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Patron-THE QUEEN.

Quarterly Statement

FOR 1885.

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## THE

## PALESTINE EXPLORATION FUND

## LAST YEAR AND THIS.

When, in the autumn of the year 1883, the Committee resolved upon sending out a Geological Expedition, a list was opened for donations to be directed specially to this purpose. It was found, however, that very few donors and subscribers desired that their money should be set aside for a special purpose, and the general funds of the Society were, as had always been done in the Survey, employed for this work. The general instructions for the Expedition were drawn up for the Committee, after consultation with Professor Hull, by Sir Charles Wilson. Professor Hull, as has already been told in the Quarterly Statement, carried the Expedition to a successful termination. His scientific results are as yet only partly published; in his forthcoming book (ready January 1st, 1885), called "Mount Seir," he will give such of them as are capable of being presented in a popular form. They will be fully and completely set forth in the scientific memoirs which he is preparing for the Committee. The results of the Expedition are, it may be stated, extremely satisfactory from the geological point of view. Not less satisfactory are they from the geographical point of view. Major Kitchener, who accompanied the party, was able, with the assistance of Mr. George Armstrong, to execute for the first time a reconnaissance survey of the Wâdy Arabah, which has since been laid down upon sheets by Mr. Armstrong, and is now ready for publication. At the same time Mr. J. Chichester Hart, who accompanied the party as a volunteer, has been doing good work in the natural history of this little known region. We have been so fortunate as to secure the publication of Mr. Hart's observations and discoveries in the Quarterly Statement. The first instalment will appear in April.

Other important geographical work has been done for Palestine during the last year-(1) in the publication by Colonel Sir Charles Wilson of the late Mr. F. W. Holland's notes of his last journey ; (2) of Sir Charles Wilson's paper on Recent Biblical Research in Asia Minor and Syria; (3) of Mr. Laurence Oliphant's paper on the Khurbets of Carmel ; (4) of Mr. Oliphant's Notes on the Jaulân ; and (5) of various papers by Captain Conder.

The topographical work of the year, which forms so large and important a feature of the Quarterly Statement, includes papers by Captain Conder, Mr. H. G. Tomkins, Mr. W. F. Birch, Mr. S. Flecker, Mr. Mearns, Herr Conrad Schick, Dr. Clay Trumbull, Mr. Kennion, and Mr. Baker Greene. The archæological work of the year includes four very remarkable papers by M. C. Clermont-Ganneau.

We are thus able to look back upon the past year with considerable satisfaction. Though the Firman for continuing the Eastern Survey is still denied us, we have been able unexpectedly to secure the survey of a large and very important part of the Holy Land: we have cleared up many geological problems, and we have made a considerable addition to the archæology and topography of the country.

We have also, at length, completed the great work of the Society in publishing the last two volumes which finish the "Survey of Western Palestine." The work has been in hand for four years ; now that it is completed we can look upon it as the permanent record of the greatest geographical and descriptive enterprise ever undertaken for the elucidation of the Bible, and as a work which should form part of every great library.

Since Mr. Armstrong's return he has remained in the service of the Committee, and has been occupied, first, in laying down the geographical work of the Expedition, which is now ready for publication, and next, in preparing a Map of the whole of Palestine, which will contain all our own survey work hitherto done, with the French and other work, as far north as Beyrout, and will be joined on to the Society's already published reduced Map of Western Palestine. It will be in sheets, so that any one sheet can be withdrawn and a new one substituted on the arrival of new matter. He is now engaged upon laying down on this map the Old and New Testament names, boundaries, \&c. It is intended, in short, to produce a map, which can be subsequently altered and improved, which shall cover both sides of the Jordan. This map will contain the modern names, with those of the Old and New Testaments. It will be published either as a Map of Modern Palestine East and West of the Jordan, or as a map showing the Old Testament names with the modern names, or as showing the New Testament names with the modern, or as a map showing all three. It has already been announced that subscribers to the already issued Old and New Testament maps will be enabled to exchange simply on payment of the difference in price and the carriage.

A great many photographs were taken in the Wady Arabah by Dr. Gordon Hull. Some of these have not, unfortunately, come out well. A selection, however, will be made of the best, and a descriptive catalogue written for them, and they will be issued as soon as possible.

As regards the work for the year 1885. There is little hope that the Firman for the Survey of Eastern Palestine will be granted in the present posture of things. If it were granted it would for the moment be useless, because all the Royal Engineer officers who have worked for the Fund are now on active service-Colonel Sir Charles Wilson, Major Kitchener, and Captain Mantell in Egypt; General Sir Charles Warren and Captain

Cimber in Fonth Sfrien-aml there wombl be litale chane of fetting any wher oflicers sertioss in this period of meertants. It the same time we have strong gromuls for hoping to make from time to time very substantial alditions to the gengraphy of certain little known districts from other sources.

