degree of precision, which is such, that within 20 minutes, I can rely upon the points we have verified, as fully as on the longitude of the observatories of London and Paris.

On the 25th, at two o'clock, I had Cape St. Diego bearing south one league, that being the western point of the Straits of Le Maire. I had since the morning kept at that distance from the shore, and followed on Captain Cook's chart the bay where Mr. Banks landed in search of plants, while the Resolution waited for him under sail.

The weather was so favourable that it was impossible for me to shew the same compliance to our naturalists. At three o'clock I entered the strait, having doubled point St. Diego at the distance of about tof a league, where there are breakers which I believe do not extend more than a mile: but, having observed the sea to break more in the offing, I steered S.E. that I might increase my distance from the breakers. I soon perceived this appearance was occasioned by the currents, and that the reefs of Cape St. Diego were at a considerable distance.

Asitblew fresh from the northward, and it was in my power to approach Terra del Fuego, I ran along it half aleague from the shore. The wind was so rayourable, and the season so far advanced, that I determined D 4 immediately

LA PEROUSE'S VOTAGE

immediately to give up the idea of touching at Success Bay, and endeavour to double Cape Horn. I considered that it was impossible to provide every thing I wanted in less than ten or twelve days, and that this time had been absolutely necessary at St. Catharine's; because, in these open bays where the sea breaks with violence on the shore, for half the day boats cannot land. If to these inconveniences were added the south winds, which might have for some time detained me in Success Bay, the favourable season would elapse, and I should expose my ship to dangers, and my crew to fatigues, very prejudicial to the success of the expedition.

These considerations determined me to steer for the island of Juan Fernandez, which lay in my course, and where I could procure wood and water, with some refreshments far superior to the penguins of the Strait. At this time I had not one sick man on board. Fourscore casks of water remained unbroached, and Terra del Fuego has been so often visited and described, that I could not flatter myself with adding to what had been already said of it.

During our passage through the strait of le Maire, the savages, according to custom, kindled great fires to induce us to anchor. We observed one on the north point of Success Bay, and another on the north point of Valentine's Bay. I am persuaded, with Captain Cook, that ships may anchor indifferently in all these bays. There is plenty of wood and water, but doubtless less game than at Christmas Harbour, on account of the savages who frequent them great part of the year.

While navigating this strait about half a league from Terra del Fuego, we were surrounded by whales, who, it is evident, had never been disturbed, for our ships did not at all alarm them. They swam majestically within pistol shot of us, and will remain sovereigns of these seas, till fishermen wage that the seas, till fishermen wage on

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on them the same war as the adventurers of Green land do in the north. There is not, perhaps, a better spot on all the globe for this fishery. A Vessels would find anchorage in excellent bays, abounding in wood and water, as well as some antiscorbutic herbs and sea-fowl, and theirboats, without quitting them more than a league, might take all the whales they wanted to complete their cargoes. Their only inconvenience would be the length of the woyage, which would require nearly five months for the passage out, and the same home; and I believe. these latitudes can only be frequented during the months of December, January, and February. minis We were unable to make any observations respecting the current of the Straits, for we entered them at three o'clock in the afternoon, when the moon was 24 days old, and they carriedous with violence to the southward till five, when the tide changed, But as we had a fresh breeze from the north, we stemmed it with easen. The horizon was so foggy towards the east, that we had not perceived Staten Island ; from which, however, we could not be five leagues distant; that being the whole breadth of the Strait, But we had passed so nean Terra del Fuego, that we observed with our telescope some savages lighting great fires, their only means of communicating their desire of inviting vessels on shore. Another motive yet more powerful, determined me to abandon my design of putting into Success Bay. For I had been a long time forming a new plan, on which I could not determine till after I had passed Cape Horn. anone My design was to go to the N., W., coast of America that year ; a route which although Lahad received no such instructions, I knew had only been suppressed through fear that I should not liave time to perform so long a voyage before winter : for this plan would otherwise have united a great numver of advantages. In that case I should pursue a 11.11 new

new route, and cross latitudes, where I might possibly discover many unknown islands. I should also visit much sooner all the places of my destination, for which a stay of two years had been allotted in the northern, and two in the southern hemisphere, my instructions expressly permitting me to execute his Majesty's commission in the manner which should appear to promise most success to the expedition; for the final adoption of my plan, therefore, I only waited to know at what time I should arrive in the South Sea.

I doubled Cape Horn with much greater facility than I expected : though I am now convinced that this navigation is not more hazardous than any other in these high latitudes. The dangers we dreaded were only the chimerical offspring of an ancient prejudice, which ought no longer to exist, and which the reading of Anson's voyages contributes not a little to support among navigators.

On the 9th of February I was off the mouth of the Straits of Magellan, in the South Sea, steering for Juan Fernandez. By my reckoning I had passed over the supposed situation of the land which Drake pretended to have discovered; but I lost little time in search of it, being convinced it did not exist. Since my departure from Europe, the tracks of the ancient navigators had occupied all my thoughts. But their Journals are generally so ill compiled, as to afford little more than hints and conjectures; and those geographers who are not seamen, are generally ignorant of these matters, and unable to investigate, with critical accuracy, accounts which require a strict and distrustful examination. Consequently they have laid down islands which never existed but in charts, and, being mere phantoms of the imagination, soon disappeared before our modern navigators.

In 1578, five days after his departure from the Straits of Magellan, Admiral Drake met with very heavy

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heavy gales of v continued near on his various. an island in 57 marked great f northward for otherislandsin These islands p Who but wou Terra del Fueg bably, on the nearly in the l At that time ' Maire and Sch which is name neral opinion b there existed northern hemis the neighbourl of America was one of which, 1 discovered. I to mislead Ad currents 12 or oning, as it has other navigato nion, so proba when we refle which had str Commodore s Straits of Ma evident proof ward, and that thelongitude tremely impr continent, an with trees, wh Islands, which

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heavy gales of wind in the great southern ocean, which continued near a month. It is difficult to follow him on his various courses, but at length he touched at an island in 57? S. latitude, where he landed and remarked great flights of birds. Then, running to the northward for the space of 20 leagues; he fell in with otherislands inhabited by savages possessed of canoes. These islands produce wood and antiscorbutic plants. Who but would recognize, from this description, Terra del Fuego on which Drake landed; and, probably, on the island of Diego Ramires, which lies nearly in the latitude of Drake's pretended island? At that time Terra del Fuego was unknown. Le Maire and Schouten had not discovered the strait which is named after them, till 1616; and the general opinion before that time had always been, that there existed in the southern, as well as in the northern hemisphere, a continent which extended to the neighbourhood of the poles. The southern part of America was thought to be intersected by straits, one of which, like Magellan, they supposed they had discovered. These erroneous ideas were calculated to mislead Admiral Drake, who was carried by the currents 12 or 15 degrees to the eastward of his reckoning, as it has happened since to a great number of other navigators in the same latitudes. This opinion, so probable in itself, amounts to a certainty, when we reflect that a ship of the same squadron which had stretched to the northward, while the Commodore stood to the southward, re-entered the Straits of Magellan which it had just quitted : an evident proof that it had made no way to the westward, and that Admiral Drake had not passed beyond the longitude of America. We may add, that it is extremely improbable that an island so far from the continent, and in 57° latitude, should be covered with trees, when none are to be found on Falkland's Islands, which are situated only in 53°; that neither

ther on these last, nor on Staten Island, which is separated from the continent by a strait of only five leagues wide, is there asingle inhabitant; and, lastly, the description which Drake gives of the savages, their boats, trees and plants, suits the Pecherais so well, and in general coincides so exactly with every other account of Terra del Fuego, that I am unable to conjecture why Drake's Island still preserves its place on the maps.

The W.S.W. winds, therefore, being favourable for my getting to the northward, I did not suffer time so precious to be lost in this vain research, but continued my route to Juan Fernandez. But on examining my stock of provisions, I found we had very little bread and flour, having been obliged, as well as M. de Langle, to leave 400 quarters at Brest for want of stowage. The worms also had got into the biscuit; not that they had rendered it uneatable, but had reduced the quantity about a fifth. On these considerations I preferred Conception Bay to the island of Juan Fernandez, well knowing that part of Chili to abound in grain, which was cheaper there than in any part of Europe, and that I should there find all other provisions in plenty, and at the most reasonable price. I therefore shaped my course somewhat more to the eastward.

The 22d, in the evening, I made the island of Mocha, which is about 30 leagues to the south of La Conception. Fearing I should be carried by the currents too much to the northward, I had been induced to haul in for land; a precaution which I now think was needless, it being sufficient to get into the latitude of the island of Santa Maria, which it is necessary to make, taking care however not to approach it nearer than about three leagues, on account of the sunken rocks that extend very far out from the north-west point of the island.

When that point is doubled you may range along the

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the land, ther except within same time you two mountai shape. It is n ward of the M This promont ception Bay, from east to v to south. Bu by the island middle and eastern passa being about west, betwee point of Talc league, and is ought not to pilot. Martin

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the land, there being no longer any hidden danger, except within a small distance of the shore. At the same time you are insight of the Mamelles de Biobio, two mountains of which the name indicates the shape. It is necessary to steer a little to the northward of the Manuelles for the point of Talcaguana. This promontory forms the western limit of Conception Bay, which extends about three leagues from east to west, and as many in depth from north to south. But the mouth of the bay is contracted by the island of Quiquirina, which is situated in the middle and forms two entrances. Of these the eastern passage is the safest and most frequented, being about a league broad; whereas that to the west, between the island of Quiquirina and the point of Talcaguana does not exceed a quarter of a league, and is full of rocks, through which a passage oughtanot to be attempted without a very skilful pilot.

Soundings are found upon the coast from the island of Santa Maria to the entrance of Conception Bay. Three leagues in the offing we found 70 fathoms water over a bottom of black mud; and 30 fathoms in the bay, in the direction of E. and W. From the north point of the island of Quiquirina the soundings gradually decreased to seven fathoms within two musket-shots of the land. There is excellent anchorage in all parts of the bay, but there is no shelter from the north winds except off the village of Talcaguana.

We doubled the point of the island of Quiquirina at two in the afternoon, but the south winds which had hitherto been so much in our favour were now become contrary. We therefore made several boards, taking care to keep our lead going. We looked for the town of Conception with our telescopes, which from the chart of Frézier we knew must lie to the south-east, and in the bottom of the bay, but could not

not discover it. At five in the evening, pilots came on board, who informed us, that town had been destroyed by an earthquake in 1751, and did not then exist; and that the new town had been built on the river Biobio, three leagues distant from the sea. From these pilots we also learnt, that our arrival was expected at La Conception, letters from the Spanish Minister having already reached them. We continued working to windward, to approach the bottom of the bay; and at nine P.M. we anchored in nine fathoms water, about a league to the N.E. of the anchorage of Talcaguana, whither we were to remove in the morning.

About ten o'clock that evening, M. Postigo, a captain in the Spanish navy, came on board my ship, with a message from the commandant of La Conception. He slept on board, and, at day-break, departed, to give an account of his mission, having first suggested to the pilot we had taken on board, the most convenient place for us to anchor. Before he took horse, however, he sent us some fresh provisions, fruits, and pulse in greater abundance than was necessary even for the whole crew, whose healthful appearance seemed to excite his surprise. No vessel perhaps had ever doubled Cape Horn, and arrived at Chili, without having several sick on board, and there was not one in either of our ships.

At seven in the morning we weighed, and being towed in by our boats, we dropped anchor in the creek of Talcaguana, at 11 A.M. on the 24th of February, in seven fathoms water, over a bottom of black mud, the middle of the village of Talcaguana bearing S. 21° W:, Fort St. Angustin S., and Fort Galves near our watering place N.W. 3° W.

Since our arrival on the coast of Chili, we had levery day taken lunar observations. Our longitudes differed very little from those laid down by Don George Juan. But as we had reason to believe our

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our present method of taking them very superior to that made use of in 1744, we shall lay down the northernmost point of the island of Santa Maria, in 37° 1'S. lat. and 75° 55' 45" W. long. and the middle of the village of Talcaguana in 36° 42' 21" S. lat. and 75° 20' W. long. according to the observations made by M. Dagelet from our astronomical tents, crected by the sea side.

The plan delineated by Don George Juan is made with so much accuracy, that we had only to verify it; but Mr. Bernizet, our geographical engineer, added a part of the course of the river Biobio, in order to shew the situation of the new town, and the road leading to it.

CHAP. III.

DESCRIPTION OF CONCEPTION BAY-MANNERS AND CUSTOMS OF THE INHABITANTS-DE-PARTURE FROM TALCAGUANA-ARRIVAL AT EASTER ISLAND.

THE bay of Conception, is one of the most commodious that can be found in any part of the world. For though the tide rises six feet three inches, the water is smooth, and there is scarcely any current, It is high water here at the full and change of the moon, at 45 minutes past one. The bay is open only to the north winds, which never blow but in the winter-that is, from the end of May to October. In this season also the rains fall, and continue throughout the monsoon, for so we may denominate constant winds, which are succeeded by others from the south, that continue to blow for the rest of the year, and are accompanied with fine weather. The only auchorage, sheltered from the N.E. winds, in the winter, is before the village of Talcaguana, on the south-west side.

At present there is no other Spanish settlement in this bay, the ancient town of Conception, as I have already mentioned, having been destroyed by an earthquake in 1751. It then stood at the mouth of the river St. Pierre, on the east of Talcaguana, and its ruins are still to be seen, though unlike the remains of ancient magnificence in the other hemisphere. Their duration will be short, the buildings of this country being only of clay, or bricks baked in the sun, and the roofs covered with scallop tiles, as in the southernmost provinces of France.

After the destruction of this town, which, during the earthquake, was rather swallowed up by the sea than by the land, the inhabitants dispersed, and encamped in the environs. It was not till 1763 that they made choice of anotherspot, situated about a quarter of a league from the river Biobio, and three leagues from the ancient town of Conception, and the village of Talcaguana. On this spot they built a new town, to which the bishopric, the cathedral, and the religious houses were transferred. The houses consisting but of one story, that they may be the better able to resist the shock of earthquakes, which occur in these parts almost every year; this town occupies a great extent of ground.

The inhabitants are about 10,000; and here is the residence of the bishop and a colonel of horse, who is the military governor. The bishoprick is nominally bounded on the north by that of Sant-Jago, the capital of Chili, where the governor general resides; and on the east by the Cordilleras, and extending on the south as far as the Straits of Magellan. But in true limit is the river Biobio, about a quarter of a b ague from the town. All the country to the south of that river, with the exception of the isle of Chiloe, and a small circle round Baldivia belongs to the Indians, who cannot be deemed subjects of the Spaniards, with whom they are continually at war

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war, which renders the Spanish governor's office at once difficult and important. To him is entrusted the command of the militia of the country as well as the regular troops, from which he derives a great influence over the inhabitants, whofe civil governor is the corregidor. The defence of the country alfo relis folely with him, fo that between war and negotion he finds inceffant employ. A new administration is now forming, which perhaps will differ little from that of our colonics, and the authority will be divided between the governor and the intendant. In the Spanish colonics it should be observed, there is no fupreme council; those who are invested with the king's authority are also, with some legal affisiants, the judges in all civil actions. Hence it is obvious, that justice being administered by officers of unequal rank, the opinion of the fuperior draws with it that of his inferiors. He therefore is, in fact, the fole judge; and to expect that great mifchiefs will not enfue from fuch an administration, is to suppose him endowed with unusual talents, and fuperior to all paffion and prejudice.

The whole world does not afford a more fertile fpot than this part of Chili. Corn produces fixty fold, and the vine is equally abundant, the fields are covered with innumerable flocks, which, without requiring any care, multiply beyond all calculation. The only care neceffary is to keep feparate the different property of individuals; and oxen, horfes, mules and fheep herd together in the fame enclofures. A large ox is ordinarily worth eight dollars, a fheep three quarters of a dollar; but there are no purchafers, and the inhabitants kill every year a great quantity of cattle, the fkins and tallow of which are fent to Lima. They alfo cure fome provisions for the confumption of the fmall coafting veffels which navigate the fouth feas.

No difease feems peculiar to this country, but Vol. 1. E there

there is one very common that I fhall not name, which those who are so fortunate as to escape often live to a great age; for at La Conception I met with several who had attained an hundred years.

Notwithstanding fo many advantages, this colony is far from making the progrefs which might have been expected from a fituation the most favourable to great population, but the influence of the government is in conftant opposition to that of the climate. The fystem of prohibition exists at Chili in its fulleft extent. This kingdom, of which the productions would, if increased to their maximum, supply all Europe; whofe wool would be fufficient for the manufactures of France and England, and whole herds, converted into falt provision, would produce a vaft revenue-this kingdom, alas ! has no commerce ! Four or five fmall veffels bring every year from Lima, tobacco, fugar, and fome articles of European manufacture, which the miferable inhabitants can obtain only at fecond or third hand, after they have been charged with heavy cufloms at Cadiz, at Lima, and laftly at their arrival at Chill; in exchange they give their tallow, hides, fome deals, and their wheat, which, however, is at to low a price, that the cultivator has no inducement to extend his tillage. Thus the balance of trade is always against Chili, which, with all its gold * and articles of exchange, can fearly purchafe fugars, tobacco, stuffs, linens, cambrics, and even the hardwares neceflary to the ordinary wants of life of 1570, Think to a

From this very concile defcription, it is evident, that if Spain does not change her fystem; if the freedom of commerce is not permitted; if the du-

According to the accounts which have been transmitted to me, the gold which they procure annually in the archbishoprick of Conception cannot be estimated at more than 200,000 plasters. A plantation at St. Domingo affords a revenue full as large.

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Unfortu quantity o are enriche gain half a but, as pro not excite cation with arts and h fufficiently land, there tive are tho fand of the comes unne the houses of furniture tion are for The dref

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mitted to me, bishoprick of o piasters. A : ties ROUND THE WORLD.

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ties on foreign manufactures are not reduced; in thort, if they lofe fight of the political axiom, that a very finall taxation, on an immense consumption, is far more productive to the treasury, than a duty to heavy as to annihilate the confumption itfelf, the kingdom of Chili will never attain that flourishing condition which its happy fituation appears to promile purplice i the more song march . break

Unfortunately for this country it produces a fmall quantity of gold, and the beds of almost all the rivers are enriched with that metal. The inhabitant may gain half a dollar a day merely by wathing the foil; but, as provisions are extremely abundant, want does not excite him to labour. Deprived of all communication with foreigners, he is equally ignorant of our arts and luxury, and can feel no defires for them, fufficiently firong, to overcome his inactivity. The land, therefore, remains uncleared, and the most active are those who spend a few hours in washing the fand of the river; an occupation to easy, that it becomes unneceffary for them to learn any trade. Thus the houses of the most opulent are almost destitute of furniture, and the only workmen of La Conception are foreigners. I a show how out a then a life

The drefs of the women confilts in a plaited petticoat, of those ancient gold and filver stuffs formerly manufactured at Lyons. A Thefe pietticoats, which are referved for grand occasions, are transferred, like jewels, to the different individuals of a family, and pais from grand-mother to grand-daughter. Such ornaments, however, are only within the reach of a few, and the reft liave fcarcely clothes to cover their nskednefs. to and entry intry late, with rate of all a r

It is the idlenefs, rather than the credulity or fuperfition, of the inhabitants, which has filled this kingdom with convents, both for men and woman. The former enjoy much more liberty than in any other country ; and the misfortune of having nothing to

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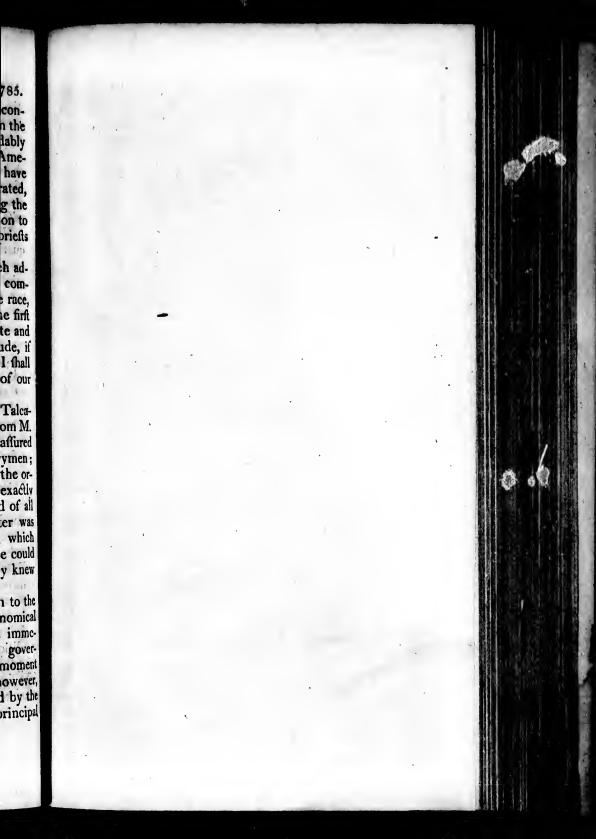
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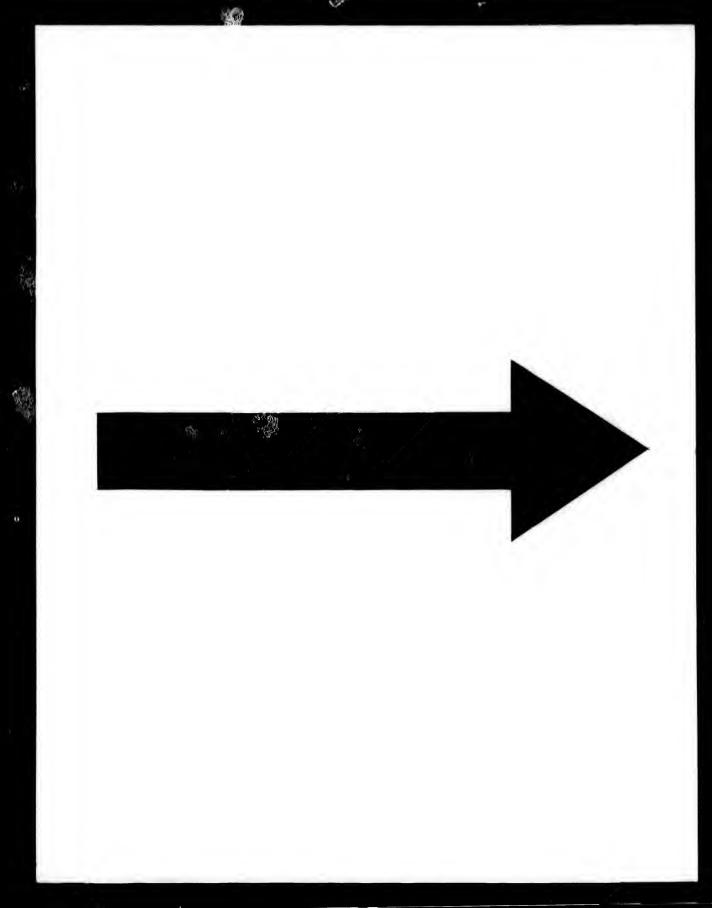
to do, of belonging to no family, and being condemned to celibacy, yet without feparation from the world, or confinement to their cells, unavoidably renders them the worft members of fociety in America. Their effirontery cannot be expressed. I have feen them remain at a ball till midnight, feparated, it is true, from the company, and placed among the fervants. No one gave more exact information to our young people concerning places which priefs should know, only to interdict them.

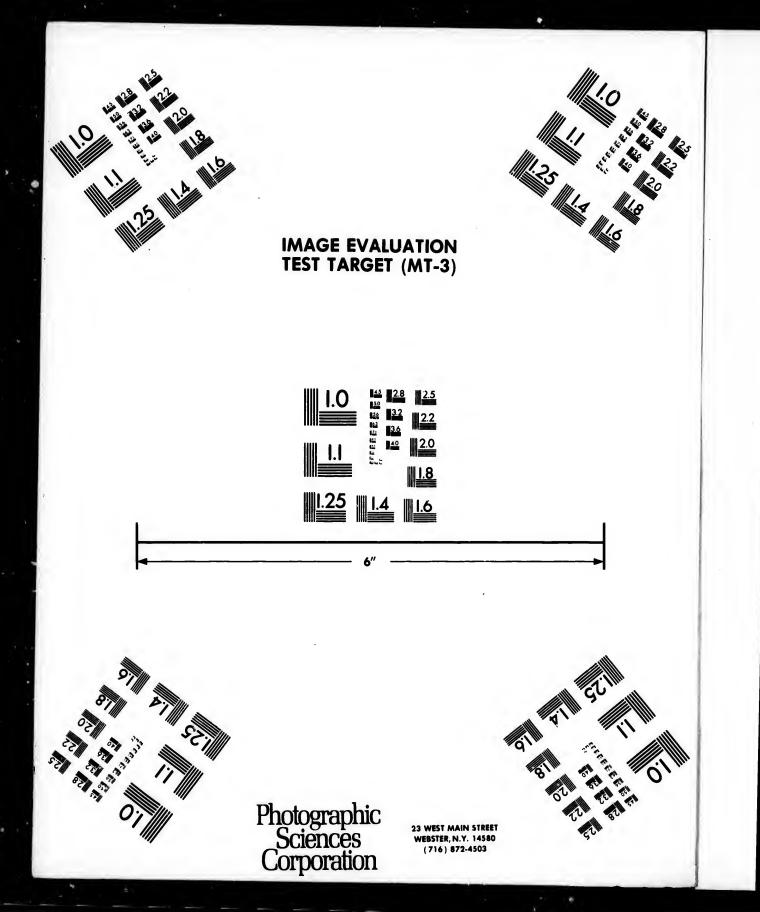
The inhabitants of La Conception are much addicted to theft, and the women are extremely complaifant. They are, however, but a degenerate race, mixed with Indians : yet the inhabitants of the first rank, the true Spaniards, are extremely polite and obliging. I should be guilty of groß ingratitude, if I did not paint them in their true colours. I shall endeavour to do it, by relating the history of our vift.

I had fcarce anchored before the village of Talcaguana, when a dragoon brought me a letter from M. Quexada, who was governor, pro tempore, and affured me we fhould be received as fellow countrymen; adding, with the most perfect politenes, that the orders he had received on this occasion, were exactly in unifon with the fentiments of his heart, and of all the inhabitants of La Conception. This letter was accompanied with all, kinds of refreshments, which every one was anxious to prefent us; but we could not confume fo many objects, and we fcarcely knew even where to place them.

Being obliged to devote my first attention to the refitting of my fhip, and getting up our astronomical clocks and quadrants on fhore, I could not immediately make my acknowledgments to the governor, though I waited with impatience the moment when I might discharge that duty. He, however, prevented me by coming on board, attended by the or principal











which we had been requainted. A thickvering half the lag, and faftened below, the weight finited flockings of

way below the waift : ftriped ftockings of way below the waift : ftriped ftockings of waits : fhore to fbort, shat the toes are d, which fall down on their flow fully of gold or filver fully, and are with two mantillas or cleaks, the first of the fecond, or uppermost, of woolien cloth colours, as yellow, blos, or role. Thefe mantillas cover the heads of the ladies when alk in the firects, and in cold weather; but ir houses they lay them in their lap : and they a play of the mantilla, confantly placing and

ing it on their knees, in which the ladies of La pretty, and formably procedule. They are in ge-pretty, and formably polite, that there is cer-no meritime city in Europe where foreign nabra would be received in a manner to engaging optive.

ball concluded about midnight. Mr. Sabahave for the second sec and patiengers, each inhabitant is OFFICE

offered them a bed, and we were thus divided into the different quarters of the city. and in the city -Before dinner we had visited the principal inhabitants; and, in particular, the bishop, who was a man of intelligence, of amiable manners, and that exemplary charity fo frequent among the Spanifly bishops. He is a Creble of Peru, has never been in Europe, and owes his elevation to his virtues. He expressed to us the regret Mr. Higgins, a colonel of horfe, would feel, from having been detained by the Indians during our thort flay within his government. The praifes every one beftowed on that officer, and the general efteem for him, made me regret that circumftances prevented our feeing him. A courier, however, was fent to him, and his answer, which arrived before our departure, announced a fpeedy return; for he had just concluded a peace with the Indians glorious to his administration, and particularly neceffary to the people under his government, whole diffant dwellings are expoled to the depredations of these favages, who maffacre the men and children, and carry the women into captivity.

The Indians of Chili are no longer those ancient Americans whom the arms of Europeans inspired with terror. The vast multiplication of horses spread over the immense deferts of America, and that of cattle and sheep, which are also extremely numerous, have made Arabians of these people; and we may, in all respects, compare them with the inhabitants of the defarts of Arabia itself. Constantly on horseback, to them journeys of 200 leagues are mere excursions. They travel with their flocks, feed on their flesh, their milk, and sometimes on their blood *; and they cover themselves with their fkins, with which they make casques, cuirass, and shields. Thus has the introduction of two domestic animals in

* I have been affured, they fometimes open the veins of their, carle and horfes, in order to drink their blood.

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America, promanners of fireights of any of their fame fruits, have a much the inhabitant their own an

It is eafy bours are to fued in fuch affembling i country 400 of 30,000 m Mr. Higg will of thefe fignal fervice for he was a the families count of the the house of fure of fpeak are fo accord Indians I alio an hour's con by his return he arrived at for a colone French failor with the defe unequalled a exceeded, if nefs appeared Frenchmen, fentiments of the inhabitan give them and to invit

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America, produced the most striking effect on the manners of all its inhabitants, from St. Jago to the streights of Magellan. They now no longer follow any of their ancient customs, no longer feed on the fame fruits, no longer wear the fame cloathing, and have a much stronger refemblance to the Tartars, or the inhabitants of the borders of the Red Sea than to their own ancestors, who lived two centuries ago.

It is eafy to conceive how dangerous fuch neighbours are to the Spaniards. How can they be purfued in fuch long expeditions, or how prevented from affembling in a fingle point, a nation forced over a country 400 leagues across, and thus forming an army of 30,000 men?

Mr. Higgins had the good fortune to gain the good will of these favages, and thereby rendered the most fignal fervice to the nation which had adopted him; for he was a native of Ireland, defcended from one of the families there who have been perfectited on account of their religion, and ancient attachment to the houfe of Stuart. I cannot deny myfelf the pleafire of fpeaking of this loyal officer, whole manners are fo accordant with those of every nation. Like the Indians I also granted him my entire confidence after an hour's conversation. His letter was soon followed by his return, and I was fcarcely informed of it when he arrived at Talcaguana. Again I was anticipated, for a colonel of cavalry is fooner mounted than a French failor; and Mr. Higgins, who was charged with the defence of the country, was a man of almost unequalled activity. In politeness and attention he exceeded, if poffible, the M. Quexada. His kind. nefs appeared to fincere and engaging to all the Frenchmen, that no expressions could convey our fentiments of gratitude. As we were indebted to all the inhabitants for their politeness, we refolved to give them a general fête before our departure, and to invite to it all the ladies of La Concept E 4 tion.

tion. A large tent was therefore pitched by the fide of the fea, where we gave a dinner to 150 vifitors, who had the complaifance to come nine miles to accept our invitation, which was followed by a ball, fire-works, and a paper balloon, large enough to afafford them an interefting fpectacle.

The next day we made use of the fame tent to give a great dinner to the crews of both our ships, when we all fat at the fame table; M. de Langle and myself at the head, and every officer, down to the last of the failors, placed according to their rank on board. Our plates were wooden platters, and gaiety and pleasure smiled in the countenances of all the failors, who appeared more healthy, and a thousand times happier than on the day of our departure from Breft.

The colonel of cavalry gave a fete in his turn, and we all went to La Conception to attend it, except the officers on duty. Mr. Higgins came to meet us, and conducted our cavalcade to his houfe, where a table was laid with 100 covers, to which all the officers and inhabitants of diffinction were, with feveral ladies, invited. At each courfe a Franciscan Improvisatore recited fome verses in celebration of the union between the two nations. At night there was a great ball, attended by all the ladies in their best dreffes, and fome officers in marks performed a very elegant ballet. It is impoffible to form a more charming fete in any part of the world." It was given by a man whom the whole country adored, and to foreigners who had the advantage of belonging to a nation reputed the most gallant in Europe.

But these pleasures and this good reception did not induce me to lose fight of my principal object. I announced, on the day of my errival, that I should fail on the 15th of March, and that should our vessels be resisted, and our wood, water and provisions be on board before that time, every one should have liberty

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to go and amu better calculate mife, of which as the failors do in Chili, when the inhabitant Otaheite; yet indulgence I

During our gularly made our time-keep extremely we per day upon parture from half a fecond fecond from keepers, Nos. to deferve our On the 15t prepare for fa the north, wl road; it had west and fout at ten in the or earlier at n the contrary, begun at no hours of bree rule constantl after an ablo in the north. with much ra 10th; and oiprung up fro fail, altho' it v leagues out o calm and a H northerly win

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to go and amufe himfelf on fhore. Nothing could be better calculated to accelerate our work than this promife, of which however I dreaded the effect as much as the failors defired it; becaufe wine is very abundant in Chili, where every house fells it, and the wives of the inhabitants are almost as complaifant as those of Otaheite; yet no irregularity caused me to regret the indulgence I had granted.

During our flay at Talcaguana, M. Dagelet regularly made comparisons, to ascertain the rate of our time-keepers, with the result of which we were extremely well pleased. No. 19 had only lost $3\frac{1}{2}$ " per day upon the motion of the fun, fince our departure from France, which is a difference of but half a second from its daily rate at Bress, and one second from that at Tenerisfie. The small timekeepers, Nos. 25 and 29, had varied so much as not to deferve our confidence.

On the 15th, at day break, I made the fignal to prepare for failing; but the wind then fettled in the north, whereas, during our whole flay in this road, it had been constantly between fouth-fouthwest and fouth-west. The breeze usually came on at ten in the morning, and ceafed at the fame hour; or earlier at night when it had begun earlier; on the contrary, it continued till midnight, if it had begun at noon; fo that there were about twelve hours of breeze and twelve hours of calm. This rule constantly prevailed till the 15th, when the wind, after an absolute calm and excessive heat, fettled in the north. It blew very freth from that quarter, with much rain during the nights of the 15th and 16th; and on the 17th, about noon, a light breeze fprung up from the S. W. with which I-got under fail, altho' it was very feeble, and only carried us two leagues out of the bay, where we remained in a dead calm and a heavy fwell, in confequence of the late northerly winds. We were furrounded during the whole

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schole night, by whales, which came to near our thips that they fpouted water on board. Yet not an inhabitant of Chili ever harpooned a fifth; for Nature has lavithed to many riches on this kingdom; that feveral ages will elapte before this branch of industry will require to be cultivated.

On the 19th the fouth winds permitted me to fland off from the flore, when I flaped my courfe to the eaftward of the island of Juan Fernandez, which I did not make, becaufe its fituation has been fixed according to the obfervations of Father Feuillée at La Conception, and it is impossible there flould be an error of ten minutes in its longitude.

On the 23d we were in 30° 29' S. latitude, and 85° 51' W. longitude by our time-kreper, No. 19, whofe rate fince our departure from La Conception was fo perfectly exact with that of No. 18, which was on board M. de Langle's fhip, that their refults did not differ two minutes of a degree till our arrival at Eafter Ifland. In the cold climates in the neighbourhood of Cape Horn it was otherwife, for it appears that the table of temperature given to M. Dagelet by M. Berthoud at Paris, was not correct. The difference was fo confiderable, as to occafion an error in the longitude, by No. 18, of more than a degree, between the Strait of Le Maire and our arrival off the coaft of Chili.

On the 24th the wind fettled to the caftward, and did not vary five degrees till we were about 120 leagues from Eafter Hland. On the 3d of April, in 27° 5′ S. lat. and 101° W. long. we had the wind from N. E. to N. W. and we faw the only birds we had met with fince we paffed the ifland of Juan Fernandez, except one or two *taille-vents*, that we had feen in a run of 600 leagues. This frequent change of wind is the most certain fign of land, though naturalistis perhaps will find it difficult to explain how the influence of a finall island in fo immense a fea fhould thould extend a navigator to an ifland, bec point of the c direction of th me no informa in all their mo the purfuit of birds direct th of the horizon an appearance have ventured On the 4th Easter Island, N.N.E. and exact fituation I had paffed it But I made th acknowledge attributed to c calculations fro navigators.

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On the 8th made Eafter If leagues. The northerly; it days, and had W. I am of cationed folely nor is it proba feafon in the 2 that to the eaf place where C an island of fa westward, a la Dalrymple too found in 1722 men, though

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(hould extend to 100 leagues. Nor is it enough for a navigator to prefume that he is that diffance from an ifland, becaufe nothing points out to him in what point of the compafs he may fall in with it. The direction of the flight of birds after fun-fet afforded me no information; and I am fully convinced, that in all their motions they have no other object than the purfuit of prey. I have at dufk obferved feabirds direct their flight towards ten different points of the horizon; and I am of opinion that from fuch an appearance the most enthuliaftic augurs would not have ventured to draw any conclusion.

On the 4th of April I was only 60 leagues from Eafter Ifland, when I faw no birds, and the wind was N. N. E. and it is probable that had I not known the exact fituation of the ifland, I fhould have imagined I had paffed it, and fhould therefore have put about. But I made these reflections at the time, and I must acknowledge that the discovery of islands is to be attributed to chance, and that very often the acuteft calculations from theory have only misled fucceeding navigators.

On the 8th of April, at two in the afternoon, I made Eafter Island, bearing W. 5° S. diftant twelve leagues. The fea was then very high, and the winds northerly; it had been thifting during the laft four days, and had veered round from N. to S. by the W. I am of opinion that this variation was not occalioned folely by the proximity of a finall island, nor is it probable the trade winds are conftant in this feafon in the 23d degree. The point I perceived was that to the eaftward. I was then precifely in the fame place where Capt. Davis, in 1686, had fallen in with an island of fand, and twelve leagues further to the westward, a land which Captain Cook and Captain Dalrymple took for Easter Island, and which was again found in 1722 by Roggewin. But thefe two feamen, though very well informed, did not fufficiently · . ? . . . attend

attend to the account of Waffer, who fays, (Rouen edit. p. 300) "That Captain Davis, departing from "Gallapagos, with an intention of returning to Eu-"rope by Cape Horn, and of only putting into the "ifland of Juan Fernandez, experienced in 12° S. "lat. a terrible fhock, and thought he had touched "upon a rock; he had then conftantly directed his "courfe to the fouthward, and reckoned he was 150 "leagues from the continent of America; but he af. "terwards learnt that at the fame moment an earth-"quake took place at Lima.

" Having recovered from his alarm he continued to " run S. S. by E. and S. W. as far as 27° 20', and, he " fays, that at two in the morning they heard a-head " the noife of a fea breaking on the fhore. He lay-to " till day, when he faw a fmall island of fand, which " was not furrounded by any rocks. He approached " it within a quarter of a mile, and perceived, fur-" ther on, bearing 12 leagues to the weftward, a great " land, which he took for a group of iflands, on ac-" count of the intervals between the different capes, " Davis did not furvey it, but continued his courfe " towards the ifland of Juan Fernandez." But Waffer fays, that this little island of fand is 500 leagues. from Copiapo, and 600 from Gallapagos; but it has not been fufficiently observed, that this refult is impoffible. If Davis, in 12° S. lat. and 150 leagues from the coaft of America, had made a due S. S. E. courfe, as Waffer relates; as it is evident this buccaneer captain must have steered with the easterly winds for frequent in these seas, in order to perform his intention of going to Juan Fernandez, we must conclude with M. Pingré, that there is an error in the figures of the quotation of Dampier, and that the land feen by Davis, in lieu of being 500, is only 200 leagues from Copiapo. It would then be probable that the two islands of Davis are those of St. Ambrose and St. Felix, which are a little more to the northward than Co1785.]

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Copiapol. B nute, and fe minutes. I graphical difficult nions of two however, to a and declared had he had t eaftward of E on that paral I am of opin problem appo

• While I add roufe, I ought to the journals of o It evidently any that there is an e tended land of I America.

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ed to d, he -head lay-to which ached furgreat n accapes. :ourfe Wafagues t has is ims from ourle. aneer ids fo ntenclude igures l seen agues it the nd St. than Co-

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Copiapo. But the buccaneer pilots were not fo minute, and feldom took the latitude within 30 or 40 minutes. I fhould have fpared my readers this geographical differtation, had I not to oppose the opinions of two. juftly celebrated feamen. I ought, however, to observe, that Captain Cook was in doubt, and declared he would have decided the question, had he had time to get into a higher latitude to the caftward of Eafter ifland. As I ran down 300 leagues on that parallel, without feeing the island of fand, I am of opinion; no doubt ought to remain; and the problem appears to me completely folved . . . Hallo are of a divertised of barry During

. While I adopt the folution of this problem given by La Péroule, I ought to give a complete view of the proofs refulting from the journals of other navigators.

It evidently appears, as Pingré, Cook, and La Pérouse observe, that there is an error in the figures of Dampier, and that the pretended land of Davis can be only 200 leagues from the coaft of America:

I agree with La Pérouse, that the methods of computing the longitudes were to erroneous in the time of Davis, that we can only rely on the latitudes. Thus it is by the account of Waffer, that we may delineate the track of Davis at his departure from the Galla-pagos Islands, at which time he freered fouthward, as far as the twelfth degree of S. lat. where he experienced a terrible thock, &c. He had conftantly steered fouthward, and reckoned that he was 150 leagues from the continent of America.

In observing on the chart the ship's place thus described, we shall find that he was nearly in the 87th degree of W. long. He continued his course fouthward, S. by E. and S. W. as far as the land different in 27° 20'S. lat. By thus following the track of Davis, it appears he must have been about 200 leagues from Copiapo, 600 from the Gallapagos, and 1° to the S. E. of the S. point of the stuation in which the illands of St. Felix and St. Ambrofe are laid down in the French maps. It may eafily therefore be perceived, that the great land feen by Davis 12 leagues to the fouthward, must be that of the illands of St. Felix and St. Ambrofe, and that the illand of fand muft be a few leagues to the eaftward of these islands."

In order to establish this, let us review the situation pointed out for the pretended land of Davis, and for the illands St. Felix and St. Ambrole, as well as the journals of the different navigators. The English maps place thele stands in 15. S. lat. the French in 25°, and those of Green from 26° 20' to 27°.

Cook

During the night of the Sth of April, I coulted Eafter Ifland, at three leagues diftance. The weather was clear, and the wind had weered round from North to S. E. in lefs than three hours. At day-break I fleered for Cook's Bay, which is the most sheltered from the winds between N. and S. by the East, in the whole island. It is only open to the West winds, and the weather was fo fine that I had hopes they would not blow for feveral days. At eleven o'clock I was not above a league from the anchorage. The Aftrolabe had already dropped anchor, and I did the fame very near her : but the water deepened to rapidly, that the anchors of both

Cook agrees that he milled the true latitude of these islands, rather in confequence of having relied on the table of latitudes and longitudes, in Robertion's Elements of Navigation, than on Green's chart. He faw certain figns of land in the neighbourhood of the 25th degree of S. lat. But he could not find in 25° 50', and 25° 30', the land of Davis which did not exift, nor the illands St. Felix and St. Ambrole, which must exist in the 27th degree,

and of which he perceived fome figns. La Péroule, when coming from the eaftward, and running down 300 leagues on the parallel of Eafter ifland, could not fee either the land of Davis, which did not exift, or the illands of St. Felix and St. Ambrole, whole longitude is between 26 and 27 degrees to the eastward of that island. It is therefore evident, as Captains Cook and Dalrymple thought, that Easter illand, which was found again by Roggewein in 1722, cannot be the land of Davis. It is also evident, that the Islands of St. Felix and St. Ambrofe,

cannot exist in the situation laid down in the English maps: for as Cook remarks, Davis would then have fallen in with them in his track. And it is evident, that the Illands of St. Felix and St. Ambrole cannot exift in the lituation laid down in the French maps, in conformity with that described by Robertion ; for thes Capt. Cook would have feen them.

It appears then almost demonstrative, that the land of Davis does not exift, but that there are Illands in the 27th degree of S. latitude, about 200 leagues from Copiapo, which are no other than the Islands of St. Fehx and St. Ambrole, laid down erroneoufly in all the maps ; and that there Iflands are the pretended land of Davis. Such, at leaft, is my opinion, after a comparison of the journal of the different navigators. It is also the opinion of a modern navigator, in high elimation, I mean M. Bougainville.-French Editor. to watte mont neared to hold fifthips

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thips came home. Thus we were obliged to purchase again, and make two boards to regain the anchorage.

This contrariety dld not abate the ardour of the Indians, who fwam after us to a league off fhore, and came on board with a laughing careless air, which gave me the best opinion of their character. Men of a more fuspicious turn would have feared, when we got under fail again, that we were carrying them off from their native foil. But the idea of fuch perfidy did not feem to prefent itself to their minds.

Naked and unarmed, in the midft of us, a fimple fring round their middle supported a bundle of herbs that hung down before. Mr. Hodges, the painter who accompanied Capt. Cook in his fecond voyage, has fucceeded very ill in pourtraying their phyfiognomy, which is generally agreeable and extrenely various; and has not, like that of the Malays, Chinefe, and inhabitants of Chili, a general character that is peculiar to themfelves.

I made feveral prefents to thefe Indians, who preferred pieces of painted cloth, half an ell long, to nails, knives, and beads. Even these yielded to their fironger inclination for hats, of which however we had too finall a quantity to give to many of them. At eight in the evening, I took leave of my new guefts, giving them to underfiand by figns, that at day-break I fhould go afhore. They then went dancing into their boat, and threw themfelves into the fea, two musket thots from the thore, on which the billows broke with confiderable force. They had taken the precaution of making little packets of my prefents, and every one placed those which belonged to him on his head, to fecure them from the water. a range ... of y blods Buck and a w Phy betrianpos flow on the Latinna, silve. this is a statistic representation of a loss of មន្ត្រីមាន ផ្ទាំងសម្ត្រីខ្លែរដ្ឋម្នាន ក្នុះដែរដ្ឋី នៅវត្ថុ ដែលបាន whole defree the bell, of the part is would " - The sale

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DESCRIPTION OF BASTER ISLAND-INCIDENTS AND EVENTS WHICH TOOK PLACE THERE-MANNERS AND CUSTOMS OF THE INHABITANTS.

OOK's Bay, in Eafter Ifland, is fituated in 27° 11'S. lat. and 111° 51' 30" W. lon. and is the only anchorage that is fheltered from the S. E. and E. winds, which ufually blow in thefe feas. With wefterly winds it is very dangerous : but from that quarter, however, the wind never blows, till it has veered round by the Eaft to N. E., to the N. and from thence to the Weft. There is fufficient time, therefore, to get under way; and, at three quarters of a mile in the offing, no danger is to be feared.

This Bay is eafily known. For after doubling the two rocks off the fouth point of the Ifland, and running along fhore at the diffance of a mile, a fmall creck may be perceived, which is the moft certain land mark. When this creek bears E. by S. and the two rocks abovementioned are flut in with the point, there is anchorage in twenty fathoms water over a bottom of fand, at three quarters of a mile from the fhore. Further in the offing there is no bottom but in thirty-five or forty fathoms, and the depth of the water encreafes fo rapidly that the anchor does not hold. The landing is eafy at the foot of one of the ftatues, of which I fhall prefently fpeak.

At day-break I ordered every thing to be made ready for us to go on fhore, where I had reafon to expect I fhould meet with friends, as I had loaded with prefents those who had come on board the preceding evening. I was too well acquainted with the accounts of the different navigators, to be ignorant that the Indians are but grown up children, whose defires the fight of our property would fo ftrongly

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frongly excite, that they would take every poffible method to get poffeffion of them. I was therefore convinced that I muft reftrain them by fear, and gave orders that this expedition fhould be accompanied with a little warlike train. We put this in execution, with four boats and twelve armed foldiers. M, de Langle and myfelf were followed by all the paffengers and officers, except those who were neceffary to carry on the duty on board our fhips. Thus we formed a body of about feventy perfons, including the crews of our boats.

Four or five hundred Indians waited for us on the fhore. They were unarmed, and feveral of them covered with pieces of white and yellow ftuff; but the greater number were naked, feveral were tattooed, and their faces painted red. Their cries and their phyfiognomy equally expressed their joy, as they advanced to give us their hands and affift us in landing.

This part of the Ifland has an elevation of about twenty feet, and the mountains are about feven or eight hundred toifes from the fea, to which the foil has a gentle declivity from the bases. This interval is covered with a kind of herb, which I believe to be fit for pasturage. It grows on the surface of large fones, that lie loofe upon the earth, and appear precifely fimilar to those of the Isle of France, called in the country giraumons, because they are in general of the fize of that fruit. These very stones, which were fo inconvenient to us in walking, are a very valuable prefent from nature. They keep the earth cool and moift, and fupply the place of that falutary fhade which the inhabitants have imprudently banifhed by felling their trees. This practice, which has exposed their foil to be burnt up by the fun, and precluded the existence of floods, rivulets, or fprings, must have taken place in very remote periods. The islanders were ignorant, that in the VOL, I. F fmall

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LA RÉPONSE'S VOYAGE

finall islands of fuch an immense ocean, the cool. mers of a land covered with trees can alone detain and condense clouds, and thus keep up an almost continual rain upon the mountains, which may foread on every fide into fprings and rivulets; Iflands deprived of this advantage, are subject to a horrid drought, which gradually deftroys the plants and thrubs, and renders the land almost uninhabitable. M. de Langle and myfelf did not doubt that this people owed their unfortunate fituation, in this refpect, to the imprudence of their anecftors; and it is probable, that other Mands of the South Sea are only watered, because fortunately they have inaccef. fible mountains, where it has been impoffible to cut wood. Thus has nature veiled her greater liberality to the latter behind the cloak of avarice, and by concealing her exuberance in receffes which it was out of their power to invade. A long ftay in the If the of France, which bears fo ftrong a refemblance to Easter Island, has taught me that the trees never fnoot again, unlefs theltered from the fea breezes by other trees or by walls. And it was the knowledge of this circumflance that explained to me the caule of the devaltation of Easter Island, whole inhabitants have much lefs caufe of complaint from the eruptions of their volcanos, which have long been extinguished, than from their own imprudence. But as man accommodates himfelf to every fituation, with more cafe than any other animal, these islanders appeared lefs unfortunate to me than they did to Capt. Cook and Mr. Forfter, who arrived there after a long tedious voyage, eat up with feurvy, and in want of every thing. They found neither wood, water, nor pigs : a few fowls, bananas, and potatoes can, in fuch circumfances, afford but poor supplies. Accordingly their accounts bear the marks of their more unpleafant lituation. Ours was infinitely more happy. Our crews enjoyed perfect . Loghest health;

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health ; we neceflaries w we defired o opportunity them goats, i oranges, lemo fpecies of pla toil.

Our first o ring of armed leave this fpac the prefents i fpecies of anin as I havl expret even with the the Indians wh themfelves wer illanders, who amounted at th were women. the latter were favors to those fents. The me ply, and while us, took our h kerchiefs from be accomplices committed ther fame inftant, 1 that we made n a few minutes and watched a thefts. Thefe ing ; and as we fhort a space of them much in with observing t to rob us. In

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ROUND THE WORLD.

health; we had taken on board in Chili whatever necefiaries we wanted for feveral months; and all we defired of the inhabitants, was to afford us an opportunity of conferring benefits. We brought them goats, fheep, and pigs; and we had feeds of oranges, lemons, cotton, maize, and in general every species of plants most likely to thrive upon their toil.

Our first care, when we landed, was to form a ring of armed foldiers, enjoining the inhabitants to leave this fpace void. Then pitching a tent, I had the prefents intended for them, and the different fpecies of animals to be left, brought on fhore. But as I have expressly forbidden the foldiers to fire, or even with the butt end of their muskets, to keep off the Indians who might be troublefome, the foldiers themselves were soon exposed to the rapacity of those islanders, whose numbers rapidly encreased. They amounted at the least to 800, out of whom full 150 were women. The phyliognomy of many among the latter were agreeable, and they offered their favors to those who were willing to give them prefents. The men endeavoured to induce us to comply, and while the women lavished their carefies on us, took our hats from our heads, and our handkerchiefs from our pockets. They all feemed to be accomplices in these theses, for they had scarcely committed them, when they all took to flight at the fame inftant, like a covey of birds. But observing that we made no use of our muskets, they returned a few minutes afterwards, renewed their carefies, and watched a favourable moment to commit new thefts. These manœuvres continued all the morning; and as we were to leave them at night, and fo thort a fpace of time did not admit of our giving them much inftruction, we only amufed ourfelves with observing the artifices these islanders employed to rob us. In order to remove every pretext for any kind F_2

kind of force, which might have produced unfortunate confequences, I declared that I would replace the hats that might be taken from the foldiers and failors. These Indians were unarmed. Only three or four, among fo great a number, had a kind of wooden club, not in the least formidable. Some of them appeared to have a flight authority over the others, and taking them for Chiefs I diftributed fome medals among them, which I hung about their necks with a chain. But I foon difcovered that these were in fact the very men who were the most notorious thieves; and although they seemed to purfue those who stole our handkerchiefs, it was eafy to perceive they were fully determined not to overtake them.

Having but eight or ten hours to remain upon the island, and being defirous not to lose that interval of time, I confided the care of our tent, and of all our effects, to M. d'Escures, my first lieutenant, to whom I also gave the command of all the foldiers and failors on thore. We then divided ourfelves into two parties, of which the first, under the orders of M. de Langle, was to penetrate as far as poffible into the heart of the Island, to fow the grain in fuch fpots as fhould appear beft adapted to their cultivation; and to examine the nature of the foil, plants, agriculture, population, monuments, and in general every thing interefling among this very extraordinary people. Those who were able to go over a great extent of ground, joined his party, and he was accompanied by Meffrs. Dagelet, Lamanon, Duché, Dufreine, Martinière, Father Receveur, M. Abbé Mongès, and the Gardener. The fecond party, of which I made one, vifited the monuments, the platforms, and the houses and plantations, within a league around our quarters. The drawing of these monuments, given by Mr. Hodges, prefents but a feeble idea of the objects we faw. Mr. Forfter thinks

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thinks they confiderable ifland'; but The largeft of or that we may high, feven f three feet thi five feet thick he the work of believe may, 2000. The equal to that. ber of childre in about 120 drawn togeth than 300 wo jecture, that tremity of the either because their children. we only faw the Bay. Th of M. de Lan island, a grea and we all ex and fome of women might dwellings, of after describe which the larg did not exceed not, however, cealed their in 1772, but it is perhaps t gators condu that we owe

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terval ofall it, to Idiers into ers of ffible fuch cultifoil. ind in y exto go , and anon, eveur, econd nents, vithin thefe but a 'orfter hinks

ROUND THE WORLD.

thinks they are the work of a people much more confiderable than the prefent inhabitants of the ifland'; but his opinion appears to me unfounded. The largeft of the clumfy bufts on these platforms. or that we measured, is only fourteen feet fix inches high, feven feet fix inches broad across the fhoulders. three feet thick in the belly, and fix feet broad and : five feet thick at the bafe. These bufts, I fay, may be the work of the prefent race, whof population I believe may, without exaggerating, be effimated at (2000. The number of women appeared nearly. equal to that of the men, and I faw as great a number of children as in any other country. For though in about 1200 inhabitants, whom our arrival had drawn together round the Bay, there were not more. than 300 women, I should from thence only conjecture, that although the men came from the ex-. tremity of the island to fee our ships, the women, either because more delicate, or more occupied with their children and families, were left at home; and we only faw those who inhabited the environs of This opinion is confirmed by the account the Bay. of M. de Langle, who found, in the interior of the island, a great number of women and children; and we all explored the caverns where Mr. Forster and some of Capt. Cook's officers thought the women might be concealed. These are subterraneous. dwellings, of the fame form with those I shall hereafter defcribe, where we found fmall faggots, of which the largest pieces were not five fect long, and did not exceed fix inches in circumference. We cannot, however, difpute that the inhabitants had concealed their wives when Capt. Cook visited them in 1772, but I could not discover their motive; and it is perhaps to the kindness with which those navigators conducted themfelves towards this people, that we owe the confidence they feemed to place in F 3 0 ... us,

LA PEROTSE'S VOTAGE -([1285] 70) us, and by which we were enabled to judge betrait of their population. And and the instruction . All the monuments now remaining; and of which M. Duche has given an exact drawing, appenn very M. Ducké has given an exact diawing, appear very ancient, and are placed in a kind of morel, or bury-ing ground, at we jadged from the number of bonal near them. It cannot be imposed their form of government has fo consistent all conditions that there is no chief whole meaning the inhabitants de-fire to preferve by ending thin a flatue. Laftest of the colorial manifold and vanity they have here fublicated only small scaps of flone in the flape of a pyramid of which the upper flone is which are only an baur's most to one man are ed on the fea-flore, and an indian clearly explained to us by laying himfelf down on the ground the object of thefe heaps of flone is afterwards lifting object of these heaps of hones afterwards lifting his hands towards Heaven, he undently expelled the belief in a future existence. I was frewilling rath to adapt fuch an opinion, and confers i though them far from poffelfing that idea, till having ob ferved them repeat the familing to others, and M. de Langle, who travelled into the intense part the country, having reported the time fact," 1 has now no doubt on the fubject, and I believe all ou officers and paffengers entertain a fimilar opinion Yet we faw no trace of any religious worthip amon them; for I do not think their rude fatues can taken for idols, notwithftanding the Indians may have fhewn for them a fpecies of renoration. Their coloffal bufts, of which I have already given the dimentions, and which fufficiently prove the little progrefs they have made in foulpture, are but out of w volcanic production known among naturalifis by the name of light, a flone to light and friable that fome of Captain Cook's officers have thought it might be a factitious fubftance composed of mortan inclurated



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indurated by ed how they a weight wi however cer Aone, and th long, and flig very well c much great hundred me not be room the marvello which is not fon to believ ifland it is be be king over live on yam and there I war, becaufe of a chief in

I can only these people and whom I however, by have gone be acquainted,

Scarcely the and I am perclent to prover. Such life has led earth are in certain their village or a constraint which was no in breadth, a form was that

* This house not have feen it

1785.

