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NATURAL HISTORY

OF

BRITISH INSECTS;

EXPLAINING THEM

IN THEIR SEVERAL STATES,

WITH THE PERIODS OF THEIR TRANSFORMATIONS,
THEIR FOOD, ŒCONOMY, &c.

TOGETHER WITH THE

HISTORY OF SUCH MINUTE INSECTS

AS REQUIRE INVESTIGATION BY THE MICROSCOPE.

THE WHOLE ILLUSTRATED BY

COLOURED FIGURES,

DESIGNED AND EXECUTED FROM LIVING SPECIMENS.

BY E. DONOVAN.

VOL. XII.

LONDON:

PRINTED FOR THE AUTHOR,

And for F. and C. RIVINGTON, Nº 62, St. PAUL'S CHURCH-YARD, M DCCC VII.

R.B. 9en. 1792 .7 V.12



137659

Printed by Law and Gilbert, St. John's Square, Clerkenwell.





THE

NATURAL HISTORY

OF

BRITISH INSECTS.

PLATE CCCXCVII.

FIG. I.

PHALÆNA ZEBU.

ZEBU, PROMINENT.

LEPIDOPTERA.

GENERIC CHARACTER.

Antennæ gradually tapering from the base to the tip: wings in general deslected when at rest. Fly by night.

BOMBYX.

SPECIFIC CHARACTER

AND

SYNONYMS.

Bombyx Zebu. Wings deflected: back fingle toothed: thorax rufous: anterior wings pale rufous and fulvous varied, with two obsolete denticulate yellowish bands.

VOL. XII.

B

LE CHAMEAU.

LE CHAMEAU. Chenille du Tremble, var. e. f. Ernst. Fig. 267.

Bombyx Dromedarulus. Small iron prominent. Haworth. Lep. Brit. p. 101. n. 29.

Our Zebu Prominent, or, as the Aurelians call it, the finall Iron Prominent, is extremely fearce. It was discovered in the larva state upon the oak: in the month of September it went into the ground and became a pupa; the moth appeared in June following.

This infect differs from the Fabrician Bombyx Dromedarius, or what is termed with us the Iron Prominent in feveral respects, though at the first view it seems to bear a very strong resemblance to that species. We object to the trivial English name of small Iron Prominent, because it is only applicable, in a partial degree, to the insect. Our Zebu Prominent is certainly smaller than the insect known in this country by the name of Iron Prominent, but this is not invariably the case. We have seen the male of the Iron Prominent of a fize nearly, if not entirely, as diminutive as our specimens of the Zebu Prominent; and if we may rely on the accuracy of the sigures of the latter in the works of Ernst, the Bombyx Dromedarius is not an insect of much superior magnitude. We may truly infer from the sigures above mentioned, that the diminutive size of our Zebu is no criterion of the species.

A decided difference in point of colour, and in some other particulars, prevails between the two infects. In Bombyx Dromedarius the colour of the superior wings is suscous most delicately speckled, as it appears on close inspection, with grey; the spots of a deep rusty-iron colour, and the denticulated bands across the wings whitish, distinct

diffinct, and well relieved with fuscous, and ferruginous. In our infeet the general colour is pale rufous flightly tinged with fuscous in the area of the wing, and varied towards the circumference with deep fulvous: the denticulated bands acrofs are disposed in a similar manner to those on the wings of Bombyx Dromedarius, but are of a vellowish instead of whitish colour, and nearly obsolete. So far as our own observation extends there is a difference also in the posterior wings: in our Bombyx Zebu those wings are of a very pale fuscous with only a fingle fainter band; in Bombyx Dromedarius the wings are paler ftill; it has likewife a fimilar band, but which is rather more denticulated, and being bounded both above and below with a dusky band, the wings appear of a lighter colour next the posterior margin, and in the disk of the wing; the latter part has also a fingle short transverse dash of a dusky colour. A further difference is obfervable in the lower furface: the general tint in our B. Zebu is pale ferruginous; in B. Dromedarius greyish, with the lower pair whitish, and in both, the bands conspicuous: the tip of the anterior pair in B. Zebu testaceo-fuscous, in B. Dromedarius distinctly grey; and the central fpot in the lower wings of the latter fuscous with a white fpeck in the center, but in B. Zebu plain testaceous without any central mark.

In the "Lepidoptera Britannica," Mr. Haworth describes our Bombyx Zebu as a species perfectly new, under the name of Bombyx Dromedarulus. The specimens from which his description is taken were those in the cabinet of Mr. Drury, and which are now in our possession. This insect was probably new to the Aurelians of this country, but certainly not fo to the continental entomologists, and those should affuredly have been confulted previously to its being described as a nondescript infect. In the works of Ernst which this ingenious writer has overlooked, will be found a figure both of the upper and lower furface of the infect from a larger specimen than our own, and tolerably expressive; and with a description of the infect equally satisfactory. It appears from thence that the figures are copied by Ernst from a female specimen in the noble collection of M. Gerning, of Frankfort, which

B 2

which contains befides the male of the fame insect. Ernst is evidently in doubt whether to consider it as a variety of the Bombyx Dromedarius differing only from that insect in the gradations of colour, or as a distinct species; this he leaves for time and suture refearches to determine. He observes, however, and it is a strong argument in favour of its being distinct, that the males in M. Gerning's collection, are of the same colour as the semale he represents, and the like circumstance is exemplified in our specimens*.

The variety fig. 1. of the B. Tritophus of Esper appears to be of the same species as our B. Zebu, but of this we cannot speak with considence. Schneider certainly notices it. Fabricius probably considered it as a variety of B. Dromedarius.

FIG. II.

PHALÆNA CASSINIA.

TRILINEATED MOTH.

SPECIFIC CHARACTER

AND

SYNONY MS.

Wings deflected, grey with abbreviated fcattered black lines: thorax with a black line each fide, and in the middle.

^{* &}quot;M. Gerning qui posséde dans sa collection l'individu semelle dont nous donnons le portrait en dessus et en dessous, sig. 267. e, f, le croit une variété de cette espèce, malgré la dissérence que l'on y remarque dans les nuances. Cependant comme il a des mâles de la même couleur, il n'ose assure que ce ne soit point une espèce dissérente. Le temps seul et les reserches peuvent nos en rendre certain." Ernst.

Bomby Cassinia: alis deflexis grifeis: lineolis abbreviatis nigris fparfis. Fabr. Ent. Syst. T. 3. p. I. 460. n. 164. B. Cassinius. Sprawler. Haw. Lep. Brit. p. 106. n. 40?

Fabricius describes his Bombyx Cassinia as a native of Austria from the cabinet of Schieffermyller. It is found on the Lime. If this be of the same species as the B. Cassinius above quoted, it is also found in the larva state on the oak, and appears in the winged state in September.

This infect, confidered as a British species, is almost equally as scarce as the preceding, Bombyx Zebu.

FIG. III.

NOCTUA AURICULA.

GOLDEN EAR MOTH.

SPECIFIC CHARACTER

AND

SYNONYMS.

Noctua Auricula. Anterior wings sub-ferruginous with a small sulvous spot, and in the middle a larger ear-shaped yellow spot enclosing a lunar ring.

L'ECLATANTE. Ernft. II. part. v. 6. n. 394.

This

This infect has been erroneously considered by Esper and others as the Phalæna nictitans of Linnæus, an infect which it pretty much resembles, but from which it differs specifically. This circumstance is mentioned particularly by Ernst, who describes and sigures both the Linnæan species, and the infect mistaken for it. The specimens he delineates are in the cabinet of M. Gerning of Frankfort. Ernst describes our infect as a scarce species in Germany: in England we believe it is very rare; the only specimen we posses is in the cabinet of Mr. Drury.







PLATE CCCXCVIII.

TENTHREDO FASCIATA.

BANDED SAW-FLY.

HYMENOPTERA.

GENERIC CHARACTER.

Mouth with a horny mandible, curved, and toothed within; jaw ftraight and obtufe at the tips: lip cylindrical and three cleft: feelers four unequal and filiform: wings flat and tumid: fting composed of two ferrated laminæ and scarcely disclosed.

SPECIFIC CHARACTER

AND

SYNONYMS.

Deep black: antennæ black: upper wings with a fufcous band.

Tenthredo Fasciata: atra, antennis nigris, alis primoribus fafcia fufca. Fabr. Sp, Inf. 1. p. 407. N. 8.—Gmel. Syft. Nat. 2655. 7.

Tenthredo antennis clavatis nigris, abdomine glabro atro, alis fuperioribus fascia susca. Linn. Syst. Nat. 12. 2. p. 921, n. 7.—Fn. Suec. 1538.

This is a rare infect in England. Linnæus describes it as a native of Sweden, Panzer as a German species, and by other writers it is mentioned as a general inhabitant of Europe.

Fabricius

Fabricius speaks of a small white band at the base of the first abdominal segment of this species: in our British specimen, the whole of this segment is of a pale or whitish colour instead of the base only, and it appears from the sigure given by Panzer, Fn. Germ. that the same circumstance is observable in the individual he has delineated.

The larva, and metamorphofes of this species of Tenthredo has not hitherto been ascertained by any writer.





PLATE CCCXCIX.

FIG. I. I.

APIS DRURIELLA.

DRURY'S BEE.

HYMENOPTERA.

GENERIC CHARCTER.

Mouth horny: jaw and lip membranaceous at the tip: tongue inflected: feelers four, unequal, filiform: antennæ fhort, and filiform; those of the female somewhat clavated: fting of the females and neuters pungent, and concealed within the abdomen.

SPECIFIC CHARACTER

AND

SYNONYMS.

Black with cinereous down: antennæ fulvous beneath: last joints of the abdomen mucronated on each fide.

APIS DRURIELLA: nigra, hirfuto cinerafcens; antennis fubtus fulvis; abdomine fegmentis posticis utrinque mucronatis. Kirby. Ap. Angl. v. 2. p. 285. n. 62.

This very uncommon species of Apis is not mentioned by any entomological writer, except Mr. Kirby, whose "Monographia Apum Angliæ" affords a minute description of it. Mr. Kirby described it from a specimen in the cabinet of the late Mr. Drury, and assigned it the name of Druriella, in compliment to that zealous collector and writer; and we are perfectly disposed, for the same reason, to adopt it. It is almost needless to add, that being in possession of the English entomological cabinet of the late Mr. Drury, our sigures are delineated from the individual insect Mr. Kirby described.

The smallest insect at fig. I. I. represents Apis Druriella in its natural fize, that above exhibits its magnified appearance.

FIG. II. II.

APIS VARIEGATA.

VARIEGATED BEE.

SPECIFIC CHARACTER

AND

SYNONYMS.

Thorax and abdomen variegated with white: legs ferruginous.

APIS VARIEGATA: thorace abdomineque albo variegatis, pedibus ferrugineis. Linn. Fn. Suec. 1699.

NOMADA VARIEGATA: Fabr. Ent. Syft. T.2. p. 347. n. 5.

APIS VARIEGATA: nigra; trunco, abdomineque, albido variegatis; pedibus ferrugineis. Kirby Apium Angl. p. 222.

n. 36.

Panzer. Fn. Inf. Germ. Init. n. 61. tab. 20. Forst. Cat. Brit. Ins. n. 1033.

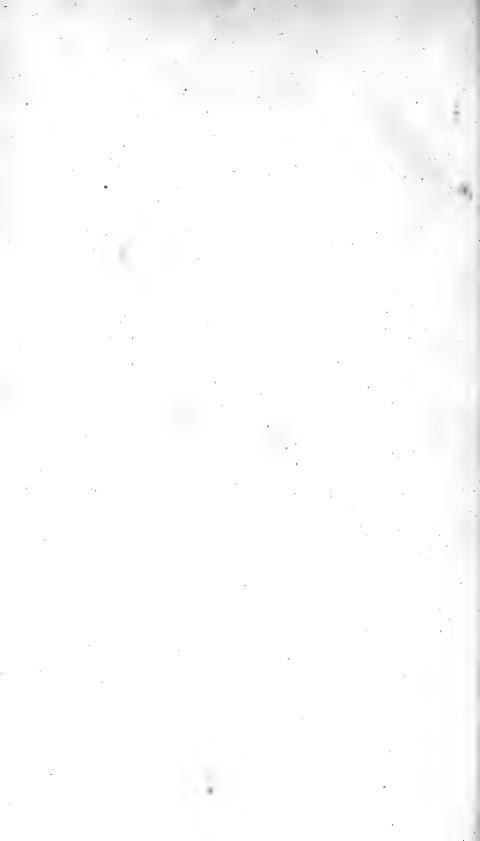
Apis. n. 26.

Apis muscaria, Christii. Hymenop. p. 195. tab. 17. sig. 5.

Apis

Apis variegata, though an infect of a small fize, is interesting for its rarity and elegance. This pretty species was first introduced to observation, as a British Insect, by Dr. Forster, in his "Nova Species Insectorum Centuria prima." Since his time, it seems to have been mentioned only by Mr. Kirby, who, in his work entitled Monographia Apum Anglia, observes, that he first saw this bee in the cabinet of Mr. Drury, and afterwards found it, but by no means common, in the autumn of two succeeding years, 1797 and 1798, slying about sunny banks; it is remarkable, that after the time last mentioned he never met with it.

This infect is liable to vary a little in colour in different individuals; and it is further observable, that the English specimens are smaller than those found in other parts of Europe.



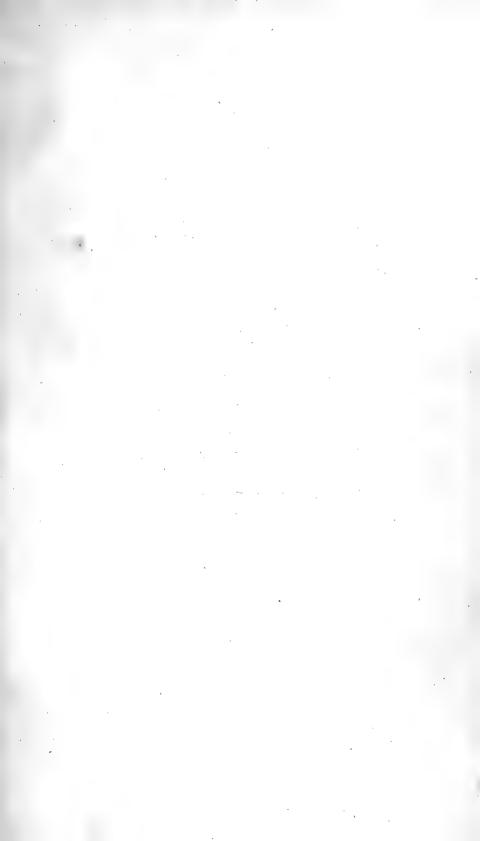






PLATE CCCC.