We shall also prohaps be ahle to malerake cortain inventigations in Jernsalem, and perhaps elsewhere, as occasion may offer.

It has hem sherrebod that this time of ination from field work may be milisent for a pers important olject inclubled in our original proppotus, but
 logiont- tradituns, superstitions, and religions aml rifualistie survivals. The Gmmittee are at present mondidering a soheme having this in view which has been submitted to them.

As regarls pullinhing nest year, we have male the following imphtant arrangements :-
(1) "Mount Seir."

This volume has been written for the Committee by Professor Hull. It is now (Christmas, 1884) on the point of publication. It contains a popular account of the journey, and especially of that country, now known as the Wadly Arabah, which was the special scene of his labours. A geological map and a geographical map accompany the work, with many other illustrations. The published price will be 10 s .6 d .
(2) A new clition of (Sphain Cimderis popular and delightful work, "Tent Work in Palestine," in crown 8vo., at 7s. 6 d .
(3) A new and thesp edition of " Hoth am! Mnah," uniform with the above, at $7 s .6 d$.

These two works will be ready by the end of January.
(4) "Our Work in Palestine." This little book, which ended with the commencement of the Survey, has been out of print for some time. It is proposed, as soon as time can be found, to bring out a new edition, carrying on the popular history of the Society's work to the present date.
(5) We propose to publish in the Quarterly Statement for 1885, the following important papers:-
(a) A Translation by Dr. Chaplin of a Hebrew Treatise by Maimonides upon the Temple.
( $\beta$ ) The Natural History Results of the Wady Arabah Expedition, by J. Chichester Hart.
( $\gamma$ ) A Supplement by Canon Tristram to his "Flora and Fauna."
(8) A Paper by Sir Charles Warren on the Arabs of the Sinai Desert.
(є) Topographienl papers by Rev. W. F. Birch, Captain Conder, Mr. Boscawen, and other writers.
(i) Certain geographical papers now in preparation, the results of observations made by a private traveller.

There remain in the hands of the Committee for publication :-
 able to report upon these when they are completed.
11. 'The Memmiss ami Plans of the interupteal simves of Eastem Palestine.
The Mencois of the Eoo symare miles exeented by Captain Comler are muth filler than thase of the commtry west of the Jomban, becanse thes deal with a distrit muih leas homwh, and fullem, if praille, of intemat. Thus, thmog the areas surseged ncenpics lithe mome than that envered has a siugle sheet, on the male of one inch to the mile, the Memmins are ceptions (emugh to fill a whole volume equal in sizo to whe of thrase pmblished on the "Surver of Westem Paleatine" while there are too drawings and plans and illustrations, besides a series of photographs.

The Committee have mut yet iterideal on the form of puliliation of these Demois. They may pomithy be pmblished, as in the ease of the "Survey of Western Palestine," by special subscription.
111. The drawings make for M. (lomem- Ciannean in the gear $1 \mathrm{M}_{\mathrm{T}}+5$ by M. Lecomte.
Many canses have emmbined to prevent the pmblication of these monexpuisite and valnable drawings. They wereexecuted fon the (ommittee by M. Lemonte, who acompranied M. Clemmont-(ianmean to Palestine in the years 1sT1 5. They are between six and seren humhed in mumher, and are almost wholly of architectural and archarological interes. Since Hney were placed in the hands of the Committee, nine fears agn, MI. (Ter-mont-famean has leen engaged in Constantinmpe, in Pakesine, ame in Paris, for the French Fontign Onice He has aloo held the gut of Prufesm of Simitic. Archeolngy at the Sobbome. He is mow, howerer, able to promise the necessary explanatory lefterpress as somn ats it is wamterl. The most of pmblishing this work in a worlhy fomm will he alment 21,500. Perhaps propmals will be issued for a sulsaription work in the spring.
IV. The enpies of the "survey of Weatern Patestine" which remain have Leeon plated in the hauds of Mr. Alexander P. Wath, of 3l, Patermeter Row, who has luen alpminterl by the Soncety their agemt for the sale. They will hee i-anal hy him to libraries, Ace, in order of applitation. Sichanibers and
 be made, cither now or at any other time, in the price of this great work: On the onther hand, the Cimmittee reserve to themsclues the right of raising the price of the last copies.

In conturim, the frients of the Sneiety are carmestly requested to consider that the work is always actively going on ; that fumls are always needlal; that the real and invaluable work which has been already dome must lee taken as an earneot of what will he done, and that their continued asistance is atked in suppore of an enterpmise which gives results, solid, enduring, and for all time.