ROUND THE WORLD.

indurated by the air. It only remains to be explained how they have been able to raife to confiderable a weight without the aid of machines. We were however certain they were of a very light volcanic Aono, and that by means of levers five or fix fathoms long, and fliding flones underneath, as Captain Cook very well explains, they might be able to raile a much greater weight; an operation for which an hundred men would be fufficient, and there would not be room for a greater number to act. Thus the marvellous difappears, nature regains her lapillo. which is not the production of art, and there is reafon to believe that if no new monuments adorn the island it is because there all conditions are equal; to be king over a people who are almost naked and live on yams' and potatoos, excites little jealoufy ; and these Indians, never having any occasion for war, becaufe they have no neighbours, have no need of a chief invefied with any confiderable authority.

I can only hazard conjectures on the manners of these people, whose language I do not understand, and whom I have feen but for a day, I was affifted, however, by the experience of other navigators who have gone before, with whole accounts I am perfectly acquainted, and to thefe I added my own reflections.

Scarcely the tenth part of the land is cultivated, and I am perfuaded that three days labour is fufficient to procure the Indian sublistence for a year. Such facility in providing for the wants of life has led me to believe the productions of the earth are in common, particularly as I am almost certain their houses are common, at least to a whole village or a diffrict. I measured one of these houses which was near us*; it was 300 feet in length, 10 in breadth, and in the middle ten in height. Its form was that of a canoe inverted, and there was no

* This house was not yet finished, fo that Captain Cook could pot have for it. F 4

entrance

entrance except by creeping on the hands through two doors, both lefs than two feet high. This houfe, which would contain more than two hundred perfons, could not be the refidence of the chief, for there was no furniture, and fo great a space would have been useless to him; with two or three other houses not far distant, it therefore forms a village.

There is probably in every diffrict a chief who particularly fuperintends the plantations, of which Captain Cook imagined he was the proprietor. But if that celebrated traveller found fome difficulty in procuring a fufficient quantity of potatoes and yams, it must be attributed not fo much to a fearcity of those vegetables, as to the neceffity of obtaining an almost general confent for their fale.

I cannot venture to fay whether the women are common to a diffrict, and the children to the republic, but it is certain that no individual of the Indians appeared to have over any one women the authority of a hufband. If, however, they are individual property, their mafters are very prodigal of their rights.

Some of their dwellings are, as I have already obferved, fubterraneous, but as a proof that there are marfhy places in the interior of the ifland, others are conftructed of rufhes, very neatly arranged, which afford a perfect fhelter from the rain. The building refts on a bafe of hewn ftone*, 18 inches thick, in which they have bored holes at equal diftances to admit poles which bending archwife, form the roof, the fpaces of which are filled up with a thatch of reeds.

The identity of these people with the other islanders of the South Sea, as Captain Cook observes, cannot be doubted, for their language and national physiognomy are the fame, their manufactures also, made from the bark of the mulberry, though these trees are very rare, having been destroyed by the

* These stones are not granite, but solid lava. droughts.

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droughts. If feet high, an to encompafs winds : it is trees never they are fhelt

I do not these islander as the Societ have perished dogs to whom man, who at verage, can a have feen the like the albati the wet feafor fome hollows in gourds : bi of our crew. which I prefe that the goats falt, will fucc

At one in t deligning to r my fecond Ca found almost kerchiefs ; for plunderers, n reft. An Ind from a platfor he had render followed as uf ever caufe h all in the fame vilege of being continued ex which has giv lents these pe

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ROUND THE WORLD.

droughts. Such as have furvived are only three feet high, and there they have even been obliged to encomparis with walls to fecure them from the winds: it is remarkable that the height of there trees never exceeded that of the walls by which they are fheltered.

I do not doubt that in former periods of time thefe islanders have enjoyed the fame productions as the Society Iflands. But the fruit trees must have perified by the droughts, as well as the pigs and dogs to whom water is indifpentiably neceffary, while man, who at Hudson's Bay makes whale oil his beverage, can accustom himself to any thing, and I have feen the natives of Easter Island drink fea-water like the albatrofs of Cape Horn. We were there in the wet feafon, and finding a little brackifh water in fome hollows on the fea-fhore, they offered it to us in gourds: but it was rejected by the most thirsty of our crew. I do not flatter myfelf that the pigs which I prefented them will multiply; but I hope that the goats and theep which drink little and love falt, will fucceed there.

At one in the afternoon I came back to the tent defigning to return on board, that M. de Clonard, my fecond Captain, might go on fhore in his turn. I found almost all my people without hats or handkerchiefs; for our gentlenefs had encouraged thefe plunderers, nor was I at all diffinguished from the reft. An Indian who had affifted me in defcending from a platform, took away my hat, and as foon as he had rendered me this fervice, ran off at full fpeed, followed as usual by all the reft. I did not however caufe him to be purfued, for being nearly all in the fame ftate, I would not alone enjoy the privilege of being sheltered from the sun, and therefore continued examining the platform; a monument which has given me the highest opinion of the talents these people once possessed for building, for

here

here the pompous word architecture cannot be applied. They feem never to have been acquainted with any kind of cement, but they cut and fhaped their flones with perfect accuracy, placing and joining them according to the rules of art.

I have collected a few famples of these ftones; which are lavas of various denfitics. The lighteft. and which must consequently be the first decompofed, forms the face towards the land; that turned to the fea is constructed of a lava infinitely more compact, and I know not any inftrument or fubfance which these islanders possies, hard enough to cut these last; a longer stay on the island might have afforded fome light upon the fubject. At two o'clock I returned on board, and M. de Clonard went on thore. "Soon afterwards two officers of the Aftrolabe arrived to inform me, that the Indians had just committed a robbery, which had occasioned a confiderable contest. Some divers had cut the graphel rope of the Aftrolabe's boat under water, and carried off' her grapnel, which we did not perceive till the robbers had got a confiderable way into the interior of the ifland. As this anchor was necessary to us, a couple of officers, with feveral foldies, purfued them, but were foon overwhelmed with a flower of flones. A mulquet fired in the air without that produced no effect, and they were at last obliged to fire a charge of finall thot, fome of which, doubtlefs, touched one of the Indians, for the throwing of fones then ceafed, and our officers were able to gain the tent in tranquillity; but it was impossible to overtake the Indians, who must have been astonished at our patience, which all their infults had not been fufficient to fubdue. · · · /11

They foon, however, returned around our quarters, and again offering us their women, we became as good friends as at our first interwiew. At length, by fix in the evening, every thing was got on board, the

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1785.

the cances re to prepare to de Langle ga interior of the ing chapter. and fhewn th benevolence; of their chara to whom M. female goat, with the othe

Doubtlefs of theft with is attached to injuffice they the punifhme which, had v not have failed For our our et the moft difag

No one wh vigators, can for favages. confiderable : are as highly cumftances of founded, on t. on the manner The most has are not fuch l only to conce prefles not on dian who had the most cage in reality, ever They forcib

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fubgh to t have clock nt on rolabe comifiderl rope icd off obbers of the couple n, but flones. bduced fire a abtlefs, ing of to gain o overthed at en fuf-

quarpecame length, board, the

ROUND THE WORLD.

the canoes returned on fhore, and I made the fignal to prepare to weigh. Before we got under fail, M, de Langle gave me an account of his excursion into the interior of the island, which I shall relate in the following chapter. He had fown feeds through all his route, and shewn these islanders every mark of his extreme benevolence; yet, I think I shall complete the portrait of their character, when I relate, that a kind of chief, to whom M. de Langle had presented a male and female goat, received them with one hand, while, with the other, he stole his handkerchief.

Doubtlefs these people have not the same notions of these with us. Probably among them no difgrace is attached to it. But they are well apprised of the injuffice they commit, for they inflantly fly, to escape the puniforment which they evidently expect, and which, had we continued on the island, we should not have failed to inflict in proportion to the offence. For our our extreme lenity had, in the end, produced the most diffagreeable confequences.

No one who has read the accounts of modern navigators, can miftake the Indians of the South Sea for favages. On the contrary, they have made very confiderable progress in civilization; and, I believe, are as highly corrupted as poffible, under all the circumftances of their fituation. This opinion is not founded on the various thefts they committed, but on the manner in which those thefts were perpetrated. The most hardened, unblushing villains of Europe are not fuch hypocrites as these islanders, who carefs only to conceal fraud, and whole countenance exprefies not one fentiment of the heart. For the Indian who had just received a prefent, and appeared the most cager to render us a thousand fervices, was, m reality, ever the molt to be fulpected.

They forcibly dragged to us girls of 13 or 14 years of age, folely with the hope of receiving the reward of panders. Their repugnance evinced, that in them the

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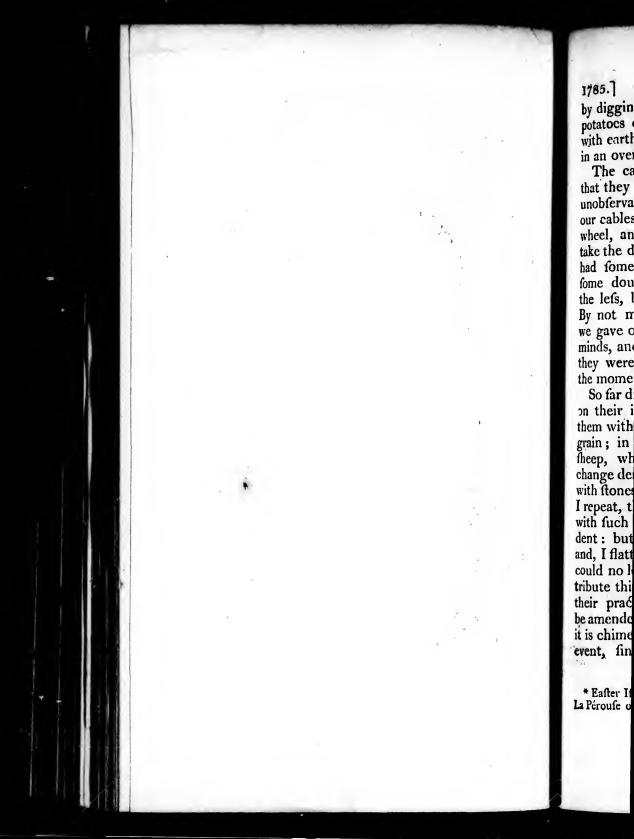
the laws of the country were violated, and every Frenchman diffained to use the brutal power which he thus possefield.

I have found, in this country, all the arts poffeffed by the people of the Society Iflands, but with much lefs opportunity of exercifing them for want of materials. The cances alfo are of the fame fhape, but they are composed only of very narrow planks, four or five feet long, and would, at the most, carry but four men. I faw only three on this part of the ifland; and I fhould not be furprifed, if, in a fhort time, through the want of wood, there fhould not be one remaining. In fact, they have learnt to do without them, for they fivin fo perfectly well, that in the higheft fea they go two leagues out, and fearch, by choice at their return on fhore, the places where the furf breaks with the greatest violence.

The coaft feemed to be flocked with very little fifth, and, I believe, the vegetable kingdom fupplies all the food of the inhabitants, who live on potatoes, yams, bananas, fugar-cane, and a finall fruit which grows on the rocks at the fea fide, refembling the bunches of raifins found in the neighbourhood of the tropies in the Atlantic Ocean. We cannot reckon, among their refources, a few fowls, which, in this ifland, are fo rare, that our travellers did not fee a fingle land bird, and fea-fowl are by no means common.

In the cultivation of their land thefe iflanders flew great intelligence, pulling up the weeds, burning them in heaps, and thus fertilizing the ground with their einders. The banana trees are planted in a ftraight line by the cord. They also cultivate the folanum, morel, or nightfhade, but I know not to what use it is applied. If I had observed vessels capable of resisting fire, I should have supposed that they dress it like spinage, as at Madagascar or the self of France. But they have no other manner of cooking their victuals than that of the Society Mandagascar





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by digging a hole in the earth, and covering their potatoes or yams with hot ftones and coals mixed with earth, fo that all their food is baked as it were in an oven.

The care they took to measure fly ship, proved that they did not behold our works of art with the unobservant gaze of slupidity. For they examined our cables, our anchors, our compass, our steering wheel, and came the next morning with a line to take the dimensions, which led me to think that they had fome discussion of the subject on thore, and some doubts remained. But I only effect them the less, because they are so capable of reflection. By not making use of our power against them, we gave occasion for one reflection to arise in their minds, and even that may perhaps escape them : yet they were not entirely blind to it, fince they fled at the moment a muscase the source of th

So far different was our conduct, that we landed on their ifland only to confer benefits, and load them with prefents. In their fields we fowed ufeful grain; in their habitations we left pigs, goats, and fheep, which will probably increase, and in exchange demanded nothing; yet did they attack us with ftones, and rob us of everything they could pilfer. I repeat, that in other circumfances to have behaved with fuch lenity, would have been extremely imprudent: but I was determined to depart in the night, and, I flattered myfelf, that in the morning when they could no longer perceive our veffels, they would attribute this fudden departure to our just contempt for their practices; and, by this reflection, they may be amended. Be this opinion as it may, and perhaps it is chimerical, navigators are little interefied in the event, fince this Ifland * fcarcely affords any refources

* Easter Island, discovered in 1722 by Roggewein, appears, as La Pérouse observes, to have experienced a revolution both in its population 78 LA PÉROUSE'S VOYAGE [1785. fources for fhips, and the Society Iflands are not far diffant.

CHAP. V.

EXCURSION OF M. DE LANGLE INTO THE INTERIOR OF EASTER ISLAND-NEW OBSERVATIONS ON THE MANNERS AND ARTS OF THE NATIVES, THE GUA-LITY AND CULTIVATION OF THEIR SOIL, ETC.

" **T** SET out at eight in the morning, accompanied by Meffrs. Dagelet, de Lamanon, Dufrefnc, Duché, l'Abbé Mongès; Father Receveur, and the Gardener, and went about two leagues to the eaftward towards the interior of the ifland. Our journey was very difficult over fmall hills covered with volcanic ftones. But I foon perceived paths which communicated from dwelling to dwelling. We took advantage of them, and vifited feveral plantations of vams and potatoes. The foil of these plantations was a very fat vegetative earth, which the Gardener judged proper for the culture of our grain; he therefore fowed cabbages, carrots, beet, maze, and gourds. We endeavoured to make the natives underftand that these feeds would produce fruits or roots for their fuffenance. They underflood us perfectly, and then showed us the best land, pointing out the places where they wished to see our new pro-. ductions arife. To these leguminous plants, we

population and the productions of its foil. We must, at least, draw that inference, from the difference in the accounts of blefe two navigators. The Reader who wishes to compare them, may confult the Voyage de Roggewein, printed at the Hague, in 1739, or the extract which the President de Brosses gives in his work, entitled, Histoires de Navigations aux Terres Australes, vol. ii. 226, and following pages.—French Editor.

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* Morus pa tion of the ba ligneous, the with the filk rifhment for French Editor. [1785. are not 1785.]

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added feeds of orange, citron, and cotton, endeavouring to make them comprehend they wcre/trees, and that what we had previoufly fown were plants.

"We found no other fhrubs than the paper mulberry tree ", and a fpecies of the mimofa or fenfitive plant: there appeared feveral confiderable fields of the morel, which they feemed to cultivate in lands impoverifhed by yams and potatoes. We continued our route towards the mountains, which, though very lofty, all terminate in gentle declivities, and are covered with grafs; on them we perceived no traces of floods or torrents.

"After having gone about two leagues to the eaftward, we returned by the fouth towards the fouth caft fide, which our fhips had failed along the evening before; and where, with the aid of our telefcopes, we had obferved feveral monuments. Many of thefe were thrown down, and it appeared that the inhabitants take no care to repair them, while others remained ftanding, with their platforms half ruined. The largeft of thole I measured was 16 feet 10 inches high, comprehending the capital, which is threefect one inch, and of a very light porous lava. Its breadth, at the fhoulders, was lix feet feven inches, and its thickness at the base two feet feven inches.

Having at length deferied a collection of huts, I directed my fteps to this little village as it were, of which one of the houfes was 330 feet in length, and in the fhape of an inverted canoe. Very near this hut we observed the foundations of several others; which now no longer exist; they are composed of lava cut into ftones, in which there are holes of about

* Morus papyrifera, which abounds in Japan, where a preparation of the bark is used for paper. With this bark, which is very figneous, the women of Louisana make various articles, together with the filk produced upon the tree, while the leaf affords nounifimment for the filk-worm. This tree also grows in France.---French Editor.

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two inches diameter. This part of the island appeared better cultivated and more populous than Cook's Bay, and the monuments and platforms more numerous. On feveral of the stones of which these platforms are composed, we remarked skeletons rudely sketched, and discovered holes closed up with stones, which, as we conjectured, lead to caverns containing the remains of the dead. An Indian explained to us by very expressive signs, that they were inhumed there, and afterwards ascended to Heaven. On the sca shore we met with several pyramids of stone arranged nearly like balls in a park of artillery, and perceived fome human bones in the neighbourhood of the pyramids and statues, of which the latter had always their backs directed towards the fea.

"The next morning we vifited feven platforms, on which were flatues either flanding or fallen. They only differed in fize, or the ravages time had committed on them in proportion to their antiquity. We found near the last of them a kind of layman or effigy of reeds, representing a man ten feet high, and covered with a white manufacture of the country: the head of a natural fize, the body thin, the legs pretty exactly proportionate, and a net hanging to its neck in the fhape of a bafket covered with white cloths, and apparently containing grafs. By the fide of this fack was the figure of a child two feet long, with the arms croffed and the legs hanging down. This layman, which could not have flood there many years, was perhaps the model from which ftatues are now erecting to the chiefs of their country. 'By the fide of this fame platform were two parapets forming an inclosure of 384 feet length by 324 broad. We could not difcover whether this was a refervoir for water, or the outline of a fortrefs against enemies; but it feemed a work left unfinished by its conftructors.

" Continuing our route weftward, we met about twenty

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twenty ch walking a mentioned " At th fawithe depth, and fembled th larger bafi ference. mi mated, by angle of 30 forms a pe containing whole furf The depth - " Fathe ter, inform the fineft p and it app the island, away of the caufed a g which is eq a tenth of t the fides of fertility of raneous fire faw at the met with o fwallow. veffels, whe paffed a gre approach :: children of were too fin * On the fie deftroyed by

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walking apparently towards the houses I have just mentioned.loss in the sector of the bourses in the sector of the bourses in the sector of the bourse in the sector of th

"At the fouthernmost extremity of the island, we faw the crater of an ancient volcano, whole fize, depth, and regularity excited our admiration. It refembled the frustrum of the cone, whole upper and larger basis appeared more than two miles in circumference. The extent of the lower basis may be effimated, by supposing the fide of the cone to form an angle of 30° with a perpendicular; the inferior basis forms a perfect circle, its bottom, which is marshy, containing several considerable pools of fresh water, whole surface appeared above the level of the sea. The depth of the crater is at least 800 feet.

-" Father Receveur, who defcended into the crater, informed us that the marsh was surrounded by the fineft plantations of banana and mulberry trees; and it appeared, as we had observed when coasting the island, that there had been a confiderable falling away of the land on the fide next the fea, which had caufed a great breach in the crater, the height of which is equal to one third of the cone, and its breadth a tenth of the upper circumference. The grafs on the fides of the cone, the marsh at the base, and the fertility of the adjacent lands, prove that the fubterraneous fires have long been extinguished *, and we faw at the bottom of the crater the only birds we met with on the whole ifland : these were the water fwallow. Night obliged us to return towards our veffels, when we obferved near one of the houses we paffed a great number of children, who fled at our approach. We imagined that in this house all the children of the diffrict were lodged, for their ages were too fimilar to admit of their belonging to the

* On the fide of the crater next the fea is a flatue almost entirely defiroyed by time, which proves that feveral ages have elapted fince the volcano has burnt out.

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two

two women who appeared to have the care of them." Near to this house was an earth hole, where yams and potatoes were dreffed in the manner practifed in the

."" On my return to the tent, I gave to three different inhabitants the three species of animals we deftined for this ifland, making choice of those which appeared moffilikely to propagate. . there a and noght

There Manders are hospitable, and frequently offered us potatoes and fugar canes, but never omitted an opportunity of plundering us when they could effect it with impunity. Scarcely the tenth part of the country is cultivated, and the lands already cleared are in an oblong form, and extremely regular, but without any kind of inclosure; the reft of the island being covered with a very coarfe grafs, which extends to the very fummit of the mountains. It was then the wet feafon, and we found the earth moiftened a foot deep. Some holes in the hills contained a little fresh water, but no where did we find any running ftream. The foil appeared of good quality, but were it advantageoufly watered, would have a liveher vegetation. We did not perceive among these people any implements of agriculture, and it is probable that when they have cleared the land, they make holes with fakes, and then plant their yams and potatoes. We found, though very rarely, a few bushes of mimofa, of which the thickest are only three inches in diameter at the ftem. The most probable conjectures concerning the government of these islanders is, that they compose but a fingle nation divided into as many diffricts as there are morais; for we observed that the villages are built near these cemeteries. " It appears that the productions of the carth are common to all the inhabitants of the fame district, and as men offer their wives to strangers without the least delicacy or referve, it may be suppofed they do not belong to any man in particular, and

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and that as foon as children are weated, they are delivered to other women, who in each diffrict are charged with their management.

" In this island we met with twice as many men as women; and if they are not in fact lefs numerous than the men; their apparent paucity mult have arifen from their being more domestic. Their whole population may be effimated at 2000, while the number of houses we faw building, and of their children, gave us reason to conclude their population is not on the decline. But there is ground to believe, however, that the inhabitants were more numerous when the island was better wooded. Had the inhabitants fufficient industry to build cifterns, they would remedy one of the greatest misfortunes of their fituation, and might even prolong their lives, for we did not fee one man that appeared more than fixty-five years of age, if we may be supposed to judge with accuracy of a people we knew to flightly, and whole mode of life is fo different from our own. hundled mand a more extensive apa, murthings kent active

DEPARTURE FROM EASTER ISLAND ASTRONOMICAL OBSERVATIONS ARRIVAL AT THE SANDWICH ISLANDS ANCHORAGE IN THE BAY OF KERIPOREPO, IN THE ISLAND OF MOWEE DEPARTURE FROM THAT ISLAND.

O N quitting Cook's Bay, in Eafter Ifland, in the evening of the 10th, I fleered to the northward, coafting the ifland by moon light at a league's difflance, and I did not lofe fight of it till the next day at two in the afternoon, though we were then from it about 20 leagues. The wind blew conftantly between S. E. and E. S. E. till the 17th, but the wea-G 2 ther

ther was perfectly clear, and did not change and become cloudy till the wind came round to E. N. E. where it fettled from the 17th to the 20th. At that time we began to catch bonitas* which conftantly followed our thips as far as the Sandwich iflands, and furnished every day, during fix weeks, a complete allowance for the whole of our crews. This wholefome food preferved their health in the best state; and after ten months navigation, during which we were only twenty-five days in port, we had not one man fick on board either of our fhips. We were navigating in unknown fcas, and our track was parallel to that of Captain Cook in 1777, when he failed from the Society Iflands for the N. W. coaft of America. though we were about 800 leagues more to the eastward. I had flattered myfelf, that in a run of near 2000 leagues I should have made fome difcoveries, and conftantly kept men at the maft head, to whom I had promifed a reward for the first who fhould difcover land; while, in order to command a more extensive view, our ships kept a-breast of each other during the day, leaving between them a space of 3 or 4 leagues.

During this paffage, as on all other occasions, M. Dagelet never omitted any opportunity to take lunar observations, which agreed so well with M. Berthoud's time-kcepers, that they never differed above 10 or 15 minutes of a degree, and thus became a check on each other. M. de Langle found his refults equally fatisfactory, and by the difference between the longitude; by account, and that by obfervation, we knew each day the direction of the currents. They carried us to the weftward as far as 1º S. lat. at the rate of about 3 leagues in 24 hours, where they changed to the eaftward, running with the fame degree of rapidity as far as 7° north, where

* A fifh, fo called, the oil of which becomes luminous when agitated .- See note, p. 11. 13255.

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they again refumed their westerly direction. On our arrival at the Sandwich iflands, our longitude by account differed about 5° from that by obfervation, whereas, had we, like the ancient navigators, poffeffed no means of taking lunar observations, we fhould have laid down the Sandwich iflands 5° further to the eaftward. Doubtless it is from this fetting of the currents, fo little attended to in former times, that the errors of the Spanish maps have arisen : for it is remarkable that the iflands difcovered by Quiros, Mendana and other navigators of that nation, have been again found in these later periods, but always at a greater diftance from the coaft of America than in their charts. And, I may add, that had not the felf-love of our pilots been hurt by the difference which daily occurred between our longitude by account and that by observation, we should have found an error of 8 or 10° in making the ifland; and confequently in lefs enlightened times we fhould have placed the Sandwich iflands 10° more to the eastward.

These reflections left me much in doubt concerning the existence of the cluster of islands called by the Spaniards La Mefa, Los Majos, La Difgraciada. In the chart which Admiral Anson took on board the Spanish galleon, and of which the Editor of his voyage has given an engraving, that cluster is placed precisely in the fame latitude as the Sandwich Islands, but 16° or 17° more to the eastward. My daily differences in longitude made me believe these islands were absolutely the same*; but what fully convinced

* In the courfe of the years 1786 and 1787, Captain Dixon put in three times at the Sandwich Islands, and entertaining the fame doubts as La Pérouse, on the identity of these islands, and those called Los Majos, La Mesa, &c. and after having made these remarks, drew precisely the fame conclusions, as may be seen by the following extracts from his voyage.

"The islands Los Majos, La Mesa, and Santa Maria de la Gorta, G 3 laid

ced me of it was the name of Mefa, or Table, given by the Spaniards to the island of Owhyhee. I had read in Captain King's description of this same island, that after having doubled the easternmost point they discovered a mountain called Mowna-Roa, which is perceived a long time before : "It is, (fays he) flat at the top, making what is called by mariners tableland," an English word uncommonly expressive of its form.

Though the featon was now far advanced, and I had not a moment to facrifice before my arrival on

laid down by Mr. Roberts, from 18 deg. 30 min. to 28 deg. north latitude, and from 135 deg. to 149 deg. weft longitude, * and copied by him from a Spanifu M. S. chart, were in vain looked for by us, and to use Maurelle's words, "*it may be pronsusted that no fuch Iflands are to be found*;" fo that their intention has uniformly been to miflead rather than affift fucceeding navigators.

"Our observations at noon, on the 8th of May, gave 17 deg. 4 4 min. north latitude, and 120 deg, 57 min. west longitude : in this fituation we looked for an island called by the Spaniards Reco *Partide*, but in vain; however, we stood to the northward under an easy fail, and kept a good look out, expecting foon to fall in with the group of islands already mentioned.

"From the 11th to the 14th, we lay to every night, and when we made fail in the morning, fpread at the diffauce of eight or ten miles, flanding wefterly; it being probable that though the Spaniards might have been correct in the latitude of these islands, yet they might be easily mistaken feveral degrees in their longitude: but our latitude on the 15th at noon being 20 deg. 9 min. north, and in 140 deg. 1 min. weft longitude, which is confiderably to the weftward of any island laid down by the Spaniards, we concluded, and with reason, that there must be fome groß "mistake in the chart."

"On the first of November, we looked out for Sta. Maria le Gorta, "which is laid down in Cook's chart, in 27 deg. 50 min north "latitude, and 149 deg. west longitude, and the fame afternoon "failed directly over it. Indeed we fearcely expected to meet with "any fuch place, as it is copied by Mr. Roberts into the above "chart, from the fame authority which we had found to be erro-"neous, respecting Los Majos and Roco Partida."

* It must be obferved, that Dixon reckons the longitudes weftward, while Cook in his 3d voyage reckons them eastward. For the former having failed weftward to double Cape Horn, found that mode of reckoning more natural and convenient. 1785.]

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the coast of America, I immediately determined to thape a courie to as to demonstrate the truth of falschood of my opinion. Had I been in an error, the refult must have brought me to a fecond cluster of islands, forgotten perhaps for above a century by the Spaniards, and have determined their precife fituation and diftance, from the Sandwich iflands. Those who know me best, how ever, will not suppose I was guided in this refearch by any defire to deprive Captain Cook of the honour of this difcovery. On the contrary, filled with admiration and respect for that great man, he will ever appear in my eyes the ableft of navigators, and the first who has precifely determined the fituation of these islands; explored their coafts, deferibed the manners, cuftoms, and religion of their inhabitants; a knowledge, for which, we must ever regret, he has paid with his life. He indeed is the Columbus of that country, of the coaft of Alaska, and of almost all the islands of the South Ignorance may, by chance, difcover a few Sea. islands but it belongs only to great men like him to leave nothing unexplored that appertains to the countries they have vifited. Mariners, philosophers, and naturalists, all find in his voyages the objects of their refearch. Every man, at least every navigator, owes a tribute of gratitude to his memory, and how can I withhold my fuffrage at the moment when I am approaching the clufter of Iflands where he fo tragically finished his career?

On the 7th of May, in 8° N. lat. we perceived feveral birds of the petrel kind, together with those called *frégates* and *paille en culs*, of which the two first are faid not to go far from land. We also obferved feveral turtles pass along fide; and the Aftrolabe caught two exceedingly good, which were divided with us. The birds and turtles followed us as far as 14°, and I have no doubt we were passing near fome island, though probably uninhabited; for G A a rock

a rock in the middle of the fea is a better refuge to thefe animals than a cultivated country. At that time we were very near Rocca-Partida and Nublada, and I fhaped my courfe to pafs nearly in fight of the former, if its longitude fhould appear to be accurately laid down; but I was not willing to run into its latitude, not having a fingle day to give up to this refearch. I knew well that in this courfe it was improbable I fhould fall in with it, and I was but little furprifed at not getting fight of it. When we had paffed its latitude the birds difappeared, and till my arrival at the Sandwich iflands over a fpace of 500 leagues, we never faw more than two or three in a day.

On the 15th I was in 10° 17' N. lat., and 130° W. long. which is the latitude of the group of islands laid down on the Spanish charts, as well as of the Sandwich islands, though 100 leagues to the eaftward of the former, and 460 of the latter. Thinking I fhould render an important fervice to geography, if I relieved our charts from these empty names of islands that have no existence, and perpetuate errors that are extremely prejudicial to navigation; I was defirous to banifh all doubt, by extending my track as far as the Sandwich Islands. I even formed an intention of paffing between the illand of Owhyhee, and that of Mowee, which the English had not an opportunity of exploring. I therefore proposed to land at Mowee to barter for fome provisions, and to depart without losing another moment. I knew that by only partially executing this plan, and 'running but 200 leagues on that line, I fhould give room for the doubts of iccptics. I was defirous that not the imalleft objection thould remain to oppose my conclusions.

On the 18th of May I was in 20° N. lat., and 139° W. long., precifely on the fpot affigned to the Spanish island Difgraciada, and had no indication whatever of land. 1785.] On. tl the who lefs reafo ifland, parallel l morning

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Owhyhee wee, fom the land leagues f off and o nel betw chorage of More agreed f having p chart, by 10 miles

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On the 20th I paffed through the middle of the whole group of Los Majos, and I never had lefs reafon to think myfelf in the vicinity of any island. I continued to run to the westward on this parallel between 20° and 21°, and at length, in the morning of the 28th, I defcried the mountains of Owhyhee covered with fnow, and foon after of Mowee, fomewhat lefs elevated. I crowded fail to near the land, but was at a diftance of feven or eight leagues from it at night-fall, which we spent standing off and on, waiting for day break to enter the channel between these two islands, and to fearch for anchorage under the lee of Mowcc, near the ifland of Morokinne. Our longitudes, by observation, agreed to perfectly with those of Captain Cook, that having pricked off the fhip's place, on the English chart, by our bearings we found a difference of only 10 miles, which we were more to the eaftward.

At nine in the morning I had the point of Mowce bearing weft 15° N., and perceived a fmall ifland bearing weft 22° N., which the English were not within fight of, and have therefore omitted to delineate on their chart, which is, in this part, very defective, while all they have laid down from their own observations deferves the highest praise. The island of Mowee afforded a most fascinating prospect. I ranged along it at the diffance of a league, where it runs into the channel to the S. W. by W. We beheld the torrents rufhing in cataracts from the proud fummits of the lofty mountains, and discharging themfelves into the fea, after watering the habitations of the natives, which are fo numerous, that a fpace of three or four leagues appears to form only a fingle village. But all the houfes are fituated by the fea fide, and the mountains are fo near them, that the inhabitable fkirt feemed to be lefs than half a league in breadth. It would be impoffible to form an idea of the fenfations this profpect excited in us, without being a feaman, and reduced

reduced, like us, to a bottle of water per day. The trees that crowned these mountains, the verdure, the bananas, around the dwellings, every thing, except the sea breaking with the greatest violence on the shore, contributed to enchant us; and, like Tantalus, we described and devoured with our eyes, what it was impossible for us to reach.

The wind frethened, we were running fix miles an hour, and I was defirous, before night, to complete the furvey of this part of the ifland, as far as the ifland of Morokinne, under which I flattered myfelf we fhould find an anchorage fheltered from the trade-winds. This plan, which was the refult of unavoidable circumfunces, did not admit of my fhortening fail to wait for about 150 canoes that put off from fhore, loaded with fruits and pigs, which the Indians propofed to exchange for pieces of iron.

Almost all the canoes came along fide one or other of our thips, but we failed fo fast that they filled with water. The Indians were forced to let go the rope we had thrown out to them." They threw themfelves into the fea, fwam after their pigs, and bringing them back in their arms, hoifted up the canoes on their shoulders, emptied the water they had shipped, and got into them again; endeavouring, by means of paddling, to regain the fituation along fide of us they had been obliged to abandon, and which had been immediately feized by others, who fucceffively experienced fimilar misfortunes. Thus we faw above 40 canoes fucceffively upfet; and although the trade we carried on with these good Indians was extremely beneficial to both parties, we could not poffibly procure above 15 pigs, and fome fruit, for we were deprived of opportunity to exchange near 300 more. The canoes had out-riggers, each held from three to five men; and their medium length was 24 feet, only one foot broad, and nearly as much in depth. We weighed one of that fize, which did not exceed

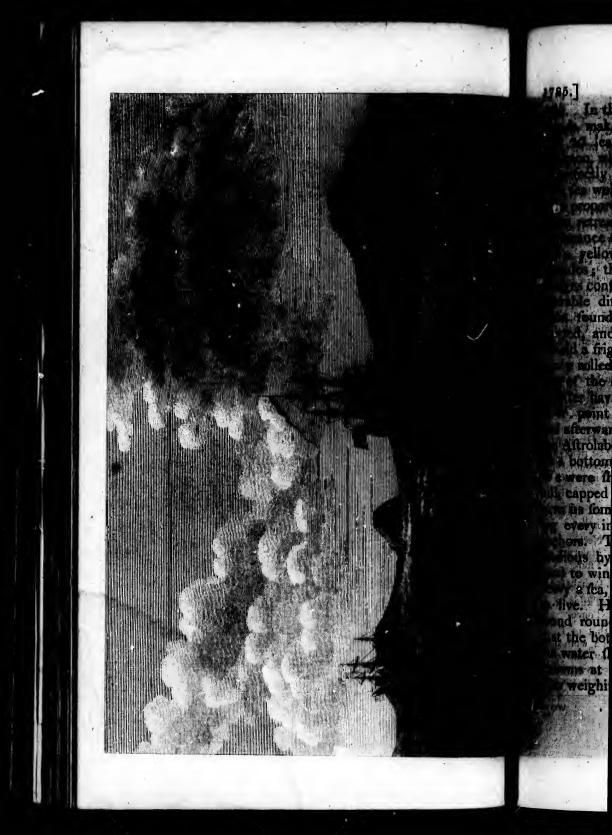
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In these flight veficls the inhabitants of these patieges of 60 leagues, traverie chanesque, which as that between Atopi and where the fes is very heavy, but they iwin city well, that they can only be compared a walk and phose.

a waites and phose. portion is we advanced, the mountains feem-streat within the ifland, which exhibited the ellow caff. We now no longer perceived the trees grew even much lefs clofe; the confifted only of ten or twelve huts at a cone distance from each other; we every mofound caule to regret the country we had and found no fhelter but, where our eyes s frightful thore, from which the lava had formilled, like the cafeades which, -in the, other the ifland, now fall from the mountains. minying fleered S. W. by W, as far as the point of the illand of Mowee, I hauled up weft, ferwards N. W., to gain an anchorage which firolabe had already taken in 23 fathoms water. bottom of grey faud, about a mile from the land. were ineltered from the fea breezes by a large capped with clouds, which, from time to time, the fome very hard fqualls; and the winds fhiftevery inftant, we were inceffantly dragging our This road was rendered the more incomto wind, excepting in fqualls, which caufed fo a fea, that out boats had the greatest difficulty live. However I fent one off immediately to id round our thips, and the officer informed me t the bottom was the fame as far as the fhore, that water fhoaled gradually, and there were feven me at two cables length from the beach. But weighing the anchor, I found that our cable was

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abfolutely useles; and that there must be many rocks covered only with a light thin bed of fand.

The Indians from the villages on this part of the ifland were eager to come on board in their cances, bringing us, for traffic, fome pigs, potatoes, banana, roots of *pied de veau*, which the Indians called *tarrp*, with cloths and fome other curiofities, which form part of their habiliments; but I would not permit them to come on board till the fhip was anchored, and the fails turled. I told them I was Taboo^{*}; and that

* A word which, according to their religion; expresses any thing that may not be touched, or a confectated place which they may not enter.

For the fignification of words in the language of the Sandwich Islands, we may rely on the vocabulary of Captain Cook, who made a long flay in these islands, and in his communications with the islanders, possessed advantages which no other navigator has been able to obtain. To all these grounds of confidence in him, we may add the known talents of Anderson, by whom he was so well affisted.

Dixon gives a vocabulary of their language, in which he makes taboo fignify embargo, though in his journal he explains the ceremony of impofing the taboo in the fame manner as Captain Cook.

The following is a comparison of feveral words taken from the two vocabularies, which proves what miftakes may be made when to a perfect ignorance of a language is added the uncertainty of the pronunciation of the words, the manner of expressing which varies in almost every individual:

 CORRESPONDING WORDS TAKEN FROM THE VOCABULRIES.

 Englifb words.
 Cook's.
 Dixon's.

 Coccoa Nuts,
 Eeneco,
 Neehu.

 The Sun,
 Hai, Raa,
 Malarma.

 A Gourd,
 Aiceboo,
 Tibo.

 A Woman,
 {Waheine, Maheine,}
 Cohaheene.

 Brother,
 Tooanna,
 Titunanie.

A Cord, Heaho, Touro. Cook's vocabulary, though more perfect than that of Dixon, fupports my affertion. We find the word denoting a woman different in two places; he repeats it without hefitation, and probably he learned its fignification of two perfons whofe pronunciation was different, for in one place he writes wabeine, and in the other

maheine. - French Editor.

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word, which i lift navigators pected. M. caution, had greatly incomwere however that we made greateft eafe. on board, the fent, their l pleafing us, with the mod

Old pieces their attention they want add of their barg tity of fluff, judging it we a feparate pri Their habi

of the use of own confession lifh, are add which former Spaniards*,

* It appears first time by Gas port of La Natilat. ficering to the that point of the titude) he fell in most naked. -1 flocked with coneither gold non probably on accohe named that w Island of Garden for geographers the fame spot wh

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word, which I had learnt from the accounts of Englift navigators, produced all the effect I could have expected. M. de Langle, not having ufed the fame caution, had for a moment the deck of his fhip greatly incommoded by a croud of Indians; who were however fo docile and fearful of giving offence, that we made them return to their canoes with the greatcft eafe. When I had fuffered them to come on board, they ftirred not a ftep without our confent, their looks betrayed a conftant fear of difpleafing us, and their commerce was conducted with the most perfect good faith.

Old pieces of iron hoops particularly attracted their attention and awakened their defire, nor did they want address to procure them by the managment of their bargains; for never would they fell a quantity of fluff, or a number of pigs by wholefale, well judging it would be more advantageous to demand a feparate price for every article.

Their habits of commerce, and their knowledge of the use of iron, for which, according to their own confession, they are not indebted to the English, are additional proofs of the communication which formerly existed between these people and the Spaniards, who, a century ago, had very strong reasons

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* It appears certain that thefe islands were discovered for the first time by Gaétano, in 1542. This navigator failed from the port of La Natividad, on the weftern coast of Mexico, in 20, N. lat. fittering to the weftward; and after having run 900 leagues on that point of the compass, (confequently without changing his latitude) he fell in with a group of islands inhabited by favages almost naked. Thefe islands were furrounded with coral, were flocked with cocoa-nuts, and feveral other fruits, but posses for the Kings, probably on account of the day when the discovery was made; and he named that which he discovered about 20 leagues farther weft the Island of Gardens. From this account it would have been impossible for geographers not to place the discoveries of Gaétano precifely in the fame foot where Captain Cook afterwards found the Sandwich-

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reasons for the concealment of these islands." The western feas of America were formerly infested with pirates, who would have derived fupplies of proviflons from these inlanders, the difficulty of procuring which obliged them to run weftward towards the Indian Seas, or return by Cape Horn to the Atlantic Ocean. When the navigation of the Spaniards in the weft was reduced to a fingle galleon from Manilla, I believe that veffel, which was extremely rich, was limited by the proprietors to a certain track, which diminified their rifk. Thus, by degrees, has this nation loft perhaps even the remembrance of these iflands, retained by Lieut. Roberts on the general chart of Cook's voyage, in their ancient supposed fituation of 15° to the eastward of the Sandwich Iflands. Their identity however with thefe latter being, in my opinion, established, I have

Islands.: But the Spanish Editor adds, that these islands are situated between 9° and 11° lat. instead of between 19° and 21°, as navigators must conclude from the track pursued by Gaetano.

. Was the omifilion of these ten degrees an error in the figures, or a contrivance of the policy of the Spanish Court, which had a great interest, a century ago, in concealing the situation of all the isfands in this ocean?

I am inclined to believe it is an error in the figures, for it would have been very bad management to have published that Gaétano departed from 20° lat. and steered due west. Had it been their intention to have concealed the true latitude, they might, with as light difficulty, have ascribed his course to another point of the compass.

However this may be, every thing coincides except the ten degrees, which must be added to the latitude given them by Gaétano. The diffance from the coast of Mexico; the people; their natural productions; the coast equally furrounded with coral; and, lastly, the extent from north to fouth is the fame: the bearing of the Sandwich Islands being nearly between the 19° and 21°, as that of Gaétano is between 9° and 119.

This further proof, joined with those before cited, reduces this geographical question to the greatest degree of certainty; to which, however, I may add, that there does not exist any cluster of Islands between the 9° and 11° degree, through which lies the usual track of the galleons from Acapulco to Manilla.

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thought it my duty to expange them from the fur-

It was fo late before our fails were furled, that I was obliged to defer till the morrow my landing on the island, where nothing could detain me but the advantage of an eafy watering place. We foon perceived, however, that this part of the coaft enjoyed no running fireams, the declivity of the mountains having directed the courfe of the rains to windward. The labour of a few days would perhaps fuffice to render this bleffing common to the whole ifland ; but these Indians who, in other respects, are greatly advanced, have not yet arrived at this fpecies of industry. Their form of government may be learnt from the accounts of the English, and the extreme subordination which reigns among them fufficiently proves an acknowledged authority exifts, extending gradually from the king to the most inconfiderable chief, and ultimately bearing on the people. I was pleafed and entertained by an imaginary comparison of these Indians with those of Easter Island, whose industry is, at least, equally advanced; for the monuments of the latter evince more intelligence, their cloths are better manufactured, and their houses better constructed, though their government is fo defective that no one has the power of fuppreffing diforder. They acknowledge no authority, and though I do not believe them to be depraved, it too commonly happens that licentiousness generates diffagreeable and often fatal confequences. In this comparifon every advantage was in favour of the Sandwich Mands, notwithstanding the death of Capt. Cook had excited all my prejudice against them. It is more natural for navigators to regret with anxiety the lofs of fo great a man, than to examine, in the coolblooded fpirit of investigation, whether fome rafhness or imprudence on his part did not, in fome measure, compél

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compel the inhabitants of Owhyhee to fland on their own defence.

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"It is but too clearly proved, that the English were the aggreffors, a truth which they would in vain endeavour to conceal. I draw my proofs from the accounts of Captain King himfelf, who was the particular friend of Captain Cook, and regarded him as his father, while the islanders believed him to bear that relation, and who, after a faithful narration of the events which led to his death, adds: "I was fearful that his confidence might "at fome unlucky moment put him too much off his guard."

The reader may judge of the fact himfelf, by a comparison of the following circumstances. On fioland and standard state to be

Cook too inconfiderately gave orders for firing in cafe the workmen fhould be diffurbed, notwithftanding the experience he had of the maffacre of ten of Captain Furneaux's crew, occafioned by two fhots fired on the Zealanders, who had committed a petty theft of bread and fifth. The order furne third gath and for the room

Pareea, one of the chiefs, on claiming his cance which had been feized by the crew, was knocked down by a violent blow with an oar which ftruck him on the head. When recovered from the fhock, he had the generofity to forget the violence committed on him, and a fhort time afterwards returned with a hat that had been ftolen, which he reftored, and even expressed in fear that Captain Cook fhould kill or punifu him.

Previous to any other offence having been committed, except the stealing of the boat, two guns were fired on a couple of large cances which were endeavouring to make off.

which were endeavouring to make off. Notwithftanding these circumstances, Cook marched to the vilinge where the king was, and received all the usual marks of respect, the inhabitants prostrating themselves before him.

Nothing indicated any hoftile intentions on the part of the Iflanders, when the boats flationed acrofs the bay fired again on the cances which attempted to cfcape, and unfortunately killed a chief of the highest rank.

His death enraged the inhabitants, one of whom only fhewed marks of defiance to Captain Cook by menacing him with a flone. On this man Captain Cook fired, but the ball was prevented from taking effect by the mat with which he was covered: that flot, however, becoming the fignal for combat, Phillips was on the point of being flabbed, when Cook fired a fecond time with ball and killed the native who was neareft to him: the attack immediately became more ferious, and the marines and failors fired a difcharge of mulquetry.

Already four of the former were killed, and three others, together with the lieutenant, wounded, when Captain Cook perceiving his danger, approached the water's edge, calling to the boats

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We may add; carry the king

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The night of a few fqu two minutes boat of the De Vaujuas to found a and where I but this other able; was no occupied. cers, this pair gators neither convenient quented.

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The night was very moderate, with the exception of a few fqualls, which did not continue fo much as two minutes at a time. About day-break the longboat of the Afrolabe was diffatched with Meffrs. De Vaujuas, Boutin, and Bernizet, who had orders to found a very deep bay which lay to the N. W. and where I fulfpected there was better anchorage; but this other anchoring place, though equally attainable; was not more commodious than that we already occupied. According to the account of these officers; this part of the island of Mowee affording navigators neither wood nor water, and having very inconvenient road-fteds; must naturally be little frequented.

At eight in the morning four boats were ready to fet off from our two fhips; the two first carrying 20 foldiers under arms, commanded by M. de Pierrevert, one of my lieutenants, and in the two others were M. de Langle and myfelf, followed by all the paffengers and the officers not on duty. This warlike train gave no alarm to the natives, who, from day-break, lay alongfide us in their canoes. They did not follow us on fliore, but continued their traffic, and preferved an air of confidence which their countenances had never before expressed. About 120 people, men and women, awaited our arrival on the beach. The foldiers with their officers first landed; we marked the fpot we meant to referve for our quarters; and the foldiers, with bayonets fixed, performed their manœuvres with the fame exactitude as in the prefence of an enemy. These ce-

to ceafe firing, and come close in fhore to re-embark his little party; but he was the fame moment flabbed in the back and fell forwards into the fea.

We may add; that Cook intending, forcibly or otherwife, to carry the king and his family on board; and having for that purpose to penetrate some way up the country, made too weak an arrangement for his object, in taking with him only a detachment of ten mea....French Editor.

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remonies made no impression whatever on the natives; and the women evinced, by the most uncquivocal gestures, that they would grant us every poffible mark of their kindnefs ; while the men, with a respectful demeanor, endeavoured to discover the motives of our vifit merely to anticipate our wifnes. Two Indians, who appeared to have fome authority over the reft, advanced, and, with an air of confiderable gravity, making a pretty long harangue, of which I did not comprehend a fyllable, offered me each a pig, by way of prefent, which I accordingly accepted, and, in return, gave them fome medals, hatchets, and pieces of iron, which, in their eyes, are of ineftimable value. My liberality produced a great effect, and the women redoubled their carefles. though their perfons were far from feducing. Their features were void of delicacy, and their drefs fuffered us to perceive that the fyphilis had committed ravages on the greater number. As no woman came on board in the canoes, I imagined they attributed to the Europeans that malady of which they bore the marks: but I foon perceived that this idea, if it existed, had not left a spark of resentment in their mind.

Let me, however, be permitted to examine whether the modern navigators are the real authors of thefe evils, and if the crime with which they reproach themfelves in their accounts is not, in fact, rather imaginary than real. That my conjectures may have the greater weight, I thall reft them on the obfervations of Mr. Rollin, a very intelligent man, and furgeon-major on board my fhip. He vifited feveral inhabitants in this ifland who were attacked by that difeafe, and not only remarked fymptoms which in Europe would require 12 or 15 years to be gradually developed, but alfo obferved children feven or eight years old infected with this diforder, which they could only have contracted at the breaft. I fhall add, 1786.] add, thi Sandwici heow; a from the Mowee, lady. I Atooi, for concernin the com

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these islands bable the the evils race.

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whebors of proach rather y have obferh, and feveral by that hich in dually r eight h they I fhall add, ROUND THE WORLD.

add, that Capt. Cook, in his first voyage to the Sandwich Islands, only landed at Atooi and Onceheow; and that nine months after, when returning from the north, he found almost all the inhabitants of Mowee, who came on board, infected with that malady. Mowee being 60 leagues to windward of Atooi, fo rapid a progress must excite fome doubts concerning its origin*. If to these remarks we add the communication which formerly existed between these islanders and the Spaniards, it will appear probable they have long shared, with other nations, all the evils produced by this scourge of the human race.

This difcuffion was due to modern navigators, whom all Europe, mifled by their own accounts, would for ever have reproached with a crime, the conductors of those expeditions deemed it impossible to prevent. But their not having taken sufficient precautions to prevent the evil, is a reproach they cannot escape. Were it even demonstrated, that the introduction of this malady is not attributable to their imprudence, it is not equally clear that their communication with these people has not increased its activity, and rendered its confequences more terrible[‡].

After vifiting the village, I ordered a ferjeant and fix foldiers to accompany us, leaving the reft on the

• It appeared to Captain Cook, that the inhabitants of Mowee had been informed of his touching at Atooi and Oneeheow. Cook's 3d Voyage, vol. iii. We ought not, therefore, to wonder, that the difeafe and the news paffed together. Bougainville is convinced the inhabitants of the islands, at a confiderable distance from each other in the Pacific Ocean, keep up a reciprocal communication. Voyage, Autour du Monde par Bougainville, p. 234.—French Editor.

† Doubtless the modern navigators are justly reproached for knowingly communicating the venereal difease to the islands of the South Sea; Captain Cook does not difguise it in his accounts, as may be seen particularly from his observations in his 3d Voyage, yol. ii. and yol. iii. — French Editor.

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beach,

beach, under the orders of M. de Pierrevert, in whofe care I left the boats, from which not a failor had yet landed.

Although the French were the first of the moderns who landed on the Island of Mowee, I did not think it my duty to take pofferfion of it in the king's name: for the cuftoms of Europeans, in this refpect, are completely ridiculous. Philosophers must, doubtlefs, regret there are men who, becaufe armed with bayonets and cannon, count for nothing 60,000 of their fellow creatures; and, regardless of the most facred rights, confider as an object of conquest, a land which the inhabitants have fertilized with the fweat of their brow, and has contained for ages the tombs of their anceftors. Happily these countries have been discovered in times when religion no longer affords a pretext for outrage and cupidity. The object of modern navigators in defcribing the manners of new nations is only to complete the hiftory of man; and their expeditions ought to complete our knowledge of the terraqueous globe, fince the lights they foread around them are intended only to transmit new happiness, and augment the means of fubfiftence to the nations they vifit.

On these principles we have already transported to their islands, bulls, cows, goats, theep, and rams; we have planted their lands with trees, and fown their fields with grain; we have carried them utenfils to accelerate the progress of industry: while, on our parts, the fatigues of our voyage would be amply repaid, could we but deftroy that horrid custom of human facrifice faid to prevail in all the Islands of the South Sea. But, notwithstanding the opinion of Mr. Anderson and Captain Cook, I think with Captain King, that a people fo good, fo gentle, and fo hospitable, cannot really be cannibals. It is difficult to affociate religious ferocity with gentleness of manners; and fince Captain King relates, that the priefts

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priefts of conclude any prog human f ftill lefs f of devou probably elapfed.* The fi fragment the inhal fhallow w

than half During lages, ea which are fhaped li being in at the gal admits of only with furniture like carpo kitchen u thape at delineate have feen large vafe which, the compofitio quantities from the r

* The hot practice, and body of Cap Captain Coo New Zealand making hum peral in all t

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ted to rams; fown utenle, on e amuftom flands pinion k with e, and is difnefs of nat the priefts ROUND THE WORLD.

priefts of Owhyhce were their beft friends, I muft conclude, that if gentlenefs and humanity have made any progrefs among a clafs devoted by their office to human facrifices, the reft of the inhabitants muft be ftill lefs ferocious. It is evident, therefore, the practice of devouring human flefh no longer fubfifts, though, probably, the period of its ceffation has not long elapfed.*

The foil of this country is wholly composed of fragments of lava, and other volcanic matter, and the inhabitants drink only brackifh water from véry fhallow wells, in fo little abundance as to fuppy lefs than half a hogfhead from each daily.

During our excursion we discovered four little villages, each containing about ten or twelve houses, which are not only covered but built with ftraw, and shaped like those of our poorest peasants; the roofs being in the form of a penthouse. The door, placed at the gable end, is only three feet and a half high, admits of no entrance without flooping, and is flut only with a hurdle which any one may open. The furniture of these islanders confists of matts, ftrewed like carpets, on which they fleep; and their only kitchen utenfils are very large gourds, which they fhape at pleafure while green. They varnish and delineate various defigns on them, in black; and I have feen feveral joined together, fo as to make very large vales, with a glue that relifts moisture, and of which, therefore, I was very defirous of knowing the composition. Their cloths, of which they have great quantities, are made like those of the other islands from the paper mulberry, but notwithstanding they

* The horror of these people at our suspecting them of such a practice, and especially when asked whether they had devoured the body of Captain Cook, confirms the opinion of La Pérouse; yet Captain Cook has proved to a certainty its existence among the New Zealanders; and it cannot be differibled, that the custom of making human facrifices, and eating enemies killed in battle, is general in all the islands of the South Sea.—French Editer.

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are varioufly painted, yet, in this manufacture, they are not equally fkilful with the latter. On my return I received another harangue from fome women who waited for me under a tree, and prefented me feveral pieces of cloth, for which I returned them fome hatchets and nails.

The reader must not expect many particulars of a people already fufficiently known from the accounts of the English navigators, who passed four months in these islands, where we remained only a few hours. The former had the advantage of knowing the language of the country, and, therefore, we must confine ourselves to the history of our own adventures.

We began to re-embark at eleven o'clock without the leaft reafon to complain of any mifbehaviour, and were all on board by twelve. M. de Clonard had received a Chief, and purchafed of him a mantle, and a beautiful helmet covered with red feathers; and had also bought more than 100 pigs, fome bananas, potatoes, *taro*, a great many cloths, fome matts, a canoe fitted with an outrigger, and other fmall articles made of feathers and shells.

At our arrival on board, our fhips were driving, it blew very firong from the E. S. E., and we were dropping down upon the ifland of Morokinna, which, however, was fufficiently diftant to admit of our hoifting in our boats. I made the fignal to weigh, but before we could get our anchor up, I was obligcd to make fail, and to drag it till I had paffed the ifland, left I fhould drive beyond the mouth of the channel. Had it unfortunately hooked in a rock, and had not the bottom been fufficiently hard and level for it not to take hold, I fhould have been obliged to cut the cable.

We had not done weighing our anchor till five in the afternoon, when it was too late to fleer between Ranai and the weft fide of Mowee. Though it was a new channel which I was defirous to reconnoitre, prudence

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prudence eight o'c we could wind fett at an equ ifland of At daybro of Morot league dif the chann rotoi. T fide next very popu in these if confequen windward &c. are fo every thin regard to Meffirs. minuteft and Moro unable to leagues of On the clear of a 48 hours i eftablish a ance, as it which hav us from th last anchor remark, t

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prudence forbad my attempting it by night. Till eight o'clock we had baffling light airs, with which we could not make half a league. At length the wind fettled at N. E. when I fteered weft, paffing at an equal diftance from the N.W. point of the island of Tahoorowa, and the S. E. point of Ranai. At daybreak I flood in for the S. W. point of the ifle of Morotoi, which I coafted at three-fourths of a league distance, and came out, as the English did, by the channel between the islands of Wohaoo and Mo-The latter did not appear inhabited on the rotoi. fide next us, though, according to the English, it is very populous on the other. It is remarkable, that in these islands, the most fertile and falubrious, and confequently the most inhabited parts are always to windward. Our iflands of Guadaloupe, Martinico, &c. are fo perfectly fimilar to this new clufter, that every thing appeared abfolutely the fame, at leaft, in regard to navigation.

Meffis. Dagel de Bernizet furveyed, with the minutest care and attention, all the parts of Mowee and Morokinna we coasted, which the English were unable to do with accuracy, because never within ten leagues of the land.