LUCANUS INERMIS,

SHORT-HORNED STAG BEETLE,

COLEOPTERA.

GENERIC CHARACTER.

Antennæ clavated, the club compressed and divided into pectinated leaves: jaws projecting and dentated: two palpigerous tusts under the lip: body oblong: anterior shanks dentated.

SPECIFIC CHARACTER

AND

SYNONYMS.

Convex, brown: jaws short, with raised lateral teeth.

Lucanus Inermis: convexus brunneus, maxillis brevibus, dente laterali elevato. Marsh. Ent. Brit. T. I. p. 48.

LUCANUS CERVUS. Linn. Faun. Suec. 405.

Lucanus Cervus. Var. \beta. Gmel. 1588. I. Fabr. Ent. Syft. 1. p. 2. 236. 2. Var. \beta.

Lucanus Dorcas. Harr. 5. 2.

Platycerus. La Grande Biche. Geoffr. I. 62. 2.

The Short-horned Stag-beetle is confidered by almost every writer either as the female, or as a variety of the Linnæan Lucanus Cervus. This opinion is controverted by Mr. Marsham, who informs us in his Entomologia Britannica, that he has taken the two sexes of the Cervus Lucanus together, in a state that can admit of no doubt, that they were really the two sexes of that species; or, at least, that there are both males and semales of the long-horned kind. At the same time the evidence of Geoffroy is adduced to prove still surther, that there are two distinct sexes of the Short-horned Stag Beetle, the insect hitherto believed by many to be the true semale of Cervus Lucanus.

The accuracy of the observations, upon which the affertions of the above mentioned authors are founded, admits of little dispute: that the infects in question have been found in the situation before intimated we must readily believe; but as this might happen whether they were in reality of the same species or not; and as the opinion generally supported by authors of the first respectability is in favour of the Short-horned Stag Beetle being the semale of the other kind, it is proper we should say a few words surther respecting them.

Roefel, in his description of the Cervus Lucanus, expressly tells us, he has found the male of that insect and the Short-horned Stag together, and concludes that they are of the same species. To this may be added the authority of Linnæus, who caught them in the same situation, and naturally inferred, for the same reason, that they were the two sexes of an individual species. Neither are those the only writers, who mention the same circumstance; and besides those, the sact is sufficiently well known to many practical collectors, who have observed them in the same state, without in the least suspecting that they were in reality the male and semale of two distinct, though very analogous species.

When two infects, however diffimilar in appearance, occur together in this state, it is a natural conclusion, that they are the two sexes of the same species. This is pretty generally, but not invariably the fact. It requires only a very curfory attention, for example, to the genera of Cicada and Coccinella to prove, that the most promiscuous intercourse prevails between the two sexes of the greater number of species in those extensive genera; and that the varieties arising from this intercouse of the sexes are the source of inexplicable confusion to the entomologist; a spurious brood being by that means introduced, that cannot eafily be reduced to either of the parent species. The fame applies, though certainly with a lefs degree of latitude, to fome larger infects, especially in the Coleoptera tribe. We must allow, that, though it is almost a conclusive evidence. when we find infects of the two fexes coupled together, that they are of the fame species; but it does not follow, as a matter of certainty, that they are fuch: the conclusion is specious, and in general correct, but we cannot always depend on it. Even fo it appears with regard to the Long-horned and Short-horned Stag Beetles: when we find, as is not unfrequently the cafe, those two infects connected together, we conclude, they are the true male and female of the fame species; and probably without further examination affent to the popular notion, that the horned kind is the male, and the hornless fort the female, whereas perhaps the very reverse might with a flight attention be fometimes discovered; we might detect the horned female with the hornless male. It is a little remarkable we must indeed confess, in admitting that there are males and females of both kinds, that those rovers should so rarely occur in connection with the infects, which nature has ordained as their respective mates.

It has been previously remarked, that we may rest assisted at least, that there are males as well as semales both of the Short and the Long-horned Stag Beetles. Geosfroy is believed to have been the first writer, who discovered the error of consounding the former with the semale of the latter: he describes the Short-horned kind under

the name of La Grande Biche, and tells us he has frequently feen both fexes of this infect coupled together*. He observes, however, that he has never seen the two sexes of the long-horned kind in the same state, a circumstance that in our mind rather weakens than confirms the strength of his former remark. Neither does Geoffroy take notice of any difference of appearance between the male and semale of his Grand Biche, which leaves us in further doubt. If, notwithstanding, we can rely upon this writer, one disputed fact may be collected from the result of his remarks, namely, that there are both males and semales of the Short-horned Stag Beetle.

This point attained, our attention is next directed to discover the true female of Cervus Lucanus; and this, if we are not mistaken, has been noticed only by Mr. Marsham. This gentleman, as it appears from the Entomologia Britannica, was fo fortunate as to take the two fexes together, fome years ago. The female is described as being in no respect different from the male, except in fize, which is fmaller; the horns are as large in proportion, they are befet with about feven nearly equal and approximate teeth, and have not one larger and remote from the rest. The discovery of the female of the Lucanus Cervus was a defirable circumstance; not merely as being the means of afcertaining the history of that infect, but as adding a further confirmation to the observations of Geoffroy, with regard to the Short-horned Stag, which they feem to us to require +. We have no doubt, that Geoffroy discovered both sexes of the Grande Biche, but it would have been more fatisfactory had he been acquainted with the true female of the Cervus Lucanus.

^{* &}quot;Cette animal (La Grande Biche) refemble beaucoup au précédent; quelques personnes même ont cru qu'il n'en disservit que par la sexe, prenant celui-ci pour la femelle, et le cers-volant pour la mâle: mais quoiquils se resemblent beaucoup pour la forme, la grandeur, et la couleur, il est prousérent pas seulement par le sexe, ayant rencontré plusieurs fois des biches accouplées ensemble, et jamais avec des cers volans.

^{• † &}quot;Et nos etiam Geoffroyii fententiam comprobamus, cornutos enim copula conjunctus cepinus." Mar/h. Ent. Brit. T. I. p. 48. n. 2.

only add, that no doubt can remain as to the two Long-horned Stag Beetles, taken by Mr. Marsham, being a male and female, as they were diffected by Mr. Leman to determine the fact with precision.

The Short-horned Stag Beetle has the fame haunts as the Cervus Lucanus, being found chiefly in the trunks of old or rotten trees, and is not uncommon.













PLATE CCCCI.

FIG. I.

MUSCA PYRASTRI.

DIPTERA.

GENERIC CHARACTER.

Mouth with a foft exferted fleshy proboscis, and two unequal lips: sucker beset with bristles: feelers short and two in number, or sometimes none: antennæ usually short.

* Antennæ a naked briftle.

SPECIFIC CHARACTER

AND

SYNONYMS.

Almost naked, black: thorax immaculate: abdomen with three pair of recurved whitish lunules.

Musca Pyrastri: nudiuscula, nigra, thorace immaculato, abdomine bis tribus lunulis albis recurvatis. Linn. Fn. Suec. 1817.

Scop. Ent. Carn. 931.

Gmel. Linn. Syst. Nat. 2875. sp. 51.

Syrphus Pyrastri. Fabr. Spec. Inf. 2. p. 432. n. 58.—Mant. Inf. 2. p. 340. n. 67.—Ent. Syft. T. 4. 305. n. 102.

D 2 Musca

Musca Rosz. De Geer. Inf. 6. p. 108. n. 5. t. 6. fig. 18.

Musca thorace nigro-viridi, abdomine atro ovato, tribus paribus lunularum albicantium.—La mouche à six taches blanches en croissant sur le ventre. Geoffr. Inf. 2.

517. n. 46.

Frisch. Inf. 11. t. 22. f. 1.

Reaum. Inf. 3. t. 31. f. 9.

The larva of this Infect feeds on the species of aphis that infects the common pear; it is of a fine green colour, with a single yellowish white dorsal line, extending the whole length, from the head to the extremity of the tail. The winged infect occurs in gardens.

FIG. II.

MUSCA CAEMETERIORUM.

SPECIFIC CHARACTER

A N D

SYNONYMS.

Braffy black: abdomen deprefied, black, and fhining: wings blackifh.

Musca Caemeteriorum: nigro acneus abdomine depresso atro nitido, alis nigricantibus. Linn. Fn. Suec. 1842. Syst. Nat. 2, 992, 82.

Syrphus Caemeteriorum: Fabr. Ent. Syft. T. 4. p. 303. n. 94.

Inhabits Sweden, and other parts of Europe, as well as England.

FIG. III.

MUSCA RIBESII.

RED CURRANT-LOUSE FLY.

SPECIFIC CHARACTER

AND

SYNONYMS.

Almost naked: thorax immaculate: abdomen with four yellow belts, the first interrupted.

Musca Ribeschi: nigra nudiuscula, thorace immaculato, abdomine cingulis quatuor flavis: primo interrupto.

Linn. Fn. Suec. 1817.—Gmel. Linn. Syst. Nat. 2875. n. 50.

Feeds on the aphides ribis, or plant-loufe, that infefts the red current.

This infect agrees with the Linnean specific description of Ribescii; yet we must observe, that the extreme segment of the abdomen being yellow, seems to form a sisth, or additional yellow band, to the sour described by that author and by Fabricius.



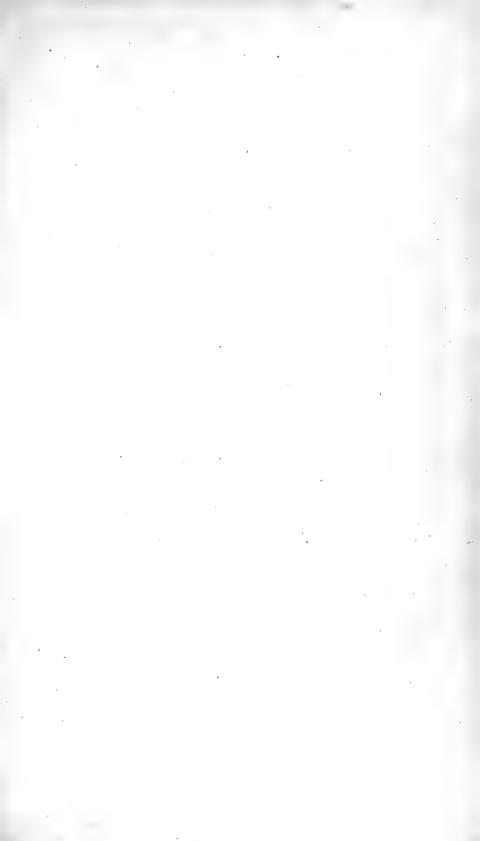






PLATE CCCCII.

TENTHREDO SERICEA.

SILKY SAW-FLY.

HYMENOPTERA.

GENERIC CHARACTER

Mouth with a horny mandible, curved and toothed within: jaw ftraight and obtuse at the tips: lips cylindrical and three cleft: feelers four unequal and filiform: wings flat and tumid: sting composed of two ferrated laminæ, and scarcely disclosed.

SPECIFIC CHARACTER

AND

SYNONYMS.

Antennæ clavated, reddish, or black; abdomen green, or dusky, and bronzed.

Tenthredo Sericea: antennis clavatis luteis, thorace atro: abdomine aeneo. Linn. Syft. Nat. 2. 921. 8.— Schaeff. Elem. Tab. 51. β Tenthredo nitens antennis clavatis luteis, abdomine viridi cœrule-fcente nitente. Linn. Syft. Nat. 2. 922. 10.— Fn. Suec. 1532.—Sulz. Inf. tab. 18. fig. 109.

The two fexes of Tenthredo Sericea differ fo greatly from each other, that some authors have mistaken them for distinct species.

Linnæus

Linnæus describes the male as a variety of the female. The male insect, which we have represented, is of a beautiful silky greenish colour, glossed with a braffy lustre, the antennæ clavated and brown: legs yellow, except at the base of the thighs, which are black, and the five last joints of the abdomen marked in the center with a broad stripe of dark, or velvetty black. The semale has the colours throughout more obscure, the antennæ are dusky, approaching black; the thorax dark, and the abdomen braffy, but tinged with a sombrous hue instead of green, and the wings are rather darker than in the male.

This elegant species is inserted among our British Insects upon the authority of two specimens, which we are credibly informed were found in England. Fabricius describes it as the offspring of a short green-coloured larva, which is marked with two yellow lines, and has a cinereous head, with a reddish brown band. It feeds on the alder.









PLATE CCCCIII.

FIG. I.

APIS IRICOLOR.

IRICOLOR BEE.

HYMENOPTERA.

GENERIC CHARACTER.

Mouth horny: jaw and lip membranaceous at the tip: tongue inflected: feelers four, unequal, filiform: antennæ fhort, and filiform; those of the female fomewhat clavated: fting of the females and neuters pungent, and concealed within the abdomen.

SPECIFIC CHARACTER

SYNONYMS.

Violaceous, above glabrous: wings blackish.

APIS IRICOLOR: violacea, fupra glabra; alis nigricantibus. Kirby,
Ap. Angl. T. 2. p. 310. n. 72.

Drury Inf. Vol. I. p. 108. tab. 45. fig. 3.

APIS VIRENS: Christii Hymenop. p. 123. tab. 6, fig. 2.

Apis Iricolor is, a large and beautiful species, but which, we are almost persuaded, has been introduced into the British Catalogue without sufficient reason. Mr. Kirby sound it in Dr. Latham's YOL. XII.

cabinet among his English apes; but Dr. Latham did not recollect where it was taken, or upon what authority he confiders it as British. Notwithstanding this, Mr. Kirby has inferted the species in his " Monographia Apum Anglia", and, in compliance with this authority, we have ventured to introduce it into the prefent Work: conceiving that after this explicit avowal of our only motive for enumerating it among the British Insects, we shall not be deemed entirely responsible for the accuracy of our information. iricolor is well-known as a native of the West Indies. Drury's work on Exotic Infects contains the figure of a specimen he received from the ifland of Jamaica. It very much refembles the Linnæan apis violacea, but has the body violaceous inftead of black, and the wings blackith inftead of violet. We fhould observe, that the wings in our specimen of Apis Iricolor does not appear to be so dark or blackish in colour as in the individual figured and described by Drury; they are dufky, rather inclining to brown, and flightly gloffed with green: the thorax fine blue, and very glabrous; abdomen inclining more to greenish, and the segments edged at the base with fine reddish purple.

FIG. II. II. APIS BANKSIANA.

BANKSIAN BEE.

SPUCIFIC CHARACTER

AND

SYNONY MS.

Deep black, flining, glabrous; claws rufous.