## NOTES.

 inclusive, from all sources, was $\mathcal{L G 5 6} 9 \mathrm{~s} .3 \mathrm{~d}$. On December 16 th the balance in the Banks was $£ 2059 s$. $6 d$.

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While desiring fog give every publicity fo propmeed itemitications and onther

 by pullishing the:n in the Qearterly Atutement they meither sametion nor atopt them.

The only authorised lecturers for the Society are-
(1) The Rev. Henry Geary, Vicar of St. Thomas's, Portman Square. Inis lectures are on the following subjects:-
The Survey of Western Palestine, as illustrating Bible IListory.
Palestine East of tho Jordan.
The Jerusalem Exeavations.
A Restoration of Ancient Jerusalem. Illustrated by original photograples shown as "dissolving views."
(2) The Rev. James King, Viear of St. Mary's, Berwick. His subjects are as follows:-
The Survey of Western Palestine.
Jerusalem.
The IItitites,
The Moabite Stone and other monuments.
(3) The Rev. James Xiel, formerly Lurumhout of Chriat Church, Jerusalem.

## ADDENDA TO TEE FLORA OF PALFSTINE

I nave juat received, through the kindness of M. William Barlier, of Valleyres, Fand, Switzerland, a copy of his splendid illustrated work. "Herborisations au Levant," Ato., Lansanne, 1482, containing the remults of a hotanical espealition to the East, made ly himself and his lroober in 1880. I much regret that I hat mot the gool fortune to see the solmme before the "Fama mut Flom of Palestine" went the press. MMI. Barlues only pive the results of their own and Tr. Lemtets expeditions, limt ecous si) their catalogue comprises 34 speries of phanerogamio plants, 13 of them grasers, which eseapeal my ohservation, and which must hee athed th the 3,012 specios in my wolume. In onter that our catalugne may the as complete as possibile. I trost you will afford spave in the Qamenty Statement for these addenda. They are as follows:-

Piapomonowe. 1. Ahrwitem griandiflorum. Boiss. Diagn.. Sir. II. v. 1. 15.- Valley of the Kedron. Not hithertentarertel in Palactise or Syria.
Cometione. 2. Simepis pulnstons. L. Mant. 95.-Beershelm.
 li. propringue, var. סwmophita. F. and F., 1. 231.
3. Cirylustan commems. L. Syst. SGE, var. filliose, Miill.- Marmala: between Jerusalem and Jericho.
Violarice. 4. T'iola ocoultu. Lehm., Ind. S. Hamb., 1829. Neas Samaria.
Silenee. 5. Silene apetala. Willd., Sp. II, 307.-In cultivated grouml, Valley of Achor.
6. Sitene cunopica. Del., IIl. Fl. Egg, No. 442.-Beersheba.
7. Silene oxyodonta. Barbey, spec. nov., Herbor, au Levant, p. 121. PI. XI.-Plain of Esdraelon.
 Kehtron \alley; between Jorusaten and Jotichn ; by Lead sien ; Esdraelon.
 dentally omitted in F . and F 。
 of the Kedron ; Jenin.
11. Trifoliame bullutam. Buise., Flow. Or., 11, 18s.-Fichls man Beyrout.
 Valley ; Wâdy Semakh.
13. Astragulus trimestris. L. 1073.-Philistia; Beersheba.
14. Astragalus camelorum. Barbey, spec. nov., Herbor: au Levant, p. 131, Pl. III.-Southern Desert.
15. Lathypus setifolizes. L. Sp. 1031.-Southern Philistia.

Composite. 16. Cynara sibthorpiana. Boiss. Diagn., Ser. I, x., p. 94. - Jericho.

Convolvulacee. 17. Calystegia soldanella. L. Sp. 266.-Sea-shore at Sidon.
Scrophulariacce. 18. Celsia glandalosa Bouche., Linn., V, Lit. 12.Valley of the Dog River.
Labiatce. 19. Sideritis taurica. M. B., Taur. Canc., II, 43.-On rocks in the Dog River Valley.
Salsolacer. 20. Salsola canescons. D. C., Prodr., p. 208.-Accidentally omitted in F. and F. Found by us on Lebanon. By MM. Barbey at Marsaba.
Euphorbiacea. 21. Ěuphorbia parvula. Del., Eig., p. 290.-In the Southern Desert.
Saticinece. 22. Salix triandra. L. Sp. 1442.-Achzilb. Not beione noticed in Syria.
Iriducece. Iris lorteti. Barbey, spec. nov., Herbor, au Levant, p. 178, Pl. VII.-This superb Iris, one of the two species mentioned by me ( F . and F, p. 423) as found in the woods of Galilee, has been described and beatutifully figured in a full-sized coloured plate by MMI. Barbey. It was found by Dr. Lortet in the same place where I collected it, near Kulat Hunin, above the waters of Merom.
Liliacee. 23. Bellevalia sessiliflora. Viv. F1., Lib. 21, t. vii, f. 5.Southern Desert.
24. Muscari holsmanni. Held., Att. Con. Fir., 228.-Achzib and Beyrout.
MM. Barbey also mention two undescribed species of Leopoldia or Uuscari-one from the southern desert, the other from the northern , Man -