On the 1ft June, at fix in the morning, we were clear of all the iflands, having employed lefs than 48 hours in thefe furyeys, and, at moft, a fortnight to eftablifh a geographical point of the greateft importance, as it removes from our maps five or fix iflands which have no real exiftence. The fifth that followed us from the neighbourhood of Eafter Ifland to our laft anchorage now difappeared; and it is worthy of remark, that the fame fhoal of fifth accompanied us 1500 leagues. Several bonitas, wounded by our fifthgigs, * bore marks impoffible to be miftaken, and we thus recognized each morning the identity of the

> A fmall harpoon, H 4

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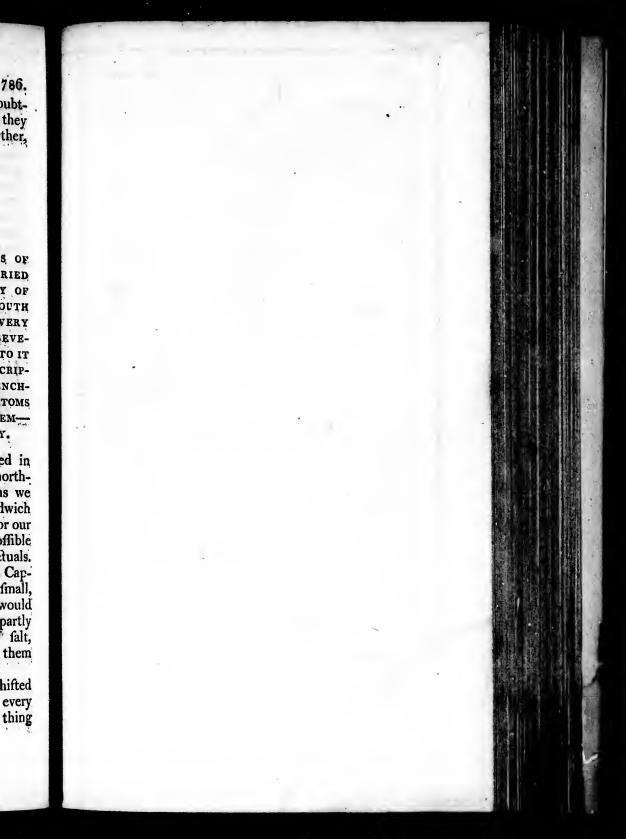
fifh we had observed the preceding evening. Doubtless, had we not put in at the Sandwich islands, they would have followed us 2 or 300 leagues further, till the climate became irresistible.

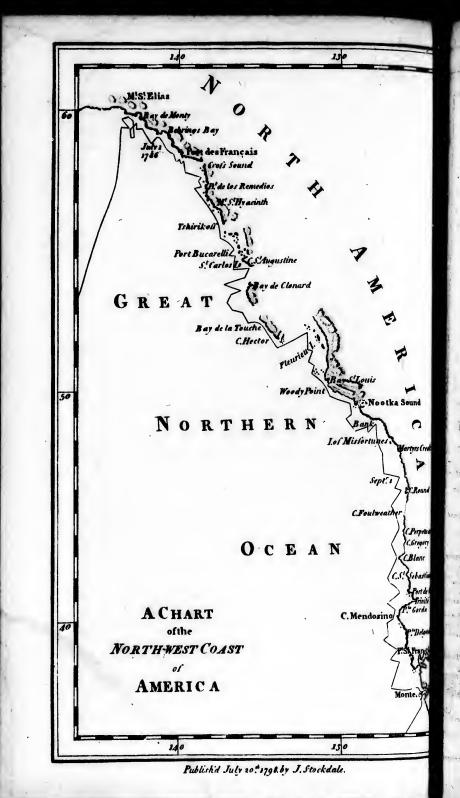
CHAP. VII.

DEPARTURE FROM SANDWICH ISLANDS-SIGNS OF APPROACHING THE COAST OF AMERICA-DESCRIED MOUNT ST. ELIAS-DISCOVERY OF THE BAY OF MONTI-OUR BOATS RECONNOITRE THE MOUTH OF THE GREAT RIVER BEHRING, AND A VERY DEEP BAY-THE FAVOURABLE REPORT OF SEVE-RAL OF OUR OFFICERS INDUCES US TO PUT INTO IT -DANGERS INCURRED IN ENTERING-DESCRIP-TION OF THIS BAY WHICH I NAMED FRENCH-MAN'S BAY AND PORT-MANNERS AND CUSTOMS OF THE INHABITANTS-BARTER WITH THEM-JOURNAL OF TRANSACTIONS DURING OUR STAY.

THE eafterly winds continued till we arrived in 30° N. lat. directing our course to the northward with fine weather. The fresh provisions we had procured during our short stay at the Sandwich Islands, ensured falubrious and agreeable food for our crews during three weeks, though it was impossible to keep our pigs alive for want of water and victuals. I was therefore obliged to have them falted in Captain Cook's method. These pigs being very small, the largest not exceeding 201bs weight, they would have been soon corroded, and their substance partly destroyed, if long exposed to the activity of falt, for which reason we were obliged to confume them first.

On the 6th June, in 30° N. lat. the wind fhifted to S. E. The fky became watery and dull; every thing





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menced or clear interv the feas, w foggy, but. this opinio land, and l eminence with their penetrated flattered us by melanci Bay, that caule of fci ed, yet fo difposed us large brazi between de a pair of b and breech from Cape My furg to the crew ance of gr without per the most fa be fecretly certainly r objection a * The Free

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thing announced that we had quitted the track of the trade-winds: I found we fhould foon regret the loss of that ferene weather which had maintained our health, and by favour of which we had every day made observations of the moon's diffance from the fun, or, at least, compared the true time of the meridian with that of our time-keepers.

My fears were too fpeedily realifed. The fogs commenced on the 9th June, in 34° N. lat. without a clear interval till the 14th, in 41°. I almost thought the feas, which divide Europe from America, lefs foggy, but it would be an error irrevocably to adopt this opinion ; for the fogs of Nova Scotia, Newfoundland, and Hudion's Bay, enjoy an incontestible preeminence of opacity, though they can fearcely vie with their unequalled humidity. This rain of fog penetrated every failor's baggage, which not a folar ray flattered us with the profpect of drying; and I knew, by melancholy experience in my voyage to Hudson's Bay, that this frigid humidity was the most effential caule of fcurvy. Although no fymptoms yet appeared, yet to long a continuance at fea must have predisposed us all to that diforder. I therefore ordered large braziers to be placed under the half-deck, and between decks where the feamen lay; I gave each a pair of boots, and distributed the stuff waistcoats and breeches I had kept in referve fince our departure from Cape Horn.

My furgeon, who fhared M. de Clonard's attention to the crew, proposed to mix with the morning allowance of grog * a flight infusion of bark, which, without perceptibly altering its tafte, might produce the most falutary effects. I ordered this mixture to be fecretly performed, as the crew would otherwise certainly refuse it; but as it was unperceived, no objection arole to this practice, which would doubt-

* The French Narrator explains in a note, that this grog was a mixture of one part of brandy and two parts water.

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less have been strenuously opposed, had it been submitted to the general opinion.

These precautions, though crowned with perfect fuccess, engroffed not our leifure during our long passage. My carpenter, following the plan formed by M. de Langle, constructed a corn-mill, which became extremely useful.

The infpectors of provisions, convinced that baked grain keeps better than either flour or bifcuit, recommended our taking out a confiderable flock of corn, which we augmented in Chili. We were furnished with mill-ftones 24 inches in diameter, and $4\frac{1}{2}$ thick, requiring four men to put them in motion. Being affured that M. de Suffren had no other machinery for his whole fquadron, we could not doubt they were fufficient for our little equipment. But when we began to use them, our baker observed the corn was merely bruifed, while four men, though relieved every half hour, only produced 25lb. of ill-ground flour per day. As our corn fupplied near half our fubfiftence, we fhould have experienced the greateft embarraffment, had not the inventive genius of M. de Langle, with the affiftance of a failor, formerly a journeyman miller, contrived a fpecies of wind-mill adapted to our purpose. At first he employed, with fome degree of fucces, fails turned by the wind, but foon fubfituted a winch, and obtaining as perfect flour as that of ordinary mills, ground two hundred weight per day.

On the 14th the wind fhifted to W. S. W. The following meteorological obfervations are the refult of our long experience. The fky is generally clear when the wind is only a few degrees to the northward of weft; and the fun appears on the horizon: from W. to S. W. cloudy, with fome little rain: from S. W. to S. E., and even to eaft, hazy weather and extreme humidity, penetrating into the cabins and every part of the fhips. Thus a reference to the ftate

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fate of the winds will always convey to the reader the ftate of the atmosphere, and be a useful guide to those who may fucceed us in this navigation. Should readers, who amufe themfelves with our adventures, take an interest in those who have experienced the difficulties and fatigues attending them, they will not, perhaps, contemplate with indifference, navigators who, beyond the limits of the habitable world, and after a continual contest with fogs, bad weather, and fcurvy, have explored an unknown coaft, the theatre of each romance *, that has found too eafy a reception among modern geographers +.

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* Such as the voyage of Admiral Fuentes, and the pretended expeditions of the Chinese and Japanese on that coast.

+ However extraordinary the accounts of the voyage performed by Admiral Fuentes, or de Fonte may appear, we cannot venture wholly to reject them, when we compare his chart of discoveries with those of Cook, La Pérouse, Dixon, and Meares. It appears by the difcourfe pronounced by Buache before the Academy of Sciences, that Lorencio Ferrer de Maldonado found a north paffage by entering a ftrait in Hudfon's Bay, which is the fame as that which Admiral de Fonte fell in with when coming from the South Seas, and laid down in the French charts as Repulfe Bay. The voyage of Maldonado appears authentic, and is dated 1588, that of Admiral de Fonte 1640, and unless it be proved, that he knew of the former expedition, and made that the basis of a romance, the coincidence between them must still leave fome doubts; and, in geography, every doubt fhould be perpetuated, till it yields to the most incontrovertible proofs.

Neither the difcourfe of Buache, nor the Spanish voyage which formed its basis, are yet printed. Those who wish to know all the disputes to which the voyage of Admiral de Fonte gave birth, will find them in the following works.

* Explication de la carte des nouvelles découvertes au nord de la mer du Sud. Par de Lifle, &c. Paris, 1752.

Confidérations géographiques et phyfiques sur les nouvelles découvertes au nord de la grande mer, appelée vulgairement la mer du Sud. Par Philippe Buache, Sc. Paris, 1753.

Nouvelles Cartes des découvertes de l'amiral de Fonte, &c. Par de Lifle, Esc. Paris, 1753.

Lettre d'un officier de la marine russienne à un seigneur de la cour, Sc. A Berlin.

Observations critiques sur les nouvelles découvertes de l'amiral Fuentes, Sc. Par Robert de Vaugondy, fils, Sc. Paris, 1753.

Journal

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This part of America, as far as mount St. Elias, in 60°, was merely deferied at a diftance by Captain Cook, except the port of Nootka, where he put in. But from that mountain to the point of Alaska and frozen Cape, this celebrated circumnavigator kept in with the coaft with all the perfeverance and courage he was known by all Europe to poffers. Indeed the exploration of that coaft of America, from Mount St. Elias to the port of Monterey, though a most interesting object to navigation and commerce, required many years to perform; and we were aware, that in the two or three months which the featon, and the yaft plan of our voyage, permitted us at most to devote to it, we fhould leave many objects to be inveftigated by future navigators. Many ages, perhaps, will elapfe, before every bay and port of this part of America is perfectly known. But the true direction of the coaft, the determination of the latitude and longitude of its most remarkable points, will attach to our labours a utility which no feaman will dispute.

Since our departure from the Sandwich Iflands, and till our making Mount St. Elias, the wind was fair without a moment's interruption. As we approached the land we faw fea weed float by, of a fpecies abfolutely new to us, confifting of a pipe 40 or 50 feet long, terminating in a ball of the fize of an orange, and refembling the ftem of an overgrown onion. Whales of the largeft fpecies, divers, and gulls, announced the approach of land, which, at length, we deferried on the 23d, at four in the morning, when the fog difperfing, permitted us fuddenly to perceive a long chain of mountains covered with fnow, which we might have feen in clear weather at the diffance of 30 leagues further out. We then re-

Journal historique, Mémoires pour l'histoire des fciences et des beaux arts, Journal des Savans, Journal économique, pour l'année 1753.—French Editor.

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able fenfat us but littl repose on n barren foil. tance from toifes high fire, deftit a ftriking which we as a bafis t to extend thought th as it were a extremely But advan form low took for if our fhips, posed, ther fmall diftan along the to the foul in that qua to wait for the wind found our vation, and A thick fo the 25th, and the co in the mo two league with a bot meeting w the belief

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cognized de Behring's Mount St. Elias, whofe fummit appeared above the clouds.

The fight of land, which ufually produces agreeable fenfations after a tedious navigation, caufed in us but little effect; for the eye found no pleafure or repose on masses of snow, which covered a naked and These mountains appeared at some difbarren soil. tance from the fca, which broke on a flat 150 or 200 toifes high. This black platform, as if calcined by fire, defitute of every approach to verdure, afforded a striking contrast with the whiteness of the snow. which we perceived through the clouds, and ferved as a bafis to a long chain of mountains that feemed to extend 15 leagues from east to west. At first we thought them very near us, their fummits appearing as it were above our heads, the fnow fpreading a light extremely deceitful to eyes unaccustomed to it. But advancing nearer, we perceived below the platform low lands covered with foliage, which we miftook for illands, where we expected to find thelter for our fhips, and wood and water for the crews. I proposed, therefore, to reconnoitre these islands at a very fmall diftance, favoured by the caft winds that blow along the coaft. But they prefently chopped about to the fouthward, the atmosphere became very black. in that quarter of the horizon, and I thought it better to wait for more favourable weather, and haul close to the wind which blew dead on the fhore. We had found ourfelves at noon in 59° 21' N. lat. by obfervation, and 143° 23' W. long. by our time-keepers. A thick fog covered the land throughout the day on the 25th, but on the 26th the weather was very fine, and the coaft was vifible, with all its windings, at two in the morning. I ranged along it at a diftance of two leagues, the depth of water being 75 fathoms, with a bottom of foft mud. I was very defirous of meeting with a harbour, and was foon flattered with the belief that I had found one.

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I have already fpoken of a platform 150 or 200 toifes high, forming the bafis of immenfe mountains fome leagues in land. We foon perceived to the eaftward a low point, covered with trees, which feemed to extend as far as this plain, and terminate at a diffance from a fecond chain of mountains further to the eaftward. We all unanimoufly agreed, that the platform terminated at the low point of land covered with trees, that it was an ifland feparated from the mountains by an arm of the fea, and that it muft lie eaft and weft like the coaft, and, confequently, we fhould find in that imaginary channel a commodious fhelter for our fhips.

I fleered for this point, keeping our lead going, and found the finalleft depth of water 45 fathoms, over a muddy bottom; when, at two in the afternoon, I was obliged to anchor on account of the calm. The wind had been very faint throughout the day, varying from weft to north. We had observed at noon, 59° 41' N. lat., and our time-keepers gave 143° 3' W. long., at three leagues to the S. E. of the woody point, which I continued to miltake for an ifland. At ten in the morning I had difpatched my long boat under the command of M. Boutin, to reconnoitre this channel or bay, and Meffirs. de Monti and de Vaujuas had left the Aftrolabe on the fame purfuit, while we lay at anchor waiting their return. The fea was unruffled, the current fet to the S. S. W. at the rate of half a league an hour, which confirmed me in the opinion, that if the woody point was not the mouth of a channel, it must at least be that of a great river.

The barometer had fallen one-fourth of an inch in 24 hours, the fky was very black, and every thing announced that bad weather would foon fucceed the dead calm which had obliged us to come to an anchor. At length, about nine o'clock, our three boats returned, and the officers declared there was neither a channel nor a river, but the coaft formed a confiderable femicircular

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circular re and a mu wind betw most dans the beach M. de Mo as he was I called it cause of c fome land trees, whi tion. Me had taken bay, and t doubt what and as ver vantage of S. E. and

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circular receis to the N.E. with 30 fathoms water, and a muddy bottom, but without shelter from any wind between S. S. W. and E. S. E. which are the most dangerous. The sca broke with violence on the beach, which was covered with drift wood. M. de Monti had great difficulty in landing ; and as he was the commandant in this little expedition, I called it the Bay of Monti. They added, that the caufe of our miltake was the woody point joining fome land much lower than itself, and destitute of trees, which gave it the appearance of a termination. Messis. de Monti, de Vaujuas, and Boutin, had taken the bearings of the different points of this bay, and the coincidence of their accounts left no doubt what to determine *. I made fignal to weigh, and as very bad weather was coming on, I took advantage of a breeze from the N. W. to run to the S. E. and get off the coaft.

• Doubtlefs it will appear extraordinary I fhould controvert the opinion of three officers, and maintain that La Pérouse could form a more accurate judgment of the coast from on board. It remains for the reader to weigh the proofs of my affertion, and should any doubt ftill remain, to confult the voyage and charts of Dixon.

I maintain that the bay of Monti was the flation where Dixon anchored the 23d of May following, under which he was fheltered from every wind by the projection of an itland that forms a kind of mole, which he called Port Mulgrave.

Dixon fays, page 166, "The fituation Mr. Turner had pitched "on for us to anchor in was round a low point to the northward, " about three miles up the bay."

And page 170, "These islands, in common with the rest of the "coast, are entirely covered with pines of two or three different "species, intermixed here and there with witch hazle, and various "kinds of brush-wood."

Dixon fixes the latitude of 'Port Mulgrave at 59, 33', and its long. W. from London 140°, equal to 142° 20' from Paris. La Pérouse fixes the latitude of Monti Bay at 59° 43', and its long. 1420 40'.

If the three officers, commiffioned by La Péroule to explore the bay, did not go to the head of it, it is not furprising they fould think it had a continuation of coast, or that the little islands in that part of it should conceal the channel that separates them from the continent, — French Editor.

The night was calm but foggy, the wind changing every moment. At length it fettled in the eaft, and blew very fresh from that quarter for 24 hours:

On the 28th the weather became finer. We were in 50° 10' N. lat. by observation, and 142° 41' W. long. by our time-keepers. The coaft was covered with fog, and we could not diffinguish the points we had fet the preceding days. The wind was ftill eafterly; but the barometer role, and every thing announced a favourable change. At five in the evening we were but three leagues from land, in 40 fathoms water, over a muddy bottom, ; and the fog having partly difperfed. we made fketches from our bearings, which formed an uninterrupted continuation of our preceding furveys, and together with our fucceeding observations most attentively performed, contributed to complete the general chart of our voyage. Navigators, and those in particular who make geography their fludy, will perhaps be happy to learn, that to give still further precision to the configuration and outline of the coafts and remarkable points, M. Dagclet verified and corrected the bearings taken with the azimuth compass, by the mutual distances of the hills, measuring the relative angles they form with each other by a fextant, and determining the elevation of the mountains above the level of the fea: This method, though not rigoroufly exact, is yet fufficient for navigators to judge by the height of a coaft at what diftance it is from them ; and in this manner that learned academician has determined the height of Mount St. Elias to be 1980 toifes, and its fituation eight leagues in land *.

On the 29th of June we were, by observation; in 50° 20' N. lat. and 142° 2' W. long. by our time-

* Cook fays, Mount St. Elias lies 12 léagues up the land, in 12° 27' lat. and 219° longitude from the meridian of Greenwich. Third Voyage, vol. iii.——French Editor.

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keepers, having in 24 hours run eight leagues to the eaftward. The fouth winds and the fogs continued throughout the 29th, and the weather was clear till the 30th at noon; though at times we perceived low lands, but never more than four leagues diftant. According to our reckoning we were five or fix leagues to the eastward of the bay, called by Captain Cook Behring's Bay, and our foundings were constantly from 60 to 70 fathoms, with a muddy bottom. Our latitude, by observation, was 58° 55', and our longitude, by the time-keepers, 141° 48'. I flood right in for the land, under a crowd of fail, with fome light airs from the W.S.W. We faw to the eaftward a bay, which appeared very deep, and which I at first took for that of Behring. Having got within a league and a half of it, I diffinctly perceived that the lowlands, like those of the bay of Monti, were united to a more elevated foil, and that, in fact, there was no bay, though the water was whitish, and almost fresh, which, with every other circumstance, announced the vicinity of a river, that must be very confiderable to have changed the colour and the faltness of the sea for two leagues in the offing. I made the fignal to anchor in 30 fathoms, over a bottom of foft mud; and difpatched the long-boat, under M. de Clonard, my fecond captain, accompanied by Meffrs. Monneron and Bernizet. M. de Langle had alfo fent off his long-boat, together with his bifcayan yawl, under the command of Meffrs. Marchainville and Daigremont. These officers returned by noon, having kept along the fhore as near as the breakers would permit. They discovered a fand bank even with the water's edge, at the mouth of a great river, difcharging itself into the sca by two confiderable channels, each having a bar, as at the river of Bayonne, on which the fea broke fo violently, that it was impoffible for our boats to approach it. M. de Clonard fpent five or fix hours in an unfuccefsful attempt to VOL. I. enter.

enter, though he discovered some smoke, which proved the country inhabited, while from our fhip we perceived an unruffied fea beyond the bank, and a bafin of feveral leagues in breadth and two in depth. It is probable that with fmooth water, fhips, or at leaft boats, may enter this gulph; but as the current is very ftrong, and as the fea becomes extremely rough, from one moment to another over the bars, the very appearance of this place is fufficient to deter navigators from approaching it. From the afpect of this bay I have been inclined to think it was here Behring landed; and it is more probable the lofs of his boat's crew is to be attributed to the fury of the fea than the barbarity of the Indians*. I have retained the name of Behring's River, and am of opinion the firait of that name has no exiftence. but that Captain Cook, who paffed at a diftance of 10 or 12 leagues, rather conjectured than actually perceived it t.

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* Here are two mistakes: first, it was Captain Tscherikow, not Behring, who lot his boats; fecondly, this missortune occured in 56° lat. according to Muller.—Voyages et découvertes faites par les Russes, page 248 of the French translation.—French Editor.

[†] There is no doubt the place which La Péroufe defcribes as Behring's river, is the Behring's Bay of Captain Cook. It remains only to be known, whether the change in the colour and faltnefs of the water is a fufficient proof that this bight in the land is a river, and whether the frefhnefs of the water may not be occafioned by the enormous maffes of ice continually falling from the mountains, while the colour may arife from the foil of the coaft or of the beach, where the fea breaks with fuch fury.

But whether it be river or bay, or both (for bays being formed by mountains firetching into the fea, there may probably be a river or a torrent within), the identity of the place is proved in the following manner: Cook determined the opening of this bay to be in 59° 18' of latitude, La Pérouse was to the westward of the bay, and made its latitude 59° 20'.

Cook's longitude, when on board, was 220° 19 E. from the meridian of Greenwich, which makes 139, 41' W. longitude, and adding 2° 20' for the difference between the meridian of Greenwich

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On the 1ft of July, I got under fail with a light breeze from the S. W. ranging along the land at the diftance of two or three leagues. While at anchor, we were, by obfervation, in 59° 7' N. lat. and 141° 17' W. long. by our time-keepers, the entrance of the river bearing N. 17° E. and Cape Fair Weather E. 5° S. We ficered along the flore with a light breeze from the W. at two or three leagues diftance, and might have perceived the inhabitants by the help of our glaffes had there been any; but the breakers appeared to render a landing impoffible.

On the 2d, at noon, I had Mount Fair Weather bearing N. 6° E. being, by obfervation, in 58° 36' N. lat. and by our time-keepers in 140° 31' W. long. diftance two leagues off fhore. At two, a little to the eaftward of Cape Fair Weather, we got fight of a bight, which appeared a very fine bay, and ftood in for it. When within a league of it, I fent off the jolly-boat, under the command of M. de Pierrevert, to reconnoitre it, together with M. Bernizet. The Aftrolabe alfo difpatched two boats, commanded by Meffrs. de Flaffan and Boutervilliers, on the fame purfuit. We perceived from on board a great ledge of rocks, behind which the fea

wich and that of Paris, we have 142° 1' W. for Cook's longitude from the meridian of Paris.

La Pérouse fixes his longitude at 1420 2', which makes only a difference of one minute, Capt. Cook was two leagues farther off from the coast.

Cook faw the opening of the bay bearing N. 47, E.

La Péroufe, who was two leagues neare: the coaft, faw that opening bearing N. 33° E.

Cook was eight leagues from the land, and found 70 fathoms water over a muddy bottom.

La Péroufe was five or fix leagues from the coaft, and had confantly from 60 to 70 fathoms water, over a muddy bottom.

Had I not already proved my position to demonstration, I would request the reader himself to fix Capt. Cook's place on the map, on the 6th of May, 1778, and that of La Pérouse on the 29th of June, 1786, and pursue their tracts, with due regard to the variation of the needle, as determined by those two navigators. French Editor.

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water was very fmooth. This ledge appeared to be three or four hundred toiles long from east to weft." and to terminate at about two cables length from the point of the continent, leaving a confiderable opening; fo that nature feemed to have formed, at the extremity of America, a port like that of Toulon, though both her plans and her materials were here exhibited on a more magnificent scale, for this port was three or four leagues in depth. Meffrs. de Flaffan and Boutervilliers gave the most favourable report of it; they had gone in and out of it feveral times, and found conftantly feven or eight fathoms water in the middle of the channel, and five fathoms within 20 toifes of each extremity, while in the interior of the bay there were 10 or 12 fathoms over a good bottom. From their report I determined to fteer for the channel; and fent our boats to found a-head, with orders, when we approached the points, to place themfelves one off each extremity, fo that the fhips might only have to pais between them.

We foon perceived fome favages making fignals of friendfhip, by difplaying and waving about white cloaks and various fkins, in the manner of flags. Several cances of thefe Indians were fifthing in the bay, where the water appeared as finooth as a millpond, while the ledge was covered with furf by the breakers. The fea was very calm, however, beyond the channel, and this afforded an additional proof that its depth was confiderable.

At feven in the evening we attempted the paffage, but the wind was faint and the ebb fo ftrong, that we could not poffibly ftem it. The Aftrolabe was carried out with great rapidity, and I was obliged to anchor, left I fhould be fwept away by the current, of which I did not know the direction; but finding that it fet towards the offing, I weighed anchor, and rejoined the Aftrolabe, ftill undecided what plan to purfue in the morning. This very rapid current, which 1786.]

which our cagerness t of the grea ing and at tides are ve ploy the fu I feared a f my departu favourable c ous to the paffed the r break, I ha my opinion ficers was ve the ftrait and that althoug had feveral ti Langle there and his reafe not withhold

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which our officers had not mentioned, checked my cagerness to put into this port. I was not ignorant of the great difficulties to be encountered in entering and at coming out of narrow paffes, where the tides are very ftrong; and, as it was neceffary to employ the fummer in exploring the coafts of America, I feared a forced continuance in a bay, from which my departure might require the concurrence of many favourable circumftances, would be extremely injurious to the fuccefs of my expedition. However, I paffed the night, ftanding off and on, and, at daybreak, I hailed M. de Langle, and communicated my opinion to him. But the report of his two officers was very favourable; for, having founded both the firait and the interior of the bay, they represented, that although the current appeared fo ftrong, they had feveral times ftemmed it with their boats. M, de Langle therefore effected this port very commodious, and his reafons appeared to convincing, that I could not withhold my affent.

This port, which had been difcovered by no former navigator, is fituated 33 leagues to the N. W. of that of Los Remedios, which is the extreme boundary of the navigation of the Spaniards, about 224 leagues from Nookta, and 100 leagues from Prince William's Sound. Should the French government therefore entertain any defign of establishing a factory on this part of the American coaft, other nations cannot claim the fmalleft right of oppofition *. The fmoothnefs of the

*Since La Péroufe explored the north weft coaft of America, from Mount St. Elias to Monterey, two English avigators have taken the fame route, though merely with commercial views.

Dixon failed from England in September 178;, in the Queen Charlotte, accompanied by Captain Portlock, in the King George, and anchored at Owhyhee, one of the Sandwich Islands, the 26th May 1786. La Pérouse passed by Owhyhee the 28th of the same month; anchored at Mowce on the next day, and, quitting it on the 30th, got fight of Mount St. Elias on the 23d June, 1786: while Dixon quitted Owhyhee June 13th, and having fleered for Cook's River, did

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the inner part of this bay was very feducing to us, who were in abfolute neceffity of changing our flowage almost entirely, in order to get up fix guns from the bottom of the hold, without which, it would be very imprudent to navigate feas * fo frequently infested with pirates as those of China. To this place I gave the name of *Port des Français*, or Frenchmen's Port.

At fix in the morning we flood for the bay with the lash of the flood, the Astrolabe preceded me, and a boat, as on the preceding evening, was flationed off each point. The wind was between weft and W.S. W., the entrance lies north and fouth. Thus every thing appeared favourable. But at feven, when we were already in the channel, the wind shifted to W. N. W. and N. W. by W. fo that it was neceffary to fhiver the fails, and even to throw all a-back. Fortunately the flood-tide carried us into the bay, fetting us along the rocks on the east point, at the diftance of half a piftol fhot. I anchored within the bay, in three fathoms and a half, over a rocky bottom, about half a cable's length from the fhore. The Aftrolabe anchored upon a fimilar bottom, and in an equal depth of water.

did not arrive at the north weft coaft of America till the 8th September, which he ranged along from the entrance of Crofs Sound to that of Nootka, without being able to come to an anchor. Leaving that coaft on the 28th of the fame month, he returned to the Sandwich Islands, and not till the 23d of May, in the following year, made Mount St. Elias, and caft anchor in port Mulgrave. The priority of La Péroufe is therefore fully eftablished.

Dixon, before his departure from London, was apprifed of the expedition from France, but never falling in with the French fhips, was ignorant of their difcoveries.

Captain Meares, in the Snow Nootka, failed from Bengal in March 1786; touched at Oonolafka in August, and, by the end of September, arrived at the entrance of Prince William's Sound, where he wintered : and it was not till 1788 and 1789, that he ran down the coast of America. Of his voyage there is yet no French translation.—French Editor.

* We were to arrive China in the beginning of February. During

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During t two fhips fo at the extre our misforti out of dan out, and ca fore the ti into fix fat veral times, fhip, Our difficult, ha rock, extend differently f Boutervillier flection. It anchorage, was a confid me to drop ment left th on fhore; a when the wi Thus our fl ftern very n fible to think top gallant r ceafe, which we even and

I fent im Boutin very had found a water, four choring plac northward, 60 fathoms fhore, wher bottom. H wind did n harbour, wh

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During thirty years experience at fea, I never faw two fhips fo near destruction; and to meet that fate at the extremity of the earth, would have rendered our misfortune still more tragical; but we were now out of danger. Our boats were inftantly hoifted out, and carried out our fmall anchors; and before the tide had perceptibly fallen, we warped into fix fathoms water; yet our heel touched feyeral times, but fo flightly as not to damage the fhip. Our fituation would not have been at all difficult, had we not anchored on a bottom of rock, extending feveral cables length round us, very differently from the report of Meffrs. de Flaffan and Boutervilliers. This, however, was no time for reflection. It was necessary to quit this dangerous anchorage, to which the rapidity of the current was a confiderable obstacle, and its violence obliged me to drop a bower anchor. I feared each moment left the cable flould part, and our flip drive on thore; and our uneafinefs was much increased, when the wind freshened much from the W. N. W. Thus our fhip was close in with the land, and her ftern very near the rocks, from which it was impoffible to think of towing her. I therefore ftruck the top gallant masts, and waited for the foul weather to ceafe, which would have been lefs dangerous, had we even anchored in better ground.

I fent immediately to found the bay, whence M. Boutin very foon returned with an account, that he had found an excellent bed of fand in ten fathoms water, four cables length to the weftward of our anchoring place; but that further up the bay to the northward, he could not firike ground with a line of 60 fathoms, except within half a cable of the fhore, where he found 30 fathoms with a muddy bottom. He informed me alfo, that the north weit wind did not penetrate into the inner part of the harbour, where it was abfolutely calm.

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M. d'Efeures

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M. d'Efcures had been difpatched, at the fame time, to explore the head of the bay, of which he gave the most favourable account. He had gone round an island, uear which was anchorage in 25 fathoms water, over a muddy bottom. No place could be more convenient for crecting our observatory; wood already cut lay fcattered along the fhore, and cafcades of the finest water rolled from the fummits of the mountains into the fea. He had penetrated to the head of the bay, two leagues beyond the ifland which was covered with ice, and perceived the entrance of two vaft channels; but, being eager to render an account of his miffion, he did not flay to examine them. After this account, the poffibility of penetrating by these channels into the interior of America prefented itself to our imagination. The wind having fallen by four P. M. we towed up to the fand-bank which M. Boutin had discovered, and the Aftrolabe was enabled to get under fail, and gain the anchorage of the island. I rejoined her the next day, being favoured with a light breeze from the E. S. E. and affifted by our boats.

During the ftay we were compelled to make at the entrance of the bay, we had been conftantly furrounded by canoes of favages, who, in exchange for our iron, offered us fifh, otter fkins, with those of other animals, and various fmall articles of their apparel. To our great aftonifhment, they appeared perfectly accustomed to traffic, and made their bargains. with as much address as the most able dealers of Europe, but of all the articles of commerce, iron alone was defired with eagernefs; fome glafs beads were also taken, tho' rather as a makeweight to conclude a bargain, than as the bafis of our exchanges. At length we induced them to take fome plates, and tin pots, but these articles fucceeded only for a time, and iron was paramount to all. This metal was not unknown to them, for each had a dagger of it hanging from

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from his neck, cry; but with was only a co without an ed of tanned leat cle of their ponards very atte they were onl of the foreft. they fhowed r very common collars, bracel the points of

It was a gre ed thefe two r be found in t might reduce tive iron has r leaft is fo rare, gifts have neve fuppofed acqui iron ore to the obferved the v laces and trink

* Virgin or nat den, Germany, S have found it at Bafhia, the capita the mafs of a roc an octaëdral form by the fpecimens i by the opinion of

Since, therefore tain native iron: feen by La Pérouf opinion with Coc who come from 1 or by their connec our eftablifhment *Editer*.

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from his neck, refembling, in thape, that of the Indian ory; but without any fimilarity in the handle, which was only a continuation of the blade, rounded off without an edge. This weapon is kept in a theath of tanned leather, and feemed the most valuable article of their possifiers. As we examined these poignards very attentively, they informed us by figns that they were only used against bears and other beasts of the forest. Some were of red copper, but to these they showed no marks of preference. This metal ic very common among them, being used chiefly for collars, bracelets, and other ornaments, and to arm the points of their arrows.

It was a great queftion with us where they procured thefe two metals. Native copper might poffibly be found in this part of America, and the Indians might reduce it into flat plates and ingots : but native iron has no existence perhaps in nature, or at least is so rare, that the greater number of mineralogists have never seen it. These people cannot be supposed acquainted with the method of reducing iron ore to the metallic state; and besides we had observed the very day of our arrival some bead-necklaces and trinkets in brass, which every one knows

* Virgin or native iron is very rare, yet fome is found in Sweden, Germany, Senegal, Siberia, and the island of the Elbe. I have found it at the village of *Erba Longa*, two leagues north of Bashia, the capital of Corfica. It pervaded, in great profusion, the mass of a rock situated on the sea fide, and was constantly of an octaëdral form. The existence of native iron is further proved by the specimens in most of the cabinets of Natural History, and by the opinion of Stahl, Linnæus, Margraff, &c.

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Since, therefore, iron mines exift in America, it may also contain native iron : though I do not from thence infer, that the iron feen by La Pérouse among these Indians had that origin. I am of opinion with Cook, they might obtain it either from the Russians who come from Kamtschatka, and extend their commerce thither, or by their connection with the interior tribes, who receive it from our establishments on the north east coast of America.—French Editor.

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to be a mixture of copper and zinc*. Every circumftance, therefore, indicated that the metals we faw came either from the Ruffians, from the fervants of the Hudfon's Bay Company, from fome American dealers, who travel into the interior of that vaft continent, or, laftly, from the Spaniards; but I thall hereafter fhew it to be more probable thefe metals are procured from the Ruffians. We have preferved feveral fragments of this iron, which is very foft, and as eafily cut as lead \ddagger ; from which, perhaps, it is not impoffible but mineralogifts may difcover the country, and even the mine where it is produced.

Gold itfelf is not more eagerly defired among Europeans than iron in this part of America, which is an additional proof of its rarity. In fact, each individual poffeffes but a finall quantity, and they purfue it with fo much avidity, that they employ every means to procure it. On the very day of our arrival, we were vifited by a Chief of the principal village, who, before he came on board, apparently addreffed a prayer to the fun, and afterwards made a long harangue, which concluded with agreeable fongs, very fimilar to the chanting in our cathedrals, and accompanied by all the Indians in the canoe, who repeated the fame air in chorus. After the ceremony, almoft the whole company came on board,

* Red copper fused with zinc forms pinchbeck ; but to obtain brafs it must be fused with calimine.

This last mentioned mineral undoubtedly contains a portion of zinc, but it also contains an earth, some fand, martial ochre, and not unfrequently galena or sulphure of lead. That which contains little zinc is, however, unfit for making brass.

The femi-metal zinc when impure, may also contain pyrites both of fulphure and iron, as well as lead, pieudo-galena, and a very hard, earthy fubstance.

Thus, therefore, it appears, that by fufing red copper with pure zinc, a very different metal is obtained from that produced by fufing it with calamine.——French Editor.

+ This quality indicates a virgin or native iron.—French Editor. and

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and danced no which they do made feveral fome, paffing I was obliged for without th mured threats

No fooner l island, than a thither; and foread in the loaded with c tities, which and bar iron. old hoops, bu and we could nails, or fome is, I think, common as in not be furpriz only about 40 collect annua Rollin, furged fuffed the onl unfortunately weighed only labe caught o the favages, f it appeared ful de Langle had ing at the crit that operation care, and we w or the jaw.

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and danced nearly an hour, finging at the fame time, which they do with great accuracy. To this Chief I made feveral prefents, till he became very troublefome, paffing four or five hours every day on board. I was obliged to renew my donations very frequently, for without them he looked difcontented, and murmured threats, which however gave us no alarm.

No fooner had we taken up our fituation behind the island, than almost all the favages of the bay flocked thither; and the noife of our arrival having foon foread in the neighbourhood, feveral canoes came loaded with otter-fkins, in very confiderable quantities, which the Indians exchanged for hatchets, They gave us their falmon at first for and bar iron. old hoops, but they foon became more forupulous; and we could only procure that fifth in exchange for nails, or fome other fmall inftruments of iron. There is, I think, no country where the fea-otter is fo common as in this part of America; and I fhould not be furprized if a factory, extending its commerce only about 40 or 50 leagues along the coaft, should collect annually 10,000 fkins of that animal. M. Rollin, furgeon of my fhip, fkinned, diffected, and fuffed the only ofter we were able to procure, which unfortunately was but four or five months old, and weighed only eight pounds and a half. The Aftrolabe caught one, which had evidently escaped from the favages, for it was feverely wounded, though it appeared full grown, and weighed 70 pounds. M. de Langle had it skinned, in order to stuff it, but being at the critical moment of our entering the bay, that operation was not performed with fufficient care, and we were unable to preferve either the head or the jaw.

The fea otter is an amphibious animal, better known by the beauty of its fkin than any other defeription. The Indians of *Port des Français*, call them

them *fkecter*; the Ruffians, colry-mer/ky*, diffinguifting the females by the word ma/ka. Some naturalifts have fpoken of it under the name of faricoviana, but the defeription of the faricovienne, of M. de Buffon, in no refpect applies to this animal, which refembles neither the otter of Canada nor of Europe.

On our arrival at our fecond anchoring place we fet up our observatory on the island, which was but a musket-shot from our ships, and there formed an eftablishment for the time of our stay in this port. We pitched tents for our fail-makers and blackfiniths, depositing there our water-cafks, which we fet up afreih. As all the Indian villages were upon the continent, we flattered ourfelves with refling in fecurity upon the ifland; but experience foon proved us to be miftaken. Though we had already found the Indians were great thieves, we did not suppose them capable of executing long and difficult projects with perfeverance and activity. We foon learned to know them better. They paffed the whole night watching a favourable moment to plunder us; but we maintained a conftant watch on board, and rarely could they clude our vigilance. I even established the Spartan law, to punish those who were unwary enough to be plundered; and though we applauded not the robber, we demanded no reflitution, that we might avoid quarrels, the tragical confequences of which might afford caufe for regret. I was aware that our extreme lenity would render them infolent, though I endeavoured to convince them of the fuperiority of our arms, by firing a gun fhotted in their prefence, to fnew them no diffance could protect them; and discharged a musket-ball, before a large company of them, through feveral folds of a

* According to Coxe, bobry-morfky, or fea-caftor; the female matka; and the young, when under five months, medviedky, &c. French Editor.

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cuirais we had by figns, the poignards, wh that flew abo hoped to inf proved that t They prefent ment from th on the fide impenetrable their bellics, they went, o fects without had even the where Meffrs on guard at t musket moun though place guard of twel their officers regretted this original paper fince our arr

Thefe obf getting wood continually e working par cipline they favages.

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cuirafs we had purchased of them, after their expressing by figns, that it was impenetrable to arrows and poignards, while our skilful sportsmen killed the birds that flew above their heads. I am certain they never hoped to infpire us with fear, but their conduct proved that they believed our patience inexhauftible. They prefently obliged me to remove our eftablishment from the island, where they landed in the night, on the fide nearest the offing, traversed a wood impenetrable to us even by day, and creeping on their bellics, like ferpents, moving fearcely a leaf as they went, contrived to plunder fome of our effects without being perceived by the fentinels. They had even the address to enter in the night the tent where Meffirs. de Laurifion and Darbaud, who were on guard at the observatory, slept, and carried off a musket mounted in filver, and both their clothes, though placed under their bolfter for fecurity. A guard of twelve men did not perceive them, nor were their officers awakened. We should however have regretted this loss but little, had they not taken the original papers of all our aftronomical observations fince our arrival in Port des Français.

These obstacles did not prevent our boats from getting wood and water; and all our officers were continually employed at the head of their several working parties. Their presence, and the discipline they maintained, contributed to restrain the favages.

While we were making the fpeedicft arrangements for our departure, Meffrs. Monneron and Bernizet took a plan of the bay, in a boat well armed. I could not fpare any naval officers to accompany. them, becaufe they were all employed; but I had determined that they fhould, before our departure, verify the bearings of all the points, and lay down the foundings. We proposed afterwards to devote 24 hours

hours to a boar-hunt, having perceived fome tracks of that animal on the mountains, and immediately after fet fail, the advanced flate of the feafon not permitting a longer flay.

We had already explored the bottom of the bay, which is perhaps the most extraordinary spot on the whole earth. To form an idea of it, we must imagine a basin, the middle of which is unfathomable. furrounded by peaks of great height, covered with fnow. without a blade of grafs to enliven this enormous chaos of rocks, condemned by nature to perpetual fterility. I never faw a puff of wind ruffle the furface of the water, nor is it diffurbed but by enormous maffes of ice, which often fall from five different glaciers, with a thundering noife that re-echoes from the fartheft recess of the furrounding mountains. The air is for tranquil, and the filence fo undifturbed, that the human voice and the fea birds that lay among the rocks. are heard at the diftance of half a league. We hoped to discover, at the bottom of the bay, channels that penetrated far into the interior of America. We supposed it might lead to fome great river, of which the bed might lie between two mountains, and the fource be one of the extensive lakes to the north of Canada. Such was the phantom of our imagina-We got off in our two long-boats; Meffrs. tion. de Monti, de Marchainville, de Boutervilliers, and Father Receveur attended M. de Langle, while I was accompanied by Mcfirs. Dagelet, Boutin, St. Céran, Duché, and Prevoit. We entered the westernmost channel, where we found it prudent not to approach the fhore, on account of the falls of ftones and ice. At length, after advancing only a league and a half, we arrived at a cul-de-fac, terminated by two immenfe glaciers. We were obliged conftantly to remove the maffes of ice with which the fea was covered, to penetrate into this inlet, where the water was to deep, that a cable length from thore we found no

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no bottom Langle, d officers, w after indef tance of deepeft fit ceffion of terminatio weather.

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no bottom with a line of 120 fathoms. Mefirs. de Langle, de Monti, and Dagelet, and feveral other officers, were defirous to afcend the glacier, when, after indefcribable fatigues, and advancing to a diftance of fix miles, paffing with great danger the deepeft fiffures, they only perceived a conftant fucceffion of ice and fnow, without any prospect of a termination, but at the fummit of Mount Fairweather.

My long-boat remaining during this expedition upon the beach, a mais of ice, which fell more than 400 toifes from it, caufed fo great a diffurbance in the water, as to overfet the boat, and throw it a confiderable diffance on the fkirts of the glacier. This accident, however, was prefently repaired, and we returned on board, after finishing, in a few hours, our expedition into the interior of America.

I had caufed the eaftern channel to be examined by Meffirs. de Monneron and Bernizet. It terminated like our's, with two glaciers; and we both took draughts of the parts we had explored.

CHAP. VIII.

CONTINUATION OF OUR STAY IN PORT DES FRANCAIS —DREADFUL MISFORTUNE WHEN ON THE POINT OF DEPARTING—HISTORY OF THIS EVENT—RE-TURN TO OUR FIRST ANCHORAGE--DEPARTURE.

THE next day the Chief arrived on board better attended, and more decorated than ufual. After feveral fongs and dances, he offered to fell me the ifland where our obfervatory was fixed, referving, no doubt, for himfelf, and the other Indians, the right of plunder. It was by no means evident, that this Chief was proprietor of any land. The government of

of these people is such, that the country must be the property of the whole people; yet, as many favages were witneffes to this contract, I had a right to conclude they gave it their fanction, and accepted the offer of the Chief, though I was perfuaded that the contract might be invalidated by various tribunals. should the nation ever plead against us: for we had no proofs that the witneffes were their reprefentatives. or the Chief the true proprietor. I gave, however, feveral ells of red cloth, fome hatchets, iron in bars, and nails. I also gave prefents to all his fuite. The bargain being thus concluded, I fent to take poffer. fion with the ufual formalities; burying a bottle which contained an infeription to that effect, and with it one of the bronze medals ftruck before our departure from France.

The principal object, however, of our putting into port, was obtained. Our guns were mounted. and our flowage completed, and we had taken on board as much wood and water as at our departure from Chili. No port in the world can afford more ad. vantages for accelerating this employment, frequently fo difficult in other countries. Cafcades from the tops of the mountains poured their limpid waters into our cafks as they lay in the boat, and wood ready cut was ftrewed along a beach washed by an unruffled The plan of Meffrs. de Monneron and Berfea. nizet was completed, as well as the measure of the bafe-line by M. Blondela, by which Meffrs. de Langle, Dagelet, and most of the officers, had trigonometrically measured the height of the mountains. We have only to regret the papers containing the obfervations of M. Dagelet, and even this misfortune was nearly repaired by means of the different notes we In fhort, we confidered ourfelves as the found. most fortunate of navigators, to have arrived at fo great a diffance from Europe, without one of our crew being fick or exhibiting any fymptoms of feurvy. But

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I have down on Bernizet, of the Aft ville, was I prepared of which d'Efcures command little exp fometimes commit h prudence if I took ed fhips of friendly n felf had before, ar ed the fe too near cd; addin of etique of the tr them to h at fea : v VOL. I.

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tting innounted. aken on leparture more ad. equently the tops into our eady cut unrufflcd and Bere of the e Langle, mometrins. We he obfertune was notes we s as the red at fo ne of our of fcurvy. But

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But the greateft of misfortunes now awaited us, without the poffibility of prevention by forefight: and it is with the keeneft fenfations of grief I delineate a difafter a thoufand times more cruel than all the maladies or calamities of the moft tedious voy-, age. I yield unwillingly to the duty I have undertaken, of relating an event which I will not deny to have given birth to feelings conftantly fucceeded by tears, and which can only be allayed by the foothing hand of time. Each object that prefents itfelf, each moment that paffes, but recals the lofs we fuffered, incircumftances apparently the moft fecure from fogreat a misfortune.

I have already faid the foundings were to be laid down on the draught of Meffrs. de Monneron and Bernizet, by the fea-officers. Confequently the yawl of the Aftrolabe, under the orders of M. de Marchainville, was appointed to be in readiness the next day. I prepared that of my thip, as well as the jolly boat, of which I gave the command to M. Boutin. M. d'Escures my first lieutenant, and knight of St. Louis, commanded the Bouffole's yawl, and was chief of this little expedition. As his zeal, however, appeared fometimes too unbounded, I deemed it prudent to. commit his inftructions to writing : and the details of prudence I required were fo minute, that he afked, if I took him for a child, adding he had commanded fhips of the line. I explained my motives in a friendly manner, telling him, M. de Langle and myfelf had founded the channel of the bay two days before, and that I found the officer who commanded the second boat that accompanied vs, had passed too near the point, on which he had even touched; adding, that young officers efteem it a point of etiquette, during a fiege, to afcend the parapet of the trenches, and that the fame fpirit induces them to brave the rocks and breakers they encounter at fea: whereas this inconfiderate courage might VOL. I. occafion

occasion the most fatal effects in an expedition like ours, where fimilar dangers occur every moment. After this conversation I delivered him the following instructions, which I read to M. Boutin. They will explain his miffion, and my precaution, better than a long differtation.

Written Instructions delivered to M. d'Escures by M. de la Pérouse.

"Before I declare to M. d'Escures the object of his " miffion, I premise that he is expressly charged not to " expose the boats to any danger, or approach the chan-" nel, fhould the fea break there. He will fet off at " fix in the morning, with two other boats under the " command of Meffrs. Marchainville and Boutin, " and found the bay from the little creek to the east-"ward of the two Mammelon or forked hills. He will lay " down the foundings on the chart I have delivered " him, or fketch one himfelf, from which they may be " transferred. Should the fea not break in the chan-" nel, but only have a fwell, as this work is not preff-" ing, he may defer the founding it till another day, " for he will remember that all operations of this " nature, when performed with difficulty, are ill exe-" cuted. Probably the beft time to approach is at " flack water, about half past eight. Should cir-" cumftances at that time be favourable, he will "endeavour to measure its width by a log-line, " and place the three boats in parallel directions, " founding across the channel from east to weft. He " will afterwards found it from north to fouth. But it " is fcarcely probable he can take thefe fecond found-" ings the fame tide, becaufe the current will have " acquired too much ftrength.

"While M. d'Efcures is waiting for flack water, "he will found the interior of the bay, particu-"larly the creek behind the *Mammelons*, where, I "am of opinion, there is very good anchorage. He "will

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" will endeavour also to lay down on the plan the " limits of the rocky ground and fandy bottom, in " order to make the good ground perfectly known. I " am of opinion, that where the channels to the " fouthward of the island appear open, towards the " point of the Mammelons, there is a good fandy " bottom. M. d'Escures will verify this conjecture. " But I again repeat, that I request him not in the " leaft to relax from the feverest prudence."

After fuch inftructions delivered to a man 33 years old, who had commanded men of war, what danger could I fear? How many pledges of fecurity did I not poffeis?

Our boats put off according to my directions, at fix in the morning, on an expedition which was at once a party of pleafure, of information, and of utility. They were to hunt, and then breakfaft beneath the foliage of the trees. I affociated with M. d'Efcures, M. de Pierrevert, and M. de Montarnal, the only relation I had in the navy, and to whom I was attached as tenderly as if he were my fon. Never did a young officer afford me a warmer hope, and M. de Pierrevert had already acquired what I expected the former very fpeedily to attain.

The feven beft foldiers of the detachment compofed the crew of this yawl, in which the chief pilot of my fhip alfo embarked to take the foundings. The next in command to M. Boutin in the jollyboat was lieutenant M. Mouton. The Aftrolabe's boat was commanded by M. de Marchainville, but I was uninformed whether accompanied by other officers.

At ten o'clock our jolly boat returned. Surprifed at this unexpected difpatch, I enquired of M. Boutin before he came on board, if any thing had happened; fearing, at first, fome attack of the favages. M. Boutin's manner increased my alarm, for I obferved the deepest expression of grief in his countenance. He immediately informed me of the dread-

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ful wreck he had just witnessed. He had himself escaped but by the firmness of his mind, which prefented to him all the refources that remained in the midft of the greateft danger. Obliged to follow his commander into the midft of the breakers which fet into the channel, while the tide was running out at the rate of three or four leagues an hour, it occurred to him to lay his boat's ftern to the fea which thus pushed her forwards, fo as to avoid filling while the was driven out of the harbour, ftern foremoft, by the tide. He foon faw the breakers a-head of his boat, and found himfelf in the open fea. More anxious for the fafety of his comrades than his own, he fkirted the breakers in hopes to fave fome of them. Though he repeated his attempt, he was ftill driven back by the tide, till at length mounting on the shoulders of M. Mouton to command a more extensive view, he found his exertions in vain. All had difappeard, all were fwallowed up! and M. Boutin re-entered at flack water. The fea then became fmooth, and this officer entertained fome hope of the Aftrolabe's yawl; having only feen ours go down. M. de Marchainville was at that time a full quarter of a league from any danger, in a fea as perfectly undifturbed as the best sheltered port. But that young officer, urged by too imprudent a generofity, fince all affiftance was impoffible, and having too elevated a mind, and too fearless a courage, to make this reflection while his friends were in extreme danger, flew to their aid, precipitated himfelf among the fame breakers, and falling a victim to his own generofity, and his difobedience to his commanding officer, was involved in the fame fate.

M. de Langle foon came on board my fhip qually overcome with grief as myfelf, telling me, with tears, that the cataftrophe was even greater than I thought. For, fince our departure from France, he had made an inviolable rule never to difpatch the two brothers

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brothers (Me Boutervillier occafion, alo amufing the fidered the as little expo or in the fin

The canor ment to ann of thefe und held the loft was impoffib endeavoured riches fhould man.

Nothing greater degr themfelves o my long-boa to the eaftw tune to fave M. de Lang unexamined of the two fh fend us agai required us the officers, Langle and the beach, ment throw a ray of hor from a state of grief. B the illusion, tion and de nervous lang I fhall giv

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ROUND THE WORLD.

brothers (Meffrs. la Borde Marchainville, and la Borde Boutervilliers) upon the fame duty, and had, on this occafion, alone yielded to their defire of hunting and amufing themfelves together; for we had both confidered the expedition in that view, thinking them as little exposed to danger as in the road of Breft, or in the fineft weather.

The canoes of the favages came at the fame moment to announce this calamitous event. The figns of these uncultivated men expressed their having beheld the loss of our two boats, and that affistance was impossible. We loaded them with presents, and endeavoured to make them understand that all our riches should belong to whosever could fave a fingle man.

Nothing could have affected their humanity to a greater degree. They ran to the fea fide, and fpread themfelves on both fides of the bay. I had already fent my long-boat, under the command of M. de Clonard, to the eastward, where, had any one the good fortune to fave himfelf, he would probably have landed. M. de Langle went to the weftward to leave nothing unexamined, while I remained on board to take care of the two fhips, with the precautions necessary to defend us against the favages, towards whom, prudence required us to be ever on our guard. Almost all the officers, and feveral others, followed Meffrs. de Langle and Cionard, who went three leagues along the beach, without perceiving the finalleft fragment thrown upon it. I had, till then, indulged a ray of hope: for the mind paffes with difficulty from a flate of happines to so profound an abys of grief. But the return of our boats foon diffipated the illusion, and threw me into a state of consternation and defpair, not to be defcribed by the most nervous language.

I fhall give the account of M. Boutin, the friend K 3 of

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of M. d'Efcures, though we are not agreed as to the imprudence of that officer.

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Narrative of M. Boutin.