Aris Banksiana: atra, nitida, glabriufcula; digitis rufis. Kirby Ap. Angl. T. 2. p. 179. n. 3.

Very

Very fimilar to the Apis Linnæella of Kirby, but twice its fize: Apis Linnæella is likewife diftinguished by having the extreme half of the antennae rusous; whereas in the Apis Banksiana, the whole of the antennæ is black. This new species is named after Sir Joseph Banks, Bart. It is a rare insect.

The fmallest figure denotes the natural fize.

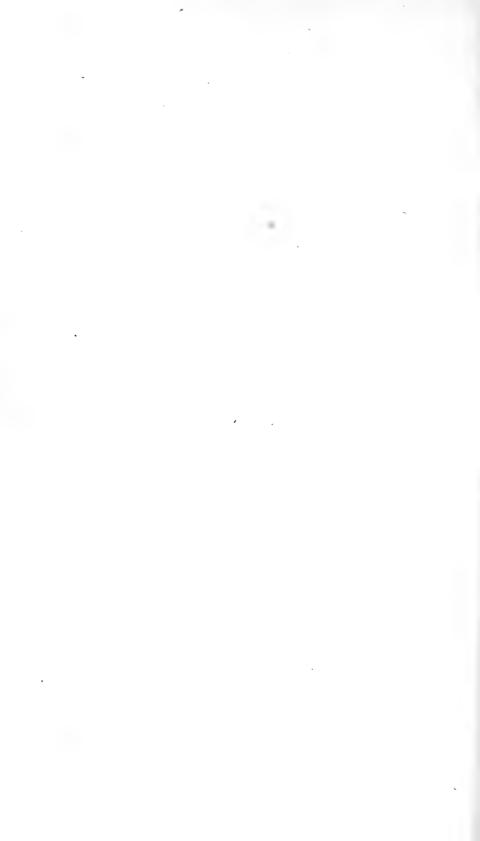












PLATE CCCCIV.

FIG. I.

SCARABÆUS FIMETARIUS.

COLEOPTERA.

GENERIC CHARACTER.

Antennæ clavated, the club fiffile: fhanks of the anterior legs generally dentated.

SPECIFIC CHARACTER

ANI

SYNONYMS.

Head tuberculated: wing-cafes red: body black.

- SCARAREUS FIMETARIUS: capite tuberculato, elytris rubris, corpore nigro. Marsh. Ent. Brit. T. 1. p. 10. n. 7.
- Scarabæus Fimetarius: ater, capite tuberculato, elytris rubris.

 Linn. Fn. Suec. 385.—Syft. Nat. 548. 32.—
 Fabr. sp. Inf. 1. p. 16. n. 64. Ent. Syft. 1.
 27. 84.

Scarabæus pilularius nonus. Raj. Inf. p. 106. n. 9. LE SCARABÉ BEDEAU: Geoffr. Inf. 1. p. 81. n. 18.

Very common in the dung of cattle.

The head of this infect is black: the flield of the head fubrotund: thorax punctured and black, with a large anterior testaceous spot on each fide. The colour of the wing-cases vary from rusous brown to reddish: the legs are black, except the tars, which are rusous.

FIG. II.

SCARABÆUS SORDIDUS.

SPECIFIC CHARACTER

AND

SYNONYMS.

Head tuberculated: thorace black: margin pale with a black dot on each fide: wing-cases testaceous.

Scarabeus Sordidus: capite tuberculato, thorace nigro: margine pallido: puncto nigro, elytris-testaceis. Marsh. Ent. Syst. T. 1. p. 10. n. 6.

Scarabæus Sordidus: capite tuberculato, thorace nigro: margine pallido, puncto nigro, elytris grifeis. Fabr. Spec. Inf. I. 17. 68.—Syft. Ent. 16. 55.—Ent. Syft. I. 29. 90.—Schaeff. Icon. t. 74. f. 3.

This infect is the fame fize as the preceding, the figure in our plate being magnified; and, like that species, it is found in horse-dung, but less frequently.

The antennæ are pale: head pale with three tuberculations: thorax punctured, black, with an entire pale or reddiff border, which is broadeft

broadest at the fides, and a fingle lateral dot of black: wing cases fordid testaceous, and marked in general with two black dots each, but which in some specimens are scarcely visible.

FIG. III.

SCARABÆUS SORDIDUS. Var.

Among other varieties of Scarabæus sordidus, we fometimes observe it without any of those black spots, which appear so conspicuous on the wing-cases of the insect delineated at No. 2. An enlarged sigure of this immaculate variety is represented at sig. 3.

FIG. IV.

SCARABÆUS COPRINUS.

SPECIFIC CHARACTER

AND

SYNONYMS.

Deep black, wing-cases testaceous with dotted striæ, and black suture.

SCARABEUS COPRINUS: ater, elytris punctato-firiatis teftaceis: futura nigra. Marsh. Ent. Syst. T. 1. p. 12. n. 11. SCARABEUS SORDENS. Gmel. 1546. 413?

Found in dung. This is a fcarce species, and has not been noticed by Fabricius.

PLATE







PLATE CCCCV.

PAPILIO PILOSELLÆ.

LARGE HEATH, OR GATE-KEEPER BUTTERFLY.

LEPIDOPTERA.

GENERIC CHARACTER.

Antennæ terminated in a club: wings erect when at reft: fly by day.

SPECIFIC CHARACTER

AND

SYNONYMS.

Wings indented, fuscous, with fulvous disk: anterior pair with a bipupillated black spot near the tip; and snowy dots on the posterior wings beneath.

- Papilio Pilosellæ: alis dentatis fuscis: disco fulvo, anticis utrinque ocello nigro: pupilla gemina, posticis subtus punctis ocellaribus niveis. Linn. Syst. Mant. I. 537.
- Papilio Pilosellæ: Fabr. Ent. Syst. 3. 240. 748.—Syst. Ent. 497. 233.

Papilio Tithonus. Fabr. Spec. Inf. 80. 355.

Papilio Pilosellæ: Gmel. Linn. Syst. Nat. 2300. n. 552.

PAPILILIO PILOSELLE, LARGE HEATH. Haworth Lep. Brit. p. 24. n. 28.

VOL. XII. F PAPILIO

Papilio Herse. Wien Schmetterl. p. 320. n. 24. Papilio Tithonus: Lewin. Pap. 22.

This is one of the most abundant of the European Papiliones. In England it literally swarms about the hedges in the month of July, when it appears in the winged state. The larva is greenish, with a white line, and brown head: it is found in this state in June.—The male of this butterfly is rather smaller than the female, and is distinguished surther by having an oblique dusky band across the sulvous disk of the anterior wings.



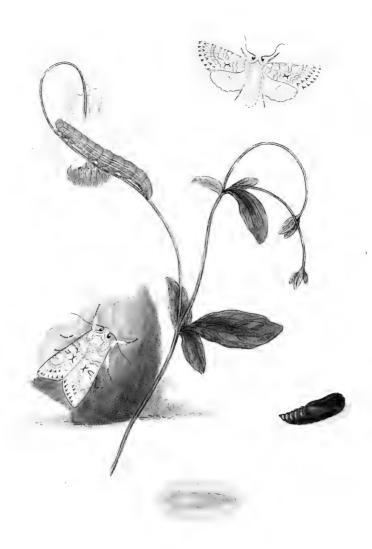


PLATE CCCCVI.

PHALÆNA CHI.

CHI MOTH.

LEPIDOPTERA.

Noctua.

GENERIC CHARACTER.

Antennæ gradually tapering from the base to the tip: wings in general deflected when at rest. Fly by night.

SPECIFIC CHARACTER

AND

SYNONYMS.

Wings hoary grey: anterior pair marked with a black x.

PHALENA CHI: alis canis: superioribus χ nigro notatis. Linn. Fn. Suec. 1180.

NOCTUA CHI: Fabr. Spec. Inf. 2. p. 236. n. 130.—Mant. Inf. 2. p. 174. n. 258.—Ent. Syft. T. 3. p. 2. p. 107. n. 321.

Phalena feticornis spirilingius, alis deflexis, superioribus cinereo susceptus enebulosis, lineis undulatis et omicro nigris, inferioribus cinereis. L'OMICRON NÉBULEUX Geoffr. Inf. 2. p. 156. n. 93.

Albin Inf. t. 83. f. C. D. Roe. Inf. 1. Phal. 2. t. 13.

 \mathbf{F}_{2}

During

During one of our fummer excursions through the northern parts of the principality of Wales, we discovered by accident a solitary specimen of Phalæna Chi, resting among the lichens that encrust the side of that venerable memorial of Druidical antiquity, the larger Cromlech, at Plas Newydd in the isse of Anglesea. We observed it in a persectly quiescent state, apparently just as it had emerged from the pupa in the open day time. This was on the 17th day of August: we conceive it requisite to mention this precisely, as the time of its appearance in the winged state has been stated by one writer to be July instead of August, and that on the authority of the individual specimen above mentioned *.

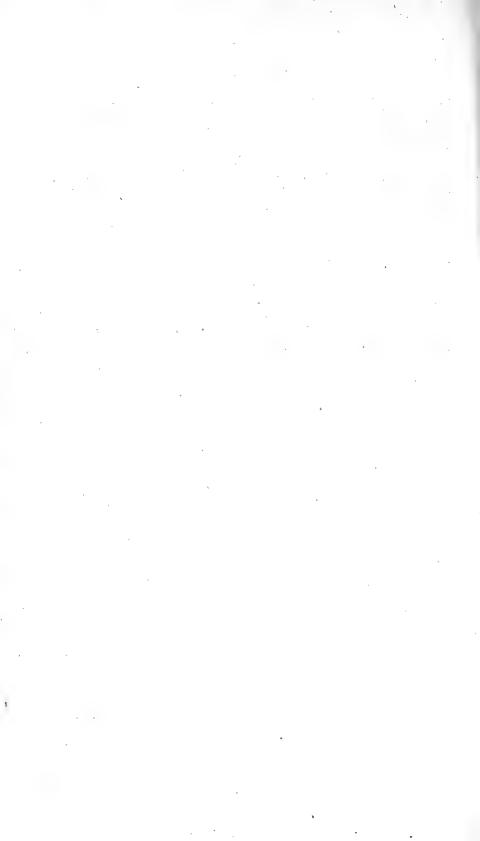
An erroneous reference among the Fabrician fynonyms of Phalæna Chi, to the work of Albin (Plate 83), had long fince induced the English collectors to consider the Phalæna Chi as a native of this country; but under this impression they mistook a very different insect for the Chi of Linnæus. Indeed the infect figured in Plate 83 of the work of Albin is no other than the common Sycamore Moth (Phal. Aceris of Brit. Inf.). It is therefore clear, this incautious reference has been productive of confiderable mifunderstanding, and that the Phalæna Chi, though really British, was not introduced with propriety as fuch, till we discovered it in Anglesea. We should however add. that among a number of infects found in Yorkshire, and communicated for our inspection by Mr. Rippon, of York, we found an insect very analogous, and apparently a variety of the fame species, though of a darker colour than our Cambrian specimen, which in this respect accords extremely well with the Linnæan expression, "alis canis." It should be remarked, that Geosfroy, who describes Phalæna Chi, as an infect by no means uncommon in France, tells us, it varies much in fize, and speaks of varieties that are reddish, and others

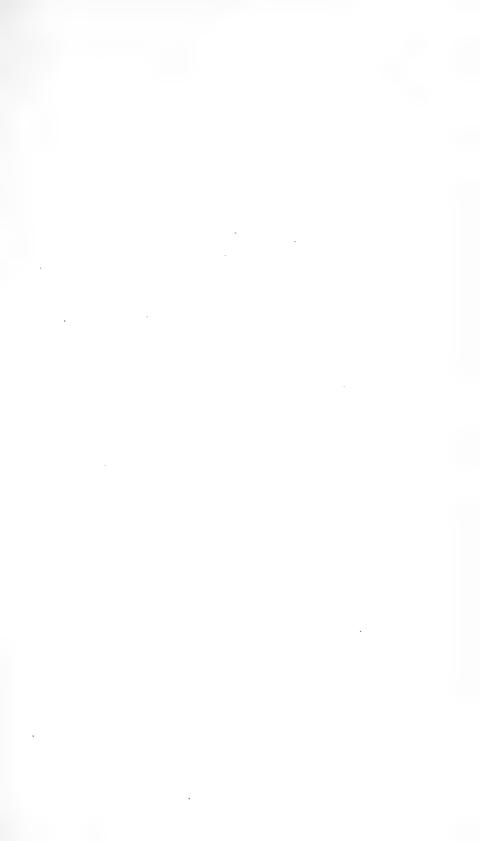
^{*} Noctua Chiina, Jul. Septis. Haworth Prod. Lep. Brit.

blackish*, though they agree in the markings; and he further obferves, that the female is of a more cinereous colour than the male, but has the same kind of spots on the wings.

Our figure of the larva is taken from a well-preserved specimen lately obtained by us from Germany as the larva of this species, and which agrees so exactly with the Linnæan description, and the figure in the plate of Roesel, that we cannot hesitate to admit it as such. The pupa delineated in our plate is also from the same source. The food of the Phalæna Chi is the columbine and the thistle.

[&]quot; Il y a des variétes de cette Phalêne, qui font rougeatres et d'autres noiratres : mais toutes ont les deux taches ronde et quarrée sur les aîlés.





Geoffroy speaks of this species of Dragon-fly as a rare insect in France, and we believe it to be very uncommon in England. The only specimen we have seen is one we posses in the cabinet of Mr. Drury, but from whence he obtained it we cannot ascertain. Ray appears to have described this insect as a native of Britain *.

This species bears some resemblance to the semale of Libellula Depressay, in size and general appearance; but on the slightest inspection will be sound entirely distinct. The abdomen is less depressed on the back and narrower, and being besides somewhat compressed at the sides, assumes a much more linear form in the middle than Libellula Depressa. The wings are totally different, and afford an excellent characteristic by which the species may be distinguished. Each of those wings are marked on the anterior or costal rib, with two small brown spots, the one of which is situated near the apex, as in most of the tribe; the other about the middle on the anterior part of each wing: all the wings are yellowish at the base, and in the posterior pair, that part is distinguished further by having a large brown spot, contiguous to the body.

^{*} Ray Inf. p. 49. n. 3.

t Brit. Inf. Vol. I. pl. 24.





PLATE CCCCVIII.

FIG. I. I.

APIS CORNIGERA.

HYMENOPTERA.

GENERIC CHARACTER.

Mouth horny: jaw and lip membranaceous at the tip: tongue inflected: feelers four, unequal, filiform: antennæ fhort, and filiform; those of the female fomewhat clavated: fting of the females and neuters pungent, and concealed within the abdomen.