Orchider. 25. Sertupias lingua. L. Sp. 1344.-Near the Dog River:
Giraminece. 26. Andropogon rubescens. Vis., Reg. Bot. Zeit., 1829, p. 3.-Near Ras en Nakurah.
27. Alopecurus pratensis. L. Sp. 88.-On the coast.
28. Cynosurus callitrichus. Barbey, spec. nov., Herbor. au Levant, p. 165, Pl. X.-Near Hebron and Jerusalem.
29. Échinaria capitata. L. Sp. 1488.-General.
30. Lepturus incureatus. L. Sp. 1490.-Near Beyrout.
31. Bromus rubens. L. Sp. 114.-Dry places, throughout Southern Palestine.
32. Lolium rigidum. Gaud. Helv., I, p. 355.--Various places on the coast.
33. Sphenopus gouani. 'Trin., Fiund. Agr., p. $135=$ S. divaricutzs Rehbr--The Ghor.
34. Festuca intermpta. Desf. Atl. I, p. 89.-Waste places, Eschaclon.
35.) Catapodium lotiaceum (Huds. Angl., 43).-On the coast.
36. Avena barbata. Brot., Flora Lus., I, 108.- In the desert and in waste places. This is the unidentified $A$ vena of F . and F ., ]. 444, No. 56, from Moab.
37. T'risetum parviflorum. Pers. Syn., I, 97.-Waste places in Judeea.
38. Descheempsia media. Riem. el Schultz., S. II, 687.-On the coast near Achzil).
I may also here observe that I have identified the Phleum, No. 13, Fama and Flora, as $I^{3}$. greecem. Boiss. Elor. Or., V, p) 481.

Also Pemisetum, No. 19, p. 442, F. and F. as 1'., ciliare (L. Mant. 302).
Aristida, No. 35, p. 443, Ě. and F., as A. pumilu. Decatisne, Ann. Sc. Nat., Ser. II, 85.
Gastridtum, No. 23, p. 442, F. and F., as G. scubrum. Presl., Cyp. Sic., p. 21.

Polypogon, Nos. 50 and 51, p. 444, F. and F., as $I$. maritimum, Willd. Nov. Act., III, p. 4.13 ; and P. littorcle, Smith, Comp. Brit., 13.
Avena, No. 56, p. 444, F. and F., should be Giardinic firagilis (L. Sp. 119).

Bromus, No. 110, P. 445, is 13. fasciculatus. Presl., Cyp. Sic., 39.
Ductylis, No. 93, p. 447, F. and F., is D. lispanica. Roth. ; cf. Flor. Or., V, p. 59 (\%.
I wish also to correct the following identifications of grasses in the "Fauna and Flora:"-

Phaluris canariensis, p. 441, No. 5, should be P. Wrachystachya, Link in Schrad. Journ. 1, 3, as pointed out by Boissier, Flor. Or., V, p. 471.

For Milium sypriecum, Boiss. No. 110, 1. 448 , rearl 1. vernute, M. B. J'aur. Cauc., I, 53, var. monti'mum, Cosson.
For Melica boissieri, Reut, No. S3, 1). 446, read M. citiate (L. Sp. 97), and erase Nos. 75 and 80, Brize bipennata and Melica minuta. The former species is identical with No. 87, F . and E ., Eragrostis cynosuroides.
The long-expected completion of M. Boissicr's most exhaustive ann?
 just reached me, enables me to revise my catalogue of grasses by the

 Ah well as with the Hectaity for the compertions emmmetafel aheve; well


M. Boissier's work enables me to add one species to the Conifere of Palestine, viz., Abies cilicicu, Ant. and Ky., AEst. Woch., 18, 53, 1. 409. It is the mbly Ihias fombl in the commre, ami whioh I mww well rememher


 The distinctions are pointed out by Boissier, op. cito, pp. 714, 715.