" On the 13th of July, at 50 minutes past five in " the morning, I quitted the Bouffole in the jolly-" boat, with orders to follow M. d'Escures, who " commanded our yawl. M. de Marchainville, with " the command of that of the Aftrolabe, was to " join us. The inftructions delivered to M. d'Ef-" cures by M. de la Péroufe, and communicated to " me, charged him to employ these three boats to " found the bay, to lay down the foundings, accord-" ing to the bearings, on the draught which had " been given to him; to found the channel, if the " water was fmooth, and to measure its breadth. "But he was expressly ordered not to expose the " boats under his command to the leaft danger, or " to approach the channel, fhould the fea at all " break, or even were there any fwell. After hav-" ing doubled the westernmost point of the island, " near which we lay at anchor, I observed that the " fea broke entirely across the channel, and that it " was impoffible to fnew ourfelves before it. M. " d'Escures was then a-head, lying on his oars, " and feemingly waiting for me; but as foon as I had " approached him within mufket-fhot, he ftood on-" ward, and, as his boat rowed better than mine, he " repeated the fame manœuvre feveral times, with-" out my being able to join him. At a quarter paft " feven, having conftantly fteered for the channel, " we were within two cables length of it, when the " yawl of our fhip put about. I followed his mo-" tions, keeping in his wake, and we fteered back to " re-enter the bay, leaving the channel behind us. " My boat was aftern of our yawl, but within hail, " and

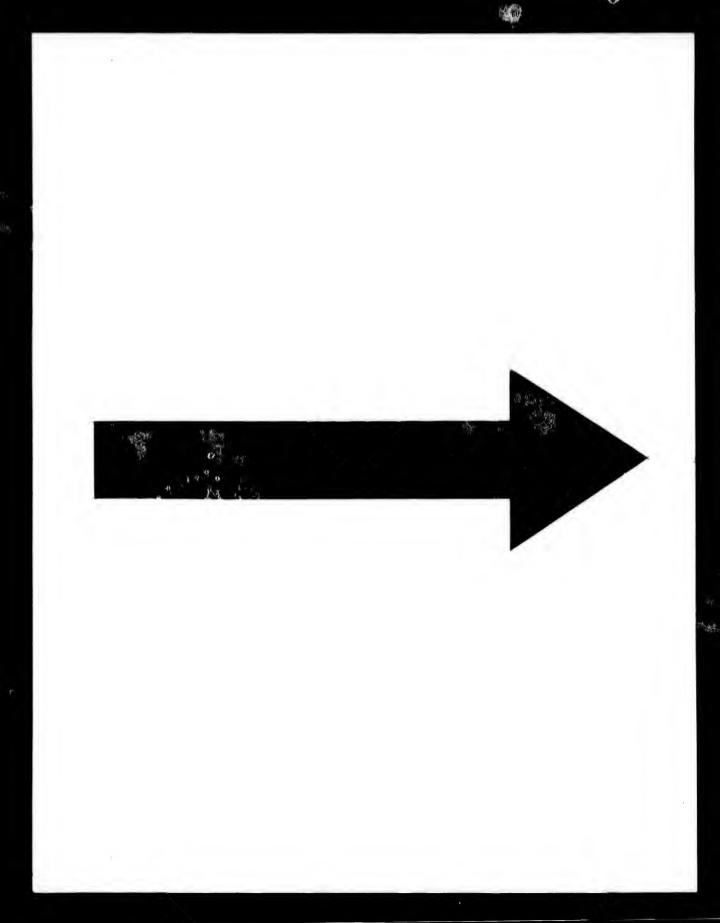
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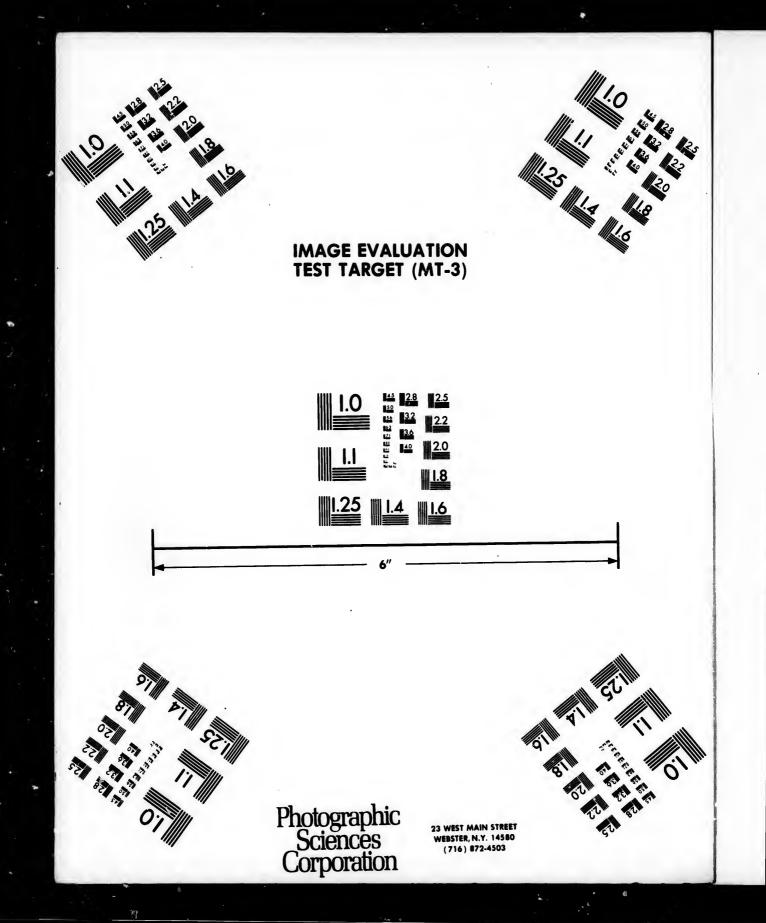


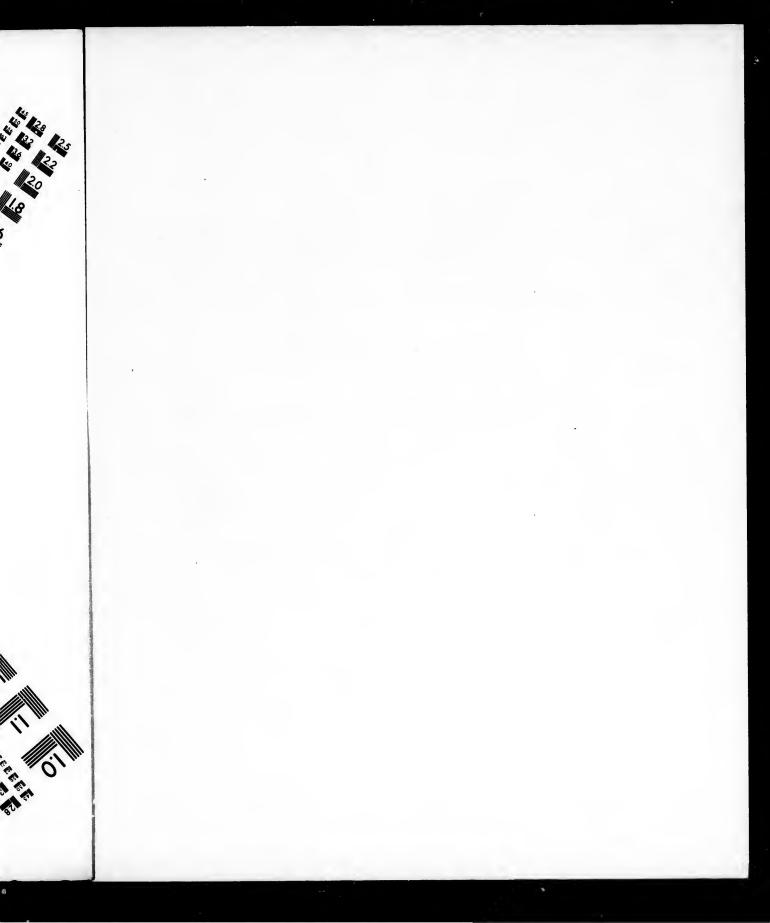
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" and I perceived that of the Aftrolabe a quarter of a league within the bay. M. d'Escures then hailed me with a laugh, and faid-" I think the beft ing we can do is to breakfast, for the fea breaks thing we can do is to breakfult, for the fea breaks herribly in the channel." I answered—" Certain-and I believe our labour will be confined to the lines of the fandy bay, that is on the interview bar of the fandy bay, that is on the interview bar of the fandy bay, that is on the interview bar of the fandy bay, that is on the interview bar of the fandy bay, that is on the interview bar of the fandy bay, that is on the interview bar of the boat, was going to answer; interview to the south the caftern coaft, he perceived that we were livest away by the ebb, which I also observing, the boats rowed with the greatest exertion to the northward, in order to get further from the channel, which was ftill a hundred toifes diftant ; but I was in ne apprehension, as by get-ting the diftance of only 20 toifes on either finde we ting the diftance of only 20 toiles on either fide we sould run the bosts on the beach. After pulling shave a minute, without being able to ftem the tide, hendeavoured, but is vain, to gain the eaftern fhore; and onr yawl, which was a head, attempted, though equally in value to make that to the weftward; " we were therefore obliged to put about again to" " the northward, to avoid falling in the trough of the the breakers. The first seas beginning to break when pear my boat; I dropped my graphel, which however did not take hold, and luckily the more " not being fastened to a bench, it ran out thwart end for end, and difburthened us of a weight which " might have proved fatal. I was inftantly in the middle of the heavieft feas, which almost filled the hoat. However the did not fink, and continued to ficer, to that I could always keep herstern to the breakers, which afforded me great hopes of efcaping the danger.

Our yawl had got to a diftance while I was bitting go the grapnel, but was not among the breakers till a few minutes after. I loft fight of her when I thipped the first fea, but in one of K 4 "those







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" those moments when I was at the top of them, I " again faw her going down, 30 or 40 toifes a-head, " lying broadfide to, but I could perceive neither " men nor oars. My only hope had been her " ftemming the current, and I was but too cer-" tain fhe must unavoidably be lost, if the fhould " be drifted out by it; for to escape there, a boat " must be able to answer her helm when full of " water, in order to avoid oversetting; unfortu-" nately none of these qualities belonged to our " yawl.

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" I was ftill in the midft of the breakers, look, ing out on each fide, and faw aftern of my boat that the waves formed a chain towards the fouth, extending as far as my eye could follow it. The breakers feemed alfo to run a great way out to the weftward, and I perceived, at length, that could I but gain 50 toifes to the eaftward, I fhould find a lefs dangerous fea. I tried every effort to fucceed in that object, pulling away to ftarboard between the waves, and at 25 minutes after feven I was out of every danger, having nothing to encounter but a heavy fwell and a fhort fea, occafioned by the breeze from the W. N. W.

"After baling the water from my boat, I confidered of the beft means to affift my unfortunate companions, but from that time no ray of hope dawned upon my mind.

"From the moment I had perceived our boat go down among the breakers, I had conftantly kept pulling to the eaftward, and could not get clear of them for fome minutes. It was therefore impoffible for men drawn into the middle of fo rapid a current to get out of its direction, which muft inevitably carry them along for the remainder of the tide, which ran out to the offing till 45 minutes patt eight: nor could the beft fwimmer refift, even for a few moments, the force of thefe waves. Yet [1786. them, I s a-head, e neither been her too certe fhould e, a boat n full of unfortud to our 1786.]

rs, lookmy boat the fouth, it. The out to the nat could I fhould y effort to ftarboard fter feven ing to enfea, occa-

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ir boat go intly kept et clear of e impoffifo rapid a i muft inder of the 5 minutes ner refift, efe waves. " Yet ROUND THE WORLD.

"Yet as I could make no reafonable fearch, but in the direction of the current, I fteered back to the fouthward, keeping clofe along the edge of the breakers on my ftarboard hand, and changing my courfe every inftant to get near fome fea-wolves or fea-weed, which, from time to time, deluded my hopes.

"As there was a great fwell, my view became "very extensive, when on the tops of the waves; " and I could have perceived an oar or a piece of " wreck at more than 200 toifes diffance,

" My eyes were foon directed to the eaftern point " of the channel, where I perceived men making " fignals with their cloaks. Thefe, as I afterwards " learnt, were favages; but at firft I took them for " the crew of the Aftrolabe's yawl, and imagined " fhe waited for the turn of the tide to come to our " affiftance; little did I think my ill-fated friends " had already fallen victims to their own generous " courage.

" At three quarters paft eight * the tide having " turned, there were no longer any breakers, but " only a heavy fwell; and I continued my fearch in " that fwell, following the fet of the ebb, which " was tpent, but was equally unhappy in my fe-" cond attempt. At nine o'clock, perceiving the " flood came from the S. W. that I had neither " provisions, grapnel, nor fails; that my crew was " wet and cold; and fearing left I should not be " able to re-enter the bay, when the tide should " have acquired its full strength; observing also that " even then it fet violently to the north-east, which " would have hindered me from getting to the " fouthward, where only I must have continued my

• Half pair eight was the time I had appointed in my inftructions for them to approach the channel without danger, becaufe the current would then in all events have run inwards. It was a quarpaft feven when the boats were loft.

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" fearch, if the tide had permitted, I re-entered the " bay fteering to the northward.

" The channel was already nearly that in by the " E. point, and the fea ftill broke on the two points. " but was finooth in the middle. At length I gained " the entrance, keeping very close in with the lar-" board point, on which the Americans flood, who " made fignals to me, and whom I had taken for " my countrymen. Their geftures expressed that " they had feen two veffels overfet, and not per-" ceiving the Aftrolabe's yawl, I was but to well af-" fured of the fate of M. de Marchainville, with " whom I was too thoroughly acquainted to ima-" gine he would reflect on the inutility of the dan-" ger to which he exposed himself. Yet as we encou-" rage hope to the laft, a faint poffibility ftill flat-" tered me that I should find him on board, whither " he might have gone to procure affiftanc; and the " first words I uttered on my return to the ship were, " Have you heard of Marchainville ?" The answer, " No, affured me he was loft.

" After all these details I must explain the mo-" tives to which I attribute the conduct of M. d'Ef-" cures. As it was impossible he should entertain " an idea of getting into the channel, his only de-" fign muft have been merely to approach it, while he " believed himfelf at a distance more than sufficient " to avoid danger : but of that diftance neither he, " nor myfelf, nor the 18 perfons with us formed an ac-" curate judgment. I cannot fay how far this miftake " is pardonable, nor why it was impoffible to know " the violence of the current; for though it may " be thought I would excuse myself, I repeat that " I believed our diftance more than fufficient; and " even the appearance of the coaft, which feemed " to fly to the northward with incredible fwiftnefs, " did not alarm, though it aftonished me. With-" out running into a detail of all the caufes which " con-

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the mo-M. d'Efentertain only dewhile he fufficient ither he, ed an acis mistake to know h it may peat that ent; and h feemed fwiftnefs, Withes which « con-

" ROUND THE WORLD.

" contributed to infpire us with a fatal confidence, I "cannot refrain from observing, that on the very " day we entered this bay, our boats founded the " channel for more than two hours, in every direc-" tion, without finding any current. It is true, " when our fhips prefented themfelves before it, " they were driven back by the ebb; but the " wind was fo faint, that, at the fame time, our " boats ftemmed the tide with the greatest facility. " Laftly, on the 11th of July, the day of the full " moon, both our commanders, in perfon, with fe-" veral officers, founded this channel, went out with " the ebb, and returned with the flood, without " remarking any thing which could afford the leaft " fufpicion of any danger, efpecially with boats well " manned. We may therefore conclude, that on " the 13th of July the violence of the current was " occasioned by some adventitious cause; such as " an extraordinary melting of the fnows, or tempestuous winds, which, though they did not pe-" netrate into the bay, doubtlefs had blown ftrong in " the offing.

" M. de Marchainville was a quarter of a league " within the channel, when I was drawn into it, and " from that moment I faw him no more; but all who " know him will readily imagine what his noble and " generous character would lead him to attempt. ... It " is probable when he perceived our boats among " the breakers, unable to conceive how we could " poffibly be drawn in by it, perhaps he supposed " a grapnel rope had inapped, or an oar been loft. At " that inftant he might have rowed to us, up to the " edge of the first breakers, and feeing us struggling " with the waves, he would liften to his courage alone, " and endeavour to pais through the breakers to affift " us, even at the rifk of perifhing with us. Such " a death was indeed glorious for him; but how " cruel must be its remembrance to him, who, tho' " escaped

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" escaped from the danger, can never again behold " his companions who thared it, or the heroes who " came to his affiftance.

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"Far be it from me to omit any effential fact, or miftate those I relate. M. Mouton, the lieutenant, who was fecond in command of my boat, is able to correct my errors, if my memory has deceived me. His firmness, added to that of the coxfwain and the four rowers, contributed not a little to our fafety. Even in the midst of the breakers my orders were executed with all the accuracy of the most unembarrafied fituations.

(Signed) " BOUTIN."

It now only remained for us to quit with expedition a country which had proved fo fatal to us. Some delay, however, was due to the families of our unfortunate friends. Too precipitate a departure would have left doubts and inquietudes in Europe, where it could not have been imagined the current extends at most only a league out of the channel; that neither the boats nor their crews could have been drawn in from a greater diftance, and the fury of the fea in that place left us no hope of their return. If against all probability any one had been able to return, as he must be in some part of the environs of the bay, I determined to wait feveral days longer. However I quitted the anchoring place of the ifland, and removed to a birth on the fandy flat, at the entrance on the western shore. I devoted five days to this paffage, which is only a league, during which we experienced a gale of wind from the eaftward, which would have greatly endangered us, had we not been at anchor on a good bottom of, mud; happily our anchors did come home, as we were without a cable's length of the fhore. The contrary winds had detained us much longer than I had intended to remain, and we did not fail till the 30th of July. Eighteen days after

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after this event, which it has given me fo much pain to defcribe, and of which the remembrance will render me for ever unhappy. Before our departure we erected a monument to the memory of our brave companions on the ifland, in the middle of the bay, to which I gave the name of *l'Ifle du Cénotaphe*, or Monument Ifland. - M. de Lamanon wrote the following infcription, which he buried in a bottle, at the foot of the monument :

"At the entrance of this port 21 brave Mariners perifhed. "Reader, mingle your tears with our's!

" On the 4th of July, 1786, the Bouffole and Aftrolabe frigates " arrived in this port, having left Breft the 1st of August, 1785. "Through the care of M. de la Pérouse, Commodore of the ex-" pedition, M. le Vicomte de Langle, Captain of the other frigate, " Meffrs. Clonard and de Monti, fecond Captains of the two fhips " and of the furgeons and other officers, none of the maladies, " the ordinary confequence of long voyages, had then affected the " crews. M. de la Pérouse and all of us rejoiced that we had come "from one end of the world to the other, through all kinds of " dangers, and having vifited nations of reputed favages, without " lofing one man, or spilling one drop of blood. The 13th of July " three boats departed at five in the morning, to lay down the " foundings of this bay on the draught. They were under the com-" mand of M. d'Escures, a lieutenant, and a knight of St. Louis, " to whom M. de la Pérouse had delivered written instructions, ex-" prefsly charging him not to approach the current, by which how-"ever he was drawn in, when he thought himself at a sufficient " distance. Messis. de la Borde, brothers, and M. de Flassan, who "were in the boat of the other fhip, courageously exposed them-" felves to the fame danger, in attempting to affift their compa-" nions, but, alas! they fliared the fame fate. The third boat was " under the orders of Lieut. M. Boutin, who, boldly ftruggling " with the breakers, made useless efforts, for feveral hours, to affift " his friends, and was indebted for his own fafety only to the fuperior " construction of his boat, his own prudence, and that of his fe-" cond in command, Lieut. M. Laprife Mouton, and the activity "and prompt obedience of his crew, confifting of John Marie, "coxfwain, Lhoftis, le Bas, Corentin Jers, and Monens, fea-"men. The Indians appeared to fhare in our grief, which is ex-" treme. On this 30th of July, moved and fostened, though not " difcouraged by misfortune, we proceed on our voyage.

Names

Names of the Officers, Soldiers, and Sailors, loft on the 13th of July, at a quarter paft feven in the morning.

OF THE BOUSSOLE.

Officers .- Meffrs. d'Efcures, de Pierrevert, de Montarnal.

Grew.—Le Maitre, chief pilot; Lieutot, corporal and coxfwain; Prieur, Fraichot, Berrin, Bolet, Fleury, Chaub, foldiers; the eldeft not 33 years of age.

OF THE ASTROLADE.

Officers.-Meffra. de la Borde Marchainville, de la Borde Boutervilliers, brothers; and Flassan.

Crew.—Soulas, corporal and coxfwain; Philiby, Julien le Penn, and Pierre Rabier, foldiers. Thomas Andrieux, Goulven, Tarreau, Guillaume Duquefne, all three top-men, in the prime of life.

Our ftay at the entrance of the bay afforded us a fund of information on the manners and cuftoms of the favages, impossible to be obtained at our former anchorage. For our thips being at anchor near their villages, we visited them every day, and as often received cause of complaint, though our conduct towards them never varied, and we constantly afforded them proofs of our gentleness and benevolence.

The 22d of July they brought us fome pieces of the wreck of our boats, thrown by the fea on the eaftern fhore, very near the bay, and made us comprehend, by figns, that they had buried one of our unfortunate companions on the fhore, where he had been thrown by the waves. Upon this information, Meffirs. de Clonard, de Monneron, and de Monti, fet out immediately, directing their courfe to the eaftward, accompanied by the favages, who had brought thefe pieces of wreck, and whom we loaded with prefents.

Our officers went three leagues over rocks and ftones on a dreadful road. • The guides every half hour exacted a fresh compensation, or refused to proceed, and, at length, ran into the woods, and took to flight. Our officers too late perceived their account to be a mere trick invented to obtain more prefents. During 178 Dur of th were more

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During their route they faw immense forests of firs of the largest dimensions. They measured some that were five feet French in diameter, and apparently more than 140 in height.

The account they gave of this artifice of the favages created no furprife, for the address of these people in stealing and cheating is without a parallel. Meffrs. de Langle and Lamanon, with feveral officers and naturalists, had, two days before, made an excurfion to the weftward, of which also these fad enquiries were the object, though purfued with as little fuccefs. They met with a village of the Indians, fituated on a fmall river, entirely blocked up with ftakes for catching falmon. We had for fome time fufpected these fish came from that part of the coast, but were not certain till this discovery fully fatisfied our curiofity, and M. Duché de Vancy took a drawing illustrative of the manner of performing this fifhery *. The falmon endeavouring to afcend the river, are obftructed by the ftakes, which being unable to pas, they return towards the fea, and, in their paffage, meet with very narrow baskets closed at the end, and placed in the angles of this caufeway, when having once entered, they are unable to escape. This fishery is fo abundant, that both our fhips crews had a great quantity of fifh during our ftay, and each fhip falted down two hogfheads of them.

Our travellers also met with a morait, which proves these Indians burn the dead bodies, preferving only their heads, one of which was found wrapped up in feveral skins. This kind of monument confists of four strong stakes, supporting a small wooden chamber, where the assessment deposited inclosed in chefts. They opened these chefts, unfolded the skins which enveloped the heads, and having thus gratified their curiosity, forupulously replaced every

* This drawing has been loft.

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thing in its former state, adding faveral prefents of glais, beads, and inftruments of iron. The favages who had witneffed this vifit, fhewed fome marks of inquietude, but did not fail speedily to carry off the prefents our travellers had left; and other enquirers going to the fame place the next day, found nothing but the afhes and head. They also left prefents, which had the fame fate with those of the preceding travellers, and no doubt the Indians withed for many fuch vifitants every day. But though they permitted us, with fome reluctance, to vifit their cemeteries, they would not fuffer us to explore their huts, which we were not allowed even to approach, till their wives, the most difgusting creatures in the univerfe, had been previoufly removed. 15 . 1

Every day we observed a fresh succession of canoes entering the bay, and every day we beheld entire villages remove, and yield their place to others. The Indians apparently dread the channel, and never trufted themfelves but at flack water; and we could diffinctly perceive with our glaffes, that when they arrived between the two points, their Chief, or at leaft the most confiderable perfonage among them, role up and firetched his arms towards the fun, as if addreffing a prayer to him, while the reft paddled with all their firength. On making fome enquiries concerning this cuftom, we learnt that of eight large canoes, feven had been wrecked in the channel fome time ago, and one only was faved, which the Indians, who had escaped, confecrated to their God, in memory of their companions. This canoe which we had the fortune to fee, stands by a morai, where the afhes of some Indians who had been wrecked are doubtless deposited.

It bears no refemblance to the canoes of the country, which are formed only of an hollowed tree, raifed on each fide by a plank fewed to the bottom; but this had ribs, timber, and rails, like our boats.

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he counee, raifed tom; but ur boats. This



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This framing, which was very well conftructed, was with fkins of the fea wolf, inftead of planks, nextly fewed that the best workmen of Europe maile find great difficulty is imitating that opera-

Id find great difficulty is imitating that opera-This covering, which we stamined with great was deputited in the Moral, by the ide of the containing the alles, while the bere transe boat was placed on flocks erected near that

i id no finall defire to convey this fkin cale to and it was abblutely within our power; for part of the bay being uninhabited, there was no indigo to prevent us, and I am perfuaded the unforimate futierers on the wreck were firangers, of whom thall explain my conjectures in the following chaper. But the monuments of the dead claim a religius respect among all nations of the world, and I think from the violation of an afylum reverenced up favages.

At length on the 30th of July, at four in the evenwe let fail with a very light breeze from the ff, which did not go down till we had got about hree leagues to the offing, and the horizon was fo W. (variation allowed for) diftant at least forty arues. At eight in the evening the entrance of he bay bore north. We were three leagues off hore, having then '90 fathoms water over a muddy 1 NO DOWNER I HORIS in the here is a subbo had it conter with the rate ea tous in though at the Apr pariods of the mod ered a bore might fine man 1 ave thimmed its I mentional, in my according to the in the railed by the veral thing is feet about he have of the first suit. is your He, that the fides be which it had been out field verail of the minter. If are the with Liew stole usy in an the firsth, the charter cals mane more licable, and as all times the currents ronder di Foult. The L this out requires hines we CHAP. Chine 1

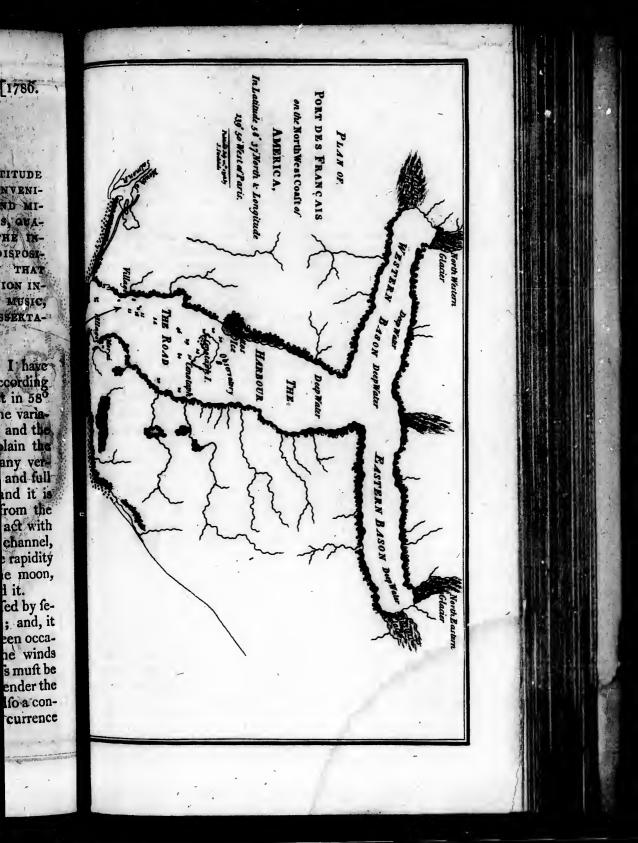
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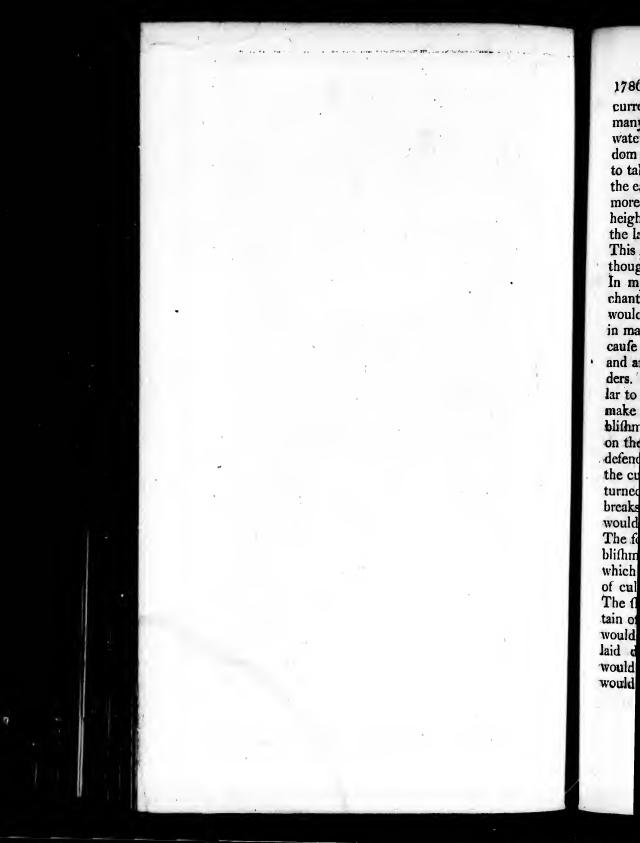
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DESCRIPTION OF PORT DES FRANCAIS, ITS LATITUDE AND LONGITUDE — ADVANTAGES AND INCONVENI-ENCES OF THAT HARBOUR — VEGETABLE AND MI-BERAL PRODUCTIONS — BIRDS, PISH, SHELLS, QUA-DRUPEDS — MANNERS AND CUSTOMS OF THE IN-DIANS — THEIR ARTS, ARMS, DRESS, AND DISPOSI-TION TO THEFT — GREAT FRESUMPTION THAT ONLY THE RUSSIANS HAVE A COMMUNICATION IN-DIRECTLY WITH THESE PEOPLE — THEIR MUSIC, DANCES, AND PASSION FOR GAMING — DISSERTA-TION ON THRIR LANGUAGE.

HE bay, or rather the harbour, which I have called Port des Français, is fituated, according to our observations and those of M. Dagelet in 58° 37' N, lat. and 139° 50' W. longitude. The variation of the comparts is 28° towards the East, and the dip of the needle 74°, but the plan will explain the extent and direction of the port better than any verbal description. On the days of the new and full moon, the tide rises seven seet and a half, and it is high water at one o'clock. The winds from the offing, perhaps from some unknown cause, act with so much violence on the current of the channel, that I have seen the flood tide enter with the rapidity of a torrent, though at similar periods of the moon, even a boat might some interval.

I measured, in my excursions, the bank raifed by feveral tides 15 feet above the level of the fea; and, it is probable, that the tides by which it had been occafioned were those of the winter. When the winds blow violently from the fouth, the channel pass must be impracticable, and at all times the currents render the enrance difficult. The getting out requires also a concurrence





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currence of circumstances, which must retard a vessel many weeks, as the can only get under weigh at highwater; the breeze f om the weft, or the N. W., feldom rifes till about ten o'clock, when it is too late to take advantage of the morning tide : and, laftly, the eafterly winds, which are contrary, appear to be more frequent than those from the west, and the height of the furrounding mountains never permits the land or north winds to penetrate into the road. This port pofferfing many advantages, I have also thought it neceffary to explain all its inconveniences. In my opinion it would not be commodious for merchantmen trading for furs on fpeculation. They would be under the neceffity of coming to an anchor in many bays, making but a fhort flay in each, becaufe thefe Indians fell all their flock in the first week, and any delay must be very prejudicial to mere traders. But a nation defigning to form a factory fimilar to that of the English at Hudson's Bay, cannot make choice of a better fituation for fuch an eftablifhment. A fingle battery of four cannon, placed on the point of the continent, would be infficient to defend to narrow an entrance; rendered difficult by the currents; and fuch a battery could neither be turned nor carried by land, becaufe the fea always breaks with great violence on the coaft, where it would, therefore, be impossible to make a descent. The fort, the magazines, and all the commercial eftablifhment, might be erected on l'Isle du Cenotaphe, which is about a league in circumference, very capable of cultivation, and supplied with wood and water. The thips not having to fearch for cargoes, being certain of finding them already collected at one point, would not be exposed to any delay; some buoys, laid down for the interior navigation of the bay. would render it extremely fafe and eafy, and pilots would be formed, who, knowing the fetting and L 2 drift

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drift of the currents at certain periods of the tide, would enfure the fafety of fhips coming in, and going out: and, laftly, we found there fo confiderable a fupply of otter fkins, that I may venture to prefume a greater quantity could not have been collected in any other part of America.

The climate of this coaft feems infinitely milder than that of Hudfon's Bay, in the fame latitude. We found pincs measuring fix feet in diameter, and 140 in height, while those of the fame species at Prince of Wales's, and Duke of York's forts, are scarcely of a sufficient dimension for studding-stail booms.

Vegetation is extremely vigorous during three or four months of the year, and I should not be furprifed to find Ruffian wheat, and an infinity of other common plants, fucceed well there. We found celery, round leaved forrel, lupines, wild peas, mil-foil or yarrow, chicory, and mimulus, in fuch abundance. that every day, and every meal, the fhips' coppers were filled with them. We had them in foups, in ragouts, and in falads, and they contributed not a little to preferve our health. Among these esculents we found nearly all the field and mountain plants of France, as the angelica, bouton d'or, violet, and feveral fpecies of grafs for fodder. All thefe herbs, doubtlefs, we might have cooked and eaten without danger, had they not been migled with fome plants of the hemlock kind, very acrid, on which we made no experiments.

The woods are replete with ftrawberries, rafpberries, and goofeberries. We found alfo the elder, the dwarf willow, different kinds of broom, which grow in the fhade, the balfam-poplar, *liard*-poplar, marfaut-willow, yoke-elm; and, laftly, those fuperb pines' adapted for the masts of the largest vessels. None of the vegetable productions are strangers to Europe, for M. de la Martinière, in all his various excursions, exc to per view wei bac the felli we for haw 25 prof dry very

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ly milder latitude. neter, and fpecies at are fcarceil booms. three or ot be fury of other found ceis, mil-foil bundance, s' coppers n soups, in ited not a e esculents tain plants violet, and hefe herbs, en without ome plants we made

rries, rafpthe elder, om, which ard-poplar, hofe fuperb eft veffels. trangers to his various excurfions, ROUND THE WORLD. -

excursions, found only three plants which he believed to be new; and it is well known the fame may happen in the environs of Paris.

The rivers were full of trout and falmon, but, in the bay, we only caught *fletans*, * fome of which weighed 100lbs, finall vieilles, + a fingle ray or thornback, fome *caplans*, 1 and fome plaice. Preferring the trout and falmon to all these fish, and the Indians felling them in greater quantities than we confumed, we fished very little, and that only with the line, for our conftant occupation never permitted us to hawl the feine, which required the united force of 25 or 30 men to drag it ashore. Muscles grow in profuse heaps on that part of the shore which is left dry at low water, and the rocks are also covered with very curious little lepas. In the hollows of the rocks are found cornets, and other fhells of the perrivinkle kind. I have feen on the fands cames of a confiderable fize, and M. de Lamanon brought from a place elevated above 200 toifes from the level of the fea, fome well preferved and very large petrifications of the shell, called, by naturalists, manteau royal, and by the vulgar coquille de Saint Jacques. This circumftance is not uncommon to naturalists who could have found these shells at much greater heights, but it will long continue difficult to explain, fo as to obviate all objections. We never found a fingle shell of this fpecies caft on the fands of the fhore, which is well known to be the chief cabinet of nature.

* Or *faitan*, a flat fifh, longer and narrower than the turbot, and its upper fkin covered with fmall fcales. Those caught in Europe are of a much fmaller fize.—*French Editor*.

[‡] This fifth refembles a whiting, though much larger, and its fiefh foft, well tafted, and eafy of digeftion. It abounds on the coaft of Provence, where it is called *capelan*.—French Editor.

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[†] A fifh in tafte and appearance like a cod, but commonly larger, though, from its avidity, caught with equal eafe.—Frencb Editor.

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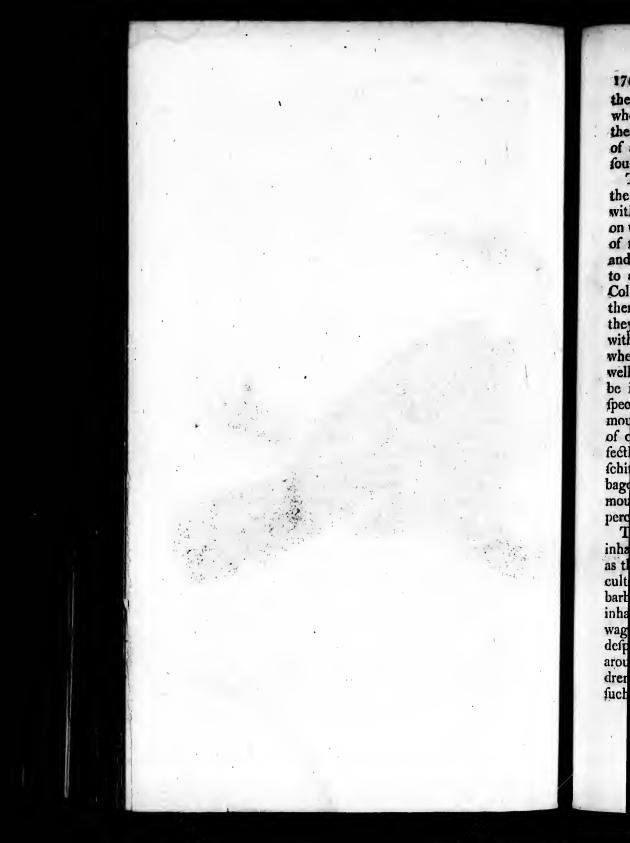
Our hunters faw in the woods, bears, martens, and fquirrels, and the Indians fold us fome bear fkins. both black and brown, together with those of the Canadian lynx, the ermine, the marten, the petit gris. the fquirrel, the beaver, the monax or mountain-rat of Canada, and the red-fox. M. de Lamanon took alfo a mufaraigne, or fhrew-mouse, alive; and we faw fome tanned fkins of the orignal or elk, and a horn of the wild-goat; but the most valuable, though most common skins, are those of the fea-other, wolf, and fea-bear. Of birds there are not man different species, but the individuals of each are ver numerous, and the copies were full of linnets, nigh tingales, black-birds, and water-quails, whofe for were very agreeable, this being their polying tin The white headed eagle, and crows of the largest cies, were feen hovering in the dir; we farpre killed a king-fifher, and found a very fine blue-live fome humming birds. The fwallow or ma the black-hultrier, build in the hollows of the m on the fea floore : but the only fea birds we obfer were the goeland, the red-footed plover, cornariant mallards, and divers, both of the large and final fpecies.

Yet though the vogetable and mineral productions of this country to nearly refemble those of other regions of the globe, its feenery has no parallel, and I doubt whether the lofty mountains, and deep vallies, of the Alps and Pyrences, afford fo tremendous, yet fo picturefque, a fpectacle, well deferving the attention of the curious, were it not placed at the extremity of the earth.

The primary mountains of granite, or of fchift, covered with eternal fnows, where no trees, no plants, are feen, reft their bafes in the water, and form a kind of quay along the fhore. Their fides are fo fleep, that wild goats cannot climb beyond the first 2 or 300 toifes; and all the ftreams by which they

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Pub June 20. 1798, by I Stockdale .



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they are divided, are converted into immenfe glaciers, whole fummits rife beyond the reach of fight, while their bases are washed by the sea, and, at the distance of a cable's length from thore, the water cannot be founded with a line of 60 fathom.

The fides of the harbour are formed of mountains of the fecond order, only 8 or 000 toifes high, decorated with pines and verdure, and only covered with fnow on their fummits. They feemed entirely composed of fchift in the commencement of its decomposition, and are not quite inacceffible, though very difficult to ascend. Messis. de Lamanon, de la Martinière. Collignon, abbé Mongès, and father Receveur, all of them zealous and indefatigable naturalists, although they could not attain the very fummit, yet mounted with inexpreffible fatigue to a confiderable height, where not a ftone or flint escaped their notice. Too well skilled in the history and economy of nature to be ignorant, that in the vallies may be found fome specimens of whatever constitutes the mass of the mountains; they did not fail to collect ochre, pyrites of copper, very friable, though very large, and perfectly chryftalized granite, fhoerl in chryftals, granite, schifts, pierre de corne, very pure quartz, mica, plumbago, and pit-coal, from all which, it is evident thefe mountains contain iron and copper, though we could perceive no traces of any other metal.

To a region fo tremendous nature has adapted the inhabitants, differing as much from civilized nations, as the country I have just described differs from the cultivated plains of Europe. Equally rough and barbarous, as their foil is ftony and unimproved, they inhabit this land only to fpread devastation, and waging continual war with every kind of animal, defpife the vegetable productions that fpring up around them. I have, indeed, feen women and children eat ftrawberries and rafpberries, but, doubtlefs, fuch food is infipid to men who, on the furface of the

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the earth, act the part of vultures in the regions of the air, or wolves and tigers in the forcit. *

The arts of life are there confiderably advanced, and they have already made great progress to civilization. But that civilization which polifhes manners, and foftens ferocity, is yet in its infancy; for their manner of life excluding all fubordination, exposes them to be continually agitated by fear or vengeance, and being choleric, and prone to violence, we faw them inceflantly raifing their poignards against each other. Though fubject to famine in the winter, as the chace may not produce a fufficient fupply, they enjoy in fummer the most profuse abundance; for, in less than an hour, they catch fifh enough for the fubfiftence of their families during the day. Thus the remainder of their time being condemned to idlenefs, it is paffed in play, which they purfue with as much ardour and paffion as the diffipated inhabitants of a great metropolis; and, like them, make it the grand inexhauftible fource of their quarrels. If to all thefe vices were added the baneful knowledge of fome intoxicating liquor, I fhould not hefitate to pronounce these people hastening, by rapid strides, to total extirpation.

In vain may philosophers exclaim against this picture. While they are making books by the fire-fide, I have been traversing the globe for thirty years, and have actually witnessed the cunning and injustice of

* An old proverb warns credulity againft the accounts of travellers, and may, perhaps, prejudice the opinions, and diminifh the confidence of fome readers, who may not confider the great attention a navigator is interefied to pay to his reputation, the leaft deviation from the truth being fufficient to provoke a formal contradiction from the numerous body of witneffes by whom he was accompanied. If, however, fuch a prejudice, which reflection would exclude, cannot be prevented, let me recommend, as its certain remedy, a comparison of our author's account with the details given by Dixon of the north weft coaft of America, not forgetting that his voyage was performed a year after that of La Péroufe, whofe journal must therefore have been unknown to him.—*Erench Editor*. nations

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ROUND THE WORLD.

nations whom they pourtray as neceffarily fimple and virtuous, because little removed from a state of nature. But nature is sublime only in the mass, while sever negligent of minutiæ. It is impossible to penetrate through woods not thinned by the labours of civilized man; to traverse plains tilled with rocks and stones, or inundated by impassible marshes; or, in short, to associate with man in a state of nature, because in that state man is cruel, base, and deceitful. Confirmed in this opinion by fad experience, I have never had recourse to that superior force with which I was intrussed in order to repel the injussice of these favages, and teach them there is a law of nations which should never be violated with impunity.

Our fhips were inceffantly furrounded by cances of Indians, who would fuffer three or four hours to pafs away before they commenced an exchange of a few fifh, or two or three otter fkins; feized every opportunity of plunder; ftole every piece of iron that could eafily be carried away; and, in the night particularly, tried every means of eluding our vigilance. I invited all the principal perfonages on board and loaded them with prefents, yet thefe very men, who had been eminently diffinguifhed, were never afhamed to fteal a nail or an old rag of cloaths. Whenever they affumed an air of mirth and docility I was affured fome theft had been committed, and very often merely pretended not to obferve it.

I expressly recommended the children to be carefied and loaded with small prefents, but their parents were infensible to this mark of benevolence, which I thought common to all nations. The only reflection it excited among them was, that by asking to accompany their children when I invited them on board, they would find new opportunities for plunder; and for my instruction I often had the pleasure of observing the father take advantage of moments when we appeared most occupied with his

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his child, to pilfer and conceal under his covering of fkin every thing within his reach.

I pretended to defire fome trifling articles of little value belonging to the Indians to whom I had just made large prefents, that I might awaken their generofity; but without effect.

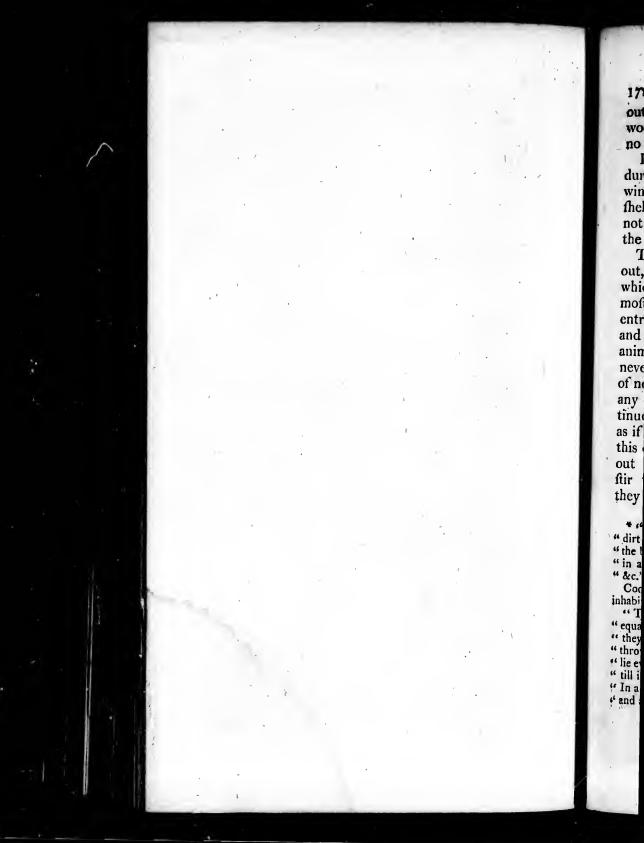
I will readily admit that fociety cannot poffibly exift without fome virtues, but I must confers I had not the fagacity to difeover any here. Always quarrelling between themfelves, indifferent to their children, and tyrants to their wives, when they condemn to the most incessant and intolerable labour, I have observed nothing among these people to induce me to fosten the dark colouring of the picture.

We never landed without being armed and in a body, for they greatly dreaded our mulkets, and eight or ten Europeans together might command a whole village. The two furgeon-majors of our fhips imprudently venturing alone to the chase were attacked by the Indians, who endeavoured to feize their mulkets, but fortunately without fuccess, and only two men were fufficient to drive them away. A fimilar accident occurred to M. de Leffeps, our young Ruffian interpreter, when a boat's crew fortunately came to his affiftance. Yet these hostilities appeared to them of fo little moment that they did not discontinue their visits on board, and feemed never to fuspect it possible for us to make reprifale.

I give the name of village to three or four penthouses, 25 feet long and 15 or 20 broad, covered only to windward with planks or bark of trees, in the middle of which is a fire with falmon and *fletans* fuspended over it to dry in the fmoke. Eighteen or twenty perfons lodge in each of these penthouses; the women and children on one fide, and the men on the other. Each cabin appeared to me to conflitute a tribe independent of its neighbours; which possible each a boat and a fort of Chief, went

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out, left the bay, and carried away their fifh and wood, while the reft of the village appeared to take no fhare in their proceedings.

I am almost certain this port is inhabited only during fummer, and that the Indians never pass the winter there. For I did not perceive a fingle cabin sheltered from the rain, and although there were not at any time more than 300 Indians together in the bay, we were visited by 7 or 800 others.

The canoes were continually coming in and going out, carrying with them their houfes and furniture, which confifts of feveral little chefts containing their most valuable effects. These chests are placed at the entrance of their cabins, which are more unclean and flinking than the dens of the most loathfome animal with which we are yet acquainted. They, never withdraw two fteps for any common occasion of neceffity, nor in the relief of nature do they feek any concealment or observe any mystery, but continue the converfation in which they are engaged, as if there was not a moment to be loft; and fhould this occur during a repart, refume their places without concern, from which, however, they do not ftir two yards *. The wooden veffels in which they cook their fish are never washed, but ferve

* " The infide of their dwellings exhibits a complete picture of " dirt and filth, indolence and lazinels; in one corner are thrown " the bones, and remaining fragments of victuals left at their meals; " in another are heaps of fifh, pieces of flinking flefh, greafe, oil, " &c."—— Dixon's voyage, p. 173.

Cook has depicted the naftinefs of the houfes occupied by the inhabitants of Nootka Sound in the following paffage:

"The naftinefs and ftench of their houfes are, however, at leaft "equal to the confusion. For as they dry their fifth within doors, "they alfo gut them there, which with their bones and fragments "thrown down at meals, and the addition of other forts of filth, "lie every where in heaps, and are, I believe, never carried away "till it becomes troublefome, from their fize, to walk over them. "In a word, their houfes are as filthy as hog-flies, every thing in " and about them flinking of fifth, train-oil and fmoke."

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equally fat kettle, difh, and plate ; and as the

not be based on the fire, they buil their water by throwing in red hot fiints, continually remember them till their food is completely dreffed. They are also acquainted with a method of roafting their victuals fimilar to that ufed by foldiers in camps. We fire perhaps only a finall part of these people, who prebably occupy a very confiderable space on the fea coast, wandering all the summer about the different bays like sea wolves in fearch of food, and during winter penetrating into the heart of the country to hunt the caftors and other animals, of which they brought us the exavise. Notwithstanding they always go barefooted, the foles of their feet are not callous, but continue to tender they cannot walk on the ftones, a proof they travel only in cances or with fuow-fhoes.

The dog being the only mimal with whom they have made any alliance, there are commonly two or three of them in a cabin. They are finall, and refemble the fhepherd's dog of M. Buffon : they drink little or nothing, make a whiftling noife like the adive of Bengal^{*}, and are fo ferocious as to bear the fame analogy to other dogs as their mafters to civilized nations.

The men pierce the cartilage of their nofe and cars to which they attach various little ornaments. They fearify their breafts and arms with a very fharp iron infrument, whetting it upon their teeth as on a hone. Their teeth are filed down even with the gum with a piece of rough ftone rounded off in the fhape of a tongue. They paint their faces and other parts of their bodies in a frightful manner, with ochre, lamp black, and black lead, mixed

* A wild beaft between the wolf and the dog, very common in Affia, carnivorous, and dangerous to men. It barks in the night like a dog, but not equally loud. Its fkin is yellowith, and is effected a valuable fur. — French Editor.

ting, they ting, they amps fie people, fpace on about the food; and the coupof which ding they set are not bt walk on cances or

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up with the oil of the fea wolf. During great ceremonies their hair is long and powdered, and dreffed with the down of various fea birds. This feems to be their greateft luxury, and is referved perhaps only for the heads of families. A plain fkin covers their fhoulders while the reft of the body is abfolutely naked : but they ufually cover their head with finall hats of ftraw very neatly made. Sometimes however . they wear on their heads a bonnet with two corners, eagles plumes, and laftly, the entire head of a bear, in which they introduce a fkull cap of wood. Of these different head-dreffes they have great varieties, but their principal object feems, like their other cuftoms, to render them only more frightful, and perhaps to infpire their enemies with terror.

Some of the Indians had entire fhirts of otter fkins, and the ordinary drefs of the grand Chief was a fhirt made of the elk fkin. This very drefs is well known among the favages of Canada, and other nations on the eaftern fide of America*.

I faw no *tattooing* but on the arms of the women, who have allo a cultom which makes them fo hideous, that I could fcarcely have credited had I not been an eye witnefs to it. Every one of them without exception has the under lip cut acrofs even with the gums, the whole width of the mouth. In this incifion they wear a kind of ladle without handles, which prefiles againft their gums, to which their cut lip ferves as a pad outwards, fo that the lower part of the mouth projects 2 or 3 inches \uparrow . M. de

* "The chief, who always conducts the vocal concert, puts on "a large cloak, made of the elk skin, tanned, round the lower "part of which is one, and sometimes two rows of dried berries, "or the beaks of birds, which make a rattling noise whenever he "moves."—Dixon's Voyage, p. 242.

† This cuffom appears very general among the tribes who inhabit the north-weft coaft of America, from the 50° to the 60°, and extends even to the favages of the Isle of Foxes and the Aleutian Islands,

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M. de Vancy's drawing, which is a perfectly acmutate respectentation of it, will be the beft illuftration of this revolting cuftorn, than which the whole world perhaps does not afford another equally difguiting. The young girls only wear a kind of bodkin, while the married women alone are entitled to the honours of the ladle *. We fometimes perfuaded them

Illands. Vide the observations of Coxe in his translation of Nouorlles Decouverts des Ruffes, pages 34, 54, 104, and 138.

At Port Mulgrave, 59° 33' north lat. 140° 22' well from the meridian of Paris, " an aperture is made in the thick part of the under lip, " and increased by degrees in a line parallel with the mouth, and " equally long: in this aperture, a piece of wood is conftantly wore, " of an elliptical form, about half an inch thick ; the fuperficies not " flat, but hollowed out on each fide like a fpoon, though not " quite fo deep; the edges are likewife hollowed in the form of " a pully, in order to fix this precious ornament more firmly in the " horizontally, and confequently extended at leaft three inches " horizontally, and confequently difforts every feature in the lower " part of the face. This curious piece of wood is wore only by the " women, and feems to be confidered as a mark of diffication, it " not being wore by all indifferimmately, but only thofe who appear-" ed in a fuperior flation to the reft."—Dixm's Voyage, p. 172.

At Norfolk Sound, in 57° 3' north lat. 135° 35' weftlong. from the meridian of Paris, "the women, too, ornament, or rather diffort "their lips in the fame manner as I have already defcribed; and it "fhould feem, that the female who is ornamented with the largeft "piece of wood, is generally most respected by her friends, and "the community in general."—Dixon's voyage p. 186.

At Hippah, one of Queen Charlotte's Iflands in 53° 48' north lat. 135° 20' weft long. from the meridian of Paris, "there were likewife "a few women amongit them, who all feemed pretty well advanced "in years; their under lips were difforted in the fame manner as "those of the women at Port Mulgrave, and Norfolk Sound, and the pieces of wood were particularly large. One of these lip pieces ap-"pearing to he peculiarly ornamented, Captain Dixon wished "to purchase it. This curious lip-piece measured three and feven-"eighth inches long, and two and five eighth inches in the wideft " part: 'It was inlaid with a finall pearly fiell, round which was "a rim of copper."-Dixon's worge, p. 208.

"a rim of copper."—Dixon's woyage, p. 208. Compare also what Cook fays on the cuftoms of the lavages of Oonalalka and Norton's Sound, in 64° 31' N. lat. and 165° 7' well long. from the meridian of Paris, and of Prince William's Sound, in 61° 11' 30" N. lat. 148° 52' W. long. from the meridian of Paris. Cook's 3d Voyage.—Franch Editor.

* Among these favages marriage being subject to no formalities

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m the merie under lip, mouth, and antly wore, perficies not though not the form of irmly in the three inches in the lower only by the function, it who appeare. a. 172.

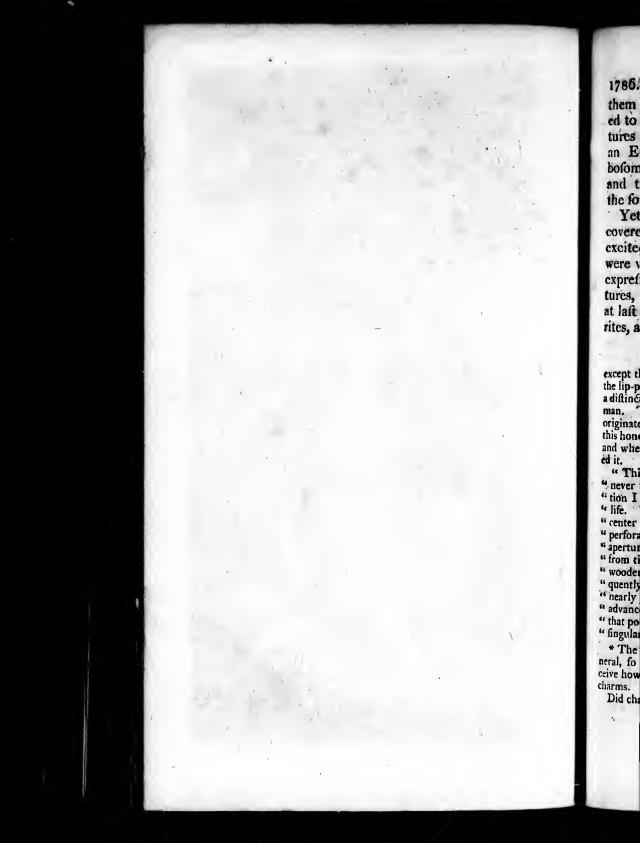
e, a. 172. ng. from the ther diftort ibed; and it h the largeft friends, and

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them to take off this ornament, which they confented to with difficulty, making the fame modeft geftures and experiencing the fame embarrafiment as an European lady would fnew at uncovering her bofom. The under lip then fell down on the chin, and this fecond picture was no lefs hideous than the former;

Yet these women, the most difgusting on earth, covered with fetid, and frequently untanned, skins, excited the defires of some perfors who, in truth, were well privileged for such carefies. At first they expressed unwillingness, and declared, by their geftures, they ran the risk of their lives. But overcome at last by prefents, they made the fun witness of their rites, and refused to conceal themselves in the woods.*

except those dictated by nature, I am of opinion with Dixon that the lip-piece is rather the diffinction of puberty or of maternity, than a diffinction of rank, or the badge of exclusively belonging to one man. The respect they pay to such as bear this ornament may originate in this principle, for I cannot suppose the privation of this honour to be a punishment in a country fo little civilized, and where it would be fo easy to recognize those who once enjoyed it.

"This curious operation of cutting the under lip of the females, "never takes place during their infancy, but from every obferva-"tion I was able to make, feems confined to a peculiar period of "life. When the girls arrive to the age of fourteen or fifteen, the "center of the under lip, in the thick part near the mouth, is fimply "perforated, and a piece of copper wire introduced to prevent the "aperture from clofing; the aperture afterwards is lengthened, "from time to time, in a line parallel with the mouth, and the "wooden ornaments are enlarged in proportion, till they are fre-"quently increafed to three, or even four inches in length, and "nearly as wide, but this generally happens, when the matron is "advanced in years, and confequently the mufcles are relaxed; fo "that poffibly old age may obtain greater refpect than this very "fingular ornament." Dixon's Voyage, p. 187.

* The minutize of Captain Dixon's defcription coincide, in general, fo exactly with those of La Pérouse, that I can fearcely conceive how they should differ so much in their estimation of female charms.

Did chance prefent to Dixon an object perfectly unique among

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It cannot be doubted, but that orb is the god of thefe people, who frequently address prayers to him. But I could perceive neither temple nor priefts, nor the traces of any regular religion.

In fize and figure these Indians differ little from us; their features are greatly varied, and afford no peculiar characteristic, except in the expression of their eyes, which never communicate one tender fentiment. The colour of their fkin is very brown. being conftantly exposed to the fun; but their children are born as white as any among us. They have, inded, lefs beard than Europeans, but enough, however, to remove all doubt upon the fubject; and the fupposition that the Americans are without beards, is an error that has been too readily adopted. I have feen the aborigines of New England, Canada, Nova Scotia, and Hudfon's Bay, and among each of those nations have found many individuals with a beard,

his species? or does the difference of his opinion originate in the well known indulgence of a failor after fo long a voyage? Be that as it may, he gives the following account :

" They are particularly fond of painting their faces with a va-" riety of colours, fo that it is no eafy matter to difcover their real " complexion ; however, we prevailed on one woman, by perfua-" fion, and a trifling prefent, to wash her face and hands, and " the alteration it made in her appearance abfolutely furprifed us; " her countenance had all the cheerful glow of an English milk-" maid; and the healthy red which flushed her cheek, was even " beautifully contrasted with the whiteness of her neck; her eyes " were black and fparkling; her eye brows the fame colour, and " most beautifully arched ; her forehead fo remarkably clear, that " the tranflucent veins were feen meandering even in their minutelt " branches-in fhort, fhe was what would be reckoned handfome " even in England : but this fymmetry of features is entirely de-" ftroyed by a cuftom extremely ingular." Dixon's Voyage, p. 171.

In support of Dixon, however, I must cite the Spanish account of a voyage undertaken in 1777, written by Don Maurello, fecond Captain of La Favorecida. This navigator, after confirming the accounts of the ridiculous ornament placed in an orifice cut in the middle of the under lip, adds : " If better dreffed, many of them " might diffute the prize of beauty with the finest women of Spain." French Editor.

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r little from nd afford no xpreflion of one tender very brown, at their chil-They have, nough, howect; and the out beards, is ted. I have Canada, Nova each of those vith a beard,

originate in the voyage? Be that

faces with a valiscover their real oman, by perfuaand hands, and tely furprifed us; an English milkcheek, was even r neck; her eyes fame colour, and rkably clear, that n in their minutest ckoned handfome res is entirely de-'s Voyage, p. 171. e Spanifh account Maurello, fecond er confirming the h orifice cut in the ed, many of them women of Spain."