SPECIFIC CHARACTER

AND

SYNONYMS.

Deep black: lip fomewhat cornuted: first abdominal fegment with yellow spots on the back: beneath ferruginous: abdomen variegated with yellow bands.

APIS CORNIGERA: atra, labio fubcornuto; abdominis ventre bafa ferrugineo, tergo maculis, facilique flavis variegato. Kirby Ap. Angl. T. 2. p. 190. n. 11.

In the Apum Angliæ above quoted it is observed, that when this infect is alive, it emits a very agreeable scent. We have never vol. x11.

taken this individual species alive ourselves; but we have observed a similar odour emitted by other insects of the same family.—Apis Cornigera is an insect liable to considerable variations; we possess several insects in our own cabinet, which appear to be varieties, as they possess the same characteristic specific marks in general, though they differ in some other particulars. It is an elegant and interesting insect.

FIG. II. II.

APIS JACOBÆÆ.

SPECIFIC CHARACTER

AND

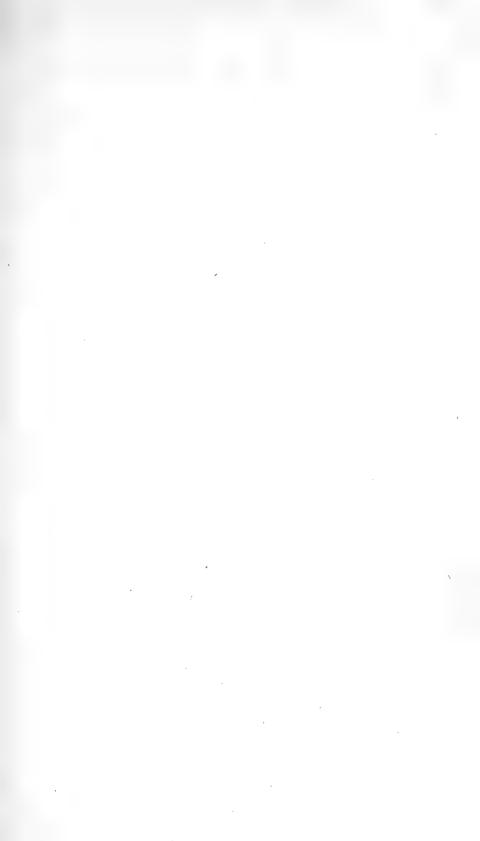
SYNONYMS.

Deep black: legs ferruginous: abdomen with fix yellow bands, the three first interrupted: antennæ above black.

APIS JACOBÆÆ: atra; pedibus ferrugineis; fcutelli punctis, abdominisque maculis fasciisque, flavis; antennis supra nigris. Kirby Ap. Ang. T. I. p. 201. n. 20.

Nomada Jacobææ: nigra; abdomine fasciis sex slavis, primis tribus interruptis, antennisque flavis. Panz. Fn. Inst. Germ. Init. n. 72. tab. 20.

Found in fpring on the flowers of the goofeberry.



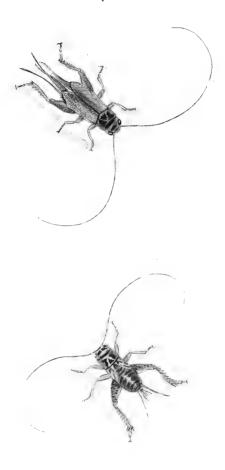


PLATE CCCCIX.

GRYLLUS DOMESTICUS.

HOUSE CRICKET.

HEMIPTERA.

GENERIC CHARACTER.

Head inflated, armed with jaws: feelers filiform: antennæ ufually fetaceous, or filiform: wings four, deflected, convolute, the lower ones plaited: posterior legs formed for leaping: claws double.

** Section Acheta. Antennæ fetaceous: feelers unequal; thorax rounded: tail with two briftles.

SPECIFIC CHARACTER

AND

SYNONYMS.

Wings tailed, and longer than the wing-cases: body glaucous.

GRYLLUS DOMESTICUS: alis caudatis elytro longioribus, pedibus fimplicibus, corpore glauco. Linn. Fn. Suec. 868.—Scop. Ent. Carn. 318.

Acheta Domestica: Fabr. Ent. Syst. T. 2. p. 29. n. 3.

GRYLLUS DOMESTICUS: Mouffet. Inf. p. 135.

Grylli Mouffeti. Jonst. Inf. 12.

Le Grillon, Geoffr. T. I. p. 389. n. 2.

G 2 Few

Few infects are more familiar than the common Cricket. It frequents houses, and is superstitiously esteemed by many a welcome inmate.

This little animal is not only fond of warmth, but, as though an almost intense and suffocating heat were absolutely necessary to its very being, it is constantly found most abundantly in bakehouses, kitchen chimnies, and other places where the greatest heats prevail. Besides the inaccessibility of its lurking places in general, nothing has more fully contributed to the preservation of those insects than the filly veneration which the vulgar entertain for it; interpreting its presence as an omen of good fortune, and conceiving it would be unpropitious to harm or destroy it.

The Cricket is indeed an animal of inoffensive manners; it is troublesome only from the incessancy of its chirping, which continues without intermission night and day. Some think its note louder before rain than at any other time; a circumstance afferted both by Linnæus and Fabricius. Geoffroy says, this noise is occasioned by the friction of its thorax against the head and wing-cases. According to Poda, the Cricket deserts houses insested with the cock roach, and is destroyed by pills of arsenic and the fresh root of the daucus mixed with slour, or the root of the nymphæa boiled in milk.







PLATE CCCCX.

FIG. I.

APIS PICIPES.

HYMENOPTERA.

GENERIC CHARACTER.

Mouth horny: jaw and lip membranaceous at the tip: tongue inflected: feelers four, unequal, filiform: antennæ short, and filiform; those of the semale somewhat clavated: sting of the semales and neuters pungent, and concealed within the abdomen.

SPECIFIC CHARACTER

AND

SYNONYMS.

APIS PICIPES. Black, covered with pale down: thorax tinged with fulvous: abdomen fuscous: legs rufous, pitchy.

MELITTA PICIPES: nigra, pallido-villosa; thorace fulvescenti; abdomine susco; pedibus ruso-piceis. Kirby. Ap. Angl. T.n. p. 127. n. 66.

Described by Mr. Kirby as a new species of his genus Melitta from the individual specimen (Apis, n. 65, of Mr. Drury's cabinet), figured

figured in the annexed plate. It appears, the species has not been observed in any other collection.

This infect is of a moderate fize, as the line describing its length at fig. 1, in the lower part of the plate is intended to shew. The prevailing colour is black, but assumes a greyish aspect from the pale downy hairs with which it is partially covered: the thorax is more villous than the body, and this villosity partakes in a slight degree of a sulvous tint; a few hairs of the same colour is also observeable about the head; the antennæ are blackish; wings hyaline with the nerves pale testaceous.

FIG. II.

APIS DISJUNCTA.

SPECIFIC CHARACTER.

AND

SYNONYMS.

Black: posterior part of the thorax, and anterior part of the abdomen yellow downy: wings suscous.

APIS DISJUNCTA: nigra thorace postice abdominisque antice tomentoso flavis, alis suscis. Fabr. Ent. Syst. T. 2, 328. n. 61.

ANTHROPHORA DISJUNCTA. Fabr. Syst. Piez. 374. n. 10.

Among the British Apes in the cabinet of Mr. Drury (No. 38), we possess a specimen of this remarkable insect, and which we think

toe

too interesting to be omitted. We cannot pretend to determine on what authority it was introduced into that collection, neither are we inclined to pledge our opinion in favour of its being a genuine British Infect; we consider only that it might have been found alive in England, and under this idea may be noticed with propriety in the prefent work. Mr. Kirby did not confider it as an English Insect, or he would have introduced it into his Apum Angliæ. This infect, like Apis Iricolor, inferted as British in Mr. Kirby's work on the authority of a specimen in Dr. Latham's collection, is known as a native of the West Indies, and may possibly, as well as that infect, have been brought into England with fome West Indian cargoes, and been afterwards discovered by accident at large in the country. Many well authenticated infrances of this kind have occurred within our own knowledge. Aware of this, we cannot confidently admit an extra European infect as an aborigine, but as an occasional wanderer from the tropic regions found alive in this country; and which, from its habits of life, might even become the origin of a future British species.

We should rather suspect from the appearance of the infect, that it has been introduced in some piece of timber imported from the American islands, for it is of the same natural samily as the Apis Centuncularis, or Carpenter Bee, which is well known to undergo its various transformations in centunculi, or small cells formed of leaves, and deposited in large hollow cavities bored through the timber by the parent semale: this is not in the least unlikely, as this tribe of infects remain for a considerable period of time in the egg, larva, and pupa state, that the infect might have been deposited in the egg state in the West Indies, and was not liberated from its confinement till the timber, in which it was concealed, arrived in England.—The insect is shewn of its natural size in the annexed plate.

This species seems to be the insect described by Fabricius, as above referred to; and has not, we believe, been figured by any author.

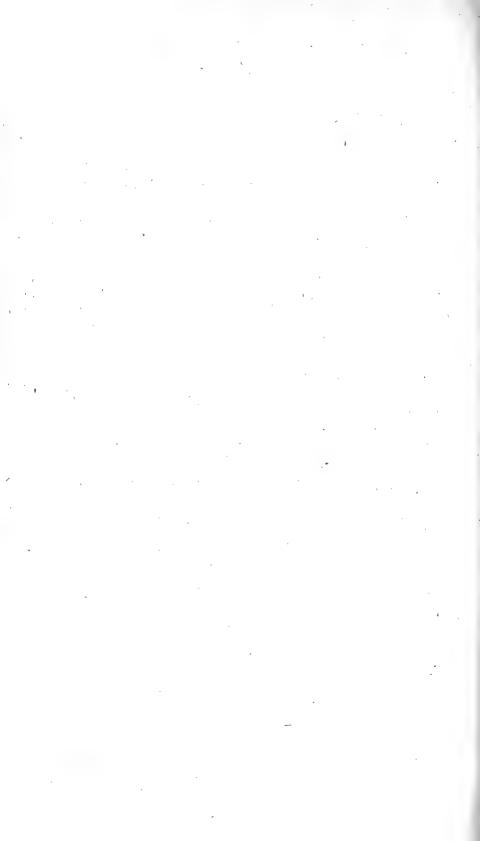






PLATE CCCCXL

FIG. I. I.

CLERUS MOLLIS.

COLEOPTERA.

GENERIC CHARACTER.

Antennæ moniliform, with the three extreme joints largeft: head bent down: thorax convex and attenuated behind: wing-cafes flexile, body elongated and fomewhat oblong.

SPECIFIC CHARACTER

AND

SYNONYMS.

Grey and pubefcent, with three paler bands on the wing-cases.

CLERUS MOLLIS: grifeus pubefcens, elytris fasciis tribus pallidis.

Marsh. Ent. Brit. T. I. p. 322. n. 2.

ATTBLABUS MOLLIS: Linn. Syft. Nat. 621. n. 11.—Fn. Suec. 642.

Notoxus Mollis: Fabr. Syft. Ent. 158. 1.—Spec. Inf. I. 203. I.—Mant. I. 127. 3.—Ent. Syft. I. p. 211. 5.

Notoxus Mollis: Gmel. Linn: Syft. Nat. 1813. 3.

DERMESTES MOLLIS: Schrank. 37.

Curculio. Udd. Diff. 28. t. I. f. 9.

Le Clairon porte-croix. Geoffr. I. 305. 3.

A rare infect in England. Inhabits woods. The fmallest figure denotes the natural fize.

FIG. II. II.

TILLUS BIMACULATUS.

GENERIC CHARACTER.

Antennæ filiform and ferrated: head fomewhat declining: thorax convex, oblong and attenuated both before and behind: body linear and elongated.

SPECIFIC CHARACTER.

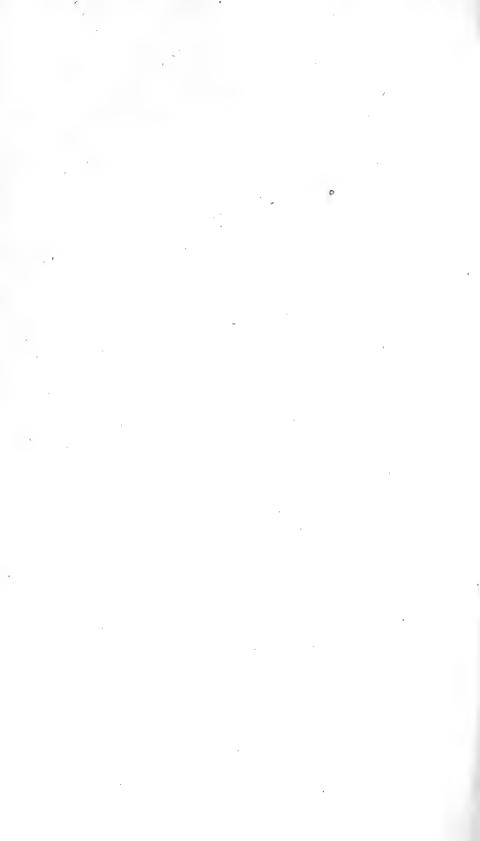
TILLUS BIMACULATUS: blue-black: with a pale ferruginous fpot on the wing-cases.

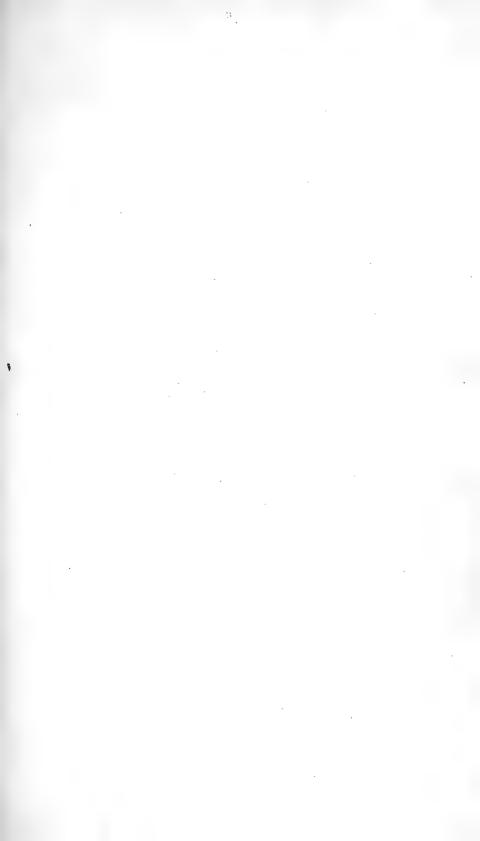
Fabricius describes three species of the genus Tillus in his Entomologia Systematica, elongatus, ambulans, & serraticornis; all which are found in Europe, and the two first in this country. To these Mr. Marsham adds two other British species, æneus and vireus; including at the same time, as a fifth species, the Clerus unisasciatus of Fabricius. Thus it appears, we possess five described species of this genus in Britain, neither of which agreeing with our present insect, we presume to offer it as a fixth and new species.