I have but one fern to add to my catalogue, the common Adders'
 the number of grasses added to our list by M. Boissier amounts to no fewer than 17, hinging up the whole mumber of lialeatinian (imeminer lo 216. I subjoin the names, with the localities given :-

1. P'anicum sanguinale. L. Sp. 14.-General.
2. I'cenicum crus-galli. L. Sp. 83.-General in fields.
3. L'unicum colonum. L. Sp. 84.-Coast near Sidon.
4. P'uncum eruciforme. Sibth. Prodr., I, p. 40.-Ehden on Lebanon.
$\therefore$ P'unicum numidianum. Lam. Enc., IV, 749.-Near Beyrout.
(6. Setariu verticillata. L. Sp. 82.-Near the coast.
5. Andropogon ischemum. L. Sp. 1483.-Lebanon.
6. Menarthria fusciculuta. Desf. Atl., I, p. 110, t. 36.-Near Sidon and Beyrout.
7. Plackuris nodosu. L. Syst., 38.-Const and Lebanon.
8. Melenchloa acutiglumis. Spec. nov., Boiss., Flor. Or., V, p. 4TG.Hadith, Lebanon.
9. Phleum alpinum. L. Sp. 88, var. commutatum, Gaud.-Snow-line of Lebanon.
10. Pherm bahmeri. Wib., Fl. Wett., p. 125.-Hadith, Lebanon.
11. Alopecurus gerardi. Vill. Dauph., II., 66.-Subalpine Jebanon.
12. Aristida sieheriana. Trin. in Spring., N. Ent., II, 71.-Near Jerusalem.
13. Aristidu forskahlei. Tausch., p. 506.-Sinds near Beyrout.
14. Aristellu bromoides. L. Mant., I, 30.-Lebanon above Sidon ; Antilebanon above Rascheya.
15. Agrostis verticillate. Vill. Dauph., II, 74.--In wet places, general.

1-. Agrostis albu. L. Sp. 93, var. scabrighemis.-Brumman on Lebanon.
1.). (íastridium lendigerum. L. Sp. 91.-Sidon.
20. Corymephorus articulutus. Desf., Fl. Atl., I, 70, Pl. XIII.-Sands, Gaza, Beyrout.
21. Moleres lunatus. L. Sp. 1485.-Lebanon.
22. Holers anmurs. Salz., Fl. Ting. exs.-Pine forests, Lebanon.
23. Ventenatu blunchei. Boiss., sjee. nov. Flor. Or., V, p. 539.-Cedar grove, Lebanon.
-1. Dactyloctenium agyptiacum. L. Sp. 106.-Coast near Sidon.
2... Cynosurus clegens. Desf., Atl. I, 82, Pl. XVII.-Hasrun, Lebanon.
21. Eiragrostis poceoides. P. de B. Agr., 71.-Fields, general.
2.. Erayrostis megastachya. Link., Hort. Ber., I, 187.-Coast.
25. Brizu spicata. Sibth., El. Griec., I, 61.-Lebanon and Antilebanon.

2!. Poa diversifolia. Boiss., Bull. S. Fr., 185\%, p. 306.-Dimas, Lebanon.
30. Poa trivialis. L. Sp. 99.-The coast.
31. Poa persica. Trin. in C. A. Mey, Enum., p. 18, var. alpina.-Top of Lebanon.
Si2. Notinia cervea. L. Sp. 95.-Upper Lebanon.
33). Glyceria plicatu. Fries, Nov. Mint., III, 176.-In standing water.
34. Featucan orinu, var. pimifoliar. Hackel in litt., Flor: Or., F, 61\%.Higher Lebanon.
35. Scleropoa maritima. L. Sp. 128.-Coast near Sidon.
 salem.
37. Bromus alopeourus. Poir. Voy., II, 100.-Galilee and the coast.
38. Bromus squarrosus.-L. Sp. 112.-Lebanon.
39. Bromus brachystachys. Hornung. FI., XVI, 2, p. 418.-By the Jordan.
40. Brachypodizom pimnatum. L. Sp. 115.-Lower Lebanon.
41. Agropyrum panormitamu. Parl. Pl., var. Sic. II, p. 20.-Hermon.
42. Agropyrum repens. L. Sp. 128.-Lebanon.
43. Agropyrum elongatum. Hort., Gr. Austr., II, 15.-Near Beyrout.
44. Egilops bicornis. Forsk., Descr., 26.-Sandy places, coast.
45. P'silumus nardoides. Trin. Fund., I, 73.-C'oast and interior.
46. Horderm secalinum. Schreb. Spic., 148.-The Lejah.
47. Elymus clelileanus. Schultz. Mant., 2, 424.- Sentral Palestine. H. B. Tristram.

Durlum, 26th November, 1884.

## A DOLMEN IN THE TALMUD.

*Ramb Ismoam, sail, "Three stomes heside each other at the sile of the image of Matkulim are forbidden, hut two are allowed. But the wise sal when they are within his siew they are forlidhen, hut when they are thet within his view they are allowen!: Mishah Ahoda Zameh, iv, 1.)