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which made me think a cuftom of deftroying it has prevailed where it does not appear.* In the frame of their bodies they are feeble, and, in wreftling, the weaken of our failors would have thrown the most robuft of the Indians. I remarked fome whofe swollen legs gave symptoms of the fcurvy, although their gums were found; but I doubt they will never arrive at a great age: nor did I fee more than one woman apparently of the age of fixty; and the enjoyed no privilege, but fubmitted, like the reft, to the various labours of the fex.

My voyages have enabled me to compare various nations, and I am certain the Indians of Port des Français are not Efquimaux. They have evidently a common origin with all the inhabitants of the interior. of Canada, and the northern parts of America.

Cuftoms entirely peculiar to themfelves, and a very 12 12 20 20 1 1 1 1 1

. 1 11 • " The young men have no beards, and I was at first inclined " to think that this arole from a natural want of hair on that part, " but I was foon deceived in this particular, for all the men we faw, " who were advanced in years, had beards all over the chin, and "fome of them whifkers on each fide the upper lip. As this fup-" poled defect among the natives of America has occasioned much " fpeculative enquiry amongst the learned and ingenious, I took "every opportunity of learning how it was occasioned, and was "given to understand, that the young men got rid of their beards by pulling them out, but that as they advance in years, the hair is fuffered to grow." Dixon's Voyage, p. 238.

An enemy to all fystems and aiming folely at truth in my refearches, I shall not difcard the affertions of these who contradict La Pérouse, and I believe the reader will derive pleasure from the following extract from the Lettres Americaines of Carli, let. 24 :

" It is not at all furprifing indeed to fee the Americans without beard, or hair on their bodies, fince the Chinese and Tartars, if we credit historians, are equally deprived of it. Hippocrates tells us the Scythians of his time were without them. The Huns were perhaps the defcendants of the Scythians; for, as Fernandez relates, 46 they grow old without beards, and become adult without the or-" naments of puberty. . The hiftory of Hyton, the Armenian, who fied from Tartary in 1305, and became a monk at Cyprus, informs us the Tartars, particularly those of Catay, have no beard : 44 and how many people in Afia and Africa are in the fame fituation !"- French Editor. M

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fingular countenance, diffinguish the Esquimaux from all other Americans. The former, in my opinion, refemble the Greenlanders, and inhabit the coaft of Labrador, Hudson's Straits, and a firip of land along the whole extent of America, up to the Peninfula of Alaska. It is doubtful whether Asia or Greenland was the original country of these people, but that queftion is frivolous, and will, probably, remain for ever problematic and undecided. Suffice it to fay, the Equimaux are a people who delight more in fifhing than the chace, and preferring oil to blood, nay, perhaps, to every thing elfe, commonly eat their fifh raw. The framing of their canoes is always covered with fkin of the fea-wolf very tightly ftretched.' Nimble and active in all their movements, they differ little from fea-calves, and wanton in the water with as much agility as if naturally amphibious. Their face is almost square, their eyes and breast large, their figure fhort. Of all these characteristics not one agrees with the natives of Port des Français, who are much larger, meagre, far from robuft, and very unskilful in the construction of their boats, which are formed of an excavated tree, raifed on each fide with a fingle plank. on other no

The latter catch fifth like us by ftopping the rivers, or with a line, which they ufe in a very ingenious manner. They faften a large bladder of the feawolf to each line, and abandon it to the waves. Every cance throws out 12 or 13 lines. When a fifth is hooked he carries off the bladder, and is purfued by the cance. Thus two men are enabled to attend 12 or 15 lines, without the trouble of holding them in the hand •.

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* "I cannot think that this was altogether defigned as an orna-"ment to their hooks, but that it has fome religious allufion, and poffibly is intended as a kind of deity, to enfure their fuccefs in "fifthing, which is conducted in a fingular maaner. They bait their "hook with a kind of fifth, called by the failors /quids, and having "funk

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imaux from y opinion, the coast of land along Peninfula of Greenland e, but that remain for e it to fay. nore in fishod, nay, percir fish raw. overed with d. Nimble differ little ter with as Their face large, their ics not one cais, who are nd very uns, which are ich fide with

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These Indians have made far greater progress in the arts than in morals, and their industry is more advanced than that of the inhabitants of the South Sea Islands. I must, however, except agriculture, which, by rendering man domestic, securing him a subsistence, and subjecting him to the fear of the land he has cultivated being exposed to ravages, contributes more, perhaps, than any other cause to soften his manners, and render him fit for society.

The Americans of Port des Français arc acquainted with the method of forging iron and moulding copper. They fpin the hair of various animals, and, with a needle, form of that wool a manufacture fimilar to our tapeftry. With this web they mingle strips of the otter skins, which makes their cloaks refemble the fineft filk fhag. In no part of the world are firaw hats and bafkets more fkilfully made. They adorn these with pleasing designs; and sculpture, in a paffable manner, men and animals in wood and stone. They decorate boxes of an elegant form with shell-work, and cut the ferpentine stone into jewels, to which they give the polifh of marble. " Their arms confift of the poignard already defcribed, a lance of wood, hardened in the fire, or of iron, according to the riches of the proprietor, and a bow and arrows ufually pointed with copper. But their bows are in no respect remarkable, and much weaker than those of many other nations.

I found among their jewels pieces of yellow amber, but know not whether it is indigenous, or imported, like their iron, from the ancient hemisphere, by an indirect communication with the Ruffians.

I have already mentioned that feven large canoes had been wrecked at the mouth of the harbour. Their

"funk it to the bottom, they fix a bladder to the end of the line as "a buoy, and fhould that not watch fufficiently, they add another. "Their lines are very firong, being made of the finews or inteftines "of animals. One man is fufficient to look after five or fix of thefe "buoys." Dixon's Voyage, p. 174.—French Editor.

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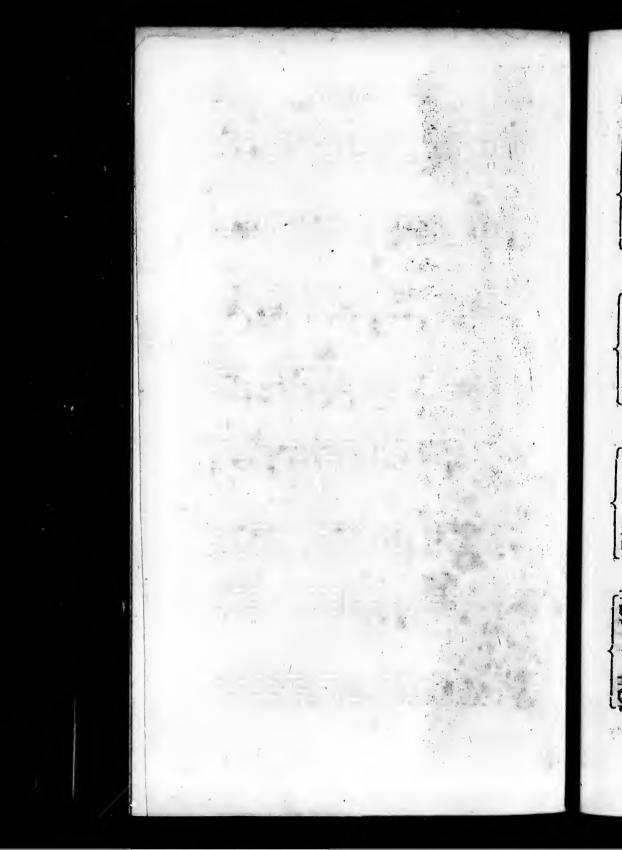
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dimensions, as taken from the only one that elesned were 34 feet long by four feet broad, and fix dem These large dimensions qualified them for expeditions of confiderable length. They were covered with the fkin of the fea-wolf like those of the Esquinaux, which led us to imagine the Port des Français was en emporium only inhabited in the fifting featon ... We thought it poffible that the Equimaux in the vicinity of the Shumagin Iflands, and of the peninfula en plored by Captain Cook, might extend their commerce to this part of America, furnishing it with iron. and other articles, and taking, with great advantage to themfelves, the otter-fkins which they to caperly defire. The form of these canoes, and the great quantity of fkins we dealt for (probably collected here for fale to these traders), confirm this conjecture. which I merely throw out, because it feems to acr count for the iron and other European articles they poffeis.out di statutes hats a vin asterio uso

I have spoken of the passion of these Indians for play. That to which they devote themfelves with the greateft fury is a game of purc hazard. They have 30 flicks; each differently marked in the manner of dice. Of these they hide seven; each plays in his turn, and he who comes nearest to the numbers on the feven flicks wins the flake, which is ufually a piece of iron, or a hatchet. This game renders them ferious and melancholy, though I have often heard them fing; and when the Chief came on board, he generally first went all round the ship singing, with his arms extended in the form of a crofs, as a fign of amity, and then came on board, performing a pantomime expressive of battles, of surprizes, or of death. The air which preceded this ballad was pleafing and harmonious, and, as nearly as we could note it down, is as follows.*

• These who have the ftrongeft voices take the air a third low and the women a third above the principal part, while other an octave, and often make a paule of two bars at the higheft a







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M. de Lamanon is the author of the following Remarks on the language of this nation, of which I fhall only quote the numerical words, for the fatisfaction of those readers who wish to compare various tongues.*

Remarks on the Language of the Indians of Port des Français.

	8 - 8
One	keirrk.
Two	theirh.+
Three	
Four	taakhoun.
Five	keitschine.
Six	
Seven	. takatouchou.
Eight	net lkatouchou.
Nine	kouchok.
Ten	. tchinecate.
Eleven	
Twelve	keirkrha-theirk
Thirteen	keirkrha-neifk.
Fourteen	keirkrha-taakhoun.
Fifteen	
Sixteen	
	keirkrha-takatouchou.
	keirkrha-netskatouchou.
Nineteen	
Twenty	

* A more comprehenfive vocabulary of the languages of all the nations vifited by thefe navigators was announced, and its publication is a just debt to the affiduity of Meffrs. Monneron, Leffeps, Lavaux, Lamanon, Mongès and Receveur; but it is not arrived.

† The r guttural, which this nation pronounces still more harshly than the German *cbr*, is here expressed by *rb*, as if the French word *rhabiller* were pronounced with a strong and difficult vibration.

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Thirty	neiskrha.	·
Forty	taakhounrha.	1 1 1 ¹
Fifty	keitschinerka,	1 1
	kleitouchourha.	
	takatouchourha.	
	netskatouchourha.	
Ninety	kouehokrha.	. 1
	tchinecaterha	
	1	

" Our letters are not adapted to express the lan-" guage of this nation : for, though they have many " founds fimilar to ours, many of their articulations " are totally foreign to us. They make no use of the " confonants, B, F, X, J, D, P, V, and notwithftanding " their talent for imitation, they were never able to " pronounce the four first, or the L mouillée", and GN " mouillé. They articulate the R as if it were double, " with a ftrong vibration; and they pronounce the " chr of the Germans with as much harfhnefs as the "Swifs of certain Cantons. They have an articulate " found extremely difficult to catch, and which we " could not endeavour to imitate, without exciting " their rifibility.' It is in fome degree reprefented " by the letters khlrl, which form one fyllable, pro-" nounced at the fame time with the throat and the " tongue. It occurs in the word khlrleies, which fig-" nifies hair. Their initial confonants are, K, T, N, S, M, " of which the former are those most frequently used. "None of their words begin with an R, and they " almost always terminate in ou, ouls, oulch, or other "vowels. Their guttural pronunciation, the great " number of Ks, and their double confonants, ren-" der this language extremely harfh. It is even lefs " guttural when spoken by the men than by women, " as the wooden ornament they wear in their under

* Of this pronunciation the word mouillée is itfelf an example, as bagnio is of the gn .- Translator's Note. " lip,

M 4

" lip, which they call kentaga, incapacitates them "from pronouncing the labials.

" The harfhness of their language is less striking " when they fing. I was unable to make many " observations on the parts of speech they employ, " as it is extremely difficult to communicate abstract " ideas by figns; but I difcovered that they ufe " interjections to express admiration, anger, and " pleafure, though I do not believe they have any " articles, for I perceived no words that recur with " fufficient frequency, or appeared to ferve as con-" nectives to their difcourfe. They are acquainted " with numbers; for which they have names, but " have no mode of diffinguishing the plural from the " fingular, either by a difference of termination or by " an article. I flewed them a fea calf's tooth, " which they called kaourré, and they gave the fame " name to a number of these teeth, without the least " change in the found. Their collective nouns are " very few; nor have they fufficiently generalized " their ideas to have formed words of abstraction. " They have not even fufficiently definite ideas to " avoid giving the fame name to objects perfectly "diffinct. Thus kaaga fignifies at once head and " face, and alcaou both chief and friend. I perceived " no refemblance between this language and that of " Alafka, Norton Sound, Nootka, Greenland, or the " Efquimaux, Mexicans, Nadoeffis, and Chipawas, " whofe vocabularies I have collated. I pronounced "feveral words of these languages, without their com-" prehending any of them, although I varied my pro-"nunciation as much as poffible; but although there " is not perhaps a fingle idea or thing expressed by " the fame name among the Indians of Port des " Français, and the nations just named, there ought " to be a great affinity of found between this lan-"guage and that of the entrance of Nootka Sound, " for

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s ftriking ke many employ, e abstract they use ger, and have any cur with as conquainted mcs, but l from the ion or by 's tooth, the fame t the leaft iouns are eneralized ftraction. ideas to perfectly head and perceived nd that of nd, or the Chipawas, onounced heir comd my prough there refled by Port des ere ought this lanka Sound, " for [#] for κ is the predominant letter in each, and occurs " in almost every word. Their initial confonants and " terminations are very often the fame, and it is not " perhaps impossible this language may have a com-" mon origin with that of Mexico; but if fo, this " origin must be very ancient, fince their words have " no refemblance, excepts in the elements of words " and not in their fignification."

I fhall conclude my account of this nation by obferving, that we perceived no trace of cannibalifin among them, though it is fo general a cuftom among the Indians of America, that I might even have to add this trait to the picture, had they been at war or taken a prifoner during our ftay*.

CHAP. X.

DEPARTURE PROM PORT DES FRANÇAIS-EXPLORA-TION OF THE COAST OF AMERICA-BAY OF ISLANDS -PORT OF LOS REMEDIOS, AND PORT BUCCAREL-LI OF THE PILOT MAURELLO-CROYÈRE ISLANDS -ISLANDS OF SAN CARLOS-DESCRIPTION OF THE COAST FROM CROSS SOUND TO CAPE HECTOR-A GREAT GULPH OR CHANNEL-EXACT DE-TERMINATION OF ITS BREADTH - SARTINE ISLANDS-WOODY POINT OF CAPT. COOK-VERI-FICATION OF OUR TIME-KEEPERS-BREAKERS POINT-NECKER ISLANDS-ARRIVAL AT MONTE-REY.

THE forced ftay I had recently made in Port des Français, obliged me to alter my plan of navigation on the coaft of America, though I had ftill time

* Capt. J. Meares has proved, in his voyages, that the nations who inhabit the N. W. coaft of America are caunibals.—French Editor.

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to range along it and determine its direction; but it was impoffible to think of putting in at any other port. ftill lefs to reconnoitre every bay. All my proceedings must now be fubordinate to the absolute necessity of arriving at Manilla by the end of January, and at China in the course of February; in order to employ the enfuing fummer in exploring the coafts of Tartary, Japan, Kamtschatka, and even the Aleutian islands. I perceived with chagrin that fo vaft a plan fcarcely admitted of our deferying objects at a diffance, without clearing up any doubts regarding them; for being obliged to navigate within the reign of the monfoons, it was neceffary either to lofe a whole year, or arrive at Monterey between the 10th and the 15th of September, and ftay there but fix or feven days to take in wood and water, and then traverfe as rapidly as poffible the great ocean, over a fpace of 120° of longitude, or near 2400 marine leagues: for between the tropics the degrees are nearly equal to those of the equator itself. I had the greatest reason to fear I should not have time to vifit the Caroline Iflands, or those to the northward of the Marianas, in conformity to my The exploration of the Carolines must neorders. ceffarily depend, more or lefs, on the quicknefs of our run, which we had reafon to expect would be very long, our fhips being very bad failers. The geographical fituation of these islands, which are far to the westward, (or to leeward) would not, without confiderable difficulty, admit of comprehending them in the ultimate objects of my navigation to the fouthward of the line.

These various confiderations determined me to fix a new rendezvous with M. de Langle, in case of our feparation. I had before appointed the ports of Los Remedios and Nootka : it was now agreed that we should only touch at Monterey, which we preferred, because, being the most distant, we should have more wood and water to replace.

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ROUND THE WORLD.

Our misfortunes at Port des Français demanded fome changes among our officers. I therefore gave M. Darbaud, a garde de la marine, and an extremely well informed man, orders to act as enfeigne; and to M. Broudou, a young volunteer, who had continually given me proofs of intelligence and affiduity fince our departure from France, a commission of lieutenant de frégate.

I recommended to the officers and paffengers to fell our furs in China, only for the profit of the failors; and this propofal being acceded to unanimoufly and with enthufiafm, I gave M. Dufrefne an order to act as their fupercargo, a commission which he executed with a fkill and affiduity I cannot too highly extol. He had charge of the purchase, packing, afforting, and fale of the various fpecies of furs; and as I am certain there was not a fingle fkin privately difposed of, this arrangement gave us an opportunity to know with precifion their price in China, which might have varied had there been a competition of fellers. This also encreased the profit of the failors, who were thus convinced their interefts and their health never ceafed to be the principal objects of our attention.

The commencement of our new expedition was far from being fortunate or fatisfactory to my impatient expectations. We only made fix leagues in the firft 48 hours, with light airs, which during that interval varied from north to eaft, and to fouth, with foggy, cloudy weather. We were ftill three or four leagues from fhore, and within fight of low lands. We only perceived the mountains by intervals, fo as to connect our bearings, and lay down with accuracy the direction of the coaft. The latitudes and longitudes of the most remarkable points we determined by very good observations. I was extremely defirous the wind should permit me rapidly to explore this coast as far as Cape Edgecombe

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n; but it other port. ocecdings eceffity of nd at Chimploy the f Tartary, an iflands. in fcarcely distance, them; for f the monle year, or l the 15th en days to as rapidly 20° of lonetween the ofe of the ar I fhould or those to nity to my s must nenefs of our ild be very he geograe far to the hout config them in the fouth-

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or Enganno, as it had already been feen by Captain Cook, though he paffed it at a confiderable distance ; but his observations are so exact, that he could only have committed errors infinitely minute. and I was convinced, that being equally limited in point of time with that celebrated pavigator, I could not pay more attention than him to minutiæ, which must be the object of a separate expedition, and would have employed us during feveral feafons. I felt the greatest impatience to arrive in 55°, and to have a little time to devote to this furvey, as far as Nootka, from which a gale of wind had driven Capt. Cook 60 or 80 leagues. It was in this part of America, according to M. Guignes, that fome Chincfe must have landed, and it is in the same latitude that Admiral Fuentes found the mouth of the Archipelago of St. Lazarus.

I was very far from believing the conjecture of M. de Guignes, or the narrative of the Spanish admiral, whole very existence I contest; but struck with the observation I have already made, that all the islands and countries defcribed in the ancient Spanish narra, tives, though very ill determined both in latitude and longitude, have been again difcovered in these days, I was inclined to imagine fome ancient navigator of that laborious nation had discovered a bight, whole entrance might be in this part of the coaft; and that this fact alone had formed the bafis of the ridiculous romance of Fuentes and Bernarda. I had no intention however of entering this channel, fould I fall in with it. The feafon was too far advanced, and I could not have facrificed to this refearch the whole plan of my voyage, but in the hopes of arriving in the eaftern ocean, by traverfing the continent of America; and being certain fince the voyage of Hearn that this paffage is a mere chimera*, I was

• La Péroufe, too acurate himfelf to fuspect the narrative of Hearn to be a political imposition, here adopts an opinion, of which hereafter I shall maintain directly the reverse. See notes on pages 1 and 107.—Freueb Editor.

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fully refolved only to determine the breadth of the channel, and its depth as far as 25 or 30 leagues, according to the leifure I might have, leaving it to nations who, like the Spaniards, the English and the Americans, have posselfillions on that continent, to explore it more accurately, and which could be of no use to navigation in general, the fole object of our voyage.

The fog, the rain, and the calms did not ceafe till the 4th at noon, when we obferved in 57° 45' N. lat. at three leagues from land, which we only perceived indiffinctly, on account of the fog. It difperfed at four, and we clearly diffinguifhed the entrance of Crofs Sound, appearing to form two very deep bays, where it is probable thips might find very good anchorage.

It is at this found the high mountains covered with fnow terminate. Their fummits are from 13 to 1400 toifes high. The lands that form the coaft to the S. E. of Crofs Sound, though 8 or 900 toifes high, are covered with trees to the top, and the chain of primary mountains feemed to go very far into the interior of that continent. At fun-fet I had the westernmost point of Cross Sound bearing N. 25° W., diftant about five leagues: Cape Fair Weather then bore N. 50° W. and Mount Crillon N. 45° W. This mountain, which is almost as high as Mount Fair Weather, is to the northward of Crofs Sound, as Mount Fair Weather is to the northward of the bay des Français. These points serve as land-marks to the harbour they furround, and it would be very eafy to miftake the one for the other in coming from the fouthward, as their latitude did not differ 15 minutes. Mount Fair Weather is also accompanied with two lefs elevated mountains, and Mount Crillon, which is more isolated, inclines its point to the fouthward. I continued to range along the coaft at a diftance of three leagues, the mountains being confantly

ftantly covered with fog. We only perceived the low lands at intervals, and endeavoured to diftinguish the fummits, left we should break the connection of our bearings.

Our progress was very flow, advancing only 10 leagues in 24 hours. At day-break I faw a cape to the fouthward of Crofs Sound, which I called Cape Crofs*, bearing north 29° weft. We were then abreaft of an infinity of fmall low islands very thickly wooded. The high hills appeared in the fecond range. and we no longer perceived the mountains that were covered with fnow. I approached these islands near enough to fee the breakers on their coafts from the deck, and I diffinguished several channels between them, that must have formed good roads. It is this part of the coaft, Capt. Cook has called the Bay of Islands. At funfet we had the mouth of port de Los Remedios bearing E. 2º S., that of Guadaloupe Bay E. 21° S., and Cape Enganno E. 33° S. : but all these points and capes were very indiffinct, owing to the fog which enveloped their furmits.

From Crofs Sound to Cape Enganno, an extent of coaft of 25 leagues, I am perfuaded there are twenty different harbours, and that three months would fcarcely fuffice to explore this labyrinth of navigation. I confined myfelf to the plan I had formed at my departure from *Port des Français*, to afcertain with precifion the beginning and the end of this clufter of islands, with their direction along the coaft, and the entrance of the principal bays.

On the 6th the fky being clearer, we were able to take the fun's altitude, and compare the true time with that of our time-keepers. Our latitude

* Capt. Cook alfo called it Cape Crofs, but fixes its latitude in 57 deg. 57 min. This difference must arise from the outline of the coaft, which here prefents feveral capes : and Cook has doubtlefs determined the position of that, which on the chart appears most to the fouthward.—French Editor.

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was 57° 18' 40", and our longitude, according to the last rate of our time-keepers, as observed upon the *Ifle* du Cénotaphe, 138° 49' 30". I have already mentioned the great perfection of M. Berthoud's timekeepers: their loss upon the mean daily motion of the fun is fo trifling and fo uniform, that we have reason to believe, that artist has attained the greatest degree of perfection of which they are susceptible.

The 6th was a tolerably clear day, and our bearings were taken with as much facility as we could defire. At feven in the evening we ftill perceived Mount Crillon bearing N. 66° W. Mount St. Hyacinth N. 78° E. and Cape Enganno * E. 10° S. which laft is a low land covered with trees, and ftretching far out to fea. Mount St. Hyacinth refts upon it, and forms the fruftum of a cone, but rounded off at top, and is at leaft two toifes high.

On the morning of the feventh we faw the oppofite fide of Cape Enganno to that we had coafted the preceding evening. Mount St. Hyacinth was perfectly diftinguifhable, and we difcovered to the eaftward of it an extensive bay, whole depth was concealed by the fog. But it is fo open to the S. and S. E. winds, which are the most dangerous, that navigators ought to dread anchoring there[†]. Its flores are covered with trees, and of an equal height with those to the fouthward of Cross Sound. A little flow covers the fummits of the hills, which are fo pointed and fo numerous, that the smalleft change of fituation entirely alters their appearance. These hills are fome leagues within the land, and feem to be a third range of mountains. Smaller hills lie

* Mount St. Hyacinth and Cape Enganno are the Spanish names for Mount and Cape Edgecombe of Capt. Cook.—French Editor.

⁺ Dixon anchored there to trade for furs; and gave it the name of Norfolk Sound. Its lat. was 53° 3' N. and its long. 138° 16' W. from the meridian of Paris. He anchored in 8 fathoms water over a fandy bottom, at three quarters of a mile from 'the fhore. Cook perceived the mouth of this creek on the fecond of May 1778, but did not anchor there.—French Editor.

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against their fides, and are connected with a low and undulating bafe, extending as far as the fea. Iflands. refembling those already described, lie before this undulating fhore; but in the chart we have only laid down with precifion the most remarkable: the others are fcattered about, merely to fnew they are extremely numerous; for to the northward and fouthward of Cape Enganno the coaft is bordered with islands for the space of 10 leagues. We had passed all these by ten in the morning, when the small hills appeared clear of them, fo that we could diffinguish the windings of the fhore. At fix in the evening we faw to the N. E., a cape that firetched far out to the westward, forming with Cape Enganno the S. E. point of the great bight, a third of which I have already defcribed to be crowded with, fmall iflands, From the extremity of these islands to the new cape we faw two large bays , which appeared to ftretch very far in land. To this cape I gave the name of Cape T[chirikow, in honour of the celebrated Ruffian navigator, who landed on this part of America in 1741. Behind it we found to the eastward a large bay which I also named Tschirikow bay. At feven in the evening I faw a clufter of five islands +, feparated from the continent by a channel four or five leagues wide, which neither Capt. Cook nor the pilot Mau-

* Thefe two bays, which La Péroufe named Por. Necker, and Port Guibert, are fo near together, that it is impossible to afcertain in which of them Dixon anchored. But that navigator having failed along the fhore, to the right and left of his anchoring place, which he called Port Banks, only found bays much finaller than that he entered, and those totally uninhabited.

The latitude of Port Banks is 56° 35', its W. long. from Paris 137º 20' .- French Editor.

+ Dixon has diftinguished these five islands by the name of Foggy Mands. La Pérouse has placed them in 55° 50' N. lat. and 137° 11' W. long. Dixon in 55° 50' N. lat. and 137° o' 45", reduced to the meridian of Paris. I deem it unnecessary to detail the reasons, why the place affigned them by La Péroufe ought on every account to be preferred .- French Editor.

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name of Foggy t. and 137° 11' reduced to the e reafons, why account to be

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rello have noticed. I named them Illes de la Croyère, from the celebrated French Geographer, Delifie de la Croyère, who accompanied Capt. Tichirikow, and who died during that voyage. As night, was coming on I fhaped a courfe to pais outfide of them. The wefterly breeze continued in our favour throughout the eighth, when, by obfervation, we were in 55° 30' 31" N. lat. and 137° 5' 23" W. long. according to our time-keepers. We perceived feveral great openings between confiderable iflands, which prefented themfelves to us in various points of view, the continent being fo far from us, that we no longer perceived it. This new Archipelago, which is very different from the preceding, commences four leagues to the S. E. of Cape Tichirikow, and apparently extends as far as Cape Hector. The currents in the vicinity of these islands were very strong, and we felt their influence, though at a diftance of three leagues. Port Bucarelli of the Spanish pilot Maurello is in this part. I could not understand either his chart or the difcourfe intended to elucidate it : but his volcanos, and his Port Bucarelli are fituated in iflands 40 leagues perhaps from the continent. I confess I should not be much furprifed, if from Crofs Sound we had only coafted along iflands *: for the appearance of the coaft was very different from that further to the northward, and I faw the high chain of Mount Crillon extending tothe eaftward as far as I could diffinguish.

On the morning of the ninth, continuing to fail along the coaft at a diftance of three leagues, I faw the ifles of San Carlos, the principal of which lies S. E.

* Dixon is of the fame opinion, which appears to be confirmed by every probability,—" fo that we were near the middle of the "ifland towards the northward and eaftward. In this fituation we "faw high land to the N. W. near 30 leagues diffant, and which "evidently was the fame we had feen on the first of July. This cir-"cumftance clearly proved the land we had been coasting along. "for near a month, to be a group of islands." Dixon's Voyage, p. 217.—French Edutor.

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and N. W., and may be two leagues in circumfer-A long chain connects it with other little ence. iflands, which are very low, and firetch far out into the channel. I am perfuaded however, there is a channel of confiderable width *, though I was not fufficiently certain to attempt it, particularly, as I must have entered it before the wind, and in cafe my conjecture was ill founded, it would have been extremely difficult to have weathered the iflands of San Carlos, while I fhould lofe that time which was extremely precious. I therefore ranged along that fartheft from the continent, at the diftance of half a league. and as I had its S. E. point bearing E. and W. at the fame diffance at noon, we afcertained its place with the greatest precision, being 54° 48' N. lat. and 136° 19' W. long.

Having now a firong breeze from the W. N. W. with foggy weather, I food in under a crowd of fail for the land, which became covered with fog as we approached. At half paft feven in the evening we were fearcely a league diftant, and yet I could with difficulty diffinguifhit, though I perceived the breakers from the deck. I had then a large cape bearing E. N. E. by the compafs; but feeing nothing beyond it, we could not poffibly determine the direction of this land. I therefore refolved to put about, and wait for clearer weather. The fog, however, never difperfed but for a fingle moment.

On the 10th of August towards noon, we were in 54° 20' N. lat. by observation, and 135° 20' 45'' W. long. by our time-keepers. I had firetched in for the land at four in the morning, and perceived it during this clear interval at a league and half distance to the S. E.; when it resembled an island. But the gleam was fo transient, and fo limited in extent, that it was

† This channel feems to be real. Dixon alfo faw it, and made use of it to delineate; though partly by guess, the firait to which he has given his own name, -- French Editor.

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impoffible to diffinguifh any thing. We had not even fufpected land in that point of the compafs; which increased our uncertainty concerning the direction of the coaft. We had in the night croffed the most rapid currents I had ever experienced in the open sea; but as we found no difference between our observations and reckoning, it is probable they were occasioned by the tide, and therefore counteracted each other.

In the night between the 10th and 11th, the weather became very bad: the fog thickened, it was very fresh, and I tacked to the offing. At daybreak we flood in again for the land, and got fo close in shore as to recognize, at one o'clock, the fame point we had feen the preceding evening, extending from N. N. E. to S. E. by S.; and thereby connected almost all our bearings, except an interval of 8 or 9 leagues, where we did not fee land; whether owing to the fog, or fome deep bay or other opening : but I should rather suppose the latter, from the violence the currents. Had the atmosphere been clearer, no doubt would have been left on this fubject, for we got within a league of the thore, and diffinctly perceived the breakers. The coaft trends much more to the S. E. than I fhould have imagined from the chart of the Spanish pilot, which cannot be at all relied on. We observed at noon in 54° 9' 26" N. lat. and I continued to range the coaft, at a league diftance, till four in the afternoon, when the fog was fo thick, that we could not diffinguish the Astrolabe, though within hail. I therefore flood out to the fea. We had no clear interval on the 12th, and I got ten leagues from the land in confequence of my uncertainty respecting its direction. On the 13th and 14th the weather was foggy and almost calm; but I took advantage of fome light breezes, to near the coaft, from which we were still five leagues diftant at fix in the evening.

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Since we paffed the islands of San Carlos we could not firike ground, even at a league from the land, with a line of 120 fathoms.

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On the morning of the 15th we got within two leagues of the coaft, which in fome parts was fkirted by breakers, extending a confiderable diffance towards the offing. The wind was eafterly, and we faw a fpacious bay. Our horizon was very extensive, tho' the fky was overcaft, and we diffinguifhed 18 or 20 leagues of coaft on each fide, extending from N. N. E. to S. S. W. and feeming to run S. S. E. and N. N. W. much more to the fouthward than I had imagined.

At cight in the morning I was obliged to fland out to fea, on account of a thick fog that enveloped us, and which continued till the 16th at ten o'clock. when we had a very confused view to the N.E. but the fog foon obliged us to regain the offing. The whole of the 17th was calm, the mift at length difperfed, and I faw the coaft at eight leagues diffance. Though there was not wind enough to near it, we took excellent lunar observations, for the first time fince our departure from Port des Français. Our latitude was 53° 12' 40" north, and longitude, by our time-keepers 136° 52' 57", and the mean refult of the diftances of the fun and moon gave 137° 27' 58" or 35' 1" more to the westward : and that of the Aftrolabe 15 minutes lefs. The breeze having freshened from the W. N. W., and the weather continuing clear, I approached the land, and on the 18th at noon was only a league and a half diffant. Preferving that diftance, I ranged along the coaft, and faw a bay firstching fo far in land, that I could not perceive its shores. I called it La Touche Bay. Its N. lat. is 52° 30', and its long. 134° 40' weft, and I doubt not it affords very good anchorage.

A league and a half further to the eaftward, we faw a bight, where fhips might poffibly find a fhelter equally red,

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ard, we faw d a fhelter equally

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equally fecure; but it appeared much inferior to La Touche Bay. From 55 to 53° the fea was covered with the fpecies of diver, called by Buffon macareux de Kamtfchatka. Its body is black, its beak and feet red, and two white ftreaks rife like a tuft upon its head, fimilar to thofe of the catakoua. We faw fome of thefe birds to the fouthward, but more rarely, and thofe appeared mere birds of paffage. Thefe birds never go above five or fix leagues out to fea, and therefore, when navigators meet with them in foggy weather, they may almost certainly infer the vicinity of land. We killed two, which were ftuffed. This bird was unknown previous to the voyage of Behring.*

On the 19th at night we faw a cape, apparently terminating the coaft of America. The horizon was very clear, and we only perceived four or five fmall islands near it, which I named Islots Kerouart, and the point Cape Hector.+ We were becalmed during the whole night at three or four leagues from the land, which a light breeze enabled me to approach at daybreak. I was then convinced the coaft we had followed for 200 leagues terminated here, forming in all probability the entrance of a very extensive gulf, or channel, for I perceived no land to the caftward, though the weather was very clear. I therefore directed my courfe to the northward to different the opposite fide of the land I had coasted to the eastward. I ranged along the Kerouart Iflands and Cape Hector, at a league diftance, and croffed fome very ftrong currents, which even obliged me to bear away and fland off from the coaft. The polition of Cape Hector, which forms the entrance of this new channel, ap-

* Capt. Cook alfo met with this species on the coast of Alaska. French Editor.

† This is the Cape St. James of Dixon, of which the north latitude is according to La Péroufe 51 deg. 57 min. 20 fec. W. long. 133 deg. 37 min.; according to Dixon N. lat. 51 deg. 46 min. W. long. reduced to the meridian of Paris 132 deg. 20 min.—Fr. Editor.

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peared to me very important to determine. Its N. lat. is 51° 57' 20" and its W. long. by our time-keepers 133° 37'. Night coming on, prevented my getting further to the northward, and I therefore fpent it in making fhort boards. At day-break I fteered the fame courfe as the preceding evening, and the weather being clear, faw the oppofite coaft of La Touche Bay, which I named Cape Buache; and above 20 leagues of the east coast, along which I had ranged on the preceding days. Recollecting the outline of the land from Crofs Sound, I was much inclined to think this bight refembled the fea of California, and extended to the 57th degree of N. lat. : but neither the feafon, nor my other objects admitted of my determining this point. I refolved, however, to afcertain the breadth east and weft of this channel, or gulph, whichever it be called, fhaping my course to the N.E. On the 21st at noon, I was by obfervation in 52° 1' N. lat. and 133° 7' 31" W. long, Cape Hector bearing S. E. diftant 10 or 12 leagues; but we could not ftrike ground without our longeft line: The wind foon fhifted to the S. E. and a thick fog fucceeded the clear fky, which had that morning permitted us to difcover land 18 or 20 leagues diftant. It now blew very ftrong, and it became imprudent longer to continue my course to the N. N. E. I therefore hauled close to the wind, and flood off and on during the night, under clofe-reefed topfails. At day-break the wind having moderated, though the horizon was equally hazy, I flood in again for the land, which appeared at noon through the fog, our latitude by account being then 52° 22': the coaft extended from N. by E. to E. by N. our depth of water being 100 fathoms over a rocky bottom. After a clear interval of fhort duration the fog returned, and bad weather appeared to be coming on. I therefore flood out to the offing, after having fortunately taken very good bearings, and afcertained the width of the channel, or gulph, from east to west; which was about 30 leagues between

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between Cape Hector and Cape Fleurieu *, giving itthe fame name as to the ifland lying moft to the S. E. of the new clufter I had discovered on the eastern coaft of this channel. It was behind this clufter of iflands I perceived the continent, where the primary mountains, deflitute of trees, and covered with fnow, appeared at various diffances, and having peaks which appeared to be above 30 leagues inland. Yet we had only feen little hills fince we paffed Crofs Sound, and my conjectures concerning a bight of fix or feven degrees to the northward became fill more probable. The feafon precluded my further ducidating this opinion, it being already the end of August, the fogs almost uninterrupted, and the days shortened. But a much more important confideration, the danger of miffing the monfoon of China, induced me to abandon this refearch, to which we must have facrificed at leaft fix weeks, on account of the precautions neceffary in this kind of navigation, which ought only to be undertaken in the longest and finest days of the year. A whole feafon would fcarcely fuffice for fuch an expedition, which ought to be the object of a feparate voyage. Ours was infinitely more comprehenfive; and therefore its defign was accomplished by an exact determination of the width of the channel, which we ran up about 30 leagues to the northward. We alfo afcertained the latitudes and longitudes of the Capes, which form its entrance, with a precision entitled to equal confidence with those of the most remarkable capes of the coafts of Europe. I perceived with chagrin, that during 23 days fince we departed from Baie des Français, we had made very little way; and we had not a moment to lote before our arrival at Monterey. The reader will eafily perceive, that during

* Dixon calls it Cape Cos. Its N. lat. according to La Péroufe, is 51 deg. 45 min. W. long. 131 deg. 15 min. according to Dixon, N. lat. 51 deg. 30 min. W. long. from Paris 130 deg. 32 min.— French Editor.

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the whole courfe of this expedition, my imagination and ideas were extended 2 or 3000 leagues from my fhip, becaufe my courfe lay through the region of the monfoons, or was fubject to the influence of feafons, in all the parts of either hemifphere we were defined to explore: being obliged to navigate in high latitudes, and to traverfe between, New Holland and New Guinea, ftraits apparently fubject to the fame monfoons, as those of the Moluccas or the iflands of that fea.

The fog was very thick during the night, and I fteered S. S. W. At day-break we had an interval of very clear weather, which, however, was of fhort duration. At 11 o'clock the atmosphere became quite clear. We then had Cape Fleurieu bearing N. E. by N., and took excellent observations. Our N. lat. was 51° 47′ 54″, and our W. long. 132° O' 50″ by our time-keepers. We were becalmed the whole day, but the wind changed to the N. W. after fun-fet, with a very hazy horizon, before which I had fet Cape Fleurieu bearing N. by E., its latitude and longitude as determined by M. Dagelet being 51° 45′, and 131° O' 15″.

I have already faid this Cape forms the point of a very high ifland, behind which I then no longer perceived the continent. It was concealed by the fog, which became fill thicker during the night : and I often loft fight even of the Aftrolabe, though within hearing of her bell.

At day-break the fky was clear, and Cape Fleurieu bore N. W. 18° W. diftant 18 leagues. The continent extended to the caftward, and the horizon, though rather hazy, admitted of my perceiving it at a diftance of 20 leagues. I flood to the caftward in order to approach it, but the coaft was prefently obfeured again, though a clear fpace to the S.S. E. allowed me to difcover a cape in that point of the compafs. I now changed my courfe, to avoid being embayed,

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e Fleurieu The cone horizon, eiving it at eaftward in efently obb. E. allowic compafs. g embayed, by 1786.

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by running to the eastward, before the wind, to a gulph from which I should find it difficult to get out. But I foon perceived this land to the S.S. E., towards which I was ficering, confifted of feveral clufters of islands, extending from the continent to the islands in the offing, and on which I did not perceive a fingle fhrub. I paffed within a mile of them, and faw grafs and drift wood upon the fhore. The latitude and longitude of the westernmost of them was 50° 56', and 131º 38'. I named these various clusters, Iftes Sartine.* Probably a paffage might be found between them; but it would be imprudent to attempt it without much precaution. After weathering them, I ftood in for the continent, tteering E. S. E. It extended from N. N. E. to S. E. by E., and the horizon was fomewhat hazy, though confiderably extensive : and if we could not perceive the fummits of the mountains, we perfectly diftinguished the low lands.

I flood off and on all night, to avoid paffing the woody point of Captain Cook, which that navigator laid down, forming a continuation of the coaft from Mount St. Elias to Nootka, and which, by affording me an opportunity of comparing our longitudes with his, banifhed every doubt that might have remained concerning the accuracy of our observations. At daybreak I flood in for the land, and paffed at the diftance of a league and half of the woody point, which, at noon, bore N. by W., diftant about three leagues. Its lat. is precifely 50° 4' N., and its long. 130° 25'. W. Captain Cook, who did not approach fo near this point, and only determined its place by bearings, lays it down in his chart in 50°, and 130° 204 (meridian of Paris) that is four miles more to the fouthward, and five miles more to the eastward. But our observations deserve more confidence, because

* The islands of Beresford of Captain Dixon, who lays them down in 50 deg, 52 min. N. lat., and 132 deg. 3 min. W. long. from the meridian of Paris.—French Editor.

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we were much nearer to the land, and our reckoning was lefs fubject to error with regard to the diffance. I may here be allowed to remark the aftonifhing precifion of the new method, which will, in lefs than a century, afcertain the true place of every fpot of the earth, and contribute more to the advancement of geography, than the united labours of every preceding age.

On the 25th I continued to run to the eaftward towards the entrance of Nootka, which I was defirous to make before night, although it could not be very important, after having precifely determined the pofition of the woody point. A very thick fog, which arofe at five in the evening, entirely concealed the land, and I directed my courfe towards Breaker's Point, 15 leagues to the fouthward of Nootka, in order to furvey the coaft between Cape Flattery and that point, a fpace of about 30 leagues, which Capt. Cook had no opportunity to explore.

On the 26th the weather was very foggy, and the wind fhifted between N. E. and S. E. by fudden iqualls: the barometer fell, but there was no wind. Thus we were becalmed, and had not age-way till the 28th. I had taken advantage, however, of fome, light breezes to get off the coaft, which I imagined to trend to the S. E. We were now furrounded by fmall land birds, that refted on our rigging, and feveral of which we took ; but their fpecies are to common in Europe, as not to merit defcription. At length on the 28th, at five in the evening, we had a clear interval, when we recognized and fet Cook's Breaker's Point, which bore north, the land firetching from thence to the N. E., and, although the clear interval was of fhort duration, it afforded us an opportunity of taking good bearings.

The atmosphore was equally obscure on the 20th of August; but the barometer rose, and I stood in for the land, hoping for clear weather before night, and 1780 and fath fint fell mou in en leag rour tion lar t

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and founding every half hour. We paffed from 70 fathoms water, with a fandy bottom, to one of round flints and 40 fathoms; and ftanding on, after a league fell again into 75 fathoms water, with a bottom of muddy fand. It was evident we had paffed over a bank, though it is not very eafy to explain, how a mountain of round flints 150 feet high, and a league in extent, fhould be placed on a flat bed of fand eight leagues in the offing. We know these flints become round only by continual friction, and this accumulation at the bottom of the sea, supposes a current finilar to that of a river.

At length my hopes of the fog differing at fun-fet were realized, and we took a furvey of the land from E. N. E. to N. W. by N., a furvey which exactly united with that of the preceding evening. We were at noon in 48° 37', by obfervation, and our longitude 128° 21' 42" by our time-keepers. The laft point we had feen bearing S. E. could not be above tix or feven leagues from Cape Flattery, which I was very defirous to make, had not the fog been too thick.

On the 30th the fea became very heavy, and the wind variable between S. and S. W., when I flood out to fea. Having an horizon of lefs than half a league, I freered a courfe parallel to the coaft, in order fpeedily to arrive in 47°, and explore it as far as 45°, that interval forming a hiatus in Captain Cook's chart.

On the 1ft September, I got fight, at noon, of a point or cape, bearing N. N. E. diftant about 10 leagues, and precifely in 47° by our bearings. The coaft trended to the eafward, and I approached within three or four leagues of it: but its outline was indiftinent, and all its windings obfeured in fog. Our lat. obferved at noon, was 40° 36′ 21″ N., our long. 127° 2′ 5″ W. by our time-keepers, and 126° 33′ by lunar obfervations. The currents on this coaft are uncommonly violent. We were in a vortex that did not. permit

permit the fhip to fleer, though with a wind that would have carried us three miles an hour, and at a distance of five leagues from land.

I ranged along the coaft during the night under eafy fail, and feering to the fouthward. At daybreak I flood to the eaftward, to near the land; but we were becalmed at four leagues from the fhore, and toffed about by the currents, which made us put about every moment, and kept us in continual fear of running foul of the Aftrolabe, who was in no better fituation. Fortunately we had a good muddy bottom to anchor upon, had the currents fet us in fhore; but the fea was very heavy, and our cables would, with difficulty, have refifted the pitching of the fhip. Cape Redondo of the Spaniards bore E. 5° S, and the land firetched from thence to the S. Our latitude at noon was 45° 55' N., and our longitude 126° 47' 35" W. by our time-keepers, and 126° 22' by lunar observations. The weather had at last admitted of these observations the preceding evening, which was but the fecond opportunity fince our departure from Port des Français. They differed from our time-keepers only 25' 35". This calm day was one of the most uneasy we had passed fince our departure from France. We had not a breath of wind during the night, but founded every half hour, in order to drop anchor, notwithstanding the heavy fea, in cafe we were drifted towards the fland; but we always found 80 fathoms water over a muddy bottom.

At day-break we were at the fame diffance from the fhore as the preceding evening, and we obferved, as on the day before, in 45° 55'; our bearings were nearly the fame, and being driven to and fro by currents, which counteracted each other, we feemed to have been turning, as it were, upon a pivot, during 24 hours.

At length, at three o'clock, a light breeze fprung up from the N. N. W. by the aid of which we were able

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able to gain an offing, and get out of the currents, in which we had been engaged during two days. This breeze carried before it a body of mift, in which we were enveloped, and which made us lofe fight of the land. We had now fearcely more than five or fix leagues of coaft to plow as far as lat. 45°, where Captain Cook's observations recommenced. The weather was too favourable, and I was too much prefied for time, not to take advantage of this fair wind. We therefore crouded fail, and fleered S. by E. almost parallel to the coaft, which lay N. and S. The night was fine, and at day-break we faw land bearing N. by E. the fky being clear in that quarter, though very foggy to the eaftward. We faw the coaft, however, to the E. N. E. and as far as E. S. E. at times, though only for a moment. At noon, our latitude, by observation, was 44° 41' N., and our longitude 126° 56' 17" W: by our time-keepers, at about eight leagues from the coaft, which we approached by fleering a little more to the eaftward. At fix in the evening our diftance off thore was four leagues, and the land extended from N. E. to E. S. E. and was very much covered by fog. The night was fine, and I ranged along the coaft, which we diffinguished by moon-The fog obscured it at fun-rife, but it emerglight. ed at noon, during a clear interval, extending from N. E. to S. by E. the depth of water being 75 fathoms."

Our latitude was 42° 58′ 56″, and our longitude, by the time-keepers, 127° 5′ 20″. At two o'clock we were a breaft of nine fmall iflands, or rocks, lying about a league off *Cape Blanco*, which bore N. E. by E. : I named them *Necker Iflands*. I continued to range along the land, fteering S. S. E. At three or four leagues diffance we only perceived the fummits of mountains above the clouds, covered with trees, and without fnow. At night the land ftretched as far as the S. E. but our people 'ooking out at the maft-head declared they faw it as far as the S. by E. Uncertain of the direction of this coaft, which had never

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never been explored, I made eafy fail, fteering S. S. E. At day-break we ftill perceived the land, extending from the N, to N. by E. I fleered S. E. by E. to approach it, but at feven in the morning a thick for critically concealed it. We found the atmosphere lefs pure in this part of America than in high latitudes, where navigators enjoy, at least by intervals, a view of every thing that is above their horizon, whereas here the windings of the land did not become once diffinctly visible. On the 7th the fog became fill thicker than the preceding day; yet it cleared away towards noon, when we faw fummits of mountains to the eaftward, at a confiderable diftance. As we had made good a fouth courfe, it is evident that from 42° the coaft begins to fly off to the eaftward. Our lat. was at noon, by observation, 40° [48' 30" N. and our long. 1269 50' 45" W. by the time-keepers; and I continued to ftand in for the land, from which I was only four leagues diftant at the clofe of day. We then perceived a volcano, at the top of a mountain bearing E. the flame of which was very bright; but a thick fog foon entirely concealed this object, and we were again obliged to firetch off from the land. As I feared, that by fleering parallel to the coaft, we might fall in with fome ifland or rock, lying at a diftance from the continent, I ftood out to fea, for the fog was very thick. On the 8th, towards 10 o'clock in the morning, we had a clear interval, when we perceived the fummit of the mountains, but an impenetrable barrier of fog concealed the low-lands from our view. The weather had now become very bad, it blew very fresh, and the barometer fell confiderably. I therefore continued running to the S. E. till the clofe of the day; a courfe which, by keeping along the coaft, would bring us nearer to it, but we had loft fight of it fince noon, and the horizon was fo thick at dufk, that I might have been very near the fhore without being able to diffinguish it. As there' was an appearance of a gale of wind, and fhould it coine

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1786. 101 come from the W. I fhould be embayed, I refolved to ftand off under the fore-fail and main-top-fail. It foon blew hard, but not equal to what I expected. At daybreak the fky was clouded, but the wind moderated, and I flood in to the eaftward for the land. The fog foon obliged me to change my courfe, and fieer nearly parallel to the coaft, which I supposed to lie S. by E. The atmosphere was no clearer on the 10th and 11th, and the refult of our courses these two days was alfo S. by E.; our horizon never extending to two leagues, and being very often lefs than a mufketthot. Our latitude however was 36° 58' 43" by obfervation, and our longitude, by the time-keepers, 126° 32' 5". Either the currents or a bad reckoning had carried us 30 miles to the fouthward, but we were still 16 miles to the northward of Monterey. I fleered E. flanding right in for the land; for though the atmosphere was foggy, we had an horizon' of two leagues. I flood off and on throughout the night, and the fky was equally cloudy the next day, but I continued flanding in for the fhore. At noon our longitude was 124° 52', but I did not fee land. The fog returned at four in the afternoon, and I determined to make thort boards, till the weather became clearer. We must then have been very near the coaft, as feveral land-birds hovered around our fhips, and we took a gyrfalcon. The fog continued throughout the night, and at 10 the next morning we perceived the land very much covered with fog, and very near us. It was impoffible however to diftinguifh it, though I approached within a league, and faw the breakers very diffinctly, being in 25 fathoms water; but though I was certain we were then in the bay of Monterey, it was impoffible to difcover the Spanish fettlement in such foggy weather. At dusk I again flood out to fca, and the next day fleered in for the land with a thick fog, which did not difappear till noon. I then kept the coaft clofe aboard, and

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and at three in the afternoon we got fight of the fort of Monterey, and two three mafted fhips in the road. The contrary winds obliged us to anchor two leagues from the land, in 45 fathoms, over a muddy bottom; and the next day we dropped anchor two cables length off fhore, in 12 fathoms water. The commandant of these two fhips, Don Estevan Martinez, fent us pilots on board during the night, having been apprized of our expected arrival in this bay by the Viceroy of Mexico and the Governor of the Presidio.

It is remarkable, that during this long run, though conftantly enveloped in the thickeft fogs, the Aftrolable was always within hail, till I gave her orders to reconnoitre the entrance of Monterey.

Before I conclude this chapter, which will only be interesting to geographers and navigators, I think it neceffary to declare my opinion on Admiral Fuentes's channel of St. Lazarus. I am convinced no fuch Admiral ever existed *, and that a navigation in the interior of America, across lakes and rivers, performed in fo thort a fpace of time, is to abfurd, that nothing but that love of fyftcm, fo prejudicial to every feience, would have prevented geograpers of a certain reputation from rejecting this hiftory : a hiftory, totally deflitute of probability, and fabricated in England, at a time when the partizans and oppofers of the N. W. paffage fupported this opinion, with as much enthusiasim, as could at that time have fired the public mind in France, on questions of theology The legend of ftill more ridiculous and futile. Admiral Fuentes refembles those pious frauds, which found reafon has fince rejected with contempt, and which cannot bear the light of investigation. But it may be confidered almost certain that from Crofs Sound, or at least from Port de Los Remedios to Cape Hector, all the navigators have only coaft-

* See note on page 107.

ed the thefe a east an think i at its n tor. 1 render that be munica medios great c form of ment to this par For it is that co lutely c at Port the rive met wit I was de current ftem it. the wat out at f tween th ther to graphers to the N river in north ar imaginat facts, is on the co of this c haps nav the decl the eastw

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ed the iflands fituated in 52°, and that between these and the continent is a channel; whose breadth eaft and weft may be confiderable, though I do not think it can exceed 50 leagues, as it is reduced to 30 at its mouth, between Cape Fleurieu, and Cape Hec-This channel is probably full of iflands, which tor. render its navigation difficult; and I am perfuaded, that between these islands are many pattages communicating with the great ocean. Port de los Remedios, and Port Bucarelli of the Spaniards, are at a great diffance from the continent, and were not the form of taking poffeffion without eftablishing a fettlement too ridiculous to found a title, that of Spain to this part of the continent might be justly contested. For it is demonstrated, that Maurello did not even fee that continent from 50° to 57° 20': and I am abfolutely certain, that to the northward of Crofs Sound, at Port des Français, we were in America itself; because the river of Behring in 59° 9' is too confiderable to be met with in any land that is not of an immense depth. I was defirous to reconnoitre it by our boats, but the current was fo rapid at its mouth, they could not ftem it. Our fhips anchored at its entrance, and the water was white and fresh three or four leagues out at fear Thus it is probable, that the channel between the iflands and the continent does not run further to the northward than 57° 30'. I know, geographers may, with a ftroke of their pen, draw a line to the N. E., leaving Port des Français and Behring river in America, and extend their channel to the north and to the east, to the utmost boundary of their imagination : but fuch a proceeding, unfupported by facts, is a mere abfurdity, and it is very probable, that on the coaft of America, which forms the eaftern fhore of this channel, the mouth of fome other river, perhaps navigable, may be found, as it is hardly poffible the declivity of the land fhould direct them all to the eaftward. Behring river would itfelf form an ex-VOL. I. ception

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ception to that rule. Nor is it probable, there fhould even be a bar at the mouth of these supposed rivers, because this channel, which is not very wide, is sheltered by the islands opposite to it to the westward : whereas bars are known to be formed by the reaction of the sea on the currents of rivers *.

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* This chapter, fo interefting, to navigation on the great fcale, ftill leaves fomething to be done for the fatisfaction of feamen, and geographers, particularly the partizans of a northern paffage. Though myfelf of that opinion, I cannot but obferve, that had La Péroufe determined to reconnoitre all the bays, and all the great openings, which that immenfe extent of coaft, interfperfed with iflands, prefents, he muft have abandoned all the ulterior objects of his voyage, and have directly difobered his inftructions.

The honour of completing the description of the habitable parts of the globe, will belong to the 19th century. The important question of a communication of the two feas to the northward of America, will then be decided. Let us referve a place then in the tablet of fame, for the immortal name of the enterprising navigator, who shall discover that communication.

To accelerate this period, let us remove every different ing incertitude, and let us add a few words to what we have already faid, in the notes of page 1, 107, and 172.

The fhip Padre Eterno, commanded by the Portuguese Capt. David Melguer, departed from Jonan in 1660, and ran to the northward, nearly to the 84th degree of lat.; from whence he steered between Spitzbergen and Greenland, and passing to the westward of Scotland and Ireland, returned to Oporto.

The Dutch Capt. Vannout, even pretends to have actually got into the South Sea by Hudson's Straits.

I would also request those, who attend to this question, to read the collection of observations on the probability of a N. W. paffage, inferted in Capt. J. Mearer's Voyages.—French Editor.

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CHAP. Xİ.

DESCRIPTION OF MONTEREY BAY-HISTORICAL AC-COUNT OF THE TWO CALIFORNIAS, AND THE MIS-- SIONS THERE-MANNERS AND CUSTOMS OF THE CONVERTED, AND OF THE INDEPENDENT INDIANS -GRAIN, FRUIT, AND LEGUMINOUS PLANTS OF EVERY KIND-QUADRUPEDS, BIRDS, FISH, SHELLS, ETC .- MILITARY CONSTITUTION OF THESE TWO PROVINCES-PARTICULARS RELATIVE TO COM-MERCE, ETC.

THE bay of Monterey, formed by New Year's Day Point to the northward, and Cyprefs Point to the fouthward, is eight leagues across at its entrance in that direction, and nearly fix in depth to the eastward, where the lands are low and fandy. The fea rolls in to the very foot of the downs of fand, with which the coaft is skirted, with a noise which we heard at above a league distance. The lands to the northward and fouthward of this bay are elevated, and covered with trees. Ships intending to put in here, must keep the fouth shore aboard, and after doubling Fir Point, which ftretches out to the northward, they will fee the Prefidio, and may drop anchor in ten fathoms water within, and behind this point, which fhelters them from the fea breezes. The Spanish thips that intend making a long flay at Montercy, are accustomed to approach within one or two cable's length of the fhore, in fix fathoms water, where they moor to an anchor which they bury in the fand of the beach. They are then sheltered from the south winds, which are fometimes very ftrong, though not dangerous, as they blow off fhore. We got foundings all over the bay, and anchored four leagues from the land in 60 fathoms water, over a bottom of foft mud.