Besides the five species of Tillus above mentioned, the late Fabrician work, Supplem. Ent. Syst. contains two more species, damicornis, a native of America, and Weberi, a German insect. Neither of those, however, correspond with our insects; and we have therefore

therefore no hefitation in admitting it as a non-defcript, as well as new British species.

We have once feen this infect alive in the woods of Kent, but accidentally loft it: the only specimen we now possess is in the cabinet of the late Mr. Drury: and we do not recollect to have ever feen it in any other.





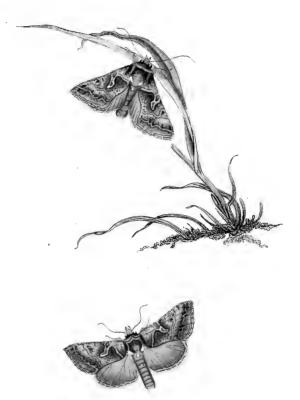


PLATE CCCCXII.

PHALÆNA FLEXUOSA.

YORKSHIRE Y MOTH.

LÉPIDOPTERA.

GENERIC CHARACTER.

Antennæ gradually tapering from the base to the tip: wings in general deflected when at rest. Fly by night.

* Noctua.

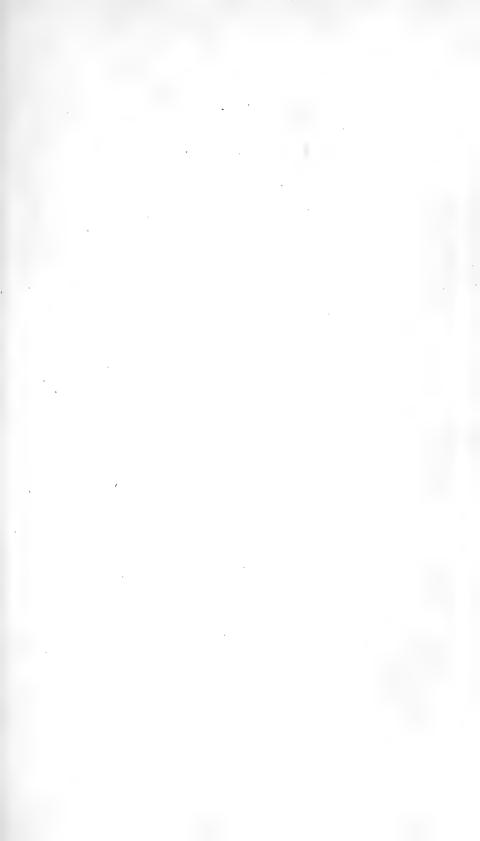
SPECIFIC CHARACTER.

NOCTUA FLEXUOSA. Anterior wings reddiff-grey varied with fub-ferruginous: in the middle a flexuous white ftreak inclosing a pale lobiform spot.

This species of Noctua is described upon the authority of an unique British specimen in the cabinet of Mr. Drury, that has not been hitherto described by any writer. It was taken in Yorkshire, and has been denominated among English collectors to whom the circumstance was known, the Yorkshire Y Moth. We name it Flexuosa from the whitish slexuous line, which originates at the inner edge of the first wings near the base, and passing from thence

in a circuitous direction to the middle of the wing, encircles a small lobe-shaped spot of a pale clay colour; in other respects this species is not unlike the common Y Moth Phalana Interrogationis, but in this very striking character it is totally distinct.

Our Noctua Flexuosa is very different from either of the anlagous species, except that above mentioned; neither does it accord with any others described in foreign entomological works with which we are acquainted. The figures which represent it both in an incumbent posture, and with the wings expended, are sufficiently correct to render any surther description of this interesting infect unnecessary.



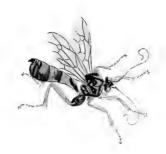




PLATE CCCCXIII.

BANCHUS PICTUS.

HYMENOPTERA.

GENERIC CHARACTER.

Feelers four, elongated, with the joints cylindrical: lip at the base cylindrical and horny, tip membranaceous, rounded, and entire: antennæ setaceous.

SPECIFIC CHARACTER

AND

SYNONYMS.

Black varied with yellow; fcutel fomewhat spinous.

Banchus Pictus: niger flavo varius fcutello fubspinoso. Fabr. Supp. Ent. p. 234. n. 7.

Described by Fabricius as a native of Germany from the cabinet of Smidt.—Not before noticed as a British species.

The fmallest figure denotes the true fize of this curious infect.







PLATE CCCCXIV.

FIG. I. I.

CURCULIO VAU.

COLEOPTERA.

GENERIC CHARACTER.

Antennæ clavated, and feated on the fnout, which is horny and prominent: posterior part of the head thick.

SPECIFIC CHARACTER

AND

SYNONYMS.

Wing cases with a spot, and common V-mark of white.

Curculio Vau: elytris macula et figura V communi albis. Marsh. Ent. Brit. T. 1. p. 299. n. 177.—Schrank, 227.—Vill. I. 214. 174.

The body of this infect is rather downy, and of a cinereous colour; the figure fomewhat oblong, and the fnout thick. The common V-like mark, formed by the union of two oblique whitish lines on the posterior part of the suture, and the single anterior white spot in the middle of each of the wing-cases, are very characteristic of this species.—The smaller sigure denotes the natural size.

FIG. II. II.

CURCULIO EXARATUS.

SPECIFIC CHARACTER.

Fuscous: wing-cases cinereous, and rather deeply marked with dotted striæ.

Curculio Exaratus: fuscus, elytris cinereis profundiuscule ftriatis: striis punctatis. Marsh. Ent. Brit. T. 1. p. 303. n. 188.

The fnout is rather broad and thick: wing-cases pale susceptions, or cinereous, and marked with moderately deep dotted lines: the whole of the under surface covered with very short down.

FIG. III. III.

CURCULIO FASCIATUS.

SPECIFIC CHARACTER

AND

SYNONYMS.

Ferruginous-fuscous: wing-cases sasciated with white: legsrufous-

Curculio

CURCULIO FASCIATUS: fusco-ferrugineus, elytris albo-fasciatis, pedibus rusis. Marsh. Ent. Syst. T. I. p. 286.

Curculio Incurvus? Panz. Faun. Germ. 36. t. 7.

Found on the leaves of the Cratægi Oxyacanthe.

The antennæ, fnout, and legs rufous: thorax ferrugineous-brown, with a thin white dorfal line: fcutel white: wing-cafes ferruginous brown and ftriated; the ftriæ impressed with dots.—When in fine preservation, this is an elegant species, being variegated, though in a slight degree only, with white, besides the broad whitish commonb and towards the posterior part of the wing-cases.







PLATE CCCCXV.

LIBELLULA ÆNEA.

BRASSY-GREEN DRAGON-FLY.

NEUROPTERA.

GENERIC CHARACTER.

Mouth armed with more than two jaws: lip trifid: antennæ shorter than the thorax, very thin, and filiform: wings expanded: tail of the male furnished with a furcated process.

SPECIFIC CHARACTER

AND

SYNONYMS.

Wings transparent: thorax braffy-green.

LIBELLULA ÆNEA: alis hyalinis, thorace viridi æneo. Linn. Fn. Suec. 1466.—Gmel. Linn. Syft. Nat. 2622.
n. 8.

Fabr. Spec. Inf. I. p. 524. n. 27.

Libellula viridi aurata capite rotundato, pedibus nigris, abdominis medio inflato. Degeer. Inf. 2, 2. 52. tab. 19. fig. 8.

Libellula viridi nitens, alis pallidis, pedibus nigris. L'Amianthe.

Geoffr. Inf. 2. 226. 10.

Roef. Inf. 2. aqu. 2. t. 5. f. 2.

Schaeff. Ic. t. 113. f. 4.

Raj. Inf. p. 49. n. 5.

Libellula

Libellula Ænea has been recently observed in swampy grounds in the neighbourhood of Hampstead. It is recorded as a British Insect by Ray; but since his time appears to have become very scarce till lately, when a small number of them were observed in the abovementioned situation. We possess two varieties taken in this place, in the summer of 1805, which differ in some slight particulars only. Both insects have the eyes of a brown colour, and the thorax of a brilliant green with a brassy lustre: the principal difference consists in the colour of the wings, which in one specimen are hyaline, while on the contrary the wings of the other are tinged with testaceous yellow. This yellow-winged variety is further distinguished by having the body glossed with sine golden purple; in the other, the body is of a brassy green colour, with only a slight inclination to reddish brown*. Both insects are sigured in the annexed plate in their natural size.

This species is not peculiar to England. Linnæus describes it as a native of Sweden; from Geoffroy we learn, that it is a native of France; and from Roefel, as being found in Germany.

^{*}An indifferent figure of a species of Libellula, much resembling this, occurs in the work of Schaeffer, Icon. Ratif. pl. 167, fig. 4, and which is probably intended for our yellow-winged variety.

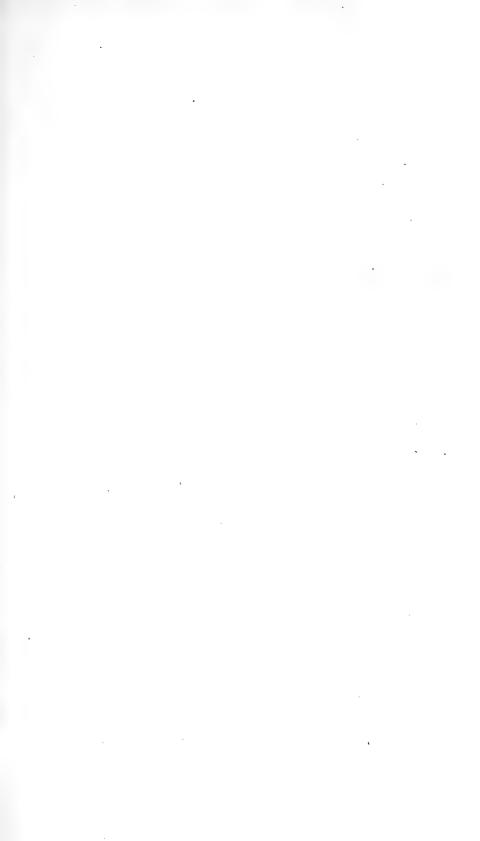






PLATE CCCCXVI.

VESPA CRIBRARIA.

HYMENOPTERA.

GENERIC CHARACTER.

Mouth horny, with a compressed jaw: feelers four, unequal and filiform: antennæ filiform, the first joint longest and cylindrical: eyes lunar: body glabrous: sting pungent, and concealed within the abdomen: upper wings folded in both sexes.

SPECIFIC CHARACTER

AND

SYNONY MS.

Black: abdomen banded with yellow, the middle ones interrupted: anterior shanks with concave shields.

VESPA CRIBRARIA: Linn. Syst. Nat. 12. 2. p. 945. n. 23.—Fn. Suec. 2. n. 1675.

CRABRO CRIBRARIA: nigra, abdomine fasciis: intermediis interruptis, tibiis anticis clypeis concavis. Fabr. Sp. Inf. I. p. 470. n. 8.—Mant. Inf. I. p. 296. n. 13.

Apis tibiis anticis lamella cribriformi. Uddm. Diff. 94.

Ray Inf. p. 255. n. 15.

Rolander A& Stockh. 1751. p. 56. t. 3. f. 1.

Crabro Cribrarius: Panzer Fn. Inf. Germ.

Found in England, in Sweden, and in Germany. The male has the shanks of the anterior legs shielded, while in the semale those parts are simple: this characteristic of the two sexes is not peculiar to our insect, we observe the same in the Fabrician Crabro Clypeatus (Vespa Clypeata, Gmel.), in Crabro Scutatus (Vespa Scutata, Gmel.), and several other species of the Linnaan Vespa.



margin of the wing-cases is another: near the suture, and before the middle of the wing-cases, is a fourth spot; and a sifth towards the end, placed transversely.—Varieties occur in which the thorax is reddish at the sides.

FIG. II.

SCARABÆUS SPHACELATUS.

SPECIFIC CHARACTER.

Black: head tuberculated: margin of the thorax pale: wing-cases griseous with dotted striæ, and a single suscess daub or irregular spot.

Scarabeus Sphacelatus: niger, capite tuberculato, margine thoracis pallido, elytris grifeis punctato-firiatis: litura unica fusca. Marsh. Ent. Brit. T. I. p. 15, n. 20.

Panz. Faun. Germ. 58. t. 5.

Very abundant in dung. Size the same as in the preceding species. The antennæ of this insect is black: head obsolete, tuberculated, and black: thorax black, glossy, and very minutely punctured, with the lateral margin livid: scutel susceptibles.

FIG. III. III.

SCARABÆUS FOSSOR.

SPECIFIC CHARACTER,

AND

SYNONYMS.

Black: thorax fomewhat retufe: head with three tubercles and fomewhat cornuted in the middle.

Scarabeus Fossor: niger, thorace subretuso, capite tuberculis tribus: medio subcornuto. Linn. Syst. Nat. 548. 31.—Fn. Suec. 384.—Fabr. Sp. Inst. I. p. 15. n. 59.—Mant. Inst. I. p. 8. n. 62.—Marsh. Ent. Brit. T. I. p. 16. n. 24.

La Tete Armée: Geoffr. Inf. I. p. 82. n. 20. Schaeff. Icon. t. 144. f. 78.

The length of this infect rather exceeds three-eights of an inch: the colour is entirely black, glabrous, fmooth, and fhining; its thorax is very convex: wing-cases oblong and striated: antennæ lamellated; and wings suscess. Found in dung.

FIG. IV.

SCARABÆUS RUFIPES.

SPECIFIC CHARACTER

AND

SYNONYMS.

Pitchy: antennæ pale: wing-cafes fmooth.

Scarabæus Rufipes: piceus, antennis pallidis, elytris lævibus.

Linn. Syft. Nat. 559. 86.—Fn. Suec. 403.—

Gmel. 1552. 86.—Marsh. Ent. Brit. T. I.

p. 25. n. 42.

SCARABÆUS CAPITATUS: De Geer, 4. p. 263. 7. t. 10. f. 6.

SCARABÆUS OBLONGUS: Scop. 19.

About the fize, and has the fame habits as the preceding, the figure in the annexed plate being magnified. It is entirely of a black colour and gloffy: fhield of the head obtuse: last joints of the legs pale rusous.