This passage from the ba" trating of "Strange Win-hip," refers to the ithlatry of the smont and thind centuries A.D., hefore the extahlish. ment of Christianity by Comstontine. R. Ashmanel was a contempmary of Akita ( frome 135 A.D.). From the Babytonian Talmul (Bala Metzia 2 s b. we learn that these three stones near the "Menhir of Mercury" (for Markulim was Meroury or Hermes, the goll of the pillar) were arrangod two side by side and the thim laid llat acooss. From another pasace (T. B. Beracoth 57 b) we gather that such symbols, viz, an "image" (N7) found.

Fom the Midrash on Proverlas xxvi, \& we alon gather that the cultus of Mowholim (ow Moromry consistel in throwing a some at his image, ame it is well hunwo that this gractice was commertel in Greece with the cultus of Hermes or Mercury.

This wilithon was evidenty a dmemen similar to the dolmen tables still लerted liy the Araks in Moab, and its conmention with a monhir realls dim "Kentinet stones" which are formed in Britany, Fivandinavia, and England, standing in front of a domen or trilithon.

## Markterm on Mount Gition.




Markolim in Striden.


The Dolmen and Sentinel Stone of Oronst. (Fergusson's "IBude Stone Mronuments," p. 206.)

I feel litule dombt that the emions momment which we discovered on Aonut (ithon uear the village of beir Ghazaleh in 18t2, is one of the Markulim of the Talmut. It was, I believe, the first rude stome momument diswoted west of Jomlan imot induling Phonicia, The staming stome is 6 inches thick, 2 feet wile, 31 feet high. I fomml it rery firmly fixed. It was impossible to move it, and it is probably sunk to some considerable distanm in the gromml. The tritithon of domen has a tahlestone 6 feet ! inches long. The wher stomes form an entronture such ats often encircles dolmens in every land. The entolosure with a contual stone is also a kiml of monurnent found in Moal, as I have shown in my reports :and mommits. All these fats tell simagly in fitrom of the comtention, which is stpported by Lubbork, Forbes, Leslie, and other compretent authorities, that rude stone monuments in all lands are intimately eonnected with the religions hlats of ealy tribes. This suhject I have endearomed to treat in "Heth and Moab," int a great many contirmatory facts have come to my knowledge since I completed that volume.

L Whatry was of enurse the general pratioe in Syria when the Mishmah was writhon, and in the tratt above quoted we find mention of the sum, moon, plamets, momitains, Zontiamal signs, trees, and stomes, as wheets of idulater ; also the samed baths or strings of Voms, and the soppent on Wragin. One other pasage is of interest in conmection with rube stome monuments.
"In Killon, at the tree where they womphipleal, they fomml beneath it a

 ohjoct of womphip is the insige, we shall allow the thee to yon." (Mishata Aboda, Zara, iii, 2.)

In this case the menhir had been covered up in a cairn made of the stones thrown at it as an act of wombip. The meanine of this chstom hat been makle phain ly arehemhgists, and each stome theown is withes of a visit paid to the gint. The larger therefore the cuirn the greater the veneration slown.

From amother passige it appuas (is, 2) that ufleqings nsed tw be plated on the head of Markulin or ont the top of the menhir. In Brittany, and in Sionlaml amd in Lmlia alike, menhins may still be seen which finm
 alsu motical in the bihle Cemesis $x \times x i$, ti) 14 , hut I have mot met with any explanation of the cultus in the dictionaries and commentaries.

The arrangement of the trilithon and menhir, especially when the lafter is motommed ly an endelosme its is the case in the Gillona example.
 as were afterwards erected in Phoenicia or Greece, with a rude stone instead of a stathe, aml a pair of pillans stambing in front of the fame, ant supporting ouly a single blook of stone. 'The relative persition of the pillat and the wilithon alpmass sometimes to have hal a relation to the sumpise or sunset, but this though observed by the modern Arabs is not an invariable rule.

In connection with this subject, a few words may be added as to hollows in dolmens and menhirs. The coup hollows hase leen dospibed
 are made in stones, aml combectiol with a charm against diseases, which are conjured into them. In Scotland the same hollows were used for

 had a hollow in the top in which rain water accumulates, which the ignomant supmoe to spring from the stome, and a conto shapmal scome, calleal Water Cross, was said to bring down rain when placed upright.