But the fea is very heavy there, and fhips can mud. only remain a few hours at fuch an anchorage, while waiting for day light, or the clearing of a fog. At the full and change of the moon it is high water at half paft one, and the tide rifes feven feet; as the bay is very open, its drift is almost imperceptible : I never knew it more than half a knot an hour. I cannot defcribe the number or familiarity of the whales that furrounded us. They were continually blowing at the diftance of half a piftol fhot, and occafioned a very difagreeable fmell in the air. This was an effect unknown to us, but the inhabitants informed us the water blown by whales always had that quality, which fpread to a confiderable diftance. But it would doubtlefs have been no new phenomenon to the fifthermen of Greenland, or Nantucket.

The coafts of Monterey Bay are covered by almost eternal fogs, which render it difficult of approach, though in other respects there fearcely exists a bay more easily entered; for there is no funken rock a cable's length from the beach, and if the fog is too thick, there is anchorage every where, till a clear interval expose diffinctly to view the Spanish fettlement, fituated in the angles formed by the southern and eastern shores.

The fea is covered with pelicans, but it appears thefe birds never go above five or fix leagues from land; fo that navigators who perceive them during a fog, will be certain they are within that diftance. We faw them for the first time in this bay, and I have fince learned, that they are very common on all the coast of California. They are called by the Spaniards Alcatras.

A lieutenant colonel, who refides at Monterey, is governor of both the Californias. Though his government is 800 leagues in circumference, his real command extends but to 282 foldiers of cavalry, who garrifon five finall forts, and furnish detachments of four

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four or five men to each of the 25 miffions, or parifhes, into which Old and New California are divided. Thefe little guards fuffice to keep in fubjection about 50,000 wandering Indians *, fpread over this vaft extent of the American continent, and of whom, near 10,000 have embraced Christianity. These Indians are generally fmall and feeble, and afford no proofs of that love of independence and liberty, which characterifes the northern nations, to whole arts and industry they are strangers. Their complexion very nearly refembles those negroes whose hair is not woolly : that of this nation is long, and very ftrong, and they cut it four or five inches from the roots. Several of them have beards, while others, according to the Miffionaries, never had any; though it is an undecided point in the country itfelf +. The governor, who had travelled much in the interior, and had lived with the favages during 15 years, affured us, those who had no beard, had extracted it with bivalve shells. used as pincers. But the prefident of the missions, who had refided in California an equal length of time. maintained the contrary. Thus travellers are wholly unable to form a decifion, and as we cannot affert what we have not witnefied, we must acknowledge we only faw beards on one half of the number of adults : fome of them having it fo thick, as to have made a respectable figure, even in Turkey, or the environs of Molcow ‡.

These Indians are very adroit in the use of the bow, and killed the smallest birds in our presence. It is true,

* They change their relidence very often, according to the fifting and hunting scalon.

+ We have given our opinion regarding the beards of the Americans in the preceding chapter. But writing as we proceed on our voyage, and as we adopt no fystem, when we learn a new fact we relate it without hefitation.

t The governor had travelled much more than the miffionary, and his opinion would have carried most weight, were I to decide the question.

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their patience in getting near their prey is inconceivable. They conceal themfelves while creeping up to it, and rarely pull the bow, till within fifteen paces.

Their industry in hunting is ftill more furprifing. We faw one of them crawling on all fours, with a ftag's head fixed on his own, as if he were broufing the grafs; and performing his part fo well, that all our hunters would have fired at him at a diffance of 30 paces, had they not been apprifed of that manœuvre. Thus they approach a herd of ftags within reach, and kill them with their arrows.

Loretto is the only prefidio of old California on the eaftern coaft of that peninfula. Its garrifon confifts of 54 cavalry men, and furnishes detachments to the 15 following miffions, of which the functions are performed by the Dominican monks, who have fucceeded the Jefuits and Franciscans. These last, however, remain in undisturbed possession of the ten missions of New California. The 15 miffions of the department of Loretto, are San Vicente, S. Domingo, El Rofario, S. Fernandez, S. Francesco de Borgia, S. Gertrude, S. Ignacio, La Guadalupe, Santa Rofalia, La Conception, S. Jofef, S. Francesco Xavier, Loretto, S. Josef de Cabo Lucar, and Todos los Santos. About 400 Indian converts, collected round these 15 parishes, are the only fruit of the long apostlefhip of the various religious orders, who have fucceffively undertaken this painful duty. In the hiftory of California by father Venegas, we may read an account of the effablishment of the fortress of Loretto, and the various miffions it protects, whereby, comparing their past condition with that of the prefent year, it is evident their progress is very flow. As yet there is only one Spanish village. It is true, the climate is unhealthy, and the province of Sonora, which forms the boundary of the Mar-Vermejo, or Red-Sea, to the eaftward, and California to the weftward, is much

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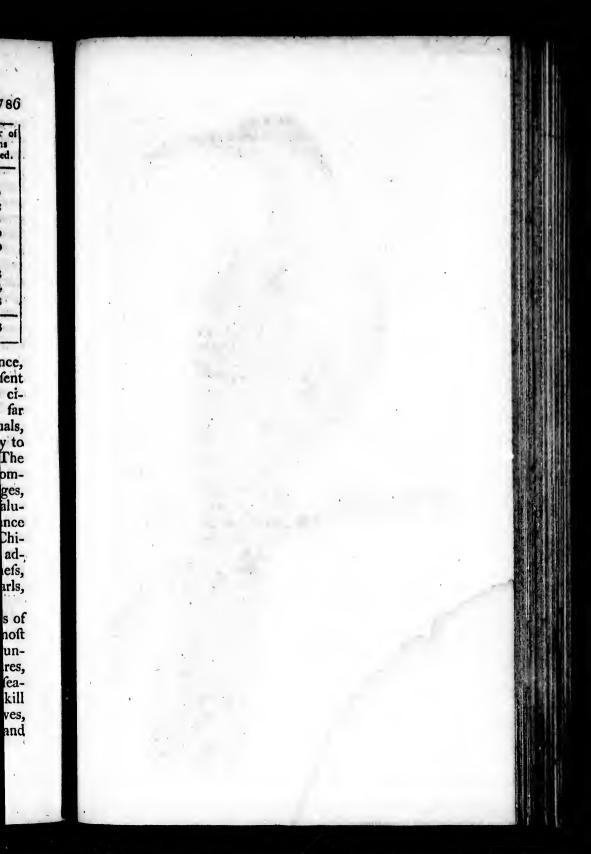
much more attractive to the Spaniards, who find there a fertile foil and abundant mines; objects far more important in their eyes, than the pearl fifthery of the peninfula, which requires a confiderable number of flaves, who can dive, and these often very difficult to procure. Yet North California, notwithstanding its great diftance from Mexico, appears to combine infinitely greater advantages. Its first settlement, which is San Diego, commenced only on the 26th July 1769, and is the prefidio most to the fouthward. as that of Francesco is the most northerly. This last was conftituted on the 9th October 1776, that of Santa Barbara's Channel in September 1786, and laftly, Monterey, now the capital, and feat of government of both Californias, on the 3d of June 1770. The roadftead of this prefidio, was discovered in 1602, by Sebaftian Vizcayno, commodore of a finall fquadron equipped at Acapulco, by order of the Vifcount of Monterey, who was Viceroy of Mexico. Since that epocha the galleons, on their return from Ma-, nilla, have fometimes put into this bay, to procure refreshment after their long runs; but it was not till the year 1770, that the Franciscans established their first mission there. They have now ten, comprehending 5143 converted Indians. The following table will show their names, dates, number of baptized Indians, and the prefidios on which they depend. I will here obferve, that with the Spaniards, Prefidio is a general name for all forts, whether in Africa or America, placed in the middle of a country of infidels, and implying, that there are no other inhabitants, than the garrifon which refides within the citadel.

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Parifhes.	Prefidios on which they depend.	Date of their foundation.	Number of Indians converted.
San Carlos	Monterey	3d June 1770	711
San Antonio	idem	14th July 1771	850
San Luis	'" idem "IOL	1ft Sept. 1772	492
Santa Clara	San Francesco	18th Jan. 1777	475
San Francesco	idem	9th Oft. 1776	250
San Buena Ventura	Santa Barbara		
Santa Barbara	idem	3d Sept. 1786	
San Gabriel	idem	8th Sept. 1771	843
San Juan-Capistran	San Diego.	1ft Nov. 1776	544
San Diego	idem	26th July 1769	858
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The piety of the Spaniards has, at a heavy expence. kept up these missions and presidios to the present time, from no other motive, than to convert and civilize the Indians of these countries; a fystem far more praise-worthy than that of avaricious individuals, who feem invefted with national authority, merely to commit with impunity the cruellest atrocities. The reader will foon perceive, that a new branch of commerce may procure to Spain more folid advantages. than the richest mines of Mexico; and that the falubrity of the air, the fertility of the foil, the abundance of furs, for which they have a certain market in China, give this part of America the most important advantages over Old California, whofe unwholefomenefs, and fterility, cannot be compensated by a few pearls, collected from the bottom of the fea.

Before the Spaniards fettled here, the Indians of California only cultivated a little maize, and almost entirely fublisted on fishing and hunting. No country abounds more in all forts of fish and game. Hares, rabbits and stags are very common; otters, and seawolves as abundant as to the northward; and they kill in winter a very large number of bears, foxes, wolves, and









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and wild cats. The coppices and plains are full of little grey, crefted partridges, which, like those of Europe, flock together but in covies of three or acco. They are fat, and very well flavored. The trees are the habitation of the most charming birds, and our ornithologists stuffed many varieties, of the sparrows, blue jays, tom-tits, spotted magpies, and trees are the habitation of the birds of prey were the whitetrees were the birds of prey were the whitetrees are the habitation of sparrows, and the sparrows, blue jays, tom-tits, spotted magpies, and trees and the birds of prey were the whitetrees are the mailer and small falcon, gois-hawk, pairow-bawk, bluck vulture, great horn-owl, and the myen. The water four found on pools, and on the isa fide, were the mailer the grey and white yellow-crefted pelican, godienth of various kinds, cormorants, curlews, phenocked ployer, fmall gulls, and herons : and we tailed and shuffed a promerops, which most ornithologists bar theorem to belong to the old hemisthere.

the old hemisphere. The fertility of the still encode conception. All forts of leguminous plants are to great perfection, and we enriched the gardens of the governor and missions, with various feeds we brought from Paris. They were perfectly well preferved, and will increase the stock of their enjoyments. The harvest of maize, barley, wheat, and peas, can

The harveit of muze, barley, wheat, and peas, can baly be compared to thole of Chili; a fertility, of which the European hutbandman can form no adequate idea. Its medium produce of corn is from 70 to 80 fold, and the extremes 60 and 100. Fruit trees are as yet very fearce, but the climate is perfectly adapted to them, being nearly that of our fouthernmost provinces in France. At least the cold is never more fevere, though the heats of fummer are much more moderate, in confequence of the perpetual mits, which fecundate the earth with confiant moifture.

The forefts contain the pine-apple fir, cyprefs, ever-green oak, and weftern plane-tree, all thinly fown. A green-fward, very pleafant for walking, covers

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covers the earth within them, and they have openings of many leagues, forming vaft plains amid the furrounding forefts, and abounding in every fort of game. The foil, though very fertile, is fandy and light, owing, I imagine, that excellence to the humidity of the air, as it is very ill watered. The neareft fream to the prefidio, is at a diftance of two leagues : it is a rivulet, which runs near the miffion of San Carlos, and called by the ancient navigators Rio de Carmel... This diftance from our fhips was too great for us to water there: we got it from the ponds behind the fort, though the quality was indifferent, hardly diffolving foap. The Rio de Carmel, which furnishes a falubrious and agreeable beverage to the miffionaries and their converts, might with little labour be made to water their garden.

It is with the livelieft pleafure, that I deferibe the wife and pious conduct of these monks, who so fully correspond with the object of their institution; though I fhall not conceal what I deem reprehensible in their But I declare, that good and internal administration. humane in their individual capacity, they temper the aufterity of the rules laid down by the fuperiors of their order, with the mildness and benevolence of their private character. I confess, that more attached to the rights of man than theology, I should have wifhed them to combine with the principles of chriftianity, a legiflation calculated to make citizens of a race of men, whofe condition fearcely differs from that of the negroes of our colonies, in those plantations which are conducted with most mildness and humanity.

I am perfectly aware of the extreme difficulty of this new plan. I know thefe men poffets few ideas, itill let's freadinct's, and, if their conductors ceafe to confider them as children, run away from those who have had the labour of inftructing them. I know too, that reationing is almost lost upon them, that an appeal

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appeal to their fenfes is neceffary, and that corporal punifhments, with a double proportion of rewards, have hitherto been the only means adopted by their governors. But is it impossible for men influenced by ardent zeal, and possified of extreme patience, to demonstrate to a small number of families, the advantages of a fociety founded on the rights of nations, to establish among them the institution of property, fo engaging to the reft of mankind, and by this order of things, to induce every one to cultivate his field with emulation, or devote himself to fome other species of industry.

I allow the progrefs of this new mode of civilization would be very flow, the neceffary labour of it very painful and tedious, and the fcenes of action at very remote diffances; fo that the applaufes due to the character, who fhould devote his life to deferve them, would never reach his ears. Nor am I afraid to confefs, that mere humanity is an inadequate motive to undertake the office. The enthufiafm to which Religion gives birth, and the rewards fhe promifes, can alone compenfate the facrifices, the tedioufnefs, the fatigue, and the rifks of this mode of life. I have only to wifh the auftere, though charitable and pious individuals, I met with on thefe miflions, poffeffed a little more of the true fpirit of philofophy.

I have already declared with freedom my opinion of the monks of Chili, whofe irregularity appeared to me a general fcandal * to their order. I fhall with equal truth pourtray those truly apostolic individuals, who have quitted the lazy life of the cloifter, to encounter every kind of fatigue, of care, and of folicitude. I shall as usual give the narrative of our own adventures, by relating their history, and placing be-

* There are, however, among the monks of Chili, individuals of great worth, though, in general, they enjoy a licence inconfiftent with the way of life they have embraced.

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fore the reader all we faw, or learned, during our fhort ftay at Monterey.

We anchored on the 14th of September in the evening, two leagues off fhore, within fight of the prefidio, and the two fhips that lay in the harbour. They had fired a gun every quarter of an hour, to apprife us of the anchoring place, which the fog might conceal from us. At 10 o'clock at night, the Captain of the corvette la Favorecida came on board in his long-boat, and offered to pilot our thip into the harbour. The corvette la Princefa also fent her long-boat with a pilot on board the Aftrolabe. We then learned that thefe two fhips were Spanish, and commanded by Don Estevan Martinez, lieutenant of marine of the department of San Blas, in the province of Guadalaxara. The government keeps up a fmall navy in that port, under the orders of the Viceroy of Mexico, confifting of four corvettes of 12 guns, and a schooner, whose particular deflination is the victualling the prefidios of North California. It was thefe fame fhips, that performed the laft voyage of the Spaniards on the N. W. coaft of They are also fometimes fent as packet-America. boats to Manilla, to carry with promptitude the difpatches of the court.

We had got under way at ten in the morning, and auchored in the road at noon, where we were faluted by feven guns, which we returned. I then fent an officer to the governor with the letter of the Spanifh minifter, delivered to me before my departure from France. It was unfealed, and addreffed to the Viceroy of Mexico, whofe jurifdiction extends as far as Monterey, though fituated 1100 leagues (by land) from his capital.

Senor Fagas, commandant of the fort of the two Californias, had already received orders to give us the fame reception, as to the fhips of his nation; and he executed them with an air of graciouíneis, and warmth of interest, that deferve our fincerest gratitude.

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tude. He did not confine himfelf to kind expressions, but fent on board oxen, milk, and vegetables in great abundance. The defire to ferve us, threatened even to difturb the good understanding that reigned between the commandant of the two corvettes and the commandant of the fort, each being defirous to engrofs the right of exclusively supplying our wants; and to compensate these attentions, and balance the account, we were obliged to infift on paying for them, before they would accept our money. The vegetables, the milk. the fowls, all the labour of the garrifon, in affifting us to get wood and water, was furnifhed gratis, and the oxen, fheep, and grain were charged at fo moderate a price, that it was evident they only prefented the account becaufe we had been urgent in demanding it.

Senor Fagas added to generous manners the greateft politeness of behaviour; his house was ours, and every one under his command was at our disposal.

The monks of the miffion of San Carlos, fituated two leagues from Monterey, foon arrived at the prefidio, and with the fame politeness we had experienced from the officers of the fort and fhips, invited us to dine with them, promifing to make us acquainted with the minutiæ of their infitution and miffions, the manner of life of the Indians, their arts, their newly adopted manners, and in general, every thing that could excite the curiofity of travellers. We eagerly embraced these offers, and should not have failed to have made an application to that effect, had they not anticipated our folicitations. We agreed to go two days after. Senor Fagas was defirous to accompany us, and undertook to procure us horfes. After croffing a fmall plain, covered with herds of cattle, but only furnished with a few trees, that ferve as a fhelter to those animals from the rain, or fultry heats, we afcended fome hills, where we heard feveral bells announcing our arrival, of which the monks had

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They received us like lords of the manor making their first entry on their estates. The president of the missions, in his ceremonial habiliments, and with holy water in his hand, received us at the door of the church, which was illuminated as on the grandest feftivals; and conducting us to the steps of the high altar, began to chaunt a *Te Deum* for the success of our voyage.

Before we entered the church, we had croffed a fquare, where the Indians of both fexes formed a line: but their countenances shewed no surprise at our arrival, and even left it doubtful whether we fhould become the fubject of their conversation during the remainder of the day. The parifh church is very neat. though covered with thatch. It is dedicated to St. Charles, and decorated with tolerable good paintings. copied from those of Italy. Among others, is a picture of hell, where the artift feems to have borrowed the imagination of Callot. But as it is indifpenfably neceffary to ftrike the fenfes of thefe new converts in a lively manner, I am convinced fuch a reprefentation never was more useful in any country, and that it would be impoffible for the Protestant religion, which proferibes images, and almost all the ceremonies of the Gallican church, to make any progrefs among this nation. I doubt whether the picture of Paradife oppolite, produces on them fo good an effect. The quietifm it pourtrays, and the foothing fatisfaction of the elect, who furround the throne of the Moft High, are ideas too fublime for the minds of uncultivated favages. But it was neceffary to place the rewards, as well as punifhments before them, while it was an indifpenfable duty, not to admit of any de lation from the kind of pleafures held out to man by the Catholic religion.

On coming out of the church, we passed the fame ranks

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ranks of Indians, who had not quitted their post during the *Te Deum*. The children alone had moved, forming groups near the house of the missionaries, which, with their several magazines, are opposite to the church. On the right is the Indian village, consofting of about 50 huts, inhabited by 740 performs of both sexes, including children, who altogether compose the mission of San Carlos, or Monterey.

These huts are the most miserable that exist among any nation. Their form is circular, and fix feet diameter by four high. Some stakes about the fize of the arm being fixed in the ground, and brought together in an arch at top, compose their frame, and eight or ten trusses of straw, badly arranged upon these stakes, defend the inhabitants more or less from the rain, and wind. More than half this hut remains open in fine weather, and their only precaution is to keep two or three spare trusses of straw near each of their houses.

This agrefic architecture, which is univerfal throughout the two Californias, the exhortations of the Miffionaries have never fucceeded in changing. The Indians reply that they love the open air, and that it is convenient to fet fire to their houfes, when they are too much annoyed by fleas, and then rebuild them in an hour or two. The independent Indians, who fo frequently change their abode, have, like every nation of hunters, additional motives to this preference.

The colour of thefe Indians, which is that of negroes, the houfe of the monks, their magazines, which are built of brick, and plaiftered, the threfhing-floor on which they tread out the corn, the cattle, the horfes, in fhort, every thing we observed, prefented the appearance of a plantation in St. Domingo, or any other colony. The men and women are alfo uffembled by the found of a bell, and a monk leads them to work, to church, and to all their employments. We declare with pain, that the refemblance is

is fo exact, that we faw both men and women loaded with irons, while others had a log * of wood on their legs; and even the noife of the lafh might have affailed our ears, as that mode of punifhment is equally admitted, though employed with but little feverity.

The answers of the monks to our various questions. made us perfectly acquainted with the regulations of this religious community, for fuch the administration eftablished here must be called. They are the temporal, as well as fpiritual fuperiors, and all the produce of the earth is confided to their management. The day is divided into feven hours of work, and two of prayer, but four or five on Sundays and feaft days; which are wholly devoted to reft, and religious worthip. Corporal punithments are inflicted on the Iudians of both fexes, who neglect their pious exercifes. and many faults, which in Europe are wholly left to divine juffice, are here punified with irons, or the log. In fhort, to complete the parallel with the religious communities, from the moment a neophyte is baptized, he feems to have taken an eternal vow. If he runs away, and returns to his relations among the independent villages, he is fummoned three times, and should he still refuse to come back, they apply to the authority of the governor, who fends a party of foldiers to tear him from the bofom of his family +, and deliver him to the miffions; where he is condemned to a cetain number of lashes. Yet these people are fo defiitute of courage, that they never oppofe any reliftance to the three or four foldiers, who fo glaringly violate the rights of nations in their per-The state of the Y of highly for

* The log is a folid block of wood fawed throughout its length, with a hole large enough for a common fized leg. One end is connected by a hinge; the other being opened to put in the leg of the prifoner, it is then fhut, and faftened with a padlock; thus obliging him to lie down, or remain in a very uneafy pofture.

+ As these people are at war with their neighbours, they can never go to a diftance of above 20 or 30 leagues.

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fons. Thus is this cuftom, againft which reafon exclaims fo loudly, continued, merely becaufe a number of theologians have chofen to decide, that baptifm fhall not be administered to men of fo much levity, unlefs the government become in fome measure their fiponfors, and engage for their perfeverance in Chriftianity.

The predeccifor of Senor Fagas, Don' Felipe de Neve, commandant of the inland provinces of Mexico, who died four years fince, was a man of great humanity, and a kind of Chriftian philosopher. That worthy. man protefted against this custom, thinking the progrefs of the Chriflian faith would be more rapid, and the prayers of the Indians more agreeable to the Supreme Being, if they were voluntary. He wished for a lefs monaftic conflitution, more civil liberty for the Indians, and lefs defpotifm in the executive power of the prefidios, the administration of which, might fometimes be placed in barbarous or avaricious hands. He thought it might even be neceffary to moderate their authority, by crecting a magistracy, which should be as it were the tribunal of the Indians, and might have fufficient authority to protect them from oppreffion. Though this just man had borne arms in the defence of his country from his infancy, yet he was free from the prejudices of his profession, knowing that a military government is fubject to great inconveniences, when it is not tempered by an intermediate authority. He ought, however, to have perceived the difficulty of maintaining this balance of three powers, at fo great a diffance from the Governor General of Mexico, fince the Miffionaries, though fo pious, and fo refpectable, are already at open war with the governor, who appeared to me to be a meritorious officer.

We were defirous of being prefent at the diffribu-

tions made after each meal; and, as every day is alike

with

with these monastic kind of men, by delincating the history of a day, the reader will know that of the year.

The Indians, like the miffionaries, rife with the fun, and then go to prayers, and to mafs, which laft an hour. During this time, three great cauldrons of barley meal are boiled in the middle of the fquare, the grain having been roafted before it is ground; this mefs, which the Indians call *atole*, and which they are very fond of, is neither feafoned with butter nor falt, and would be to us very infipid food.

Each family fends for the allowance of all the inhabitants of their cottage, which they receive in a verfel of bark. There is no confusion or diforder in the diffribution, and when the cauldrons are empty, what cakes to the bottom is given to the children who fay their catechifm beft.

This repart continues three quarters of an hour, after which they all go to work; fome to plough with oxen, others to dig the garden, each according to the different labours requisite in the colony, and always under the fuperintendance of one or two monks.

The women have little other employment than the conduct of household affairs, that of their children, and the roafting and grinding their grain. This operation is very long and tedious, because they have no other method than crushing it on a stone with a cylinder. M. de Langle, observing this operation, prefented his mill to the miffionaries, than which, we could fearcely have rendered them a greater fervice ; for now four women can do the work of 100, and even have time to fpin the wool from their flocks, and manufacture some coarse stuffs. Hitherto the monks, more occupied with their celeftial than temporal concerns, have neglected to introduce the most common arts. They are even to auftere with regard to themfelves, as not to have one chamber with a fire-place, though the winter is fometimes fevere; nor 178 nor ing

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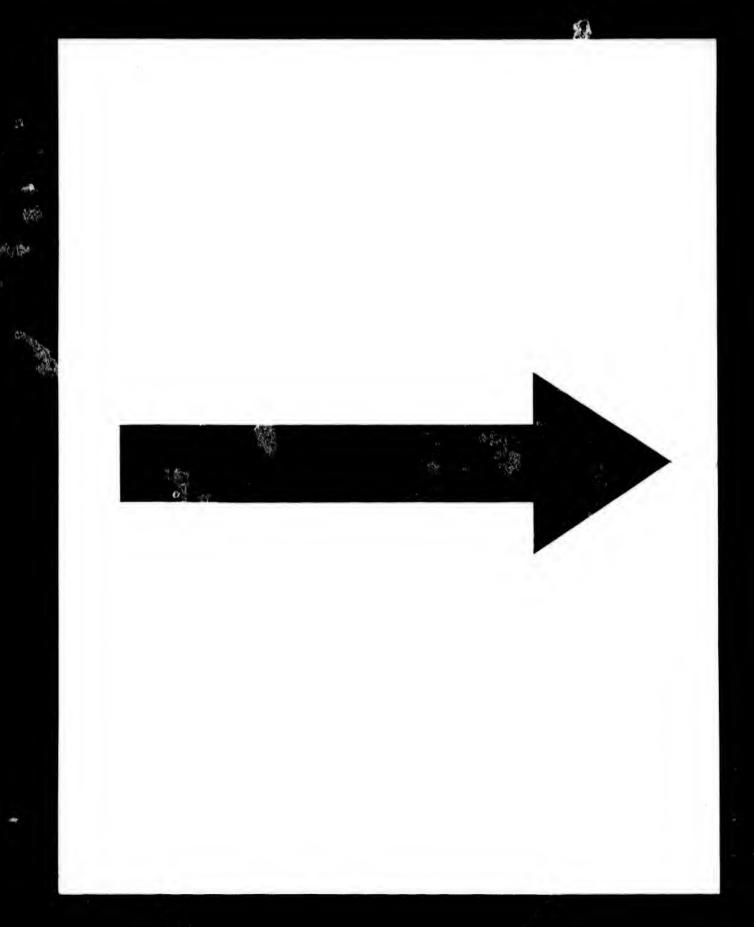
nor did the firictest anchorites ever lead a more edifying life •.

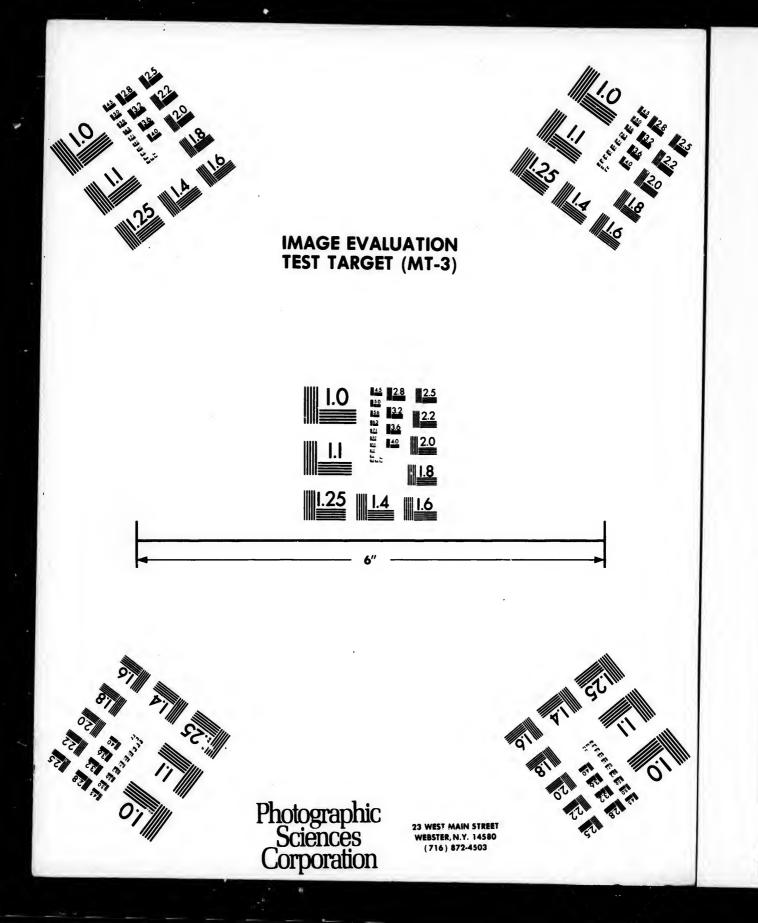
At noon the bells ring for dinner, when the Indians quit their work, and fend for their mefles to the fame cauldrons as at breakfast time. This fecond broth, however, is thicker than the first, for besides the corn and maize, it contains peas and beans. The Indians call it pouffole. They return to work from two o'clock, till four or five, after which they go to evening prayers, which laft near an hour, and are followed by another meal of atole fimilar to their break-Thus these distributions suffice for the sublistfaft! ence of the majority of the Indians, and this very economical foup, might perhaps be advantageoufly adopted in Europe in years of fcarcity, with the addition of fome kind of feafoning. But all the art of cookery practifed here, confifts in roafting the grain before it is reduced into flour. As the Indians have no earthen, or metal veffels for this operation, they perform it in bafkets of bark over finall lighted coals, turning them with fo much adroitness and rapidity, as to make the grain fwell and burft, without burning the baskets, though composed of very combustible materials. We may even venture to affirm, that the beft roafted coffee does not approach the equality of roafting, produced by the Indians. It is diffributed to them every morning for this purpose, and the fmalleft infidelity in their return, is punished by the lash, to which, however, they very rarely expose themfelves. Thefe punifhments are ordered by Indian magistrates called *Caciques*, of whom each miffion has three, elected by the people from all those not difqualified by the miffionaries. But to give a just idea of this magistracy, we shall observe, that

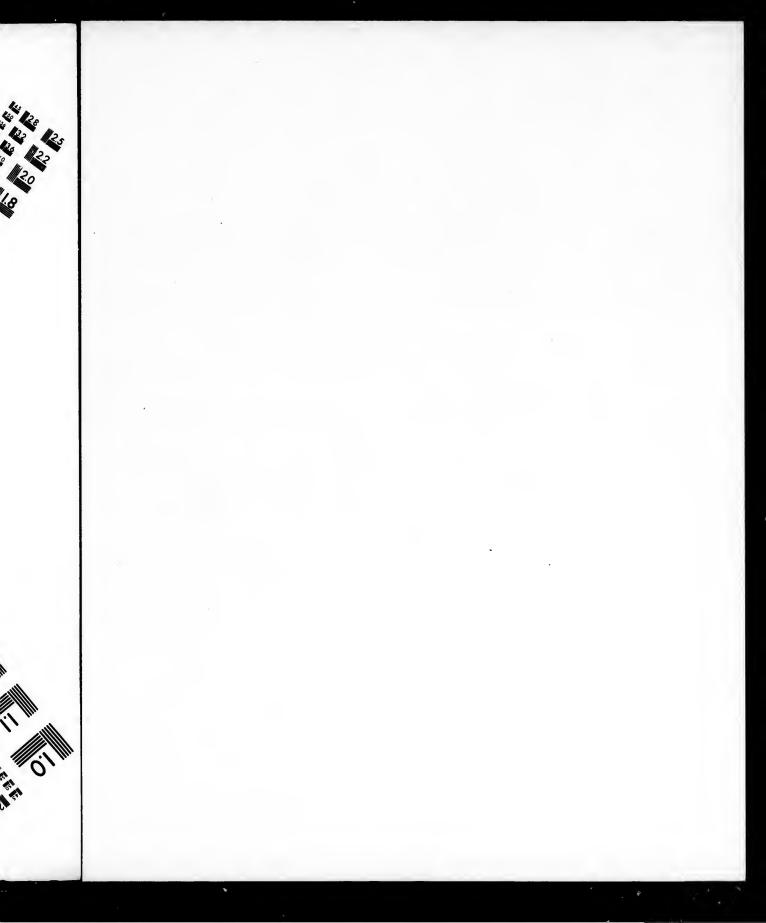
* Father Firmin de la Suen, prefident of the miffions of New California, is one of the most worthy, and respectable men I ever met with. His mildness, his charity, his love for the Indians, are indefcribable.

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their Caciques, like flewards of plantations, are mere paffive beings, and blind executors of the will of their fuperiors : their principal functions being those of beadles, and maintaining good order, and an air of ferioufness in the church. The women are never flogged in the public fquare, but in a fecret place, and at a diftance, in order, perhaps, to prevent their cries exciting too lively a compassion, and thereby fimulating the men to revolt : whereas the men are exposed before all their fellow citizens, that their punishment may ferve as an example. In general, they ask forgiveness, upon which the executioner diminishes the force of his strokes, but the number is always irrevocably fixed.

Their rewards confift in finall individual diftributions of grain; of which they make finall cakes, baked under the brazier; and on feaft days their mefs is of beef, which many eat raw, efpecially the fat, which they efteem equally delicious with the fineft butter, or the most excellent cheefe. They fkin all animals with the greatest address, and when they are fat, they croak with pleasure like a crow, devouring at the same time the parts they are most fond of with their eyes.

They are often fuffered to hunt and fifh for their own benefit, and at their return, prefent the miffionaries with fome fifh or game, proportioning the quantity to their precife wants, but encreafing it if they know their fuperiors to have any additional guefts. The women keep a few fowls round their huts, and give the eggs to their children. Thefe fowls are the property of the Indians, as well as their clothes and other utenfils, both domeftic and for the chace. There is no example of their robbing one another, though they have no other door than a trufs of ftraw laid acrofs the entrance when all the family are abfent.

These manners will appear to some readers, to belong [1786. are mere ll of their those of air of seever flogcc, and at heir cries by flimun are extheir puneral, they ner diminber is al-

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l diftribuall cakes, their mefs y the fat, the fineft They fkin when they y, devouroft fond of

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long to patriarchal ages, who may not confider, that in these buts they have no objects capable of tempting the cupidity of their neighbours. For their subfisience being secure, they can have no other object of defire, but to give birth to beings, defined to be equally stupid with themselves.

The men have facrificed more to Christianity than the women; for to them polygamy was allowed, and it was even the cuftom to marry all the fifters of a family. The women, therefore, have gained by it the exclusive enjoyment of their hufband. But I confess, that. notwithstanding the unanimous account given by the miffionaries, of this pretended polygamy, I never could conceive it poffible among a nation of favages. For the number of men and women being nearly equal, many of them muft live in involuntary celibacy, unlefs conjugal fidelity were lefs ftrictly obferved than in the miffions, where the monks have made themfelves the guardians of the womens' virtue. An hour after supper, they shut up all those whose hufbands are abfent, as well as all girls above nine years old, and place them under the care of matrons. during the day. Even these precautions are infufficient; for we faw men wearing the log, and women in irons, for having efcaped the vigilance of these female argufes, whofe eyes are inadequate to watch them,

The converted Indians have preferved all the ancient cuftoms not forbid by their new religion; the fame huts, the fame games, the fame dreffes. The richeft wear a cloak of otter-fkin, which covers their loins, and reaches below their middle. The leaft induftrious only wear a piece of cloth furnifhed by the miffion to cover their nakednefs, and a little cloak of rabbit-fkin tied with a pack-thread under the chin, which covers their fhoulders, and reaches to their loins, he reft of the body being naked as well as the head; fome, however, wear a ftraw hat extremely well matted.

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The women's drefs confifts of a cloak of ftag'sfkin, badly tanned. Those of the miffions generally convert them into a little jacket with fleeves, which with a fmall apron of ruthes, and a petticoat of ftag'sfkin that covers their loins, and reaches half down the leg, forms their whole attire. Young girls under nine years old have only a girdle, and the boys are totally naked.

The hair of both men and women is out four or five inches from the roots. The Indians of the Rancherias * having no iron utenfils, peform this operation with fire-brands, and paint their bodies red, changing it to black when in mourning. The miffionaries have proferibed the former, but have been obliged to tolerate the black, these people being fo ftrongly attached to their friends, as to fhed tears when reminded even of those who have long been dead, and feeling offended, if their names are inadvertently mentioned in their prefence. But here, family connections have lefs force than those of friendfhip; and children fcarcely know their own father, deferting his hut as foon as they are able to provide for themselves. They retain, however, a more durable attachment to their mothers, who bring them up with the greatest tenderness, and only beat them when they thew cowardice in their little battles with children of their own age,

The old men of the Rancherias, who are no longer able to hunt, live at the joint expence of the whole village, and are treated with general refpect. Though. the independent favages are very frequently at war, their fear of the Spaniards, prevents their committing any outrages on the miffions, which is, perhaps, not the least of the causes of the augmentation of the Chriftian villages. Their arms are the bow and arrow, pointed with a flint very skilfully worked. Thefe bows being made of wood, and ftrung with the nerve

* Villages of the Independent Indians.

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of an ox, are very far fuperior to those of the inhabitants of *Port des Français*.

We were affured, thefe Indians neither eat their prifoners, nor their enemies killed in war, although, when they have conquered and put to death fome chiefs and very brave men in the field of battle, they cat fome morfels of their bodies; not fo much to demonftrate their hatred and vengeance, as to do homage to their valour, and from a belief that fuch food would increase their courage. Like the Canadians, they take off the fealp of the conquered, and tear out their eyes; which they have the art of preferving from corruption, keeping them as the most precious trophies of victory. They are accustomed to burn their dead, and deposit their as in a moraï.

Two games employ all their leifure time. One is called *takerfia*, and confifts in throwing, or rolling a finall circle three inches in diameter, on an area ten toifes fquare, cleared from grafs, and inclofed with fafcines. Each party has a flick five feet long, of the fize of an ordinary cane, on which they endeavour to catch the ring while in motion. If they fucced they gain two points, but if they only catch it at the end of its motion, they count one; and three points are the game. This play becomes a violent excreife, as the circle or the flick are in conftant action.

The other game, called *touffi*, is lefs fatiguing, and is played by four hands, two on a fide. Each party in turn, hides a piece of wood in one hand, while his partner endeavours by a thoufand geftures, to engage the attention of the adverfaries. It has a fingular effect to a fpectator, to obferve them fquatting opposite each other in perfect filence, watching each other's countenance, and the minuteft circumftance that may affift them in gueffing which hand conceals the piece of wood. They gain or lofe a point according to their guefs, and those who win have the next turn to hide. Five points make the game, and the ftake ufually

ufually confifts of fome beads; or, among the independent Indians, the favours of their wives. Thefe laft have no knowledge of a God or a future fiate, except fome of the fouthern nations, who had a confufed idea on the fubject before the arrival of the miffionaries. They placed their paradife in the middle of the fea, where the good enjoyed a coolnefs never to be felt amongst their burning fands; while they imagined a hell fituated in the hollows of the mountains.

The miffionaries convinced, either by their prejudices or their experience, that the reason of these men is never matured, deem this a fufficient motive for treating them as children, and only admit a very fmall number to the communion. These individuals are the men of genius of their village, who, like Newton or Defcartes, might have enlightened their countrymen and their age, by teaching them that two and two make four; a calculation above the powers of a confiderable number. The regulation of the miffions is not likely to emancipate them from the reign of ignorance, where every thing is merely directed to obtaining the rewards of a future life, and the most common arts, even that of a village furgeon of France, wholly unexplored. Children frequently perifh in confequence of hernias, which the finalleft degree of fkill might cure; and our furgeous were happy in relieving a few, and teaching them the ufe of bandages in that diforder.

It muft be acknowledged, that if the Jefuits were not more pious or more charitable than the prefent miffionaries, they were at leaft more fkilful. The immenfe edifice they erected in Paraguay, muft excite the greateft admiration, though mankind will ever have to reproach them, whether from their ambition or their prejudices, with that fyftem of community fo inimical to the progrefs of civilization, and which is too fervilely imitated in all the miffions of California. rior witl alta ther rity. the ftan tion caul unce thou an'i affai he h N men boui of M thips foun that the i ful r vern otter and W

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California. This government is a true theocracy with regard to the Indians, who believe their fuperiors to hold an immediate and continual intercourfe with God, bringing him down each day upon the altar. Under the protection of this opinion, the fathers live in the midft of the villages in perfect fecurity, nor is their door thut during the night, though the history of their mission already furnishes an instance of a priest being massacred. This assafination, however, was the confequence of a commotion caufed by an act of imprudence, for murder is very uncommon even among the independent tribes, though only punished by general contempt. But if an individual falls under the united attack of feveral affailants, he is supposed to have deferved his fate, as he had drawn upon him to many enemies.

North California, of which the most northern fettlement is San Francesco, in 37° 58' N. lat. has no other bounds, according to the opinion of the Governor of Monterey, than those of America itself; and our ships, penetrating as far as Mount St. Elias, have not found its limits. In addition to the motives of piety, that determined Spain to facrifice confiderable fums in the maintenance of her prefidios and miffions, powerful reasons of flate direct the attention of the government to this important part of America, where otter skins are as common as in the Aleutian islands, and other parts frequented by the Ruffians.

We found at Monterey, a Spanish commission, named Don Vicente Vafladre y Vega, who had brought the Governor orders to collect all the otter skins of his four presidios and of the ten missions, of which the Governor referves the exclusive trade. Senor Fagas assured me he could furnish 20,000 every year; and as he knew the country, he faid, that if China could take off 30,000 skins, two or three additional settlements to the northward of San Francesco would soon procure them for the national trade. It

It is truly aftonifhing that the Spaniards, having fuch frequent and easy communication with China through Manilla, fhould fill be ignorant of the value of these important furs.

They owe to Captain Cook and to the publication of his work this important information, which will confer on them the greatest advantages. Thus has this great man travelled for the benefit of the whole world, while his nation enjoys nothing exclusively, but the glory of giving birth to the enterprize, and of obferving its progress.

The otter is an amphibious animal, as common on the western coast of America, from the 28th to the 60th degree, as fea-wolves on the coaft of Labrador and Hudfon's-Bay. The Indians, not being fo good feamen as the Efquimaux, and their canoes at Monterey being only made of reeds*, take them on thore with fnares, or knock them down with flicks when at a diftance from the land. For this purpose they conceal themfelves behind the rocks, for at the moft triffing noife these animals take alarm, and plunge into: the fea. 'Till the prefent year an otter-fkin bore no: higher value than two hare-fkins, and the Spaniards had no idea they could ever be much in request. They had never fent any to Europe, and Mexico was too: hot a country to suppose they could be disposed of there. 1. S SON

I am of opinion a great revolution will take place in a few years, in the commerce of the Ruffians to Kiatcha, in confequence of the difficulty of fupporting this competition. The comparison I have made of the otter-skins of Monterey with those of *Port des Français* induces me to think the skins of the South are rather inferior. But the difference is fo inconfiderable, that I am not absolutely certain

* Those in the channel of Santa Barbara and of San Diego have canoes built of wood, nearly fimilar to those of Mowee, but without out-riggers.

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of the fact, and I doubt much whether this inferiority can occasion a difference of 10 per cent. on the fale. It is almost certain that the new Company of the Manillas will endeavour to become masters of this branch of commerce, and this will be a most fortunate event for the Russians, as it is the nature of exclusive privileges to destroy, or at least to paralife every species of commerce and industry; while it is the characteristic of a free trade to communicate to both all the activity of which they are sufficient.

California, notwithstanding its fertility, cannot be faid to have a fingle inhabitant. A few foldiers, married to Indian women, who live within the forts, or are foread as it were in patroles among the various missions, constitute as yet the whole of the Spanish nation in this part of America. Yet it is in no refpect inferior to Virginia, to which it is oppofite, were it but lefs diftant from Europe; its proximity to Afia might, however, counterbalance that difadvantage; and I am of opinion, that a good fyftem of legiflation, and, above all, the liberty of commerce, would procure it, fome inhabitants from the Spanish territories, which are fo extensive, that it will probable be a very long time before the population of any of their colonies will increase. The great number of celibatists of both fexes who have devoted themfelves to that condition from an idea of moral perfection, and the conftant policy of the government in tolerating only one religion, and employing the most violent measures in its support, will continually oppose an additional obftacle to every advancement.

The administration of the villages converted to Christianity would be more favourable to population, if property and a certain degree of liberty formed its basis. However, fince the establishment of the ten different missions of North California, the holy fathers have baptized 7701 Indians of both fexes, and have buried only 2388. But we may remark, that this ftatement

flatement does not inform us, like that of our towns in Europe, whether the population encreafes or diminifhes, because they baptize fome of the independent Indians every day. It only proves that Christianity encreases; and I have already faid that the affairs of the future state could not be confided to better hands.

Almost all the Franciscan missionaries are Europeans. They have a college at Mexico *, whole guardian is, in America, the general of his order. This house is not dependent on the province of the Franciscans at Mexico, but has its superiors in Europe.

The Viceroy is fole judge of the difputes and differences of the various miffions, not under the authority of the Commandant of Monterey, who is only obliged to affift them with the military power whenever they demand it. But as he has power over all the Indians, and particularly over those of the Rancherias, and is also commandant of the detachment of cavalry stationed in the missions, these various relations very frequently diffurb the harmony between the military and religious government, which laft, however, has fuch a powerful intereft in Spain, as to preferve to them the afcendancy. These affairs were formerly carried before the governors of the interior provinces; but the new Viceroy, Don Bernardo Galvez, has re-united all the powers in his own perfor. I that the

Each miffionary receives from Spain 400 piastres a year; their number being fixed at two for each parish; and if there is a supernumerary, he receives no falary. Yet money is of very little use in a country where they find nothing to buy. Beads are the only money of the Indians, confequently the College of Mexico do not fend a piastre in specie, but invest

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their value in effects, fuch as candles for the church. chocolate, fugar, oil, wine, and fome cloth, which the miffionaries cut into finall girdles, to furnish a covering for the converted Indians, though deemed by their independent countrymen unnecessary. The Governor's falary is 4000 piastres; that of his deputy, 450; that of the infpecting captain of the 283 cavalry-men distributed over the two Californias, 2000. Each foldier of cavalry has 217, out of which he must subfist himself, and furnish his horse, cloathing, arms, and every thing. The government keep fluds of horfes and herds of cattle, and fell the former to the foldiers, as well as the meat they confume. The price of a good horfe is eight piastres, and that of an ox five. The Governor has the difpofal of the horfes and of cattle, and making the deduction to each, at the end of the year, from the remainder of his pay, liquidates the balance with great exactness.

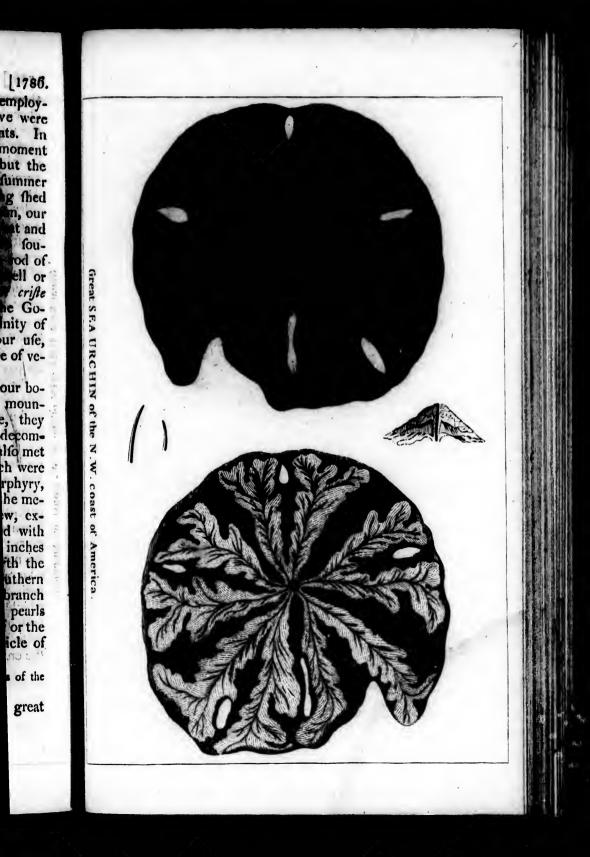
As the foldiers * had rendered us an infinity of little fervices, I asked leave to present them a piece of blue cloth, and fent the miffion fome coverlets, fome flicks, beads, utenfils of iron, and, in general, all the little articles they might want, and which we had not diffributed to the Indians of Port des Français. The Prefident declared to the whole village, that it was a prefent from their ancient and faithful allies, who profefied the fame religion as the Spaniards: which fo excited their benevolence, that every one of them brought us a trufs of hay or firaw the next morning, for the oxen and fheep we were to take on board. Our gardener also gave the miffionaries fome potatoes of Chili perfectly well preferved. which I by no means confider one of our meaneft prefents, as I am of opinion this root will fucceed perfectly in the light and highly vegetative foil of the environs of Montercy.

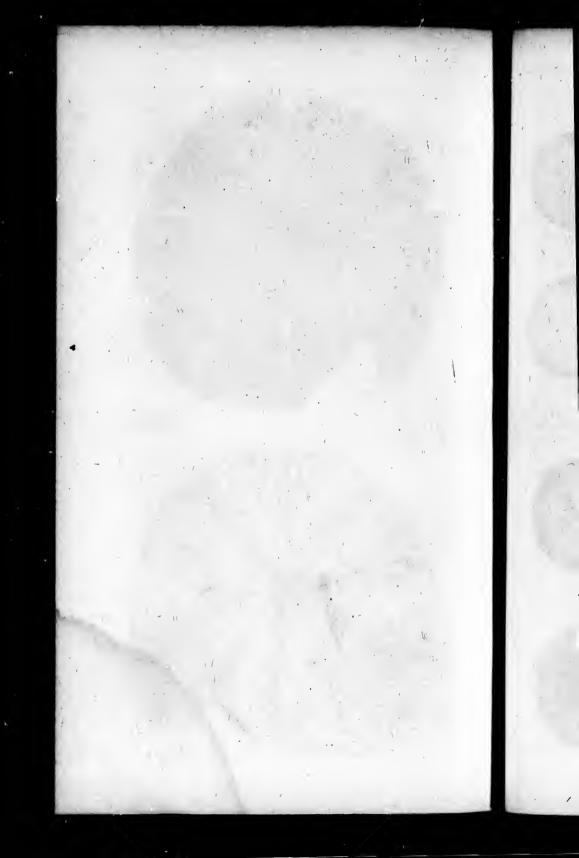
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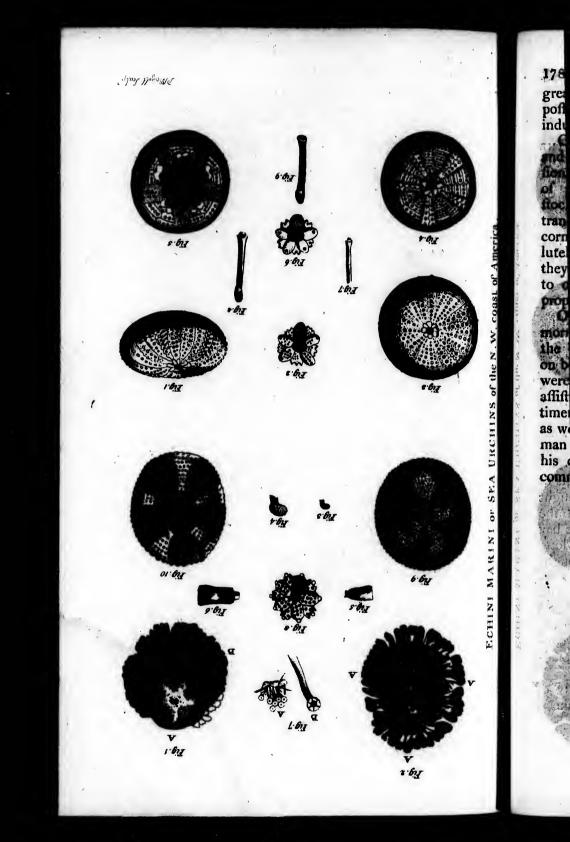
LA PEROUSE'S VOYAGE 222 1786. From the day of our arrival we had been employwhich laft we were ed in gettin allowe mur boats. In a moment the fro but the fummer g fhed m, our It and fouod of. ell or crifte e Gonity of bur use. hce of vcally zealous with our bo-oceisful. On the mountanifts, though time, in the hollows, and by the fea-fide, they only found a light argillaceous ftone, eafily decomonly found a light argillaceous fione, eafly decom-pofed, and formed of a kind of marl. They also met with blocks or granited in the vains of which were buried drivitalitied light, tome species of porphyry, and rank theres, but no traces whatever of the me-tals. The mainties of thells were equally few, ex-cept fone very line willer is mer, furnished with the fingite common mother of pearl, and nine inches long to gethering. The eastern and fouthern coaft of Old Californic are much richer in this branch of manual intery, and furnish oyners, whole pearls are fully beauty and fize to these of Ceylon or the Brane Gulph. This would also be an article of indiation and REPRESENCES : They found finall olives, bucches, and various fhells of the great

Great SEA URCHIN of the N.W. coast of America









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SEA URCHINS of the N.W. coast of Ameri

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great value and certain fale in China. But it is impoffible for the Spaniards to cultivate every species of industry their vast dominions would encourage:

On the 22d at night every thing was on bound, and we took our leave of the Governor and the mif-fionaries. We carried away with us as great a fore of providing as from La Conception : the whole flock of poultry of Senor Fagas and the movies was transported to our coops, and the latter added fome corn, beans, and peas, retaining only what was abfolutely necessary for themselves. For all these articles they refused to accept any payment, and only yielded to our representation, that they were flewards, not proprietors of the produce of the miffions.

On the 23d the wind was contrary, but on the morning of the 24th we fet fail with a breeze from the wollward. Don Effevan Martinez had come on board at day-break; and his long-boat and crew were conftantly at our difpofal, and gave us every affiftance. Indeed, I can but feebly express the fen-timents of gratitude we owe him for his attentions, as well as to Don Vicente Vaffadre y Vega, a young man full of genius and merit, who was on the eve of his departure for China, to conclude a treaty of commerce relative to the fale of otter-fkins.

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ASTRONOMICAL OBSERVATIONS COMPARISON OF THE RESULTS OBTAINED BY THE DISTANCES OF THE MOON FROM THE SUN, AND BY OUR TIME-KEEP-ERS, WHICH SERVED AS THE GROUND-WORK OF OUR CHART OF THE AMERICAN COAST REASONS FOR THINKING OUR LABOURS DESERVE THE CONFI-DENCE OF NAVIGATORS VOCABULARY OF THE LANGUAGE OF THE DIFFERENT TRIBES IN THE VICINITY OF MONTEREY, WITH REMARKS ON THEIR PRONUNCIATION.

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THILE our crews were employed in completing V ing our wood and water, M. Dagelet got his quadrant afhore, in order to determine with the greatest precision the latitude of Monterey. He. regretted much, that circumftances did not admit of my flaying long enough to refume the comparison of our time-keepers. The robbery of the papers containing our observations, by the favages at Port des Français left him in fome uncertainty concerning the daily lofs on mean time of the time-keeper No. 19, by which we had determined all the points of the coaft of America. That aftronomer even thought he ought to confider the comparisons made in the Ife du Cénotaphe as null, preferring those of the bay of Talcaguana in Chili, though perhaps too long paft, ftill to deferve full confidence. But it ought not to be forgot, that each day we compared the refult of the longitude given by the time-kceper, with that deduced from lunar observations taken on board each frigate, and that the conftant and perfect agreement of these refults, cannot leave any doubt, concerning the accuracy of those to which we have adhered.

As those who apply themselves to the study of sciences,

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fciences, may be defirous to know the limits of the errors, of which the determinations of longitude at fea, deduced from obfervations of the diffance of the moon from the fun, are fufceptible, it will not appear mal-apropos to give an idea of it in this place.

Theory, affifted by a long ferics of obfervations. has not yet been able to furnish perfectly accurate tables of the moon's motion. Yet, confidering the degree of precifion these tables have already attained. this first fource of error only leaves an uncertainty. of 40 or 50 feconds of time at moft, and generally, not exceeding 30 feconds, making only a quarter of a geographical degree of longitude; becaufe the motion of the moon with respect to the fun is, by a middle term, half a minute of a degree for every minute of time, and the minute of time answers to a quarter. of a degree of longitude. From whence it follows. that the longitudes deduced from a comparison of the diftances observed at sea, with the distances calculated for the fame points of time, and for a fixed meridian. cannot be affected by an error in the tables, if there is one, above a quarter of a degree in most cases, often lefs. and very rarely more.

The fecond fource of errors, arifing from the imperfection of the infruments and want of accuracy or fkill in the obferver, cannot be determined with equal precision to that refulting from the imperfection of the tables.

As to quadrants and fextants, the limits of the error depend, as far as regards the infrument, on the accuracy of the divisions; and with regard to the observer, 1ft, on the difficulty of verifying the point 0; 2d, on that of accurately observing the contact of the two planets: and this last depends on the goodness of the fight, habit, and skill of the obferver.

The reflecting circles have no common caufe of error with the fectants and quadrants, but the difficulty Vol. I. Q of

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of obferving the contacts; whereas they poffers feveral advantages which render them more certain. The principal of these are, that the error to be apprehended in their verification is a nullity; becaufe the observations being made successively in opposite directions, to the right and left, there is no occasion for these verifications. As to the inacouracy of the divisions, it is reduced at pleasure, according to the frequency with which the observations are repeated ; and it depends on the patience alone of the observer. that the error arifing from the divisions may, at last, be confidered as a mere nullity.* After having thus eftablished the limits of the errors, we are authorised to conclude, that the medium of our refults, for the determination of the longitude by lunar obfervations, could not in any cafe be affected by an error exceeding a quarter of a degree. For having constantly used the reflecting circle, and having never neglected, for each operation, to repeat the observation as often as the circumstances of the weather would permit, and the observers' being also perfectly practifed, we had nothing further to fear, than the uncertainty or limited error that might arife from the imperfection of the lunar tables. UT.