PLATE CCCCXVIII.

SCARABÆUS GREENIL

GREEN'S SCARABÆUS.

COLEOPTERA.

GENERIC CHARACTER.

Antennæ clavated: the club fiffile: shanks of the anterior legs generally dentated.

SPECIFIC CHARACTER

AND

SYNONYMS.

Blackish: thorax and margin of the wing-cases sprinkled with white dots: on the first sour segments of the abdomen beneath a single white dot in the middle, and one each side.

CETONIA VARIEGATA: atra thorace margine elytrifque maculis albis fparfis. Fabr. Ent. Syft. T. I. p. 2. 151. n. 88?

Scarabæus tribus antennarum lamellis tricefimus quintus. Schaef. Icon. pl. 198. fig. 8?

SCARABEUS ALBELLUS: Pallas. Icon. I. 17. tab. A. 18?

Among the English Scarabæi in the cabinet of the late Mr. Green, we possess a single specimen of this very interesting species. It is

of the genus Scarabæus in the Linnæan arrangement; Cetonia of Fabricius. We are totally unacquainted with its history, and, believing it to be unnoticed by any former writer, have named it after its former possessor. S. Greenii.

It should be particularly observed, that this infect approaches very closely to the Cetonia Variegata of Olivier and Fabricius, which is a native of Tranquebar. We shall not presume to say, that it may not be a variety of that variable species; but we certainly think it is not, if the general description the works of Olivier afford us be correct. The upper furface of our infect nearly corresponds with his figure and description; the principal difference consists in the number and disposition of the white spots on the lower surface of the abdomen, and those are strikingly dissimilar. Olivier describes his species as having two rows or lines of white dots on each fide, while in our infect there is only one on each fide; and the fingle row of white dots down the center in our infect does not agree exactly with Cetonia Variegata. We have previously stated, that the upper surface of the two infects are fimilar, but we should further add, that they are not perfectly fo, as Olivier's infect has the posterior border of the thorax white; and in our infect, that part differs in no respect from the rest of the thorax in point of colour, except the spots, which are white and impressed.—Our synonyms refer to the figure of an European species of Scarabæus in the works of Schaeffer, that seems to bear a general refemblance to our infect; yet we must confess, we can only entertain a very remote idea of its being intended for our infect; the indifference of the figure precludes the possibility of determining this circumstance with accuracy: it is about the same size, of a blackish colour and spotted with white; but there is also an appearance in the figure of the infect being hairy, and if that be correct, it cannot be the same as our infect.

The fmallest figure denotes the natural fize of this infect. The two other figures represent the upper and lower furfaces of the infect magnified.

PLATE

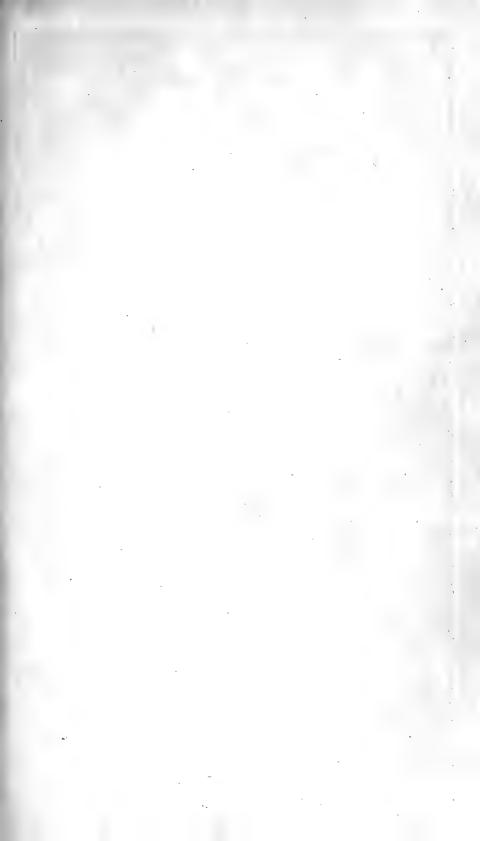






PLATE CCCCXIX.

MUSCA GROSSIFICATIONIS.

DIPTERA.

GENERIC CHARACTER.

Mouth with a foft, exferted fleshy proboscis, and two unequal lips: sucker beset with small bristles: feelers short, and two in number, or sometimes none: antennæ usually short.

SPECIFIC CHARACTER

ANI

SYNONYMS.

Deep black: wings black, tipped with white.

- Musca Grossificationis: atra, alis nigris apice albis. Linn. Fn. Suec. 1865.
- Musca antennis setariis alis nigris apice albis. Linn. Syst. Nat. Edit. 10. p. 599. n. 84.
- Musca nigra alis susciss, apicibus albis. Act. Ups. 1736. p. 33. n. 50. Fabr. Sp. Ins. 2. p. 451. n. 83.

Gmel. Linn. Syft. Nat. 2855. 109.

La mouche à aîles noires & tache blanche à l'extrémeté. Geoff. Inf. 2. p. 493. n. 1.

This diminutive species of Musca is mentioned by Linnæus as one of the rarest of all the European insects. It is certainly uncommon, and especially in England. Geoffroy found it on flowers in the royal garden at Paris. The smallest figure denotes the natural fize.



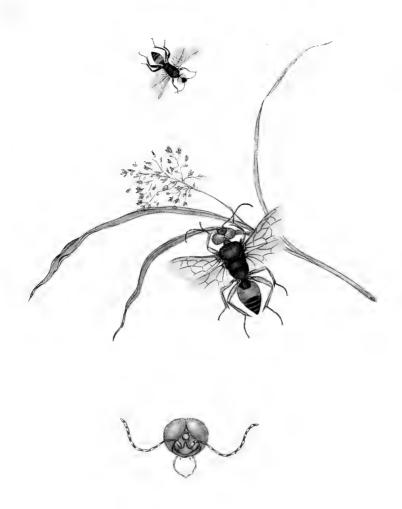


PLATE CCCCXX.

LARRA POMPILIFORMIS.

HYMENOPTERA.

GENERIC CHARACTER.

Tongue porrected, fimple: jaws fhort, horny, vaulted: lip exferted, membranaceous at the tip and marginated: antennæ filiform.

SPECIFIC CHARACTER

AND

SYNONYMS.

Black: abdomen black, with the base ferruginous.

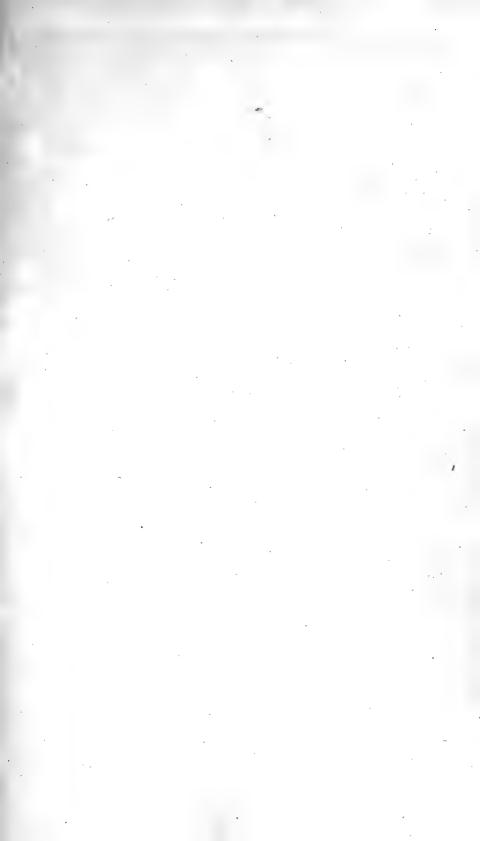
LARRA POMPILIFORMIS: nigra, abdomine nigro basi ferrugineo.

Die Grabwespenartige Drehwespe. Panz. 89.

n. 13.

A curious little infect of the Fabrician genus Larra. The only specimen we have yet seen of this infect occurs in the cabinet of Mr. Drury. The smallest figure explains the natural size.





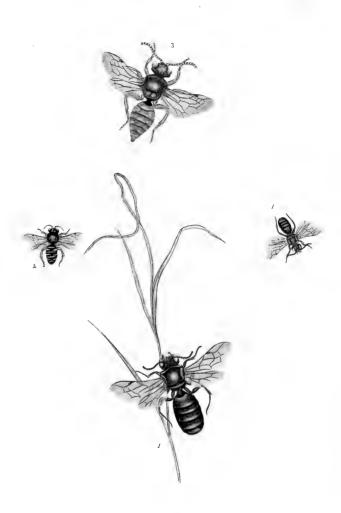


PLATE CCCCXXI.

FIG. I. I.

APIS SIGNATA.

HYMENOPTERA.

GENERIC CHARACTER.

Mouth horny: jaw and lip membranaceous at the tip: tongue inflected: feelers four, unequal, filiform: antennæ fhort, and filiform; those of the female somewhat clavated: sting of the females and neuters pungent, and concealed within the abdomen.

SPECIFIC CHARACTER

AND

SYNONYMS.

APIS SIGNATA: black; front of the head, and base of the thorax yellow.

SPHEX SIGNATA: atra, nitida, immaculata; alis albis; fronte fub antennis maculis duabus flavis. Panz. Fn. Inf. Germ. Init. n. 53. t. 2.

Vespa: nigra, fronte, thoracifque basi flavis.—La guêpe noire, à levre superieure & base du corcelet jaunes. Geosfr. Ins. n. p. 379. n. 14.

VESPA PRATENSIS: Fourcroy. Ent. Par. n. 14.

MELITTA SIGNATA: atra; fronte maculata; abdomine fegmento primo margine utrinque albo.—Var. y antennis fubtus piceis, collare tuberculifque luteis. Kirby, Ap. Ang. T. 2. p. 41.

L 2

This

This little infect is found on different species of Reseda, or mignonet, and in common with various other insects of the same natural family, that are usually sound on those plants, emit a strong odoriserous scent.—There are two or more varieties of this insect: that sigured by Panzer under the name of Sphex Signata, has two yellow spots on the front of the head, instead of the whole space beneath the antennæ being yellow, as in our specimen. The smallest sigure denotes the natural size.

FIG. II.

APIS LÆVIGATA β.

SPECIFIC CHARACTER

AND

SYNONYMS.

Black, and fomewhat pubefcent with rufous hairs: thorax ferruginous: abdomen highly polified, with the three middle fegments, pale each fide at the base.

Mellitta Levigata: atra rufo-fubpubescens; thorace ferrugineo; abdomine nitidissimo, segmentis intermediis basi pallescentibus. Kirby, Ap. Ang. 2. 75. 32. var. β.

This is an elegant little species, and very rare. The figure reprefents it in the natural fize.

FIG. III.

APIS OCHROSTOMA.

SPECIFIC CHARACTER

AND

SYNONY MS.

Deep black: fcutel fanguineous: abdomen rufous, variegated with fpots and interrupted bands of yellow.

APIS OCHROSTOMA: atra: fcutello fanguineo; abdomine rufo, maculis fafciifque interruptis, flavis, variegato.

Kirby Ap. Augl. T. 2. p. 209. n. 26.

Described by Mr. Kirby as a new species of Apis, from a specimen in the cabinet of Mr. Drury.







PLATE CCCCXXII.

PTINUS FUR.

COLEOPTERA.

GENERIC CHARACTER.

Antennæ filiform, the exterior joint largest: thorax subrotund, without margin, and receiving the head.

SPECIFIC CHARACTER

AND

SYNONYMS.

Ferruginous brown: thorax four-toothed: wing-cases with two white bands.

- PTINUS FUR: fusco-ferrugineus, thorace quadridentato, elytris fasciis duabus albis. Marsh. Ent. Brit. T. I. p. 89. n. 27.
- PTINUS FUR: testaceus subapterus, thorace quadridentato, elytris fasciis duabus albis. Fabr. Spec. Inf. p. 73.
 n. 4.—Mant. Inf. I. p. 40. n. 4.—Ent. Syst.
 I. 2. 39. 4.—Gmel. Linn. Syst. p. 1607. n. 5.
- CERAMBYX FUR.—Linn. Fn. Suec. 651.

Preys. Boh. Inf. 56. 57.

Stroem. Act. Nidrof. 111. 393. 12.

Bruchus Testaceus: La Bruche à bandes. Geoffr. Inf. Parif. I. p. 164. n. 4. t. 2. f. 6.

PTINUS

PTINUS RAPAX: Degeer. Inf. 4. p. 231. n. 5. t. 9. f. 5. 6. 7.

BUPRESTIS FUR: Scop. 210.

This destructive little insect is produced from a soft and hairy fixfooted larva of a serruginous colour, which preys on surniture, books, and other similar articles. It resides principally in wood, occupying small tubular cavities, which it perforates in a variety of directions, reducing, as it proceeds in its devious course, the hardest timber within the dimensions of its receptacle to a light dust or powder. Ptinus Fur is also very detrimental to preserved articles of natural history. The nymph or pupa is contained in a glutinous follicle.

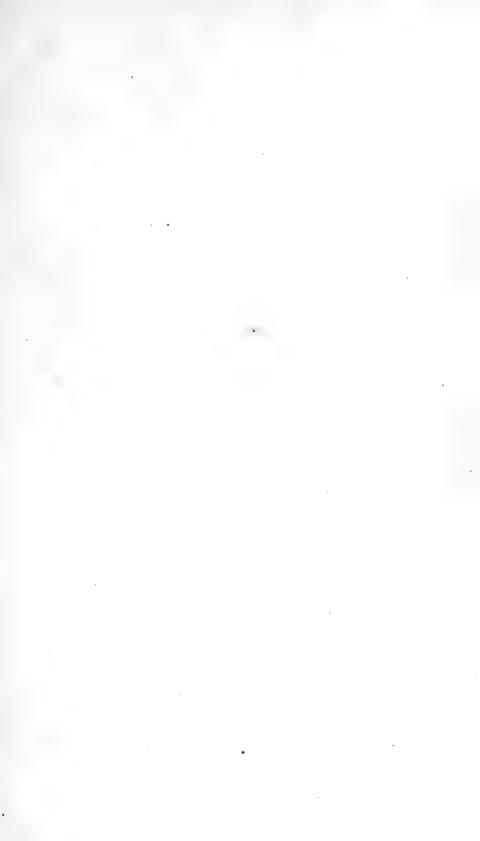






PLATE CCCCXXIII.

LIBELLULA FORCIPATA.

FORCIPATED DRAGON-FLY.

NEUROPTERA.

GENERIC CHARACTER.

Mouth armed with more than two jaws: lip trifid: antennæ shorter than the thorax, very thin and filiform: wings expanded: tail of the male furnished with a surcated process.