Visiting recently the well known Kits Coty House dolmen, near Mnitatum, inser if there were anty at! hallows in its talle stome (which is slmuted just like the dable of a Moabite dolmen). I fommet the wide stomes pitherl with depp hollows, some of which it is impresible ho stppose to have
 there is it ruined cime of fallen stomes (samdstone from the meighbourhont, as is Kits (inty Honse alon). The farm prople loblere that theae stomes
 alone. I fromel in some of the stones of this circle (which are 7 to s feet
 the uljeat of lowling somethinge. P'erhaph, as in so mathy wher eases. likatims of hamel me milk, lomes, of water, wore onte pronted on these luely stonse on small mfierings phated in the stome itarlf, by those whon racarial thom momuments as sateal. The ofliving was hlaced on the luy of the stone in the case of Markulim as above noted. One of the hest
 famous covered dokmen at Gavr Innis in Brittany.

Them is amother circle at Ahlimgon Park, near Maidstome, which I have not get lomen aline tor risit, which has a colveus ontly ing caim on the
 Jideid in Moat).

C. R. C.

## THE ARAMAIC ALPHABET.

 Getwier, 1443, I have mentioned the iswriptem at 'lrak of Emir. 'Thes we hotl coppial and photographed, and m! original copy made on the spmi difins in the firs lefter from that of perions writers. Aconding t. Levy, it has the form of a rude Teth open at the top.

## $C$

Aromaling th my coply it is round like an O, and conld only real as an lim.

## $\pi^{7} y$ ヶ。

I did not when coprying the text reflect on the impontance of this difierence, hut the photograph, though taken rather at an angle, appears to suppmit the copp, and do Jogite reads this hetter as agrecing also with my view.

The importance of this difference lies in the fart that the inserijption appears as a whele to be Aramaio rather than Plumician; lout that the first letter if it be an Ain cannot be Aramaie, but must belong to some aphatet allieat to the Monlite stone, acemoling tis the receited views. The Aranaic: alphatets, whence square 1 eherew derelopel, are perulianty marked by the open loops of the letters, especially of the Ain. In order
 new photograph of very large size, may become necessary; hut it seems strange that such a differeme of coply should oncor in son sers distinet and Well promered a test, and I incline to believe that my wopy, made whan any reference to the reading of the text, is correct.

Now the inscriptions from Medeba seem to present us with exactly the same problem, and their genuineness is remdered the more polable, as sthme of their must suspicions forms have (as Dr. Taylor kindly points out to me) leen foumb also in unguestionally gennine tests from Arabia. In No. 2 of the Medeba texts we find two letters almost identical with two in the 'Arak el Emir text, namely,

## 07

The first of these is small, like the Aim of the Somth Semitio Alphaters, the second appears to be an Aramaic letter.

Now ahmost the muly great pmolem concerning the alphatet which remains to be solved, is that of the comnection of the South and North semitice Alphaters. The link masy perhape exist, not in Arabia, hut in Moab, and the Medeloa texts may serve to point it out. It seems that, contrary to espectation, forms of the Alanaie may oceur with Plownicim of smith simitic forms in the same inseripuim. The 'Arak el Emir test in all probalility dates as early as 176 B.C., and presents the same confusion of two alphatets, generally helieved to be dintinct. We have, it is troe, not very much to guide us in drawing comblusions, but the Mombite texts here noticed may perhaps induce palangraphical authonities tweatend their remarelies in a new lirection in treating the relations of the varions branches of the earliest alphabet, that of the Phomicians. I shouth mote in comblusion that Mr. Doughty has bought home syumeres of some Sinaitic and Aramaic inseriptions from the neightomblhod of Merca which may perhaps east light on this question.
C. R. C.

## INSCRIPTIONS.

It may be convenient to give a risumb of the migraphic results of the Survey of Palestine, which have heen more numepous and impentant than might perhaps he supposed, without collecting those scattered through the pages of the Memoirs.

## Hebrew.

1. The inareiption on a tomb in the Jordan Vailey, which appeas the he perthags as what as the siloam text, was diseovered by me in 18: d. (Memoirs, vol. ii, p. 396.) It is here given for comparison.

2. The cunious text from Unm ez Zeinut, which reads, perhaps, Eleazar Bar Azariah, was copied by me afuer heing diseovered by Sergeant Armstrange in Letis. (Memeins, vol. ii, p. T1.) As regards this it might perhape he sugesten that we have here the tomb of Rahbi Eleazar ben Azariah, who died 83 A.d. He was one of the Tanaim (Mishnah Teraenth, iii, Th, a diserple of IR. Jonathan hem Zaceai, who died is A.1). Both wrepe prients. I. Eleazar appors to have sucoedel Gamahil the pomnger at Tamnia. (C\%: Pirk, Alooth iii, 17.) The dismovery of these anciom Hebrew texts during the Surveg may he considered an impurtant adlitim, expecially as the zeal of M. Clermont-Gamean has only added the dianer test and the yet mpublished Phanician test from Silwher.
3. The square Hebrew inscription from a tomb at 'Ain Sinia was mpien by C. F. T. Drake in 15i2. (Memoirs, vol. ii, p. 302.) Tt appears to Jom, Mhase har Eleazar har Zechariah the priest. This may be ascribed to the Herodian period with confidence.