Thus then we were enabled to employ with confidence the refults of these operations, repeated almost daily, to establish the regularity of the time-keeper, by the comparison of its results with those of the former. We confide also, and doubtless not without fufficient reason, in the combination and constant agreement of the several results of observations obtained in different circumstances, separately, as I have already stated, on board each ship; which ferving reciprocally as proofs, have furnished a joint and in-

• The fextants we used were made by the English optician Ramfden; the reflecting circles, invented by M. de Borda, were executed by Lenoir, a French mathematical and aftronomical infrument maker.

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conteftible argument of the undeviating regularity of the time-keeper, No. 19, by the aid of which we determined the longitudes of all the points of the coaft of America, we reconnoitred. The precautions of every kind, which we multiplied and accumulated, afford me an affurance, that our determinations arrived at a degree of precision which ought to procure them the confidence both of learned men and navigators.

The utility of time-keepers is fo generally acknowledged, and fo clearly explained in the Voyage de M. de Fleurieu, that we shall only speak of the advantages they procured us, in order more fully to show how much M. Berthoud has surpassed the former limits of his art, fince, after an interval of 18 months, No. 18 and No. 19 gave refults equally fatisfactory as at our departure, and permitted us to determine, feveral times in a day, our exact fituation as to longitude, according to which M. Bernizet conftructed the chart of the coast of America.

This chart, no doubt, leaves much to be done in regard to minutiæ; but we can answer for the principal points of the coast, which are determined with perfect precision, as well as for its direction. It appeared to us in general bold; we perceived no breakers in the offing, and though there might be fome fand banks near the coast, we had no reason to think there were.

M. de Lamanon, who is the author of the following obfervations, is of opinion, that it is extremely difficult to give accurate vocabularies of the languages of the various tribes inhabiting the vicinity of

* I ought to observe, that the labour of the astronomical obfervations of the chart was common to both ships; and as M. Monge had quitted us at Teneriste, M. de Langle, who is himself a very good astronomer, was charged with the direction of all this part of the work, in which he was assisted by Messes. Vaujuas, Lauriston, and Blondela; of whom the last mentioned drew part of the charts, according to the observations with which he was furnished.

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Monterey.

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Monterey. All he could answer for, is the great pains and attention he bestowed to avoid being the cause of the adoption of errors. He could not, perhaps, even himself place any confidence in his own observations, had he not, at the missions where he staid four days, met with two Indians, who, being perfectly acquainted with the Spanish, afforded him the greatest affistance.

I thall therefore obferve, from the remarks of M. Lamanon, that there is, perhaps, no country where the various languages of the inhabitants are fo extremely multiplied as in North California. The numerous tribes that divide that country, although fituated very near each other, live in an infulated manner, and have each a feparate language. It is the difficulty of learning them all, that confoles the Miffionaries for not being acquainted with any of them. Thus they ftand in need of an interpreter in their fermons, and in their exhortations at the point of death.

Monterey, and the Miffion of San Carlos, which is dependent upon it, comprehend the country of the Achaftlians and the Ecclemachs. The languages of these people, partly united in the same mission, would foon form a third, if the converted Indians ceafed to hold communication with those of the Rancherias. The language of the Achaftlians is commenfurate with the feeble developement of their intellect. As they have few abstract ideas, they have very few words to express them : they did not even appear to diffinguish, by different names, all the species of animals; and called by the fame name of *ouakeche* both toads and frogs : nor do they diffinguish better the vegetables they make use of. Their epithets, when applied to moral fubjects, are almost all borrowed from the fense of tailing, which they are fondest of gratifying; thus they use the word millich to express a good

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good man or favoury food, and keckes for a bad man or corrupted meating and recorder bar management

They diffinguish the plural from the fingular, and conjugate fome tenses of verbs; but they have no declensions, and their substantives are much more numerous than their adjectives. They never make use of the labials F and B, or of the letter x; but they have the chr as at Port des Français, as chrskonder, a bird, and chruk, a hut; though their pronunciation is generally foster.

The diphthong ou occurs in above half their words, as chouroui, to fing ; touroun, the fkin ; touours, a fingernail ; and the most common initial confonants are \mathbf{T} and \mathbf{K} ; but their terminations are very various.

They make use of their fingers in counting as far as 10, few of them being able to do it by memory, or without the affistance of some external fign. If they would express the number nine, they begin to count with their fingers, one, two, three, and stop when they have pronounced the word with which they should have begun. They fearcely get as far even as the number five without this aid.

Their numerical terms are

One	
	outis.
Three	capes.
Four	outiti.
	is
	etefake.
	kaleis.
	oulousmasakhen.
	pak.
Ten	tonta.

The country of the Ecclemachs extends above 20 leagues to the eaftward of Monterey. Their language is totally different from all those of their neighbours, and has even more refemblance to the lan-Q 3 guages

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guages of Europe than to those of America. This grammatical phenomenon, the most curious in this respect ever observed on the continent, will, perhaps, be interesting to those of the learned, who seek, in the analogy of languages, the hiftory and genealogy of transplanted nations. It appears, that the languages of America have a characteristic difference, which totally feparates them from those of the ancient hemisphere. In comparing them with those of Brazil, Chili, and a part of California, as well as with the numerous vocabularies given by various travellers, it appears, that the American languages in goneral are deficient in labials, and particularly the letter F, which the Ecclemachs however employ, pronouncing it like the Europeans. The dialect of this tribe is, in other respects, more copious than that of the other nations of California, though it cannot be compared with the languages of civilized nations. Should it be inferred from hence, that the Ecclemachs are foreigners in this part of America, it must be at least admitted, that they have inhabited it for a long time, fince they differ neither in colour, in countenance, nor in their general make and external appearance, from the other nations of that country.

Their numerical terms	are,
One	
Two	
Three	
Four	amnahon.
Five	pemaca.
Six	pekoulana.
Seven	
Eight	koulefala.
Nine	kamakoualane.
Tén	tomöila,
Friend	nigefech.
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DEPARTURE FROM MONTEREY OUR PROJECTED ROUTE FOR CROSSING THE WESTERN OCEAN TO CHINA-VAIN SEARCH FOR THE ISLAND OF NURS-TRA SENORA DE LA GORTA-DISCOVERY OF THE ISLAND OF NECKER-WE MEET WITH & SUNKEN ROCK IN THE NIGHT, ON WHICH WE WERE NEAR-LY CAST AWAY-DESCRIPTION OF THIS ROCK-DETERMINATION OF ITS LATITUDE AND LONGI-TUDE-VAIN SEARCH FOR THE ISLAND OF LA MIRA AND GARDEN' ISLAND-WE MAKE THE ISLAND OF ASSUMPTION, ONE OF THE MARIANAS OR LADRONES-DESCRIPTION AND TRUE PLACE OF THIS ISLAND, BOTH IN LATITUDE AND LONGITUDE -ERROR IN THE ANCIENT CHART OF THE MARI-ANAS-WE DETERMINE THE LATITUDE AND LON-GITUDE OF THE BASHEE ISLANDS-WE ANCHOR IN THE HARBOUR OF MACAO. DOUTED TUTUO

THE part of the great ocean we had to crofs, in order to reach Macao, is almost unknown, and afforded us an expectation of meeting with some undifcovered islands. The Spaniards, who alone frequent it, have no longer that ardour for discove-Q 4 rics,

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ries, which their thirft of gold perhaps first excited, but which induced them to encounter every danger. To that ancient enthulialm have fucceeded the frigid calculations of fecurity; and their track, during their run from Acapulco to Manilla, is confined within a fpace of twenty leagues, between the thirteenth and fourteenth degree of latitude. On their return they nearly run on the parallel of the fortieth degree, by the affiftance of the wefterly winds, which are very frequent in these parts. Certain, from long experience, of not meeting with either funken rocks or fhoals, they can navigate by night with as little precaution as in the feas of Europe; and their runs being more direct, become fhorter, and the interests of the owners less exposed to loss by fhipwreek.

The object, however, of our voyage being to make new difcoveries, and to advance the progrefs of navigation in feas as yet but little known, we avoided the moft frequented tracks with as much care as the galleons employ to keep, as it were, in the very wake of the veffel that preceded them. We were, however, obliged to navigate within the latitude of the trade winds, as we could not expect, without their aid, to arrive at China within fix months, fo as to accomplifh the ulterior objects of our yoyage.

On leaving Montercy, I intended to direct my courfe to the S. W. as far as the latitude of 28°, in which parallel fome geographers have placed the ifland of Nucfra Senora de la Gorta. All my refearches to know what ancient navigator first difcovered this ifland, were unfuccessful. I repeatedly turned over my own notes, and all the printed voyages on board of both our fhips, but I found neither a hiftory nor a legend of this pretended ifland, to which I imagine geographers have continued to give a place in the great ocean, merely in conformity to the chart taken by Admiral Lord Anfon on board the galleon from Manilla 7.

* See note on pages 85 and 86.

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At Monterey I had procured a manufcript Spanific chart of this ocean; which however differs but very little from that engraved under the direction of the editor of Anfon's voyage. And it may be afferted, that fince the capture of the galleon from Manilla by that admiral, and even for the laft two centuries; no advances have been made in the knowledge of this fea, except in confequence of the fortunate diffeovery of the Sandwich iflands; the Refolution and the Diffcovery being the only thips, except the Bouffele and the Aftrolabe, which, for 200 years, have quitted the track purfued by the galleons *side of the fortunate

We were detained two days, in fight of Monterey. by contrary winds and calms, but they foon fettled at N. W. and lendbled me to get into the latitude of 28°, on which parallel I proposed to run down 500 leagues, as far as the longitude affigned to the ifland of Nuchran Senoral de la Gorta de les indeed with a hope of meeting with that ifland, than to expunge it from our charts, becaufe it would be defirable for the interests of navigation; that illands, whole latitude and longitude are erroneoufly claid down; thould remain in oblivion or totally unknown, till accurate obfervations, at leaft, of latitude have given the line of their true place, thould no observations of longitude have admitted of determining the precife point they occupy on the furface of the globe. I intended afterwards to incline towards the S. W. and to crois the track of Capt. Clerke, in the 20th degree of latitude, and the 179th degree of E. lon+: gitude, from the meridian of Paris; which is nearly the fpot where this English captain was obliged to quit that track, in otder to reach Kamtichatka +. mile and the wite a rate in a court of the second ATTE I Strengt -My.

Admiral Anton and various buccancers, having no object
 but to make captures, have always followed the common track.
 † Captain Clerka determined, after leaving the Sandwich Islands,
 to run along the parallel of 20 deg. as far as the meridian of Clerka always and buccancers, having no object.

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My run was at first very fortunate. The wind changed from N. W. to N. E. and I doubted not we had got into the region of the periodical winds; but from the 18th of October they shifted to the westward, and continued as obstinately in that quarter as in the high latitudes, only varying from N. W. to S. W. I struggled against these obstacles eight or ten days, taking advantage of every variation in the wind to get to the westward, and thus at last get into the longitude I proposed.

We had, during that time, almost continual rains and ftorms, which caufed an extreme humidity in the between-decks, and drenched all the failors clothes: I much feared the foury would be the confequence of this bad weather; but we had only a few degrees to run to arrive at the meridian I wished for ; I reached it on the 27th of October. We had then no figns of land, but two birds of the coulon-chaud kind *. which were caught on board the Aftrolabe, and thefe were fo lean, that it feemed extremely probable they had loft their way for a long time out at fea, and might come from the Sandwich Islands, from which we were but 120 leagues. The ifland of Nueftra Senora de la Gorta being laid down on my Spanish map 45 miles more to the foutbward, and five degrees more to the eaftward, than upon Admiral Anfon's chart. I fhaped my course to pass this second point, though with no better fuccess. The westerly winds still continuing to blow in these seas, Lendeavoured to approach the tropic, in order at length to meet with the trade winds, which would carry us into Afia, and

Kamtichatka; becaufe that track being unfrequented, he hoped to make difcoveries there. He did not alter his courfe till the 30th March, 1779, when he was in 180 deg. 40 min. E. long. or 170 deg. 20 min. welt of the meridian of Greenwich, which gives 178 deg. 20 min. E. long. from that of Paris.—French Editor. * Thefe are a marine bird, better known by the name of fea-larks. whofe

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tain the we had voyage, menced had ftill gation d ging rei months our run were fc almost e fuits on demand cordage ftill ver jected n On th 2' W. noddy, rally go fore fto night ; fight of leagues, we flatt Imag

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whole temperature feemed more calculated to maintain the fhips companies in good health. It is true we had not as yet one fick man on board, but our voyage, though already very long, was fcarcely commenced, it compared with the immenfe fpace we had still to pais over. If the vast plan of our navigation difheartened no man, yet our fails and rigging reminded us every day, that we had been 16 months conflantly at fea; for at every inftant fome of our running ropes were breaking, and our fail-makers were fearcely fufficient to repair our fails, which were almost entirely worn out. We had, it is true, other fuits on board, but the length of our intended voyage demanded the firsteft economy, and almost half our cordage was already unferviceable, though we were ftill very far from having accomplished half our projected navigation. to be a set log of a set offer

On the 3d November, in 24° 4' N. lat. and 165° 2' W. long. we were furrounded by birds of the noddy, man-of-war bird, and tern kinds, which generally go but a little way from the land. We therefore flood on with more caution, fhortening fail at night; and in the evening of the 4th November, got fight of an ifland bearing weft, diftant four or five leagues, which, though it appeared inconfiderable, we flattered ourfelves was not alone.

I made the fignal to keep clofe to the wind, and to ftand off and on all night, waiting with the greateft impatience for day-light to purfue our difcovery. At five in the morning of the 5th November, we were but three leagues from the ifland, and I borc away right before the wind to reconnoitre it. I hailed the Aftrolabe to make fail a-head and prepare to anchor, in cafe the coaft fhould afford an anchorage and a creek where we might land.

This ifland, which is very fmall, is almost a mere rock, about 500 toifes long, and at most 60 high; and though totally destitute of trees, it is furnished

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ed with a great deal of herbage towards its fummit. The naked rock is covered with the dung of birds, and appearing white, forms a contraft with the various red fpots where grais has not grown. I approached it within a mile, and its fhores were as perpendicular as a wall, the fea breaking violently againft it in every part, fo that it was impoffible to attempt a landing. As we went almost round this ifland, we laid it down with great precifion. Its latitude and longitude, as determined by M. Dagelet. are 23° 34' N. and 1669 52' W. from Paris. I named it I/le Necker. If the fterility of this ifland renders it of little importance, its precife place is extremely interefting to navigators, to whom it might otherwife be fatal. I paffed very near its fouthernmost thore without founding, to avoid stopping the fhip's way. Breakers appeared on every part of the fhore, except the S. E. point, where was a fmall ridge of rocks that might extend two cables' length. Wifhing to know, before we continued our route. whether we could firike ground, I founded, as did the Aftrolabe, who was near a league to leeward. when on board each thip we only found 25 fathoms. over a bottom of broken thells. M. de Langle and myfelf were far from fuppoing there was to fmall a depth of water, and I thought it evident that Necker Island is now but the fummit or nucleus of a much more confiderable ifland, which the fea has, by degrees, washed away, becaufe in all probability confifting of a tender fubftance, or eafily broke away; though the rock which now remains is very hard, and will equally defy, for fucceeding ages, the filent mouldering of time and the boilterous efforts of the fea. As it was important we should ascertain the extent of this bank, we continued founding on board each fhip, and fleering to the westward. The depth encreased gradually as we got further from the land; and, at about ten miles diffance, a line of 150 fathoms did not reach the

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ls its fume dung of ntraft with grown. I res were as g violently poffible to round this m. Its la-M. Dagen Paris. I this ifland place is exn it might fouthernopping the part of the is a fmall es' length. our route. ed, as did b leeward. 5 fathoms, e and myall a depth ker Island more cones, washed f a tender ock which defy, for time and as imporbank, we d fteering dually as bout ten not reach the

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the ground. Throughout this fpace of ten miles we only found a bottom of coral and broken fhells.

The whole of that day we had men continually looking out at the maît-head. The weather was fqually and rainy, though from time to time we had very clear intervals, during which we could fee ten or twelve leagues. At fun-fet it was as fine as poffible in every quarter, and we faw nothing all around except birds, whole number had not diminifhed, flights of feveral hundreds croffing each other's track, and thus baffling our obfervations, regarding the point of the horizon to which they directed their courfe.

We had fo fine a view at dufk, and the moon; which was almost at the full, afforded fo ftrong a light, that I thought we might fafely ftand on. In fact I had perceived in the evening Necker Island at four or five leagues diftance. However, I ordered all the fludding fails to be taken in, and to reduce the way of both thips to three or four knots an hour. The wind was eafterly and we were fteering to the westward; nor had we had a finer night, or a fmoother fea, fince our departure from Monterey: but this very fmoothnefs of the weather was nearly fatal to us. About half paft one in the morning we perceived breakers at two cables' length a-head of our fhip, but the fea being fo finooth they fearcely made the least noise, and only broke at long intervals, and very flightly. The Aftrolabe perceived them at the fame time; being a little farther diftant from them. We put our helm hard a-ftarboard both at the fame moment, and food to the S.S.E. and as we made head-way during this manœuvre, I think we cannot reckon our diftance from these breakers above a cable's length. I then founded, finding nine fathoms water over a rocky bottom, and foon after 10 fathoms, and then 12 fathoms; and a quarter of an hour afterwards we did not ftrike ground with a line of 60 fathoms. Thus did we cicape the most imminent danger that navigators could

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could encounter. It is a duty I owe to my crew to declare, that I never faw lefs diforder or confusion in fimilar circumftances. The finalleft neglect in the performance of the manœuvres to be made, in order to get clear of the breakers, would have been inevitably fatal. We perceived the continuation of these breakers near an hour, when they ran out to the westward, and at three o'clock we lost fight of them. However, I continued ftanding to the S.E. till break of day, which was very fine and very clear : and we then faw no breakers, though we had only run five leagues fince we had changed our courfe. I am perfuaded, that had we not more particularly reconnoitred this rock, we fhould have left many doubts concerning its exiftence; but it was not fufficient to be certain of this, or to have escaped the danger; I was defirous no future navigator should be exposed to it. I therefore made the fignal, at day-break, to put about, in order again to find it. We perceived it at eight in the morning bearing N. N. W. when I crowded fail to near it, and foon perceived an iflet or fplit rock, of 50 toifes diameter at most, and 20 or 25 high. It was fituated at the N.W. extremity of this fhoal, whofe S. E. point, on which we were fo near being loft, extended above four leagues in that direction. Between the iflet and the breakers towards the S. E. we faw three fand-banks. not more than four feet above the furface of the fea. They were feparated from each other by a kind of greenifh water, which appeared to be not above a fathom deep. Some rocks even with the water's edge, on which the fea broke violently, furrounded this fhoal, as a ring of diamonds furrounds a medallion, and thus defended it from the fury of the fea. We failed along it, at lefs than a league diftance, to the eastward, to the fouthward, and to the westward. The north fide alone remained unexplored, as we had only a bird's eye view of it from the mast-head. Thus, it is possible, it may be much more extensive

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ny crew to infusion in et in the , in order been ineuation of an out to t fight of the S.E. ery clear : had only ourfe. I ularly reny doubts fficient to langer; I e exposed break, to perceived W. when d an iflet , and 20 extremiwhich we r leagues he breakinks, not the fea. kind of above a ' water's rrounded ls a mey of the gue difd to the nexplorfrom the ach more extensive

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extensive than we imagined; but its length from S. E. to N. W. or from the extremity of the breakers, that had been nearly fatal to us, to the iflet, is four leagues. The geographical position of this iflet, which is the only apparent object, was determined by M. Dagelet to be 23° 45' N. lat. and 188° 10' W. long. It lies W. by N. from Necker Island, diftant 23 leagues. It must not be forgotten that the easternmost point is four leagues nearer. I named this shoal Baffe des Frégates Françaifes, because it was very near being the termination of our voyage.

Having thus determined, with all the precision in our power, the geographical position of this shoal, I directed my course to the W. S. W. I observed that all the clouds seemed to collect in that quarter, and I flattered myself to find at last a land of some importance. A great swell which came from the W. N. W. led me to conclude there was no island to the northward, and I could scarcely persuade myself that Necker Island, and the Shoal of the French frigates did not belong to an archipelago, which might either be inhabited, or at least inhabitable. My conjectures, however, were not realized. The birds foon disappeared, and we lost every hope of meeting with any further object.

I did not alter the plan I had formed, of croffing the track of Captain Clerke in the 179th degree of E. long., and I reached that point on the 16th November. But, although above two degrees to the fouthward of the tropic, we did not meet with those trade winds, which in the Atlantic Ocean only fuffer very flight and momentary variations. For a fpace of 800 leagues, as far as the Marianas, we followed the parallel of 20° with winds almost as variable, as those met with in June and July, upon the coasts of France. The N. W. winds, which made the fea rife, veered to the northward, and then to the N. E.; the weather becoming clear and very fine. They foon fhifted

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fhifted to the E. and S. E. The fky was then watery and dull, and it rained very hard. Some hours after, when the fame wind had thifted to the S. E., then to the W. and laftly, to the N. W. the horizon cleared up. This change continued two or three days, but it did not once happen that the wind came about from the S. E. to E. and to N. E.

I have entered into these particulars of the regularly variable winds at this season, and in this latitude, because they appear to contradict the theory of those, who explain the constancy, and the regularity of the winds between the tropics, by the rotatory motion of the earth. It is very extraordinary, that on the most immense fea of the globe, and in a space, where the reaction of the land can have no influence, we should find variable winds for near two months, and that they should be continually easterly only in the neighbourhood of the Marianas 4. Though

* If the caufe of the trade winds is uncertain, the knowledge of their existence, and the period when they blow is not the lefs important and useful to navigators. But a certain rule cannot be laid down, till the South Sea has been repeatedly traverfed in all feafons. The voyages, however, that have hitherto been made, prove that the eafterly winds reign on the feas defcribed by La Pé. roufe. A reference to the tables of the route in Cook's third voyage, will prove their conftancy, during the months of March, April, &c. If Clerke changed his course fooner, he did not intend to do fo, and it was not in confequence of the change of the winds, for as foon as they blew from the fouthward, he took advantage of them to run to the northward. Captain King thus expresses himself on the constancy of the winds. " During the continuance of the light winds, " which prevailed almost constantly ever fince our departure from " the Sandwich Iflands."---- And in the following page, he fays, " On the 6th of April, at noon, we loft the trade wind."

On comparing Dixon's journal with his table of the route, it appears that he left Atoui the 18th September, and arrived at Macao on the 18th November, having in 52 days of navigation, between the equator, and the 13th degree of N. lat. run 88 degrees of longitude, with only one day of fouth wind : all the reft of the time the wind continued eafterly.

"Our Capilla judged it more prudent to fleer to the fouthward, " till we were in about 13 deg. 30 min., and then bear away to the Logitation " weft-

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wledge of ne lefs imcannot be rfed in all en made, by La Pé. rd vovage, April, &c. to fo, and r as foon em to run h the concht winds, ture from he fays,

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uthward, ay to the " weft-

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Though we only purfued one track upon this ocean. this is not a fact entirely infulated, for our run continued near two months.

I agree, however, that we ought not hence to conclude, that the zone comprehended between the northern tropic, and the 19th degree, is without the limits of the trade winds in the month of November One fingle voyage is not fufficient. and December. to change received opinions, but we may affert, that the laws on which they are founded, are not fo univerfal, as to admit of no exceptions, and confequently, that they may be explained by those, who think they have penetrated into the fecrets of nature.

Even the theory of Halley concerning the variation of the magnetic needle, would have appeared totally undeferving of confidence, even in the eyes of its inventor, had that aftronomer, fo juftly celebrated in fo many various ways, departed from Monterey in 124° W. long., and croffed the great ocean as far as 160° E. long.: for he would then have perceived, that in a fpace of 76°, or more than 1500 leagues, there is a difference in the variation of only five degrees, and that confequently the navigator cannot draw any conclution from it to determine or rectify his longitude. The method, however, by lunar observations, particularly when combined with that of the time-keepers. leaves fo little to be done in this refpect, that we made Affumption Ifland, one of the Marianas, with the greatest precision, in the supposition that the island of Tinian, of which Captain Wallis has given the place

" westward, as that track was most likely for a true trade, and it had " been found in Captain Cook's last voyage, that in the latitude 20 " and 21 deg. to leeward of these islands, the winds are at best but " light, and often variable .- Dixon's Voyage, p. 281.

"From the 22d October to the 31ft, we had little variety. A con-" ftant easterly trade wind caufed a heavy fwell, &c .- idem, p. 285. Here then is an additional proof, that the trade winds reign between these parallels, during the months of September, October, and November .- French Editor. R Vol. I.

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according to his observations, lay nearly south of Affumption; a direction which all geographers, and navigators have agreed in affighing to the Ladrones or Marianas. We made these islands on the 14th December at two in the afternoon. I had shaped my course to pass between the island of Mira, and that of Deferta, and Garden Island, whose empty names occupy places on the chart, where no land ever existed; thus deceiving navigators, who will, perhaps, hereafter meet with them several degrees to the northward or fourthward. Allumption Island itself, which forms a part of this well known cluster, of which we have a history in several volumes, is placed in the Tefuits' chart (fince copied by all other geographers) 30' too much to the northward. Its true place is TO' 45' N, lat., and 1430' 15' E, long.

As we faw from our anchoring place Mangs bearing 28° welt, diffant about five leagues, we found that the three rocks of that name are allo placed 30' too much to the porthward; and it is almost certain the fame error exists with regard to Uracas, the last of the Mariana Illands, of which the archipelago should only extend as far as 20° 20' N. lat. The Jettits have pretty accurately appreciated their diftances from each other, but they have made very bad altronomical observations in this respect. Nor have they been happier in fixing the fize of Affumption Island, for which they had probably no other method than their reckoning. For though they deferibe it as fix leagues in circumference, the angles of our furvey reduce it to half that extent ; its highest

* I have already advanced in the notes on pages 24, 31, and 35, that we are not authorifed, and that it would even be dangerous to expunge from our charts, every ancient difcovery, for which fome pavigator may have fought in vain. An additional proof of this affertion, is afforded by Captain Marthall, who returning from Botany Bay to Macao, in 1788, met with Garden Ifland, or Tha de los Jardines in 21³/₄ deg. N. lat. and 148¹/₄ W. long, from the meridian of Paris.—French Editor.

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point being about 200 toifes above the level of the fea-It would be difficult for the most lively imagination to paint a more horrid place, though the most ordinary aspect after follong a run would have been delightfol to us : but a perfect cone, whole surface, as far as 40 toifes above the level of the fea was as black as coal, could only excite painful fentations, by chilling every flattering hope : for during many weaks pail, we had anticipated the turtles and cocoa nuts, in which we hoped to luxuriate on one of the Mariana iflands.

In fact we perceived fome cocoa-nut trees, which occupy fearcely a fifteenth part of the circumference of this ifland, for a depth of 40 toifes, and which were in a manner concealed and fheltered from the east wind. This was the only part of the island where it was poffible to anchor, the depth of water being 30 fathoms over a bottom of black fand, which extends lefs than a quarter of a league. The Aftrolabe had gained this anchoring place, I had also come to within pistol thot of her; but having drove half a cable's length, our anchor loft its hold, and we were obliged to weigh it again with 100 fathoms of cable out, and make it wo boards to get in with the land. This little accident gave me not much uncafinefs, as I perceived the fland did not merit a long flay. My boat was . gone afhore under the command of M. Boutin, lieytenant de vaisseau, as well as that of the Aftrolabe, in which M. de Langle went himfelf, together with Meffrs. de la Martinière, Vanjuas, Prévoft, and Father Receveur. I observed, by the help of my glass, that they had great difficulty in landing as the fea broke every where; but they had taken advantage of a fmooth interval, by leaping into the water up to their necks. I was fearful they would find full greater difficulty in re-embarking, as the furf might increase every moment. This was the only circumfance that could induce me to anchor there, for we were all now as anxious to depart, as we had been R 2

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been ardently defirous to arrive. I was therefore very happy to fee our boats return at two o'clock. and the Aftrolabe got under way. M. Boutin informed me the island was a thousand times more horrible than it appeared at a quarter of a league diftance." The lava that had flowed from it has formed precipices and hollows, bordered with a few funted cocoa-mut trees, very thinly feattered, and mixed with limes, and a finall number of plants, among which it is almost impossible to go 100 toifes in an hour. Fifteen or fixteen men were employed from nine in the morning till noon in bringing about 100 cocoanuts to the boats, though they had only to pick them under the trees; for they found the greatest difficulty in carrying them to the fea-fide, notwithflanding the diftance was very fhort. The lava which had iffued from the crater, had covered the whole circumference as far as a border of about 40 toiles towards the fea. The fuminit appeared in a manner vitrified, but refembling black glafs of the colour of foot. We never perceived the termination of the fummit, which was capped with clouds. Although we faw no fmoke, the fulphureous fmell, which extended half a league out to fea, led me to suspect it was not entirely extinguished, and that its last eruption was possibly not very ancient; for there appeared no trace of decomposition in the lava on the middle of the mountain. Every thing flowed that no human creature, nor even a quadruped, had ever been unfortunate enough

to have this ifland for its home. We faw nothing but crabs of the largeft kind, very dangerous during the night to the weary traveller who fhould refign himfelf to fleep. One of them was brought on board. It is probable this fhell-fifth has driven away from the ifland the fea-birds, who always lay on fhore, and whofe eggs they would devour. We only faw three or four noddies at the anchoringplace : but when we approached the Mangs, our fhips were

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were furrounded with in umerable flights of birds, On Aflumption Island M. de La gle kil Jone fembling a black-bird, and of the fame Calour, but it was not added to our collection, as it fell down a precipice. Our naturalists found, in the hollows of rocks, fome very fine shells; and M. de la Martinière made an ample harvest of plants, bringing on board three or four species of the banana-tree, which I had never feen in any country. We did not perceive any other fifth than a red ray, fome fmall fharks, and a fea ferpent, which might be three feet long, and three inches thick. The 100 coeoa-nuts, and the fmall quantity of fpecimens of natural hiftory we had to rapidly inatched from the volcano, for fuch is the true description of the island, had exposed our boats and crews to confiderable dangers. M. Boutin, obliged to throw himfelf into the fea, both to get on fhore and to re-embark, received feveral wounds in his hands, having been neceffitated to lean on the fharp rocks with which the ifland is fkirted. M. de, Langle alfo ran fome rifks, but thefe are unavoidable in landing in fuch fmall islands, and particularly those to circular in their form. The fea, which comes from to windward, glides along the fhore, and forms, at every point, a furf which renders debarkation extremely dangerous. 11 . 14.

Fortunately we had a fufficiency of water till our arrival in China; for it would have been difficult to take it in at Affumption Ifland, even fhould it afford any. Our adventurers perceived none, except in the hollows of fome rocks, where it was preferved as in a bowl; nor did the most confiderable of these contain more than fix bottles.

At three o'clock, the Aftrolabe having got under fail, we continued our courfe W. by N., ranging along the Mangs, which bore from us N. E. by N. diftant three or four leagues. I was defirous of determining the position of Uracas, the northernmost of the Maria-

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DA PEROUSE'S VOYAGE

nas, but we mult have factificed a night, and I way anxious to reach China, left the European fhips fhould be failed before our arrival. By them I ardently wifned to fend home to France, an account of our labours on the coaft of America, as well as of our voyage to Macao; and, therefore, that we might not lofe a moment, I flood on under a crowd of fail.

Both our thips were furrounded, during the night, with innumerable flights of birds, apparently inhabitants of the Mangs and Uracas, which are mere rocks. It is evident there birds do not go to a distance from them, but to leeward; for we fearcely faw any to the eaftward of the Mariana, and they accompanied us 50 leagues to the weftward. The greatest number of these were a species of man-of-war birds and noddles, with fome gulls, terns, and tropical birds. We met with firong breezes in the channel that separates the Marianas from the Philippine Hlands, a very heavy fea, and currents, that fet us constantly to the fourthward : their drift may be effimated at half a knot an hour. My thip now made a little water for the first time fince our departure from France, which I attributed to fome of the oakum in the feams near the water line having rotted. Our caulkers, who, during this run, examined the thips fides, found feveral feams almost open, and they fuspected those hear the water to be in the fame state. They had fiot been able to repair them at fea, but it was their first buliness on our arrival in the road of Macao.

On the 28th we faw the Bafhee Iflands, * of which Admiral Byron has laid down the longitude, though inaccurately; that of Captain Wallis being nearer the truth. We paffed at a league diffance from the northernmoff rocks. They ought, however, to be called *Mers*, notwithflanding the authority of Dam-

The Baffree or Bachi Iflands, were fo named by William Dampier from an intoxicating liquor drunk there in great abundance. French Educe.

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pier, for the fmalleft of them is half a league in circumference; and although it is not wooded, we faw many herbs on the east fide of it. The east longitude of this islet was determined when bearing fouth of us, diffant three miles; and according to a mean of above 60 fets of lunar observations, taken in the most favourable cirumstances, was fixed at 119° 41', and its latitude at 21° 9' 13" N. *. M. Bernizet also delineated the relative fituation of all these islands, and drew a plan of them, which was the result of above 200 bearings. I did not propose to put in there, the Bashee's having been already repeatedly visited, and there being nothing interesting to invite us.

Having therefore determined their pofition, I continued my courfe towards China, and on the first of January, 1787, I struck ground in 60 fathoms water. The next day we were furrounded by a great pum_{T} ber of fishing-boats, which kept the fea in spite of bad weather, but could not divert their attention to_T wards us for a moment, the nature of their fishery not permitting them to turn aside to come along fide of a ship, while dragging along the ground nets of an extreme length, that could not be raised in two hours.

On the 2d of January we faw White-rock, and anchored at night to the northward of Ling-ting, and the next day in the road of Macao; after having paffed a channel, which, though very fafe, I believe to be but little frequented. We took Chinese pilots on board within the island of Lamma.

* I think it neceffary to apprife navigators, that these pretended rocks are small islands, because that erroneous name led me into an error during several hours.

† Navigators who wift to know this channel, ought to procure Dalrymple's chart, publified in the Neptune of Daprès. We left the great Lema, the illands of Ling-ting, Chichow, Laf-fam-mee, Long-fhitow, and Chang-chow, to the fouthward; and to the northward only the illand of Sockochow, and the great illand of Lantao.

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ARRIVAL AT MACAO-STAY IN THE ROAD OF TYPA-POLITE RECEPTION OF THE GOVERNOR-DESCRIP-TION OF MACAO-ITS GOVERNMENT-POPULA-TION-AND RELATION WITH CHINA-DEPARTURE FROM MACAO-OUR LAND-FALL IN THE ISLAND OF LUCONIA-UNCERTAINTY OF 'THE SITUATION OF THE BANKS OF BULINAO, MANSILOQ, AND MARI-VELLE-WE ENTER THE BAY OF MANILLA BY THE SOUTH CHANNEL, HAVING TRIED THE NORTH IN VAIN-MARKS FOR WORKING INTO THE BAY OF MANILLA WITHOUT DANGER-ANCHORAGE AT CAVITA. Sec.

THE Chinefe, who had piloted us into Macao. refuled to conduct us to the anchorage of Typa, fhowing the greatest anxiety to get away with their boats; and we have fince learned, that had they been feen, the mandarin of Macao would have demanded of each of them half the money they received; a fort of contribution which is generally preceded by feveral found baftinadoes. This nation, whole laws are to panegyrifed in Europe, is perhaps the most miserable, the most oppressed, and the most arbitrarily governed people on the face of the earth; at leaft if we may judge of the Chinefe government by the defpotifm of the mandarin of Macao.

The weather, being very cloudy, had not yet permitted us to diffinguish the town; but it cleared up at noon, when it bore W. 1º S. diftant about three leagues. I then fent a boat afhore, under the command of M. Boutin, to apprize the governor of our arrival, and to inform him we proposed making fome ftay in the harbour, in order to procure refreshments, and give repose to our ships' companies. Senhor Bernardo Alexis de Lemos, governor of Ma[1787.

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cao, received that officer with the greatest politeness, and offered us every affistance in his power, fending immediately a Malay pilot on board to carry us to the anchorage of Typa. We got under fail the next day at day-break, and dropped anchor at eight in the morning, in three and a half fathoms water over a muddy bottom, the town of Macao, bearing N. E. distant five miles.

· We anchored alongfide a French fhip armed en flûte, commanded by M. de Richery, enseigne de vaisseau. This thip came from Manilla, and was ordered by Meffrs. d'Entrecasteaux and Coffigny to cruize off the eaftern coafts to protect our trade. Thus, after an interval of 18 months, had we the pleafure of meeting, not only with our countrymen, but even our friends and acquaintance. M. de Richery had. the preceding evening, come on board with the Malay pilot, bringing us a confiderable quantity of fruits, vegetables, fresh meat, and, in a word, every thing he imagined would be agreeable to us, after fo long a voyage. Our healthy appearance feemed to furprize him, and he informed us of the political transactions of Europe, whose situation was precisely the fame as at our departure from France; but all my enquiries at Macao, for fome one who might have any packets for us were in vain. It was more than prohable, no letters addreffed to us had arrived in China, and we felt a painful alarm left our families and friends had forgotten us. But unhappy circumfances render men unjust; and it was possible the letters, we fo feverely regretted, might have been fent on board the Company's thip that had loft her voyage. Her confort had arrived alone, and it appeared by the captain's information, that the greatest part of the funds and all the letters had been put on board the other fhip. The misfortunes that had prevented the arrival of this thip, did not perhaps give fo much pain to the ftockholders themfelves as we experienced

experienced at this difappointment; nor could we avoid remarking that of twenty-nine English thips. five Dutchmen, two Danes, a Swede, two Americans, and two French, the only one that loft her voyage was from our own country. As the English never entrust their ships but with thorough bred feamen, fuch an event to them is almost unheard of. Even when they arrive in the feas of China fo late as to find the N. E. monfoon fet in, they obftinately ftruggle with this opponent, and often get to the eaftward of the Philippines, and then getting up to the northward in this fea, which is infinitely more extensive and lefs exposed to currents, they return fouth of the Bathee islands, stand in for Piedra Blanca, and, like us, pass to the northward of Great Lema. We ourfelves witnefied the arrival of an English ship, which, after pursuing that track, and chored ten days after in the harbour of Macao, and immediately afterwards went up to Canton *.

My first step, after mooring the ship, was to go on shore with M. de Langle, to thank the Governor for his polite reception of M. Boutin, and to ask his permission to have a station on shore for setting up an observatory, and to accommodate M. Dagelet, who was greatly fatigued with our last voyage, and M. Isollin our surgeon-major, who after preferving us from the feuryy, and all other diforders, by his attention and advice, would himself have such beneath the fatigues of this long run, had we arrived a week later.

Senhor de Lemos received us like countrymen. All we had afked was granted, with a politenefs no language can defcribe. He offered us his houfe, and as he did not fpeak French, his wife, a young Portuguefe from Lifbon, acted as interpreter. She communi-

* D'Entrecaltaux performed a voyage from the Ifle of France to China against the monstoons, croffing the sea by almost unknown tracks, and discovered several rocks not laid down in any chart.— French Editor.

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cated her hufband's replies with a gracefulnefs, and an amiability peculiar to herfelf, and exceeding every thing a traveller might flatter bimfelf with finding in the principal cities of Europe.

Dona Maria de Saldanha had married Senhor de Lemosat Goa twelve years before; and I arrived at that place foon after the nuptials, then commanding La Seine, a fhip armed *en flåte*. She politely reminded me of that circumflance, of which, however, I had a very lively imprefion, kindly adding that I was an old acquaintance. Then calling her children, fhe faid it was thus fhe always prefented herfelf to her friends, their education being the object of all her care : that fhe was proud of being their mother, and that we muft forgive that pride, as the wifhed to introduce herfelf with all her faults.

No part of the world, perhaps, could exhibit a more enchanting picture. The most beautiful children furrounding and embracing the most charming of mothers, whose goodness and sweetness diffused a general warmth of colouring over every thing around her.

We foon perceived that, added to her accomplifiments and domeftic virtues, the poffetted a firmnefs of character, and an elevation of mind, in confequence of which Senhor de Lemos had, in many fituations of delicacy with regard to the Chinefe, been confirmed in his generous refolutions by his lady ; both of them coinciding in opinion that they ought not, like their predeceffors, to facrifice the honour of their nation to any other object. The administration of Senhor de Lemos would have formed an epocha in that fettlement, had the government at Goa been fufficiently enlightened to continue him longer in office than three years, and left him time to accuftom the Chinefe to a refiftance, obliterated even from their memory for above a century.

An inliabitant of Macao being as much a stranger to

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China as if in Europe, in confequence of the extreme difficulty of penetrating into that empire, I fhall not imitate those travellers who have spoken of it without knowing it, but shall confine myself to a defoription of the commercial relation between the Europeans and the Chinese, the extreme humiliation they experience, the section they receive from the Portuguese settlement on the coast of China, and, in thort, the importance which the town of Macao might posses, in the hands of a nation that would conduct itself with justice, with firmness, and with dignity, against a government, perhaps, the most unjust, the most oppressive, and at the same time, the most cowardly that exists.

The Chinefe carry on a trade with the Europeans amounting to 50 millions, two fifths of which are paid for in filver, and the reft in English woollen manufactures, Batavian or Malaytutenag, Surat and Bengal cotton, opium from Seringatam, fandal wood, and pepper from the Malabar coaft. Some articles of. luxury are also brought from Europe, as the largest plates of glafs, Geneva watches, coral, and fine pearls: but these last scarcely deferve mention, as they can only be fold in very finall quantities, and with little advantage: In exchange for all thefe-riches, China only gives green and black tea, with fome chefts of raw filk for European manufactures: for I do not reckon the porcelain, brought home as ballaft, or the filks, which produce fearcely any profit. Certainly no nation carries on fo advantageous a trade with foreigners, imposes conditions fo hard, or multiplies reftraints and vexations in fo many various ways. Not a cup of tea is drunk in Europe, which has not occasioned fome humiliation to its purchasers, its fhippers, and those who traverse half the globe to bring this leaf to our markets.

I cannot here refrain from relating, that two years ago, an English gunner being ordered by his Captain

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tain to fire a falute killed a Chinefe fisherman in a fampane, which lay imprudently in the range of his gun, and which the former could not perceive. The Santock, or Governor of Canton demanded the gunner to be delivered up, which was not complied with, till he promifed no harm should be done to him, adding, that he was not fo unjust as to punish an involuntary homicide. On this affurance the poor fellow was given up, and two hours after was hung. The honour of the nation required a prompt and exemplary vengeance, but merchantthips had no means to enforce it, and the Captains, accustomed to act with precision, good faith, and moderation, in order not to compromife the property of their employers, could not engage in a generous refiftance, which would have coft the Company a loss of 40 millions, by their fhips returning empty; But they whave doubtlefs denounced that injury, and flatter themfelves with the profpect of obtaining fatisfaction. I dare affirm, that all the perfons employed by the different European companies, would joyfully unite in facrificing a great part of their fortunes, to teach these base mandarins, that there are limits to their injustice, and that their enormities have exceeded the bounds of humanity to tolerate.

The Portuguese have more reason to complain of the Chinese than any other nation. Their respectable title to the possession of Macao is well known. The grant of the fite of that city is a monument of the gratitude of the Emperor Camhy, granted to them as a reward for destroying the pirates, who from the islands in the vicinity of Canton, infested the seas and ravaged all the coasts of China. It is a vain declamation to attribute the loss of their privileges to their abuse of them. Their only crime is the feebleness of their government. The Chinese every day load them with new injuries, and every moment increase their pretensions; to which the Portuguese govern-

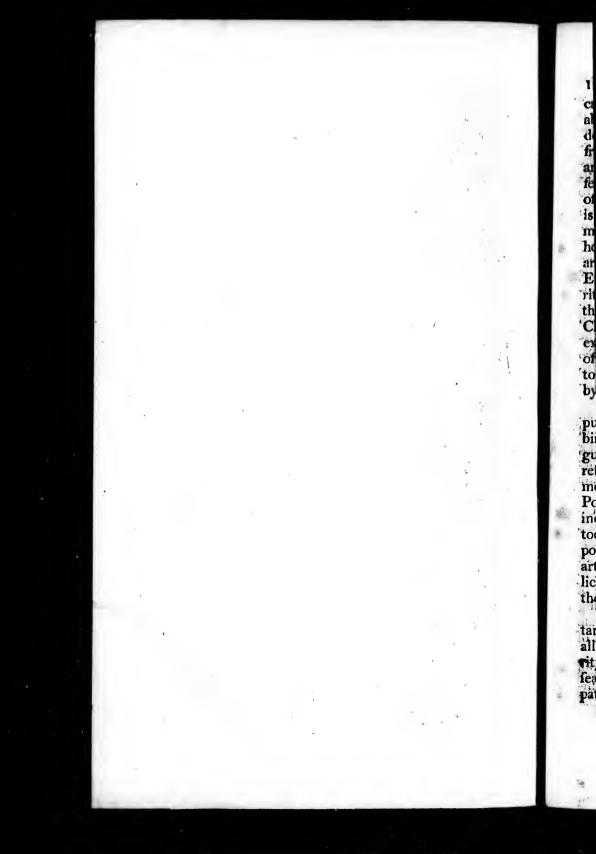
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government never opposed the least refistance; and thus this flation, from which a nation that passified the least energy, might overaw the Emperor of China, is fearcely more than a mere Chinese village, where the Portuguese are tolerated, although patienting an incontestible right to command, and the means to make them felves respected, had they but a gaunion of 2000 Europeans, with two frigates, a new convertes, and a bomb-ketch.

Macao, which is fituated at the mouth of the figris, has a read freed fracious enough to contain 60 gun thips at the entrance of Type, and in its harbour, which is below the town, and communicates with the river up to the caltward, thips of feven or eight hundred tons, with half their lading. According to our observations it is in 229 12' 40" D. lat, and 1119 19' 30" E. long.

The mouth of this harbour is defended by fortrels of two batteries, which mult be kept within pistel flot in entering. Three (mall forts, two of which are mounted with twelve guns, land the third with fix, protect the fouth file of the town from every attempt of the Chinefe. Thefe fortifications, which are in the worft politice thate, would be far from formidable to Europeans, but they may cafily overawe all the maritime forces of the Chinefe. A mountain also commands the coaft, where a detachment of troops would hold out a very long Gege. The Portuguele of Macao, more devout than warlike, bave built a church on the ruins of a fort. which crowned this mountain, forming, at that time, an impregnable post in 1 in vinibir sch hi shushingdi The fide next the land is defended by two fortreffes, one of which is mounted with 140 guns, and capable of containing a garrifon of 1000 men. It is provided with a ciftern, two fprings of running water, and offemates to lay up wanlike ammunition and provisions. The other, which mounts 30 guns, truerry: " cannot





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cannot receive above 300 men, and has a very abundant fpring that never fails. Thefe two cita-dels command the whole country. The Portuguefe frontiers extend nearly a league from the town, and are bounded by a wall guarded by a mandarin and a few foldiers. This mandarin is the true governor of Macao, whom all the Chinese obey, though he is not allowed to fleep within these limits. But he may examine all the fortifications, infpect the cuftomhoufes, &c. and on these occasions the Portuguese are obliged to give him a falute of five guns. But no European can make a fingle flep on the Chinefe territory beyond the wall, and the leaft imprudence of this kind would leave him at the mercy of the Chinefe, who might either keep him in prifon, or exact from him a heavy contribution. Some of the officers of our fhips, however, exposed themselves to this rifk, without this act of levity being followed by any unhappy confequences.

The whole population of Macao may be computed at 20,000, of whom 100 are Portuguefe by birth, 2000 metis, or half Indians and half Portuguefe, as many Caffre flaves, their domeflics. The reft are Chinefe, who employ themfelves in commerce and different trades, by which they lay the Portuguefe themfelves under contribution to their indufiry. These last, although almost all mulattoes, would think themfelves difgraced, if they fupported their families by exercising any mechanic art, though their pride is not above continually foliciting charity, with importunity, from every one they pass.

The Viceroy of Goa nominates to all civil and military offices at Macao, and appoints the Governor and all the Senators, who participate in the civil authotity. He has lately fixed the garrifon at 180 Indian feapoys, and 120 militia men, whole fervice conflits in patroles at night. The foldiers are armed with flicks,

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and the officer alone has the privilege of wearing a fword; though he can on no occasion employ it against a Chinese. Even should a thief of that nation be found breaking the door of a houfe, and carrying away his goods, he must arrest him with the greateft caution; and fhould the foldier, in defending himfelf against the thief, have the misfortune to kill him, he is delivered up to the Chinese governor, and hung in the market place, in the prefence of the guard to which he belonged, of a Portuguese magifirate, and of two Chinese mandarines; who, after the execution, are faluted by the forts as they quit the city, in the fame manner as they are on entering it. But if, on the other hand, a Chinese kills a Portuguefe, he is only configned to the judges of his own nation, who, after having plundered him, perform the other formalities of justice; but fuffer him to efcape, and turn a deaf ear to the remonstrances of this injured nation, which are never followed by any fatisfaction.

The Portuguesc, however, have of late made an effort of vigour, which will be engraved on tablets of brass in the fasti of the Senate. A seapoy having killed a Chinese, they shot him in presence of the mandarines, and refused to submit this affair to the decision of the Chinese tribunal.

The Senate of Macao is composed of the Governor, who is prefident, and three vereadores, who are the auditors of the city finances. The revenue confifts of the duties laid on merchandize, which can only be imported in Portuguese vessels. They are so unenlightened, that they would not permit a ship of any other nation to land their cargo, even on paying these established duties, as if they feared to encrease the revenue of their own treasury, or diminish that of the Chinese at Canton.

It is certain that were Macao made a free port, and had that city a garrifon capable of defending commercial

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mercial property, when deposited there, the revenue of their cuftom-house would be doubled, and would, doubtlefs, be adequate to all the expences of the government. But a trifling intereft oppofes this regulation which found policy fo clearly dictates. The Viceroy of Goa fells Portuguese commissions to the merchants of the various nations who carry on a coaffing trade in the East Indies; and these fame fhip owners make prefents to the Senate of Macao, according to the importance of their voyage; a commercial motive which would be an invincible obftacle to the establishment of a free trade, though Macao would be thereby rendered one of the moft flourifhing cities of Afia, and inconceivably fuperior to Goa, whofe utility to its mother country will never be confiderable.

Next in rank to the three vereadores already mentioned are two Judges of Orphans, whole department includes the administration of the property of minors, the execution of wills, the nomination of tutors and guardians, and, in general, every thing relative to fucceffions. From their decifion lies an appeal to that of Goa.

Other civil or criminal caufes are alfo cognizable, in the first inftance, by two fenators, who are nominated as judges. A treasurer receives the produce of the customs, and pays, under the orders of the Senate, the falaries and diffursements, which, however, when exceeding 3000 piastres, must be fanctioned by an order of the Viceroy of Goa.

The most important magistracy is that of the Procurator of the city, which is an intermediate office between the Portuguese government and that of China. He gives answers to all foreigners who may winter at Macao, and receives and transmits to their respective governments the mutual complaints of the two nations, of which a Secretary, who has no deliberative voice, keeps a register, as also of all the de-Vot. I.

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liberations of the council. This is the only office for life, that of the Governor being triennial, and the other magiftates replaced every year. So frequent a change, which is inimical to every regular fyftem, has contributed not a little to the annihilation of the ancient rights of the Portuguese, and doubtles can only be continued, because the Viceroy of Goa finds his advantage in having many places to give away or fill; a conjecture authorized by the general manners and customs of Asia.

An appeal lies to Goa from all the decifions of the fenate, and is rendered extremely neceffary by the known incapacity of the Senators. The colleagues of the Governor, who is himfelf a man of great merit, are Portuguefe of Macao, and are extremely haughty and conceited, though more ignorant than a country fchoolmafter.

The appearance of this city is extremely pleafant. Among the remains of its ancient opulence are feveral fine houfes occupied by the fupercargoes of the different companies, who are obliged to pass the winter there; the Chinese compelling them to quit Canton as foon as the last ship of their nation has failed, and not permitting them to return till the arrival of ships from Europe in the following monsons.

Macao is rendered a very agreeable winter refifidence by the different fupercargoes, who are generally men of diffinguifhed merit, extremely well informed, and have falaries that enable them to keep an excellent houfe. The object of our miffion procured us the politeft reception from them, for we fhould have been quit forlorn, had we come with no other title than that of Frenchmen, our East India company as yet having no reprefentative at Macao.

We owe a public teltimony of gratitude to M. Elftockenftrom, the principal agent of the Swedifh Eaft India company, whofe behaviour towards us was that of an old friend and fellow-countryman, who warmly

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warmly efpoused the interests of our nation: He was even defirous at our departure to take upon himself the sale of our furs, the produce of which was to be divided among our crews, and he very kindly promised to remit the amount to the life of France.

The value of thefe furs did not now exceed one tenth of the price, when Captains Gore and King arrived at Canton, becaufe the Englifh had this year fitted out fix expeditions to the N. W. coaft of America; two fhips in that trade having failed from Bombay, two from Bengal, and two from Madras. The two laft alone had returned, and brought but a fmall quantity of fkins. But the report of this equipment had fpread at China, and they only obtained 12 or 15 piaftres for the fame quality as in 1780 would have produced 100.

We had 1000 fkins which a Portuguefe merchant had agreed to purchafe for 9500 piaftres; but at the time of our departure for Manilla, when he was to have paid the money, he hefitated to receive them under various frivolous pretexts. As this bargain had deprived us of every other buyer, who were all returned to Canton, he hoped, no doubt, that in this difficulty we fhould accede to any price he might chufe to give; and we had even reafon to fufpect, that he fent fome Chinefe merchants to us, who offered **a** much fmaller fum. But, though unaccuftomed to thefe manœuvres, they were too clumfily contrived not to be feen through, and therefore we pofitively refufed to fell them.

There now remained no other difficulty than that of landing our furs, and depositing them at Macao as an enterpôt. The Senate, to whom our conful M. Vaillard applied, refufed the permission he folicited : but the Governor being informed they were the property of failors employed in an expedition, whose utility extended to all the maritime nations of Europe, thought it his duty to fulfil the views of the Portu-S 2 guese

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guese government, by departing from the prescribed forms, and acted on this, as on all other occasions, with his accustomed delicacy *.

It is unneceffary to obferve, that the Mandarin of Macao made no demand for our ftay in the road of Typa, which, together with the other islands, forms no part of the Portuguese territories. His claim, had he made any, would have been rejected with contempt; but we learned, that he demanded 1000 piastres from the *comprador*, who supplied us with provisions. That sum, however, was but a trifle, when compared with the impositions of this *comprador* \uparrow , whose account, for the five or fix first days, amounted

• Having feized every opportunity impartially to prove the credit due to Dixon, I doubt not the perufal of La Péroufe's voyage will occafion that Captain fome concern, for having accufed our navigators of imposture or of mercantile views. Justice demands that I should repel this calumnious imputation. I shall quote the passage from Dixon's voyage, page 320.

"The L'Aftrolabe and Bouffale, two French fhips, commanded by M. Peyroufe and de Langle, failed from France in 1785; they are faid to have traced the N. W coaft of America, from the Spanifh fettlements of Montrery to 60 deg. of N. lat.; but this feems rather improbable; for though thefe veffels were profeffedy fitted out on difcovery, yet the commanders did not forget that friss were a valuable article, and, accordingly, whilf on the American coaft, they procured about 600 fea-otter fkins, chiefly in pieces of a very inferior quality, and evidently the fame as thofe imported by the Spaniards; whereas, had thefe gentlemen been well in with the coaft to the northward, they undoubtedly mult have met with fea-otter fkins of a quality far fuperior to what they procured."

After observing that La Pérouse trafficked for otter skins, merely in conformity to his orders in Art. ix. of the second part of his instructions, and in order to be furnished with facts in this branch of commerce, on which to found his report, and that he only difposed of them for the benefit of the failors, I shall remark, in contradiction to Dixon's affertion, that this purchase took place at *Port des Français*, in 58 deg. 37 min. N. lat. and therefore La Pérouse was right in afferting that there could not be ten per cent. difference between the skins procured at *Port des Français* and those of Monterey.—*French Editor*.

+ " Every veffel was fupplied with whatever provisions they " wanted,

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amounted to more than 300 piastres; after which, being convinced of his knavery, we discharged him. Our commission of the stream of the stream of the market, as in any town of Europe, to make the neceffary purchases, and then the expense of a whole month did not equal that of the first week.

Probably our æconomy difpleafed the Mandarin : but this was mere conjecture, for we had no communication with him. The Chinefe cuftom-houfes have no transfactions with Europeans, except concerning the articles of traffic, which come from the interior of China in boats of that country, or are embarked in the fame boats to be fold in the interior of the empire. But what we purchased at Macao to be brought on board in our own boats, was not liable to any fearch.

The climate of the road of Typa is at this feafon very changeable, the thermometer varying eight degrees from one day to another, and almoft all of us had fevere colds attended with fever. Thefe, however, yielded to the fine temperature of the ifland of Luconia, which we made on the 15th of February. We left Macao on the 5th, at eight in the morning, with a north wind, that would have enabled us to pass between the iflands, had I had a pilot. But withing to avoid that expence, which is confiderable, I followed the ufual track, and went to the fouthward of the great Ladrone, having taken on board each

" wanted, by an officer called a *comprador*, who always demanded " a *cumfharw* or gratuity of 300 dollars, exclusive of the profit " which would accrue to him from ferving us with provisions.

"A demand of this nature appeared fo very exorbitant, that we determined, if poffible, to avoid it; and a Captain Tafker, from Bombay, whofe veffel lay near ours, kindly offered to furnifh us with beef for the prefent. This, however, could not be done without caution; for we had a *boppo*, or cuftom-houfe boat on each fide of the veffel, with officers on board, who made it a point to prevent any beef coming on board, unlefs furnified by a comprador." Dixon's Voyage, p. 292.—French Editor.

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thip fix Chinese failors, to replace those we had unfortunately lost when our boats were wrecked.

This nation is fo wretched, that, notwithftanding the laws of the empire prohibit quitting the country, we could eafily have engaged 200 men in a week, had we been in need of them.