SPECIFIC CHARACTER

AND

SYNONYMS.

Thorax greenish yellow, with black lines: abdomen blackish with yellow characters.

- LIBELLULA FORCIPATA: thorace luteo-virescente, lineis nigris; abdomine nigricante characteribus flavis, Linn. Fn. Succ. n. 771.
 - Gmel. Linn. Syst. Nat. 2625. n. 11.
- ESHNA FORCIPATA: thorace nigro: characteribus varius flavefcentibus, cauda unguiculata. Fabr. Ent. Syst. T. 2. p. 383. n. 1.
- Libellula nigra capite rotundato, thorace segmentisque aliquot abdominis viridi maculatis. Degeer. Inf. 2. 2. 50.
- Libella major, corpore compresso flavescente. Petiv. Mus. 84. n. 819.

YOL. XII. . M. Libella

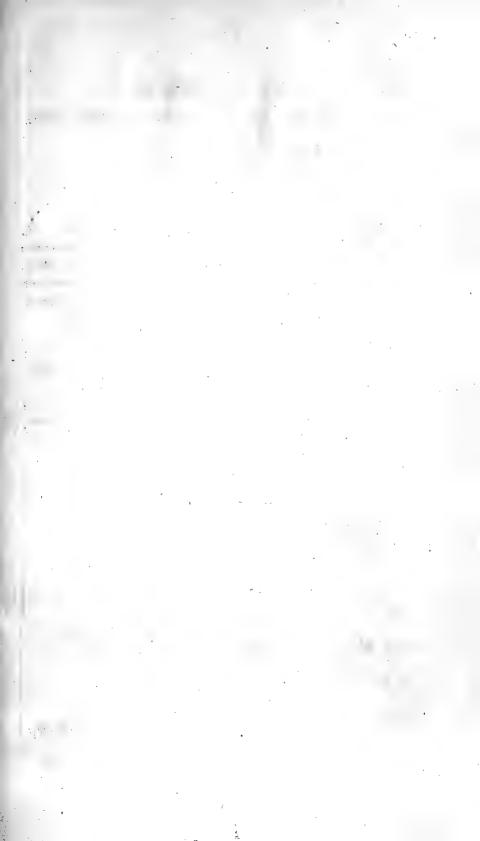
Libella maxima lutea, cum 4 vel 5 spinis in extremitate caudæ.

Merret Pin. 197. n. 4.

La Caroline. Geoffr. Inf. t. 2. p. 228. Sp. 15.

This is an interesting, rare, and elegant species of Libellula. In the cabinet of the late Mr. Drury, we have a single specimen of this scarce insect; another has been recently taken near Highgate, and is likewise in our possession. Like the rest of its tribe it is sound in swamps and other watery places. The larva is unknown to us, its pupa is represented with the perfect insect in the annexed plate.

The head of this species of Libellula is of a fine yellow, faciated with black: the eyes prominent, brown, and glossy: the thorax greenish yellow, lineated with black; the abdomen black with a longitudinal interrupted dorsal line of whitish yellow, and the middle segments marked on both sides with a short transverse yellowish band, and a semi-lunar mark of the same colour below it: the wings transparent, with a dark anterior costal mark, as in most other of the Libellula tribe



Less than the common house-fly, Musica Domestica. It inhabits various parts of Europe, and is not common in England.

The thorax is of a brownish colour lineated with dusky: the body nearly round, and marked down the middle of the back with a series of blackish spots or dots; the wings are whitish, faintly tinged with testaceous towards the base, and the legs blackish.

FIG. II.

MUSCA ARCUATA.

SPECIFIC CHARACTER

AND

SYNONYMS.

Elongated, black, fpots on the fides of the thorax, and four arcuated bands on the abdomen yellow.

Musca Arcuata: nigra, antennis elongatis, thorace maculis lateribus, abdómine cingulis quatuor arcuatis flavis.

Linn. Fn. Suec. 1806.

Syrphus Arcuatus: Fabr. Ent. Syft. T. 4. p. 293. n. 55.

Panz. Fn. Germ. 2. tab. 10.

This species is found on flowers. It is a general inhabitant of Europe; in England this insect is scarce.

Fabricius describes a very distinct species from this under the name of Musca Arcuata; the insect we have figured is the Musca Arcuata only of Linnaus, Syrphus Arcuatus of Fabricius.





PLATE CCCCXXV.

LIBELLULA QUADRIFASCIATA.

NEUROPTERA.

GENERIC CHARACTER.

Mouth armed with more than two jaws; lip trifid: antennæ fhorter than the thorax, very thin and filiform: wings expanded: tail of the male furnished with a furcated process.

SPECIFIC CHARACTER.

LIBELLULA QUADRIFASCIATA: wings white, tinged anteriorly with yellowish: tips of all the wings, and base of the posterior pair with a fuscous band.

This evidently new species of Libellula occurs in the cabinet of Mr. Drury: it corresponds in some respects with Libellula Quadrimaculata (See Plate 407), the size and general aspect of both insects is nearly the same, but the present species differs among other particulars in having a suscept band at the tip of all the wings. Libellula Rubicunda also bears some resemblance to this insect, except that the tips of the wings are perfectly immaculate, as in Libellula 4-maculata.—Our new species Libellula Quadrifasciata is a very rare insect, and has not been noticed by any author.



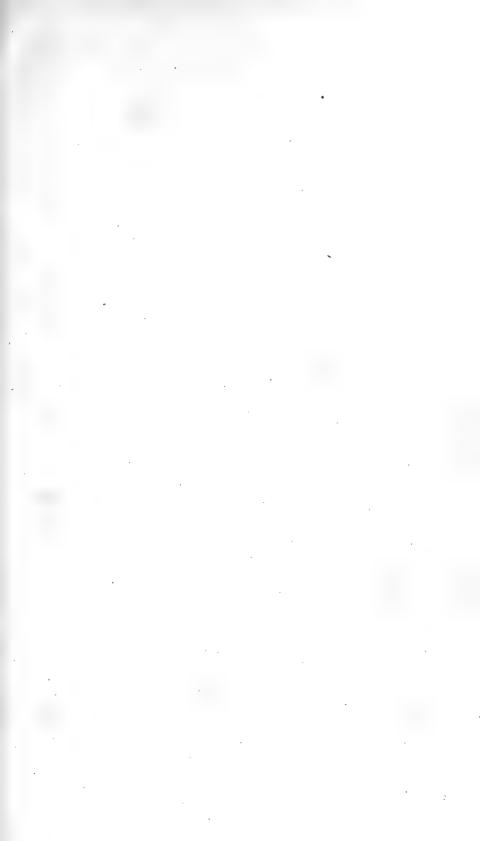




PLATE CCCCXXVI.

PAPILIO BLANDINA.

SCOTCH ARGUS BUTTERFLY.

LEPIDOPTERA.

GENERIC CHARACTER.

Antennæ terminated in a club: wings erect when at rest: fly by day.

SPECIFIC CHARACTER

AND

SYNONYMS.

Wings indented, fuscous, with an ocellar rufous band: posterior pair beneath suscous, with a cinereous band.

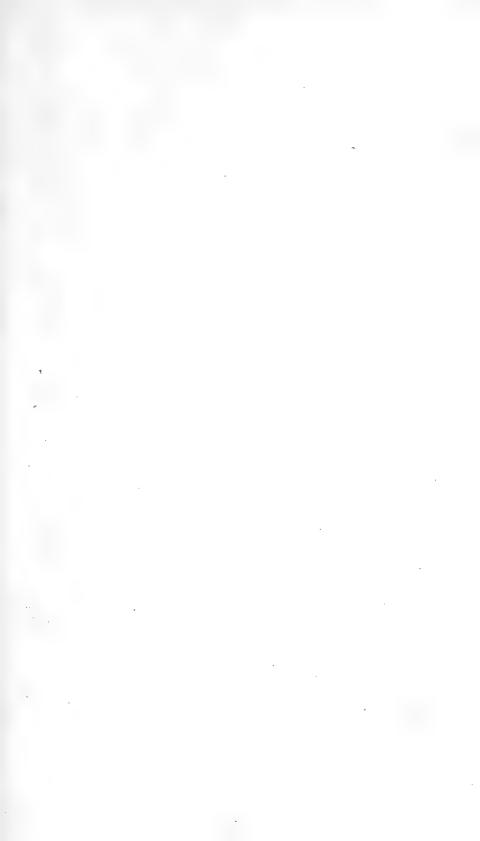
Papilio Blandina: alis dentatis fuscis: fascia rusa ocellata posticis subtus suscis: fascia cinerea. Fabr. Ent. Syst. T. 3. p. 1. 236. n. 736.

This very rare species of Papilio has been recently discovered to be a native of the British isles. About three or four specimens of it were taken in the isle of Arran by Major Walker, to whose politeness we are indebted for the individual example at this time in our Museum. Another is preserved in the collection of our friend A. McLeay, Esq. and those, we have reason to apprehend, are the only specimens at present in any of the London Cabinets.

Though but lately introduced to our attention as a native of Great Britain, this interesting infect is by no means unknown to the continental tinental naturalists as an inhabitant of Germany. It is the true Papilio (Sat.) Blandina of the Fabrician system *. This author likewise describes another Papilio, nearly allied to the above, under the specific name of Ligea. This latter is, however, sufficiently distinguished by having four ocellate black spots in the rusous band on the upper wings instead of three, as in P. Blandina. Fabricius, in his general description, speaks of the near affinity his P. Blandina bears to P. Ligea, but observes that P. Ligea has a white spot at the end of the band on the underside of the posterior wings, which the other has not. "Affinis P. Ligea differt tamen alis posticis vix ocellatis, susciss fascia cinerea absque maculis albis." Fabr.—Papilio Ligea was discovered by Major Walker in the isle of Arran at the same time as P. Blandina, and will shortly appear in the present work.

^{*} Fabricius describes two of the Papiliones under the specific name of Blandina, but which cannot easily be confounded, as one of them are of the Pap. Nymphales tribe, and the other belongs in his arrangement to the Satyri.—P. N. Blandina is an East Indian species, and is fully noticed in our illustration of Exotic Entomology.

[†] Figures of both the above-mentioned infects have appeared in a late publication, the "British Miscellany," one in Plate 2, the other in Plate 7. Unfortunately, however, the Editor has entirely misconceived the Fabrician authorities, and reversed the two names assigned them by that author. The Fabrician Papilio Blandina is by that means erroneously named Ligea, and, vice versa, the Fabrician P. Ligea, called Blandina.—There are, besides, a few errors in the figures with regard to the form, situation, and number of the occllate spots. Those relating to the P. Ligea will be hereaster noticed. In our P. Blandina (Ligen Brit. Misc.) the macular band on the underside of the posterior wings appears to have only two small dots, while in the insect there are no less than fix, the three lower of which has a white dot in the center.—We were at first inclined to suspect, that the specimen in the cabinet of Mr. McLeay, from which the drawing of that insect was taken, might have been in some measure injured, and the spots obliterated, or that his insect varied from that we posses; we have, however, since compared them, in order to ascertain whether any such dissimilarity in reality existed between them, and find the two insects correspond in every respect.



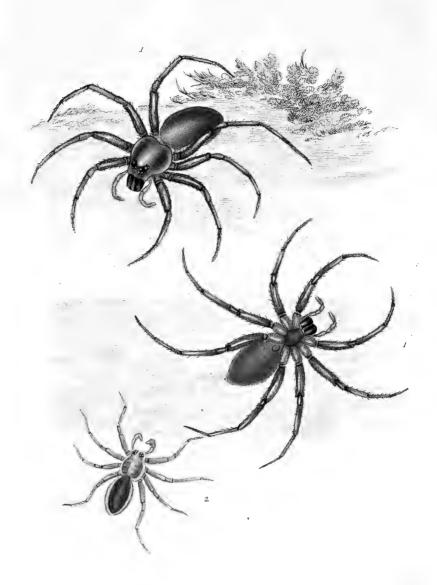


PLATE CCCCXXVII.

FIG. I. I.

ARANEA LIVIDA.

APTERA

GENERIC CHARACTER.

Mouth with fhort horny jaws: lip rounded at the tip: feelers two, incurved, jointed, and acutely pointed, those of the male clavated and furnished with the fexual organs: antennæ none: eyes eight or rarely fix: legs eight: papillæ for spinning at the tip of the abdomen or vent.

Section eyes . : : . .

SPECIFIC CHARACTER:

Aranea Livida: thorax fubtriangular: abdomen ovate; above brown, obscurely dotted, and lineated with blackish: beneath testaceous.

A specimen of this remarkable species of Aranea occurs in the cabinet of the late Mr. Drury, with a memorandum relating the following particulars of its capture.—" This spider was taken out of the water at Hornsey wood, October 4th, 1766, being in company with Mr. Rice."

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The figures, which shew both the upper and lower surface of this gigantic spider, sufficiently exemplifies its magnitude and general aspect, being represented in its natural size. The prevailing colour of the upper surface is darker than the lower; it is a livid brown faintly variegated with reddish. On very close inspection, the thorax appears to be obscurely lineated and dotted with blackish, radiating from the ridge of the back, as from a center towards the outer margin: the legs also are lineated with about four or sive equidistant blackish lines sprinkled with a few dots, slightly hairy, and sparingly beset with small setiform spines: the abdomen rather downy.

The eyes of this fpider, eight in number, are disposed on the anterior part of the thorax in a fingular manner: the four anterior ones form a transverse curved line, behind which are two contiguous eyes of a similar fize, and a little farther behind two more; but the last are placed much more remotely from each other than the former. Those posterior eyes are distinguished likewise by being stationed each upon the summit of a rather large smooth lateral tubercle of a rusous colour. The exterior eye on each side in the anterior line, it should be observed, is seated on a similar smooth rusous tubercle, but which is of a diminutive size compared with those on which the posterior eyes are situated.

As there is no species of the family to which this spider belongs among those already described by Linnæus, Fabricius, or any other entomological author within our knowledge, that corresponds with our present insect, we consider it as a new species.

FIG. II.

ARANEA MARGINATA.

SPECIFIC CHARACTER.

Aranea Marginata: brown: thorax and abdomen furrounded with a whitish line.

Aranea Palustris: Linn. Syst. Nat. 12. 2. p. 1036. n. 41. —Var.?

Aranea Trilineata: Fabr. Ent. Syft. T. 2. p. 423. n. 61?

Aranea pugnax: Ross. Fn. Etr. 2. 135. 980?

This infect agrees very nearly with the Aranea trilineata* of Fabricius, and does not appear very remote from the Linnæan defcription of Aranea paluftris†. The principal difference confifts in the polition of the eyes, which conftitutes an effential characteristic mark of the several families into which the Aranea genus is divided; and in this particular they are very diffinct. Admitting therefore, that Linnæus and Fabricius are correct in describing the fituation of the eyes in the two infects above-mentioned, we must consider the present infect as a species distinct from either, notwithstanding their similarity in other respects. It does not certainly agree with the description of

^{*} Aranea Trilineata: fusca thoracis margine linea dorsali margineque ovato cinereis.

Fabr. Ent. Syst. T. 2. p. 423, n. 61. oculis : :

[†] Aranea Palustris: fusca, therace abdomineque utrinque linea nivea. Linn. Syst. ... Nat. 12. 2. p. 1086 n. 41,

any species of Aranea in the same samily hitherto described by those writers. It may therefore be a nondescript species, though we must at the same time confess, we conceive it not unlikely, that the position of the eyes in the Aranea trilineata of Fabricius has been mistaken by that writer, and that it may hereaster prove to be the same species.











PLATE CCCCXXVIII.

COCCINELLA 13-MACULATA,

13-SPOT LADY COW.

COLEOPTERA.

GENERIC CHARACTER.

Antennæ clavated, club folid: anterior feelers femicordated: thorax and wing-cases margined: body hemispherical: abdomen beneath stat.

SPECIFIC CHARACTER

AND

SYNONY MS.

Wing-cases yellow, with thirteen black dots: body orbicular.

COCCINELLA 13-MACULATA: coleoptris flavis: punctis nigris tredecim corpore orbiculato. Marsh. Ent. Brit.

T. I. 157. Fabr. Syst. Ent. 83.24.—Sp. Inf. I. 99. 37.—Mant. I. 58. 53.—Ent. Syst. I. a. 279. 60.

Gmel. 1652. 90.

Three varieties of this elegant species of Coccinella are figured on the same plate, two of which differ only in colour, the third in the dots on the wing-cases. The thorax in all the specimens are pale yellow, yellow, but in the fecond individual, the wing-cases are of a deeper orange than usual; and in the third, the two inner dots of the three, which constitute the macular series across the middle of the wing-cases, are united, and form but a single constuent spot. The smallest figure denotes the natural size.

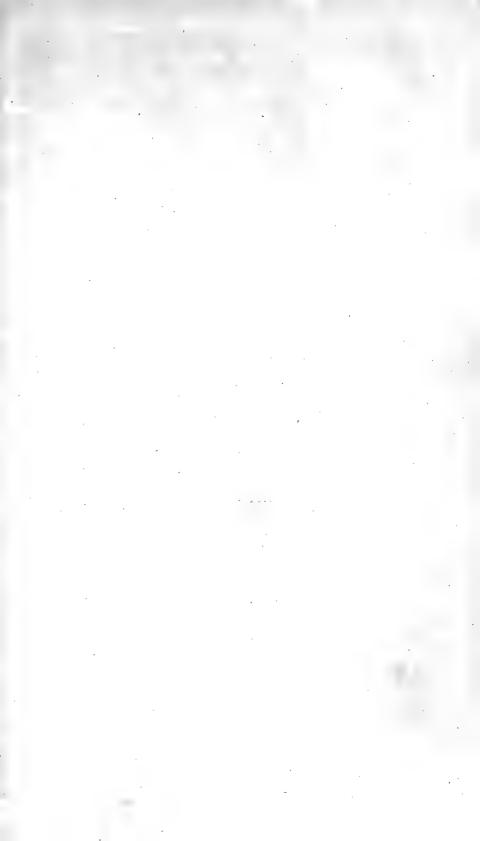






PLATE CCCCXXIX.

MUSCA HEMIPTERUS.

DIPTERA.

GENERIC CHARACTER.

Mouth with a foft exferted fleshy proboscis, and two unequal lips: sucker beset with bristles: feelers short, and two in number, or sometimes none: antennæ usually short.

* Syrphus: antennæ naked.

SPECIFIC CHARACTER

AND

SYNONYMS.

Musca Hemipterus. Downy: thorax with a ferruginous border: wings thick, cinereous: fuscous varied with yellowish.

Syrphus Hemipterus: antennis fetariis tomentofus thoracis limbo ferrugineo, alis crassioribus cinereis suscentique variis. Fabr. Ent. Syst. T. 4. 284, n. 22.

Schaeff. Icon. Tab. 71. fig. 6?

Musca Subcoleoptrata: Gmel. Linn. Syft. Nat. 2869. n. 335.

An infect nearly allied to the Linnæan Conops fubcoleoptrata, or Musca subcoleoptrata of the Gmelinian edition of the Systema Naturæ.

Gmelin

Gmelin confiders it as the fame infect, but Fabricius describes it as a distinct species, distinguishing the M. Subcoleoptrata by the black thorax, and cinereous wings with two brown flexuous stripes; and the M. Hemiptera (our present species) by the thorax being surrounded by a ferruginous border, and the cinereous wings varied with yellowish.—Fabricius has since constituted a new genus of Dipterous insects, under the name of Thereva, in which both these species of Musica are included.

This infect is very uncommon in England.

^{*} Suppl. Ent. Syft. I. p. 560. n. 2.





PLATE CCCCXXX.

LIBELLULA BOLTONII.

BOLTON'S DRAGON-FLY.

NEUROPTERA.

GENERIC CHARACTER.

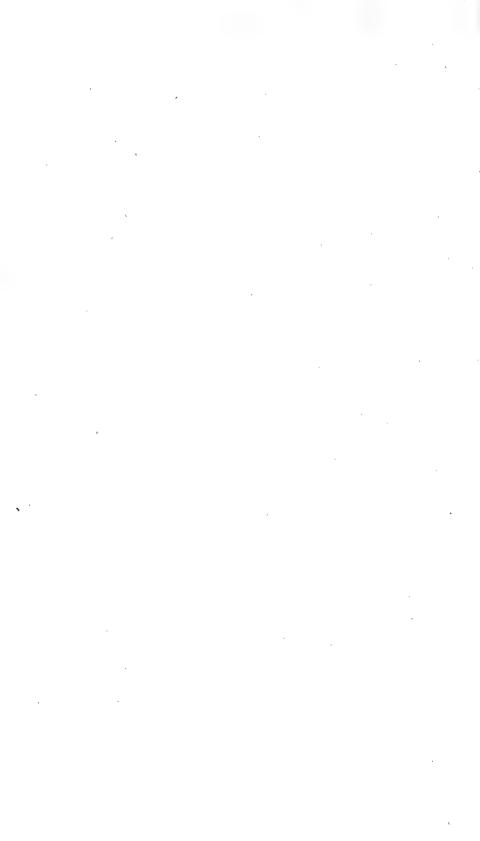
Mouth armed with more than two jaws: lip trifid: antennæ shorter than the thorax, very thin and filiform: wings expanded: tail of the male furnished with a furcated process.

SPECIFIC CHARACTER.

LIBELLULA BOLTONII: wings hyaline: body elongated, black, with a larger interrupted yellow band across the middle, and a smaller near the tip of each segment.

This fine and noble fpecies of Libellula appears to be unknown to any of the entomological writers we are acquainted with. The fpecimen from which our figure in the annexed plate is taken, was discovered in Yorkshire some years ago by Mr. Bolton, and communicated to Mr. Drury, in whose cabinet it has remained unnoticed till the present time. We believe this specimen to be unique, or at least we have never seen an other. It is a beautiful, large, and interesting species, and possesses characters so extremely different from any of the known species of its genus, that it cannot easily be mistaken. We name it Boltonii, in compliment to Mr. Bolton, the gentleman to whom we are indebted for its discovery.

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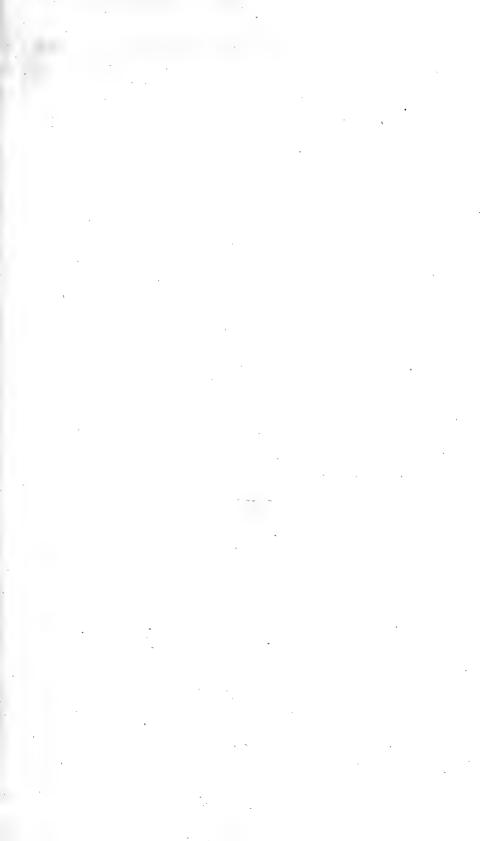




PLATE CCCCXXXI.

CIMEX MELANOCEPHALUS.

HEMIPTERA.

GENERIC CHARACTER.

Snout inflected: antennæ longer than the thorax: wings four, folded cross-wise, anterior part of the upper pair coriaceous: back flat: thorax margined: legs formed for running.

SPECIFIC CHARACTER

AND

SYNONYMS.

Grey: head, and fcutel at the base brassy black.

CIMEX MELANOCEPHALUS: grifeus capite fcutelloque basi nigro aeneis. Fabr. Ent. Sust. T. 4. p. 125. n. 176.

Fabricius appears to be the only writer who has noticed this elegant little species of Cimex: he describes it as an English Insect, without referring to any cabinet.

This infect is of a fmall fize, as shewn by the central figure in the annexed plate. The upper furface is of a greyish colour, tinged in the shades with green; the head, two confluent spots at the anterior part of the thorax, and triangular spot at the base of the scutel, brassy

02

black,

black, inclining to purplift. The whole furface is minutely punctured. Beneath, the prevailing colour is braffy blackift purple, with the margin of the abdomen whitifth, and marked with a row of black dots: legs yellowifth, with a black dot on the thighs. This, we believe, is a very rare species.







PLATE CCCCXXXII.

GRYLLUS CAMPESTRIS.

FIELD CRICKET.

HEMIPTERA.

GENERIC CHARACTER.

Head inflected, armed with jaws: feelers filiform: antennæ ufually fetaceous or filiform: wings four, deflected, convolute, the lower ones plaited: posterior legs formed for leaping: claws double.

** Section Acheta.. Antennæ setaceous: feelers unequal: thorax rounded: tail with two briftles.

SPECIFIC CHARACTER

AND

SYNONYMS.

Wings shorter than the wing-cases: body blackish: style linear.

GRYLLUS CAMPESTRIS: alis elytris brevioribus, corpore nigro: ftylo lineari. Lin. Muf. Lud. Ulr. 124.

Scop. Ent. Carn. 319.

Fabr. Sp. Inf. I. p. 355. n. 10.

Gryllus Campestris Mouffeti. Ray Inf. 63. Schaeff. Elem. t. 66.

--- icon. t. 157. f. 2-4

Though

Though the Field Cricket inhabits every country of Europe, it is observed to be more abundant in the southern parts than elsewhere. Its haunts are shady places not too much exposed to moisture. The noisy chirpings of this singularly formed little creature is oftentimes heard issuing from among the bushes, and underwood, on the skirts of forests; and in the fields, towards the approach of twilight, particularly when the weather is warm and the air serene; but the infect itself is very seldom seen. It is remarkably timid, and scarcely ever ventures from its lurking place among the bushes, till the darkness of the night emboldens it to ramble out in quest of food.—Its chirping noise does not continue all the year; it commences in May, and ceases about the end of autumn. We imagine it almost superfluous to add, that the Field Cricket possesses both of this, and other analogous tribes.

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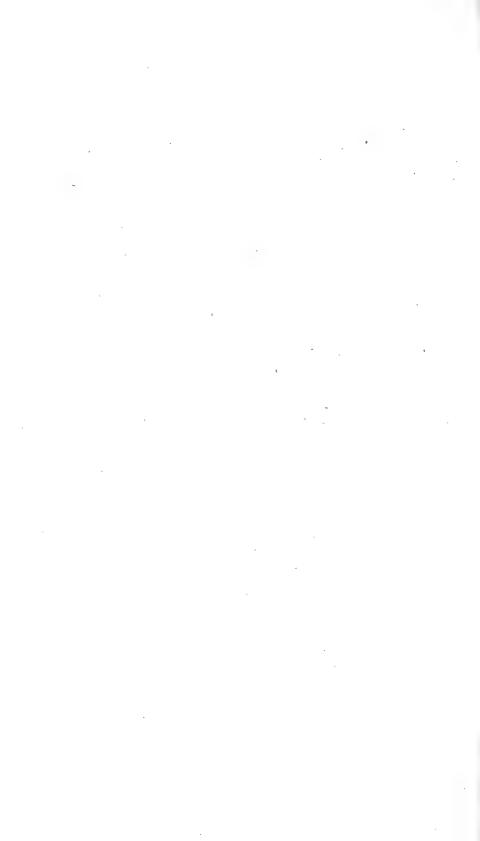
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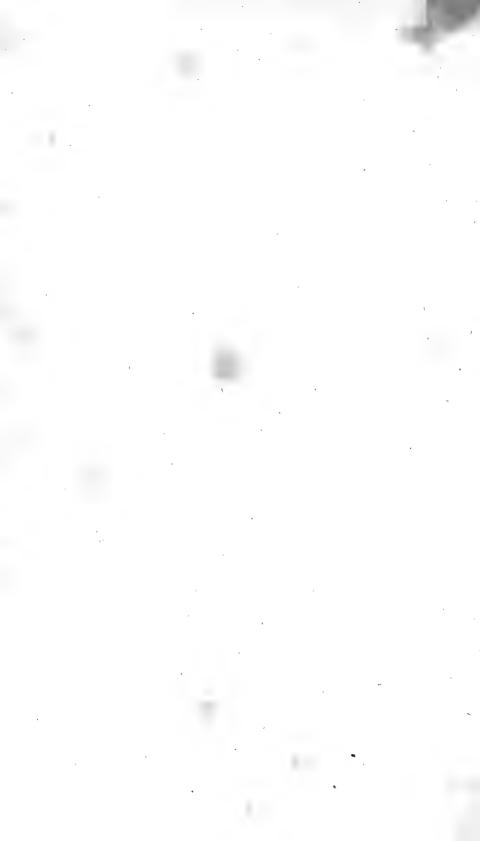
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Printed by Law and Gilbert, St. John's Square, Clerkenwell.

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