At Macao our obfervatory had been fet up in the convent of Augustins, where we determined the longitude of that city to be 111° 19' 30" E. by the mean of feveral fets of lunar obfervations. We had alfo verified the rate of our time-keepers, and found that the daily lofs on mean time of No. 10, was 12'36", which exceeded any deviation we had experienced previous to that period. It muft, however, be obferved, that during 24 hours the winding up this time-keeper had been forgotten, and that having thus been flopped, the want of continuity in its motion had probably caufed its derangement. But on the fuppolition, that till our arrival as Macao, and previous to the neglect, of which cknowledge we were guilty, the loss of time by rio. 19 was the fame as that determined at la Conception, this time-keeper would have given 113° 33' 33" as the longitude of Macao, that is 2º 14' 3" more than it really is, according to our lunar observations. Thus the error of the time-keeper, after ten months navigation, would only have been 45 leagues.

The northerly winds now permitted me to get to the eaftward, and I (hould have got fight of Piedra Blanca, had they not prefently fhifted to the E. S. E. The information I had procured at Macao, concerning the beft track to purfue as far as Manilla, had not determined my opinion, whether it was better to go to the northward or fouthward of Banco de Pratas, and I concluded, from the diverfity of opinions on that point, th t one route was as good as the other. The eafterly winds blowing ftrong, determined me to ftand clofe-hauled upon the ftarboard tack, and to direct

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direct my course to leeward of that bank, which is erroneoufly laid down on all the charts previous to the third voyage of Captain Cook. Captain King, having determined its latitude with precifion, has rendered an important fervice to the navigators who go coafting voyages from Macao to Manilla. Formerly they followed, with confidence, the chart of Dalrymple, which M. Daprès has also copied. These two authors, who are fo effimable and accurate when they conftructed plans from their own materials, were not always able to procure the best accounts of individual places, and the fituation of the Prata fhoal, that of the western coast of the island of Luconia, and of the bay of Manilla, are totally undeferving of confidence. As I was defirous to make the ifland of Luconia, in lat. 17°, in order to pass to the northward of the bank of Bulinao, I ranged along the Pratas as near as poffible, and even, at midnight, paffed over the point it occupies on the chart of M. Daprès, who has extended this dangerous fhoal 25 miles too far to the fouthward. The polition he has affigned to the banks of Bulinao, Manfiloq, and Mirabella, are not more exact. An ancient cuftom has taught feamen they have nothing to fear in making their land fall to the northward of 17°, and this observation has appeared fufficient to the governors of Manilla, who have not, during two centuries, found a fingle moment's leifure to fend out a few fmall fhips to reconnoitre thefe dangers, or even to determine their latitude, together with their diftance from Luconia, which we made on the 15th February, in 18° 14'. We flattered ourfelves we should then only have to run down the coaft with north eafterly winds as far as the entrance of the bay of Manilla; but the monfoons did not extend along the land, where the wind was variable between N. W. and S.W. for many days. The currents alfo fet to the northward at the rate of a mile an hour, and till the 19th S 4 February,

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February, we did not advance one league a day. At length the north wind freshening, we failed along the Illoco coaft, at the diftance of two leagues, and faw a fmall two mafted veffel in the port of Santa Cruz, probably taking in a cargo of rice for China. It was impoffible for us to make any of our bearings coincide with the chart of M. Daprès, but our own charts enable us to give the direction of this coaft, which is very little known, though much frequented, We doubled cape Bulinao on the 20th, and on the 21ft made point Capones, bearing eaft, directly in the wind's eye. We made feveral boards to approach it, and gain the anchoring place, which extends but a league from the fhore. We faw two Spanish ships which feemed afraid to open the entrance of the bay of Manilla, from whence the eafterly winds blow with violence, and therefore kept under the lee of the land. We ftretched to the fouthward of the ifland of Mirabella, and the wind having chopped about in the afternoon to the E.S. E., we directed our courfe between this ifland and that of la Monha, entertaining hopes of entering the north channel; But after having made feveral boards in the entrance of it, which fcarcely exceeds half a league in width, we perceived that the currents fet to the westward with confiderable ftrength, and irrefiftibly oppofed our intention. We then determined to put into the port of Mirabella, which lay a league to leeward, in order there to wait either for a fairer wind, or a more favourable current. We anchored there in 18 fathoms water over a muddy bottom, the village bearing N. W. by W., and the Hogs (los Puercos) S. by E. 33° S. This port is only open to the S. W. winds, and there is fuch good holding ground, that I am of opinion, fhips might ride there without the leaft danger, during the monfoons whenever they prevail.

As we wanted wood, which I knew to be extremely dear at Manilla, I determined to país 24 hours at Mirabella,

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Mirabella, to take in a quantity. The next morning at day-break, we fent our long boats ashore, with all the carpenters of both fhips, and at the fame time, I employed our jolly boats in founding the bay, and referved the reft of the crew with the barge, for a fishing party in the creek near the village, which appeared fandy and commodious for hauling the feine, But this was a mere illusion, and we found rocks there and fuch a flat bottom two cables' length from the fhore, that it was impossible to fish there. We derived no advantage from our labour, except fome thorny fea-pies in good prefervation, which we added to our collection of fhells. Towards noon I went ashore at the village, which confists of about 40 houses built of bamboo, covered with leaves, and raifed about four fect above the ground. These houses are floored with fmall bamboos, laid at a diftance from each other, fo as to give these huts the appearance of bird cages. They are afcended by a ladder, and I do not believe all the materials of a houfe, including the roof, weigh 200 pounds.

Opposite to the principal street is a large edifice of hewn ftone, but now almost entirely ruined, where however, we faw two brafs guns at the windows, which ferve as embrafures. We learned that this ruin was the curate's house, the church, and the fort, though these names had not intimidated the Moors of the fouthernmost Philippine Islands, who in 1780 had feized it, burned the village, fet fire to the fort, which they deftroyed, as well as the church and the partonage house, made flaves of all the Indians who had not time to fly, and went off with their captives without the least molestation. This event so terrified the colony, that they dare not now apply to any fpecies of industry. Almost all the land is uncultivated, and this parish is fo poor, that we could only purchase a dozen fowls and a finall pig. The curate fold us a young ox, at the fame time affuring us, it was an eighth

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eighth part of the only herd in the parish, the lands of which are ploughed by buffaloes.

This prieft was a young Indian mulatto, who carelefs of its condition, inhabited the ruin I have defcribed, a few earthen pots and a truckle bed compofing the whole of his furniture. He informed us. that his parish contained 200 perfons, of both fexes and of all ages, who on the least alarm, take refuge in the woods to escape the Moors, who continue to make defcents on the ifland, and are fo audacious, and their enemies fo little on their guard, that they often penetrate to the head of the bay of Manilla. During the flort flay we afterwards made at Cavita, feven or eight Indians were carried off in their canocs, within a league of the entrance of the harbour. We were affured that paffage boats from Cavita to Manilla were often taken by thefe fame Moors, though the paffage is nearly the fame, in all refpects, as that from Breft to Landerneau by fea. They perform thefe expeditions in very light row-boats, and the Spaniards oppofe to them a flotilla of galleys, which are very bad failers, and have never taken any of them.

The next officer to the curate is an Indian, who bears the poinpous title of Alcalde, and enjoys the fupreme diffinction of carrying a filver headed cane. He appears to exercife a high authority over the Indians, none of whom could fell us a fowl, till he granted his permiffion, and fixed the price. He alfo poffelled the fatal privilege of felling for account of the government, tobacco for fmoaking, of which the Indians make a very great and almost continual confumption.' This monopoly has only been established within a few years, and the pooreft of the people can fcarcely bear its oppreffion. It has already given birth to feveral revolts, and I fhould not be furprifed, if it fhould one day produce effects fimilar to those of the taxes on tea and ftamps in North America. We faw

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ho careave deed commed us. h fexes fuge in inue to lacious. hat they Manilla. Cavita, canocs, r. We to Mathough as that perform ind the which any of

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faw at the prieft's three fmall antelopes, which he intended for the Governor of Manilla, and which he refufed to fell us. Nor, had we made the purchafe; could we have hoped to preferve them, as thefe little animals are very delicate, and do not here exceed the fize of a large rabbit. Both the male and female are precifely the ftag and hind in miniature.

In the woods our fportfinen obferved the moft charming birds, variegated with the moft brilliant colours: but thefe forefts are impenetrable, on account of the *lianes*, which climb and interweave among the trees. Their excursion, therefore, was not very productive, as they could only fhoot upon the fkirts of the wood. We purchafed in the village fome *flabbed* turtle-doves; a name originating from a red mark upon their breaft, exactly refembling a wound made by a knife.

At length we re-embarked at dufk, and made every preparation for getting under way the next day. One of the two Spanish ships we had seen on the 23d, at Point Capones, had like ourfelves put into Mirabella, to wait for more moderate weather. I fent to the Captain to afk for a pilot, when he fent me his boat. fwain, an old Indian, who did not infpire me with much confidence. I agreed, however, to give him 15 piastres to carry us to Cavita, and on the 25th at day-break we got under fail, and ftood through the fouth channel, the old Indian affuring us it would be in vain to attempt that to the northward, where the currents always fet to the weftward. Though the diftance from the harbour of Mirabella to that of Cavita is only feven leagues, we were three days making this little run, and came to an anchor every night in the bay, in a good bottom of mud. We had here an opportunity to obferve that M. Daprès's plan is very inaccurate, the ifland of Fraïle, and that of Cavallo, which form the entrance of the fouth channel, being badly laid down there, and in a word the whole is a mere

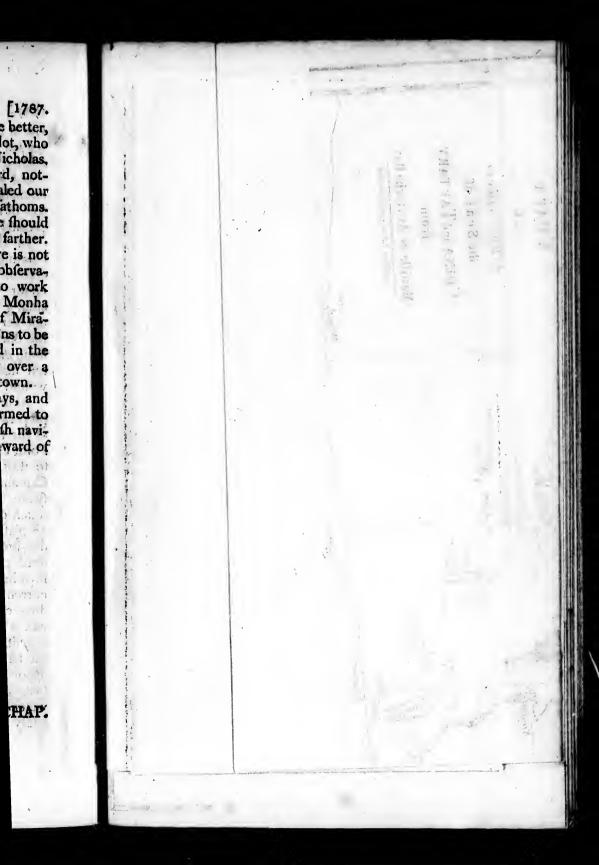
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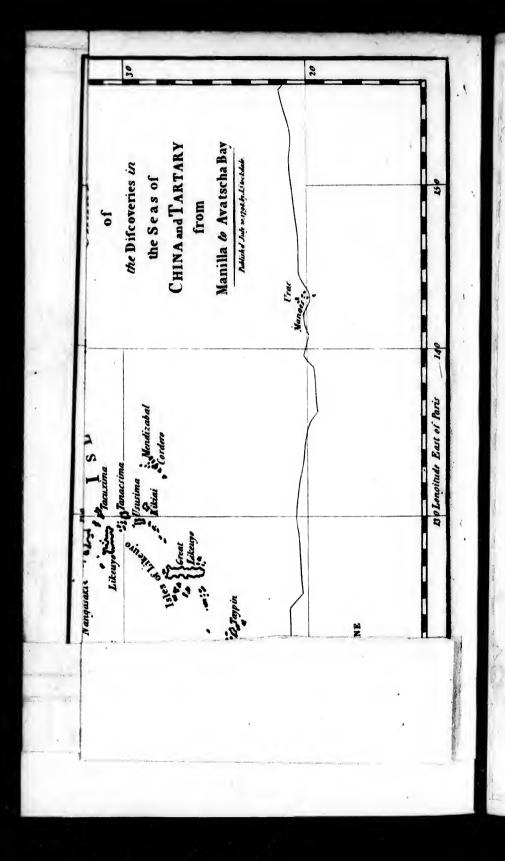
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mere tiffue of errors. But we fhould have done hetter. even to follow that guide, than our Indian pilot, who nearly run us aground on the bank of St. Nicholas. He perfifted in standing on to the fouthward, notwithstanding my representations, and we shoaled our water in lefs, than a minute from 17 to four fathoms. I immediately tacked, and I am convinced we fhould have touched, had we flood on a piftol that farther. The water is fo fmooth in this bay, that there is not the least appearance of the fhoals : a fingle obfervation, however, will render it perfectly eafy to work into it : you must always keep the island of la Monha open with the north channel of the ifland of Mirabella, and put about as foon as this ifland begins to be that in. At length on the 28th we anchored in the harbour of Cavita, in three fathoms water over a muddy bottom, two cables' length from the town. Our run from Macao to Cavita was 23 days, and

would have been much longer, had we conformed to the outform of the old Portuguese and Spanish navigators, and perfilted in passing to the northward of the Prata shoal.

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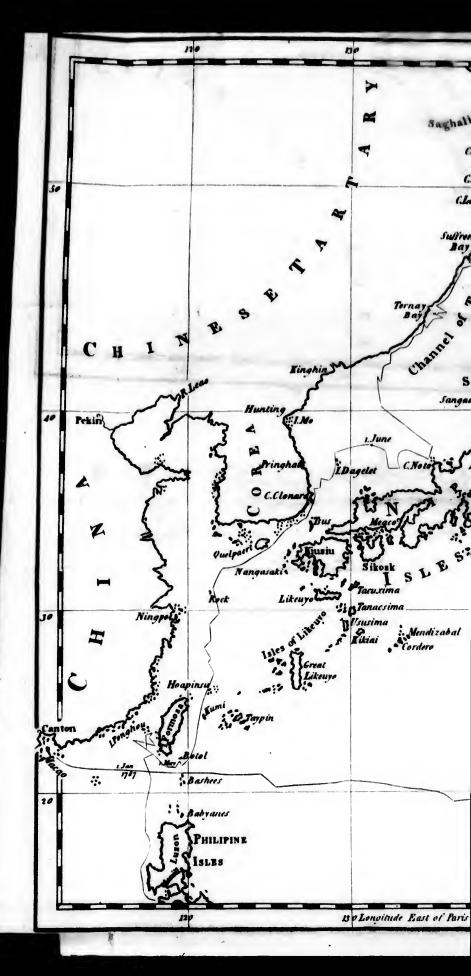
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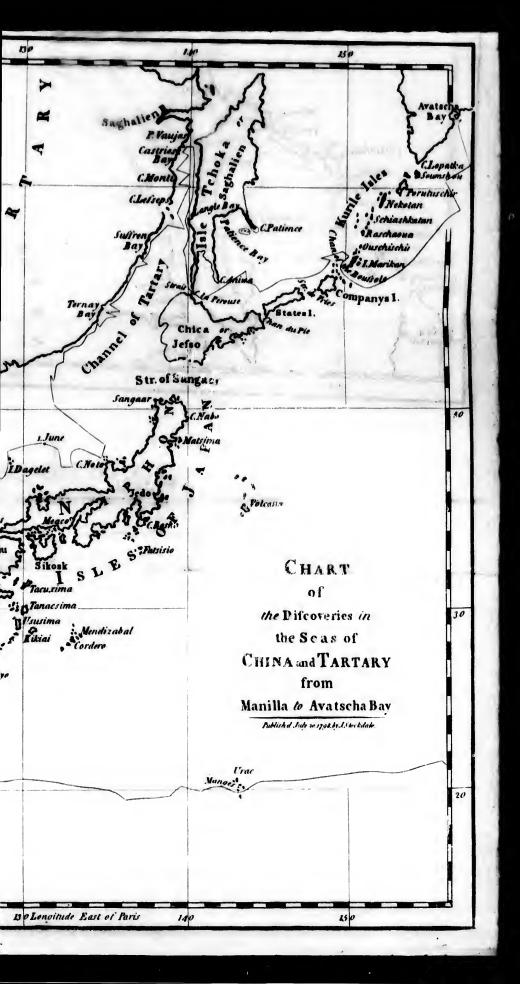
CHAP. XV.

ARRIVAL AT CAVITA-MANNER OF OUR REC BY THE COMMANDANT-M. BOUTIN, LIEUTENANT DE VAISSBAU, IS DISPATCHED TO THE GOVERNOR GENERAL AT MANILLA-RECEPTION OF THIS OFFI-CER-DETAILS RELATIVE TO CAVITA AND ITS AR-SENAL-DESCRIPTION OF MANILLA AND ITS ENVI-RONS-ITS POPULATION-DISADVANTAGES RE-SULTING FROM THE GOVERNMENT THERE ESTA-BLISHED--PENANCES. AT WHICH WE WERE PRE-SENT, DURING PASSION WEEK-IMPOSTS ON TO-BACCO-INSTITUTION OF THE NEW PHILIPPINE COMPANY--REFLECTIONS ON THAT ESTABLISH-MENT-DETAILS RELATIVE TO THE SOUTHERN-MOST PHILLIPPINE ISLANDS-CONTINUAL WARS WITH THE MOORS, OR MAHOMETANS, OF THESE ISLANDS-STAY AT MANILLA-MILITARY STATE OF THE ISLAND OF LUCONIA.

WE had fcarcely caft anchor at the entrance of the harbour of Cavita, when an officer came on board from the commandant of that place, to requeft us not to attempt any communication with the fhore, till orders arrived from the governor-general, to whom he intended to difpatch a courier, as foon as he was informed of our object in putting in there. We anfwered, that we wifhed to procure provifions, and permiffion to refit our fhips, in order, as fpeedily as poffible, to continue our voyage; but before the officer left us, the commandant of the bay* arrived at Manilla, whence they had deferied our fhips. He informed us notice had been received there of our ar-

The commandant of the bay is, in Spain, the chief of the cuftom houre officers, and has a military rank. At Manilla he has that of captain.



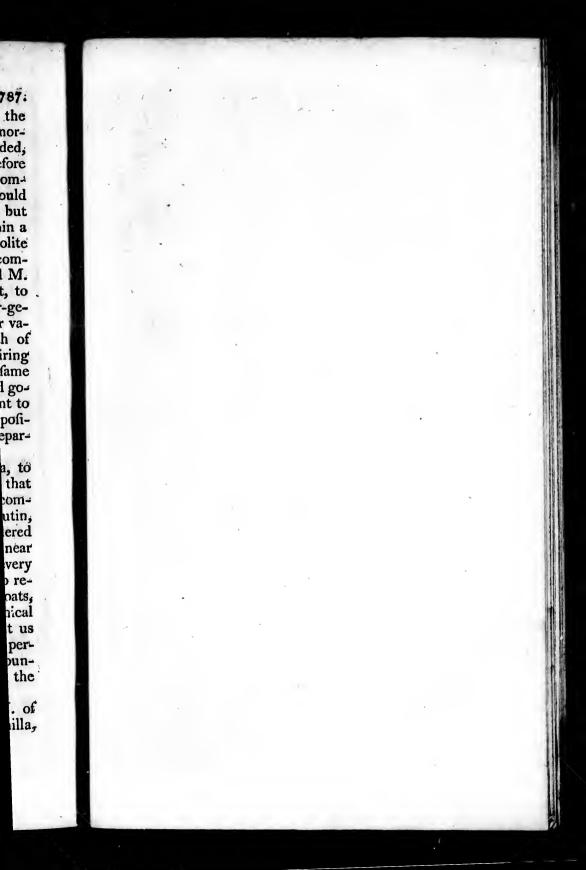


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rival in the Chinefe feas, and that letters from the Spanish minister had announced us to the governorgeneral feveral months before. This officer added. that the feafon admitted of our anchoring before Manilla, where we fhould meet with every accommodation, united with every refource, that could poffibly be procured in the Philippine Iflands : but we were lying at anchor before an arfenal, within a mufket-flot of the flore, and we were fo impolite as to acquaint this officer; that nothing could compenfate these advantages. He readily permitted M. Boutin, one of my lieutenants, to go in his boat, to give an account of our arrival to the governor-general, and request him to give orders that our various wants might be fupplied before the 5th of April, the ultimate plan of our voyage requiring that our two fhips fhould fail the 10th of the fame Senor Basco, brigadier de la armada, and gomonth. vernor-general of Manilla, gave the officer I fent to him a handfome reception, and iffued the most positive orders that nothing fhould retard our departure:

He alfo wrote to the commandant of Cavita, to permit us to have free communication with that place, and procure us every affiftance and accommodation in his power. The return of M. Boutin, charged with difpatches from Senor Bafco, rendered us all citizens of Cavita, and our veffels were fo near the fhore that we could land and return on board every minute.' We found various houfes wherein to repair our fails, falt our provifions, build two boats, and accommodate our naturalifts and geographical engineers; and the commandant very kindly lent us his own to fet up our obfervatory. We felt as perfectly at our eafe as if we had been in the country, and found in the market and the arfenal the fame refources, as in the beft ports of Europe.

Cavita, which lies three leagues to the S. W. of Manilla,





a, was formerly a very confiderable place; the Philippine iflands, as in Europe, the great exhauft, as it were, the fmall ones, and there main only the commandant of the arfenal, a liber accomptant, two port lieutenants, the inter of the fown, 150 foldiers in garrifon, meets belonging to that corps. There inhabitants are metis", (a fpecies of

), or Indians, belonging to the arfenals; orm together, with their families, which are entroly zery numerous, a population of about 4000 of St. Roch. There are two parifhes, and three mo-nations for men, each occupied by two ecclefiaftics, gh thirty might eafily be accommodated. The efuits also had formerly a very fine house; of which the trading company, established by the governthent, has obtained posselfion. In general, nofone are deferted or occupied by Indians, who never repair them ; and Cavita, the fecond town in the hilippine Islands, and capital of a province of the fame name, is now only a paltry village, uninhabited by Spaniards, except the military officers, and those of the civil administration. But if the town prefents only a heap of ruins, it is not fo with the port, where Senor Bermudas, brigadier de la armada, who is commander there, has established an order and difcipline, which excite regret that his talents are em ed on fo confined a theatre. All his workmen Indians, and he has precifely the fame kind of work shops as those of our arienals in Europe. 'This officer, who is of the fame military rank as the governon-general, confiders nothing too trifling for his

The Spaniards and Portuguele have different names for the various degrees of confanguinity with blacks. The first of these is the meti, which implies the half black, or immediate offspring of a white man with a black woman.—Translator's note.

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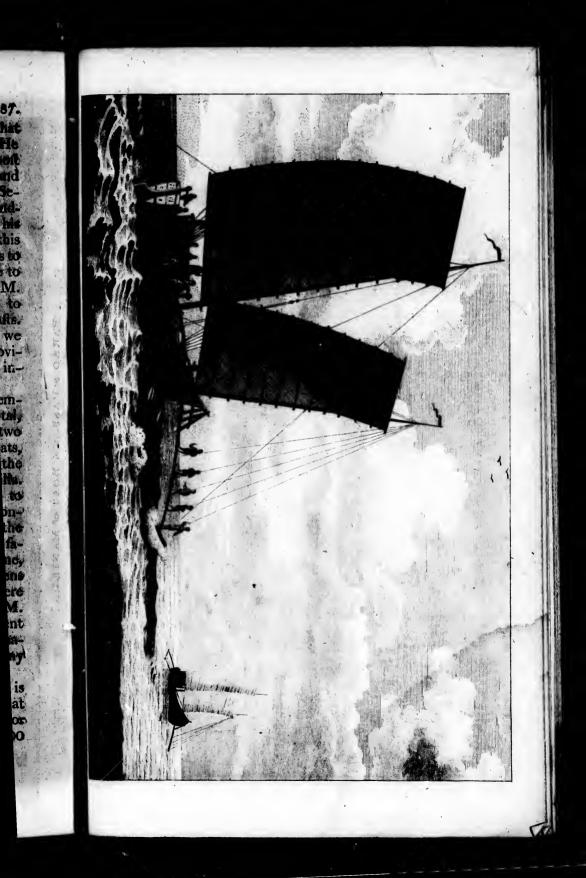
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attention; and his converfation convinced us, that nothing was above the iphere of his knowledge. He granted every thing we alked of him with the motiperfect politenes. The finiths, block makers, and riggen, were at some feveral days for our flips. Senor Bermunes measured our flips; and his friendthip was the more Concerning, is we judged from his character, that he did not early believ it: and this sufferny of his principles had pethaps been injurious to his military advancement. As we could not hope to meet with a more commodious post elfewhere, M.

de Langle and myfelf determined completely to overhaul all our rigging, and to firip our lower marks. This precaution involved no loss of time, as we were obliged to wait at least a month for our provifions, a lift of which we had transmitted to the iutendant of Mamilla.

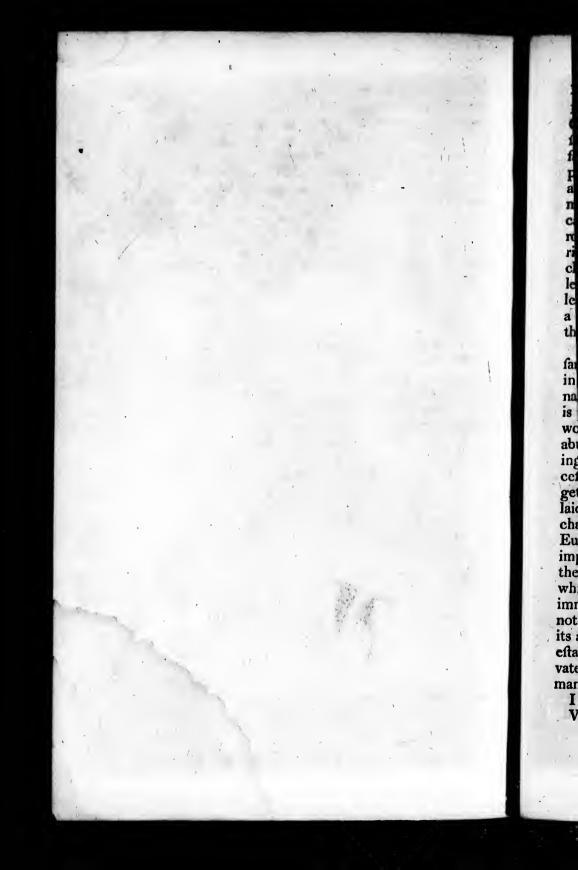
The fecond day after our arrival at Cavita, I embarked, together with M. de Langle, for the capital, accompanied by feveral officers. We were two hours and a half in making this trip in our boats. which were armed with foldiers, on account of the Moors, who frequently infeft the bay of Manilla, Our first visit was to the governor, who kept us to dinner, and fent the captain of his guards to conduct us to the archbishop, the intendant, and the different oidors. This was not one of the leaft fatiguing days of our voyage. The heat was extreme. and we were on foot, in a town where the citizens never go out but in a carriage. Here there were none to be hired as at Batavia; and had not M. Sebir, a French merchant, who had by accident heard of our arrival at Manilla, fent us his chariot, we should have been obliged to decline many of the vifits we intended to make.

The town of Manilla, including the fuburbs, is very confiderable. Its population is computed at 38,000, in which are included formely 1000 or









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1200 Spaniards; the reft are Metis, Indians, or Chinefe, who cultivate all the arts, and purfue every species of industry. The least opulent of the Spanish families keep one or two carriages, or more, and a pair of very fine horses, which cost thirty piastres, and their keep and coachman's wages fix piastres a month. Thus in no country is the expence of a carriage more trifling or more necessary. The environs of Manilla arc enchanting. The most beautiful river meanders through them, branching into various channels, of which the two principal end in that celebrated lagune or lake of Bahia, which lies feven leagues up the country, and is bordered by above a hundred Indian villages, fituated in the midst of the most fertile country.

Manilla is built on the fhore of the bay of the fame name, which is more than twenty-five leagues. in circumference. It lies at the mouth of a river navigable as far as the lake from which it rifes, and is perhaps the most delightfully fituated city in the. world. Provisions of all kinds are in the greatest. abundance there, and extremely cheap; but cloathing, European hardware and furniture bear an exceffively high price. The want of competition, together with prohibitions and reftraints of every kind laid on commerce, render the productions and merchandize of India and China, at leaft, as dear as in Europe; and this colony, although the various imposts bring near 800,000 piastres annually into the treasury, cofts Spain 1,500,000 livres befides, which are fent there every year from Mexico. The immenfe poffeffions of the Spaniards in America have not admitted of the government effentially directing its attention to the Philippines, which refemble the eftates of those great lords, whose lands lie uncultivated, though capable of making the fortunes of many families.

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nation, posselfied of no other colony than the Philippine Islands, and who should establish the best government of which they are capable, might behold all the European settlements in Africa and America without envy.

Three millions of inhabitants people thefe various iflands, of whom that of Luconia contains near one third. These people appear in no respect inferior to They cultivate the earth like men those of Europe. of understanding, are carpenters, joiners, imiths, goldfiniths, weavers, matons, &c. I have walked through their villages, and found them kind, hofpitable, and communicative ; and though the Spaniards speak of and treat them with contempt, I perceived that the vices they attributed to the Indians, ought rather to be imputed to the government they have themsclves established. It is well known, that the avidity for gold, and the fpirit of conquest, with which both the Spaniards and Portuguese were animated two centuries ago, induced adventurers of those nations to traverse the different seas and islands. of both hemispheres, with no other view than to fearch for that precious metal.

Some gold fanded rivers, and the vicinity of the fpice islands, were no doubt the motives of the first fettlements in the Philippines; but their produce did not correspond with the hopes that were entertained. To these avaricious motives succeeded the enthusiasim of religion. A great number of miffionaries, of every order of Monks, were fent there to preach Chriftianity, and the harvest was fo abundant, that these iflands foon contained eight or nine hundred Chriftians. Had this zeal been tempered by a little philofophy, that fystem was doubtless best adapted to fecure the conquests of the Spaniards, and render this fettlement useful to the mother country. But their only object was to make Christians, not citizens. The colony was then divided into parifics. and

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and fubjected to the most frivolous and extravagent ceremonies. Every fault, every pretended fin, was punifhed by a whipping, the absence from prayer and from mais were taxed, and the punishment inflicted both on men and women at the church door, by order of the curate. Their holidays, their religious confraternities, their private devotions, confume a very confiderable portion of time; and as in hot climates the imagination takes a ftill loftier flight than in more temperate regions, I have, in paffion week, beheld penitents in masks, dragging chains through the fireets, with their legs and loins furrounded with a girdle of thorns; and in this condition, receive at every flation, before the church door, or before the oratories, feveral ftrokes of the whip, in the way of difcipline, and in a word, fubmit to equally rigorous penances with the faquirs of India. These practices, more calculated to form enthufiafts than to infpire true devotion, are now prohibited by the Archbishop of Manilla; but it in highly probable, fome conferfors ftill recommend, if not enjoin them.

This monaftic discipline not only enervates the mind of these people, naturally inactive through the influence of the climate, and the finall number of their wants, but perfuading them that life is but a journey, and the good things of it unprofitable. combines with the impoffibility of felling the fruits of the earth for a price that would compendate their labour, to paralyfe their industry. Thus, as foon as the inhabitants have the quantity of rice, of fugar, and of vegetables, neceflary for their fubliftance. the fuperflux is of no value whatever. In fuch circumftances fugar has been fold for lefs than a halfpenny the pound, and rice remained upon the ground without being reaped. It would be difficult for the most unenlightened fociety to form a system of government more abfurd, than that which has regulated these colonies for the two last centuries. T 2 The 1 -11 -

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The port of Manilla, which ought to be free and open to all nations, has been, till very lately, thut against Europeans, and open only to a few Moors, Americans, and the Portuguese of Goa. The governor is invefted with the most despotic authority : and the Audiencia, which ought to moderate his power, is totally impotent before the representative of the Spanish government. In point of fact, though not by law, it lies in his breaft to admit or to confifcate the merchandize of foreigners, whom the hope of advantage may have brought to Manilla, and who would not expose themselves to this risk, but on the probability of a very great profit, ultimately ruinous to the confumers. No liberty whatever is enjoyed there. Inquifitors and Monks direct the confeiences of the people, the oidors overlook all the affairs of individuals, and the governor regulates the most innocent amusements: even an excursion up the country, or a conversazione, are within his jurisdiction. In a word, the fineft and most charming country in the world, is certainly the last a lover of liberty would chuse for his refidence. I faw at Manilla, that worthy, that virtuous governor of the Marianas, Senor Tobias, rendered too famous for his own repose by the Abbé Raynal. I have feen him perfecuted by the Monks, who, by reprefenting him as impious, even alienated the affections of his wife, and induced her to demand a feparation from him, that fhe might not live with this pretended reprobate; while every fanatic applauded her conduct. Senor Tobias is lieutenant-colonel of the regiment that forms the garrifon of Manilla; and is acknowledged to be the best officer in the country. Yet the governor has decreed that his falary, which is very confiderable, fhould be paid to his pious wife, leaving him only 26 piastres per month, for the sublistence of himfelf and his fon. This brave officer, thus reduced to defpair, was waiting for a proper opportunity

tunity to escape from this colony, in order to demand There is a very wife, but unfortunately an iustice. ineffectual law, which ought to have moderated this inordinate power, and by which every citizen is permitted to profecute the ex-governor before his fucceffor. The latter is, however, interested in justifying every thing his predeceffor is reproached with; and the citizen who is imprudent enough to complain, is exposed to new and encreased injustice.

The most galling distinctions are established, and fupported with the firicteft feverity. The number of horfes used in carriages is fixed for every rank, and coachmen are bound to give precedence to the fuperior number; fo that the mere caprice of an oidor may detain behind him a whole line of carriages. that have the misfortune of travelling the fame road. So many abufes in this government, fo many vexations that refult from it, have not however totally deftroyed the advantages of the climate, and the peafantry difplay an air of happines not to be found in the villages of Europe. Their houfes are admirably neat, and fhaded by fruit trees, which grow fpontaneoully. The tax paid by each mafter of a fmall house, is very moderate, being limited to 54 reals, including the church dues, which is received by the nation; all the bishops, canons, and curates, being paid by the government. But they have eftablifhed fome perquifites, which compensate the smallnefs of their ftipends.

A dreadful oppreffion has, however, of late years taken place, and threatens to deftroy the little enjoyment allowed them. I mean the tax upon to-Their paffion for finoking this narcotic bacco. is fo immoderate, that there is not a moment in the day when either men or women have not a fegar* in their mouth, and children fcarcely out of

* A fegar (or cigarro) is a leaf of tobacco, rolled up, and imoked in lieu of a pipe.-French Editor.

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their cradle contract the fame habit. The tobacco of the Ifland of Luconia is the beft in Afia. Every inhabitant cultivated it round his houfe for his own confumption, and the fmall number of forcign fhips that had permiffion to land at Manilla carried it to every part of India.

A prohibitory law however has lately been promulgated, and the tobacco of each individual has been. pulled up, and the cultivation of it limited to grounds where it is grown for the benefit of the government. The price has been fixed at half a piastre per pound, and though the confumption is diminished, the daily pay of a workman is inadequate to procure tobacco. for himfelf and his family. All the inhabitants agree, that a tax of two piastres, added to the capitation tax of those who are liable to it, would have produced to the revenue a fum equal to that of the fale of tobacco, without giving birth to the diforders the latter has produced. Infurrections have threatened every corner of the ifland, troops have been employed to suppress them, and an army of custom-house clerks and officers employed to prevent imuggling, and to compel the confirmers to apply to the national warehoufes. Several of these have been massacred. though speedy vengeance was inflicted by the tribunals, who pass judgment on the Indians with much fewer formalities than on the other citizens. There ftill remains however a leaven of revolt, in which the leaft fermentation might produce a formidable activity, and it is not to be doubted that an enemy who might entertain projects of conquest would find an army of Indians ready to join their flandard the moment they fet foot on the island, and furnish them with arms*. The picture that might be drawn of the

* The Philippines, from their extent, their climate, and the quality of their foil, poffefs every means of producing all the colonial commodities. They are furnished with the precious metals, and their

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the flate of Manilla a few years hence would be very different from its prefent condition, were the government of Spain to adopt a better conflictution for the Philippine Iflands. The foil is adequate to the most valuable production, 900,000 individuals of both fexes, who inhabit the ifland of Luconia, might be encouraged to cultivate it, and the climate admits of ten crops of filk within the year, while that of China fcarcely affords a prospect of two.

their fituation is most advantageous for trading with India and China. An European nation, if established there on a folid foundation, and possessing a port for an entrepôt and refreshment on the coasts of Africa, of Madagascar, or in the neighbouring feas, might abandon their possessing in America without the smallest refuctance. This important property appears however not to be justily appreciated by the Spanish government. Their apparent indifference arises from the difficulty of supporting the immense weight of their possessions in the two hemispheres, and the impossibility of their giving to all of them the species of activity calculated to draw from them all the aid the mother country would have a right to expect.

The Philippines therefore are not only extremely likely to be coveted by the other maritime powers of Europe, but if the enemies of Spain do not take advantage of the weak flate in which they languifh, they will one day become a prey to the Moors.

When the metallic riches and vegetable productions of the South Sca Iflands are better known, when new tracks, opened to commerce and navigation fhall admit of a fafe and fpeedy communication to the very centre of this fea, the importance of the Philippines will be perceived. The Spaniards, who already have a fettlement in the Bafhee Iflands, will foon have another on the Sandwich Iflands, although lying fomewhat to the northward of the track of the galleons; and their poffeffions, if fuffered to encreafe, will form a kind of chain embracing the whole earth. The Ruffians will then difcover all the advantages they may derive from the commerce of the South Sea, and all their maritime views will be directed to the ports of Kamtfchatka.

This ftate of things however will only continue till the energy of the nations who people that part of the globe fhall fet bounds to this impolitic extension of territory; till the moment when they shall refume their natural rights, by driving out all the Europeans, in order to carry on a free trade with every nation. But that period is still very distant, and before it arrives the Spaniards, as Raynal has predicted, weakened by possessions, too numerous to be effectually protected, will be successively driven from their multiplied fettlements by some more powerful nation.—French Editor.

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Cotton, indigo, the fugar-cane, and coffee, grow without cultivation around the footsteps of the inhabitants, who defpife them, and every thing indicates that even fpices would not be inferior to those of the A perfectly free trade for all nations Moluccas. would enfure a market that would encourage every fpecies of cultivation, and a moderate duty on all the exports would in a very few years be adequate to all the expences of the government. Religious toleration granted to the Chinese, together with some other privileges, would prefently draw 100,000 inhabitants from the eaftern provinces of that empire, driven away by the tyranny of their mandarines. If to these advantages the Spaniards added the conquest of Macao, their fettlements in Afia, and the advantages they would derive from them, would undoubtedly exceed those of the Dutch in the Moluccas and at Java. The eftablishment of the new Philippine company feems to indicate, that the attention of the government is at length directed towards this part of the world, and they have adopted, though only in part, the fyftem of Cardinal Alberoni. That minifter perceived that Spain, having no manufactures, it would be more politic to enrich the nations of Afia with her metals than those of Europe, who were her rivals, and whofe commerce the nourifhed while the augmented their firength, by confuming the objects of their industry. He was therefore of opinion, that Manilla ought to be an open mart for all nations, and was defirous to invite the fhip-owners of the various provinces of Spain to go and load at this market with the cotton or other manufactures of China and the Indies, that were neceffary for the confumption of the colonics and of the metropolis.

Cardinal Alberoni however is well known to have poffeffed more genius than fcience; and though he was pretty thoroughly acquainted with Europe, he had not the fmalleft idea of the affairs of Afia. The objects

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objects of the greatest confumption, both for Spain and her colonies, are those of the Coromandel coast and of Bengal; which it is certainly as eafy to carry to Cadiz as to Manilla, the latter being fituated at a great diftance from that coaft, and its feas fubject to monfoons, which expose navigators to losses and confiderable delays. Thus the difference in price between Manilla and India must be at least 50 per cent: and if to this price are added the immenfe expences of outfits in Spain for fo long a voyage, it will be evident that the produce of India, which comes by the way of Manilla, must be fold at very high prices in the part of Europe under the Spanish dominion, still dearer in their American colonies, and that the nations, who, like England, Holland and France carry on this trade directly, will always be able to fmuggle them in there with the greatest advantage. It is however on this defective fystem that the foundation of the new company has been laid, and, which is ftill worfe, accompanied by reftrictions and impofts rendering it far inferior to the project of the Italian minister—fuch in short, that it appears impossible for this company to fubfift four years more, although its privileges have in a manner fwallowed up the whole commerce of the nation with her Ameri-The pretended fair of Manilla, where can colonies. the new Company is obliged to provide itfelf with cargoes, is only open to the Indian nations, as if they were afraid to augment the competition of fellers, or to obtain the cotton manufactures of Bengal at too low a price.

It may also be remarked, that these pretended Moorish, or American ships from Goa, only bring English goods; and as these modes of difguising them are attended with additional expences, this falls ultimately on the consumer. Thus the difference between the price in India, and that of Manilla, no longer continues at 50 per cent, but has risen to 60 and

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and even to 80. With this error is combined, that of the exclusive right of the Company, to purchafe the productions of the island of Luconia, whose industry not being excited by a competition of buyers, will ever-continue in the inert state, to which it owes its infignificance for the two last centuries. Many other authors have spoken of the civil and military government of Manilla, I therefore thought it my business, to make the reader acquainted with that city, under the new point of view, which the establishment of this new Company has perhaps rendered intercess particularly in an age, when all men who are to hold an elevated rank in the state, ought to understand the theory of commerce.

The Spaniards have fome fettlements in the various iflands to the fouthward of Luconia; but they feem only to be on fufferance there, and their fituation in Luconia does not induce the inhabitants of the other iflands to acknowledge their fovereignty. On the contrary, they are always at war with them. Thefe pretended Moors, of whom I have already fpoken, and who infeft their coafts, making very frequent defcents, and carrying into captivity the Indians of both fexes, who are under the Spanish yoke, are the inhabitants of Mindanao, Mindoro, and Panay. They acknowledge no authority but that of their refpective princes who are called Sultans, with as little propricty, as these people are called Moors. In fact they are Malays, and have embraced Mahometifm, nearly at the fame period that Christianity began to be preached at Manilla. The Spaniards have denominated them Moors, and their fovereigns Sultans, in confequence of the identity of their religion, with that of the nations of the fame name in Africa, who have for fo many centuries been at enmity with Spain. The only military eftablishment of the Spaniards, in the fouthern Philippines, is that of Samboangan in the ifland of Mindanao, where they keep a garrifon of

of 150 men, under the command of a miltary Governor, who is appointed by the Governor General of Manilla, In the other islands are only a few villages, defended by bad batteries, ferved by militia, and commanded by Alcaydes, nominated by the Governor General, but eligible from all claffes of citizens, who are not foldiers. The real mafters of the various iflands, where these Spanish villages are fituated, would foon deftroy them, had they not a very important intereft in their prefervation. Thefe Moors, though at peace when at home in their own iflands, fit out veffels to commit piracies on the coaft of Luconia, and the Alcaydes purchase a very great number of the flaves made by these pirates, which faves them the trouble of carrying their prifoners to Batavia, where they would obtain a much lower price. These particulars pourtray the weakness of the government of the Philippines, better than all the reafonings of the various navigators, who have vifited them. The reader will perceive, that the Spaniards are not ftrong enough to protect the commerce of their vaft poffeffions, and all the benefits conferred by them on the natives, have hitherto had no other object, than their happines in a future life. . .

We staid but a few hours at Manilla. The Governor having taken leave of us immediately after dinner, to take his fiefta or afternoon nap, we were at liberty to vifit M. Sebir, who rendered us the most effential fervices during our flay in the bay of Manilla. This French merchant, the most enlightened of our countrymen, whom I have met with in the feas of China, had imagined, the new Philippine Company, and the intimacy of the cabinets of Madrid and Verfailles, would procure him the means of extending his fpeculations, which were cramped by the reestablishment of the French East India Company. He had confequently fettled all his affairs at Canton, and at Macao, where he had been many years eftablifhed.

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lished, and had formed a house of trade at Manilla, where he also folicited the decision of a very important law-fuit, in which one of his friends was concerned; but he already perceived, that the prejudices against foreigners, and the despotism of the administration, would be insuperable obstacles to the accomplishment of his wishes, and at the time of our arrival, he proposed rather to wind up all his affairs, than to encrease their ramifications.

We returned to our boats at fix in the evening. and got on board our fhips at eight; but being apprehenfive, that while employed in repairing our fhips at Cavita, the bifcuit and flour contractors, &c. would make us the victims of the inactivity, fo general among merchants of that nation, I thought it neceffary, to order an officer to refide at Manilla, and every day to vifit the various agents, to whom the Intendant had introduced us. I made choice of M. de Vaujuas, one of the lieutenants of the Aftrolabe. That officer, however, foon wrote me, that his ftay at Manilla was useles, as Don Gonzalo Carvagnal, Intendant of the Philippines, was fo careful of our interest, that he went round every day himself, to watch the progress of the workmen employed for our fhips, and that his vigilance was equally active, as if he had been himfelf engaged in the expedition. His obliging and ready attention, demand a public testimony of our gratitude: Elis cabinet of natural hiftory was thrown open to our naturalifts, to whom he prefented a part of his collection, in the animal, getable, and mineral kingdoms, and at the moment of our departure, I received from him a complete double collection of fhells found in the Philippine feas. Thus his defire to ferve us, extended to every thing that could be interefting to us.

A week after our arrival at Manilla, we received a letter from M. Elftockenftrom, the principal fupereargo of the Swedish East India Company, apprising us,

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us, he had fold our otter fkins for 10,000 piaftres, and giving us permiffion to draw for that fum. I was very defirous to procure this money at Manilla, in order to diffribute among the failors, who having left Macao without receiving it, were apprehenfive their hopes would never be realized. M. Sebir had at that time no remittance to make to Macao, and we had recourfe to Don Gonzalo, to whom every thing of this nature was entirely foreign, but who made use of the influence his amiable character procured him, over the various merchants of Manilla, to induce them to difcount our bills : and the produce was divided among the failors previous to our departure.

The great heats of Manilla now began to produce fome bad effects upon our crews, and fome of the failors were attacked with colics, which were not, however, attended with ferious confequences. But Meffis. de Lamanon and Daigremont, who had brought fome fymptoms of dyfentery from Macao, caufed probably by a checked perfpiration, in lieu of finding relief on fhore, grew worfe there, infomuch that M. Daigremont was given over the 23d day after our arrival, and died on the 25th. This was the fecond perfon who died on board the Astrolabe. We had not experienced any fimilar misfortune on board the Bouffole, although, perhaps, in general, our crew had enjoyed an inferior flate of health to that of the Aftrolabe. It must, however, be observed, that the fervant who died during our run from Chili to Easter Island, was confumptive when he came on board, and M. de Langle only yielded to the request of his master, who flattered himfelf that the fea air and warm climates would effect his cure. As to M. Daigremont, in spite of his phyficians, and unknown to his friends and companions, he tried to cure himfelf with burnt brandy, pimento, and other medicines, which the most robust could not have withftood; and he fell a victim to his own imprudence, and the dupe of the too high opinion

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opinion he entertained of the strength of his constitution.

On the 28th of March all our labours at Cavita were finished; our boats built, our fails repaired, the rigging overhauled, our ships completely caulked, and our falt provisions barrelled up. This last operation we were unwilling to entrust with the agents at Manilla, as we knew the falt provisions of the galleons never kept sweet three months; and our confidence in the method practifed by Captain Cook was very great. A copy of the process, used by Captain Cook, was therefore given to each falter, and we fuperintended this new species of labour ourselves. We had on board both falt and vinegar from Europe, and we only purchased pigs of the Spaniards, and these at a very moderate price.

The opportunities of communication between Manilla and China were fo frequent, that we received news from Macao every week. By these we learned, with the greatest assonishment, the arrival of la Réfolution under the command of M. d'Entrecasteaux, and la Subtile frigate, under that of M. la Croix. de Castrics, in the river of Canton. These ships had left Batavia when the N. E. monfoon was in full force, had run to the eastward of the Philippines, coafted New Guinea, traverfed feas that are full of fhoals, without even having a chart of them on board. and after a navigation of 70 days, were at length arrived at the mouth of the river of Canton, where they anchored the day after our departure. The aftronomical observations they made during this voyage will be extremely important towards the knowledge of these seas, always open to ships that have missed the monfoon; and it is very aftonifhing, that our East India Company should make choice, for the command of the fhip which loft its voyage this year, of a Captain who was totally ignorant of this track.

At Manilla I received a letter from M. d'Entrecafteaux,

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teaux, informing me of the motives of his voyage; and prefently after la Subtile frigate brought me further difpatches.

M. la Croix de Caftries, who had doubled the Cape of Good Hope in company with the Calypio, brought us the news of Europe. But these news were dated the 24th of April, and we had an interval of a whole year to regret in unfatisfied curiofity. Nor had our families and friends taken this opportunity to write to us; and in the flate of tranquillity which Europe enjoyed, our interest in its political events was comparatively feeble, to that which agitated our individual hopes and fears. It afforded us, however, an additional opportunity to convey letters to France. La Subtile was fo well manned, as to permit M. la Croix de Castries partly to repair the loss of foldiers and officers we had fuffered in America. He transferred to each of our fhips an officer and four men. M. Guyet, enseigne de vaisseau, came on board the Bouffole, and M. de Gobien, garde de la marine, on board the Aftrolabe. This recruit was very neceffary, as we had eight officers lefs than at our departure from France, including M. de Saint-Ceran, whofe impaired ftate of health obliged me to fend him to the life of France, on board la Subtile, as all the furgeons declared it impoffible for him to continue the voyage.

In the mean while our provisions were put on board at the time we had previously fixed; but Paffionweek, which suffereds all business at Manilla, occafioned fome delay in our individual wants, and I was obliged to fix my departure for Easter Monday: for the N. E. monfoon being still very strong, a facrifice of three or four days could not be injurious to our expedition. On the 3d of April we got all our astronomical inftruments on board. M. Dagelet had not, fince our departure from France, met with a more commodious spot for ascertaining, with precision, the rate of the time-keeper, No. 19, having crected our observatory

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fervatory in the Governor's garden, about 120 toifes from our fhips. The longitude of Cavita, deduced from a great number of lunar obfervations, was 118° 50' 40" caft^{*}, and its latitude, taken with a quadrant of three feet radius, 14° 29' 9" north. Had we determined its longitude, according to the daily lofs, attributed at Macao to our time-keeper, No. 19, it would have been 118° 46' 8", that is 4' 32" lefs than the refult of our lunar obfervations.

Before we fet fail, I thought it my duty to go with M. de Langle, to make our acknowledgments to the governor-general, for the difpatch with which his orders had been executed; and ftill more particularly to the intendant, from whom we had experienced fo many marks of politeness and friendship. Having discharged these duties, we both took advantage of a refidence of forty-eight hours at M. Sebir's, to vifit, either in a boat or a carriage, the environs of Manilla. Though we faw no fuperb houfes, parks, or gardens, yet Nature unadorned is here fo beautiful, that a fimple Indian village on the bank of the river, or a houfe in the European ftyle, furrounded by a few trees, afford a view far more picturefue than that of our most magnificent manfions; and the coldeft imagination cannot avoid pourtraying to itfelf undiffurbed happiness fmiling amidst this delightful funplicity. Almost all the Spaniards are accustomed to quit their town refidence immediately after Eafter, and to pass the feafon of the fcorching heats in the country. They have not attempted to embellish a country, which has no need of the aids of art. A neat and fpacious house, built on the edge of the water, and furnished with the most commodious baths, though destitute

• See the explanation of the method of taking longitudes, in the tables of the routes of our fhips, from Manilla to Kamtfchatka, given by M. Dagelet, and inferted at the end of the fecond volume. — French Editor.

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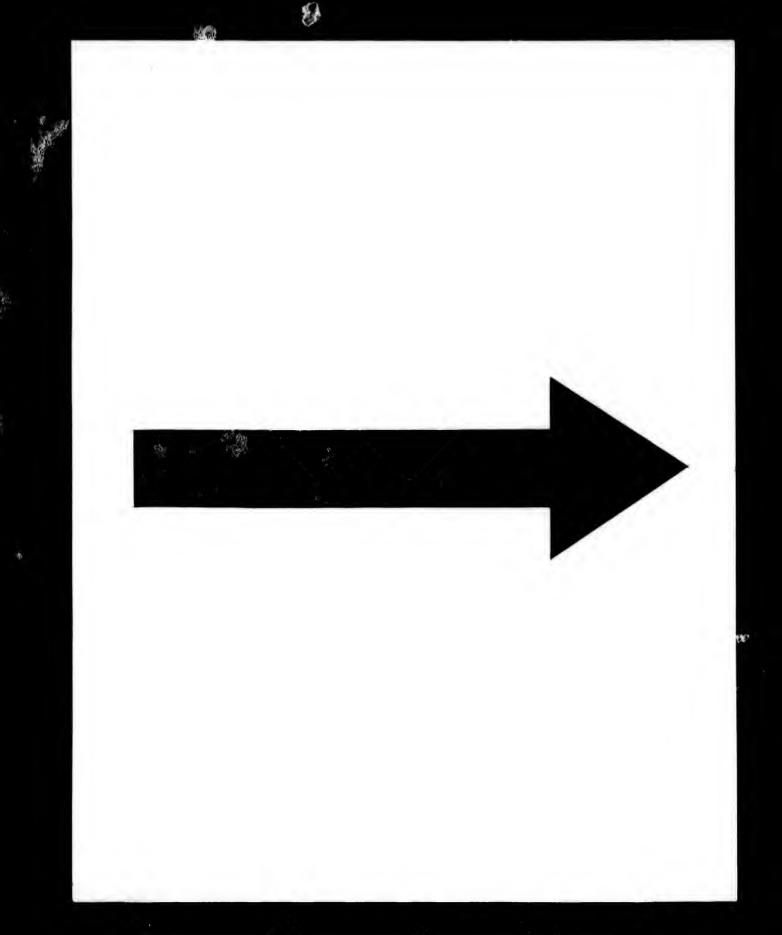
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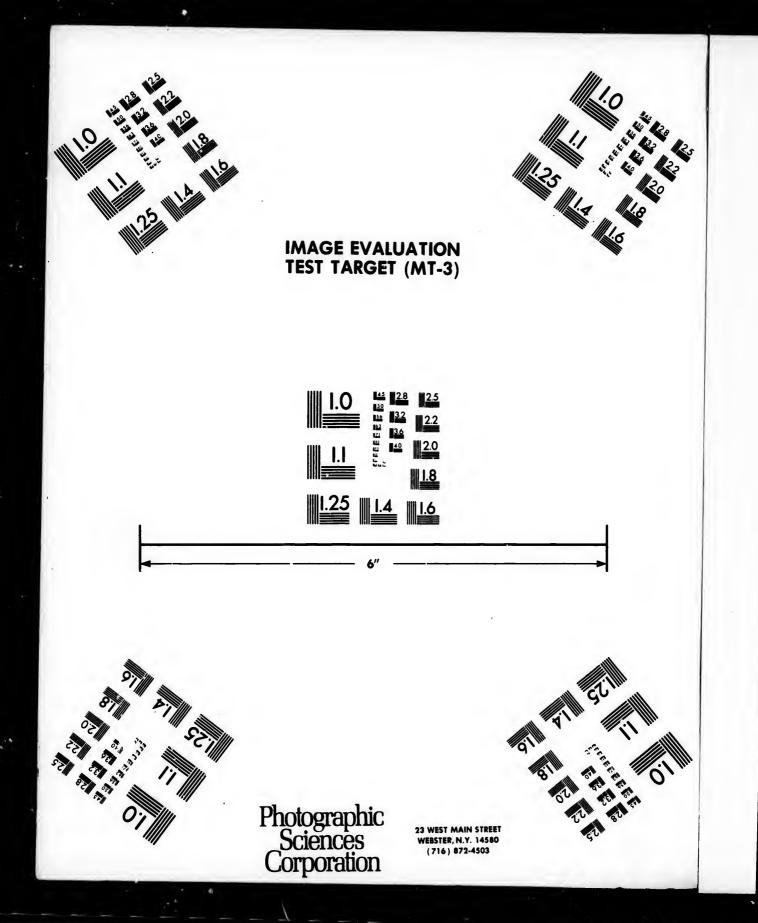
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of viftas, avenues, or gardens, and only fhaded by fruit trees, forms the dwellings of the richeft citizens; and this country would be one of the most charming fpots in the world to live in, if a milder government and fewer prejudices rendered the civil liberty of the inhabitants more fecure. The fortifications of Manilla have been augmented by the governor-general, under the direction of Senor Sauz, a skilful engineer; but the garrison is far from numerous, and confifts, in time of peace, of a fingle regiment of infantry, composed of two battalions, each comprehending a company of grenadiers, and eight of fufilcers: the two battalions forming together a body of 1300 effective men. In this regiment, which is composed of Mexicans, all the foldiers are of the colour of mulattoes, and it is afferted they are not inferior, either in valour or intelligence, to European troops. There are also two companies of artillery, commanded by a lieutenant colonel, each composed of 80 men, whose officers are a captain, a lieutenant, an enfign, and a fupernumerary; three companies of dragoons who form a fquadron of 150 horfe, commanded by the oldeft of the three Captains, and laftly, a battalion of 1200 militia, formerly raifed and paid by a very rich Chinefe Meti, named Tuaffon, who was ennobled. All the foldiers of this corps are Chinese Mctis, do the same duty in the town as the regulars, and now receive the fame pay, but they would be of little use in war. In case of need 8000 militia might be raifed in a very fhort time, divided into provincial battalions, and commanded by Eropean officers. Each battalion has a company of grenadiers. One of these companies has been difciplined by a ferjeant, taken from the regiment at Manilla; and the Spaniards, although more prone to decry than panegyrife the valour and merit of the Indians, affert that this company is in no respect inferior to the regiment of Europe. Vol. I.

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The little garrifon of Samboangan, in the ifland of Mindanco, is not taken from that of the ifland of Luconia. Two corps, of 150 men each, have been formed for the Mariana Iflands, and for that of Mindanco, and these corps are invariably appropriated to those colonies.

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