The well-known inscription at Kefr Birim is also noticed in the Mromira, rol. i, p. 23:3, and that at Nelratim, rol. i, p. 244, and at el Jish, vol. i, p. 225.
4. Sime Jowish graffitiat Neby Samwil are of interest. They camom. h.e oflew than 11 à a.b., but they are met recent, beocanse they have been plastered over, and the plaster is old and has fallen off. The most impontant is here given from the rou-air of a poimed arch with medieval masen's marls (the shield of Davidy and diagroal towling. It apprears to read, Moses Ben Nahum Levi . . Ben Aloazer . . Shemon. This may lie of ralue for comparimon with the graftiti on the usteophagi from the Monm of Olives describel by M. Glemom-Ganmean. The form of the Shin is moll later than that out some of thesen osterphagi. The
 a peonliar carly form, if righty read, and the . 1 hen he is also peoculiar.


Ammbe the Jematem inserptions which 1 have collewtel thenther fur the dervsalem Volume of the Memoirs will be fonme mentioneal the six Well-known Hebrew texts, natuly, the Beni Hezir Tomb, amit the tomb, fomml he De Vogié ; the samophagus of Queen Sata, and the stele fomme by De katuley with the lefters empieat at the Torph diate hy Sit 'lathes Wilsom, and the Phomician letters on the Temple wall : as aton the siluam text, the fragment of a tex from kefl Silwan, amt the fwo stypmoed letters on the su-ealled "Egyptian Tomb" in the Kedron Valley. Theme, with the three Phonician teats of Lim el' Amin (Memoins, vol. i, p. 14.3', an! the collin of Eshmmazar, the Gezer Stones, and the Pillar of Amwas. make a total of nineteen Hebrew and Phœnician texts known in Palestine. The Moabite Stone and the 'Arâk el Emir text East of Jordan must be added to these. The graffiti are not counted, nor the numerous Jewish tombstones at Taffa. (Memoirs, vol. ii, p. थ. 77. )

GREEK.
These are extremely mumerous in Palestine, the majority being Christian, and suhasplumt the foumh century. The mont valualhe is the stele of Hemol's Temple fombl hy M. (leoment- fammean. The following are the new ones found by the surveyors within the Survey.
5. The inseription of the Cathedral of Tyre, mentioneal, hat not given, Memoirs, vol. i, p. 73. I copied it in 1881.

## PONTHN OПOMH O . . OI . . N <br> KPHTHE

See Appendix, vol. iii, p. 428.
6. (ireek text at buir Dugheiya, which was fomml first by Ieman, in homome of John the Baptist amd St. (Eentge. (Memoirs, rol. i, p. 115.) It appears to have been rediscovered in 1877.
7. Greek Christian text of Siddikim. (Memoirs, vol. i, p. 138.) It contams the name of sit. Proeppins and the Doween Euselins. From the Contramime of the woml theaton it might he thought-as aho from the Jerusalem crosses above the text-to be of Crusading origin.
s. Marble shhfrom Mashb. A funeqary teat, probahily mot ention than the 12th century. (Memoirs, vol. i, p. 168.)
9. Greek Christian text from Maran. (Memoirs, vol. i, j). 25l.) On p. 260 is given another, which had been already copied by Renan.
16. Insmiption on an carly (lhistian tomb at Fhef. ${ }^{\circ} \mathrm{Amm}$. Mchmens. vol. i, ]. 3-11.)
11. Inseription at 'Abot, also found by Sir C. W. Wilson in 1866. (Memoirs, vol. ii, p. 303.). "Memorial of the Holy --."
12. Mrateval text, "Memmial of Ceorge," at el Hats. Memoins, mol. ii, p 3玉1.)

 (Memoirs, vol. ii, p. 3336.)
11. Iusuption ahmos illegible, empieal by ( . F. T. Drakr at Akrabeh. (Memoirs, vol. ii, p. 388.)
15. A few letters from another stone at the same place.

 John the Baptist. (Memoirs, vol. ii, p. 361.)

1-. El Mujhatra (irrek Christ ian text. It was empied ly M. Germent(immeat in init, of which fatet we were hot aware. (Jemoins, rol, ii, p. 427.)
18. Dmbention by Martin the Dearen. This alsu was empied hy M. Clermont-Ganneatu. (Memoirs, vol. ii, p. 13-4.)
19. Deir el Kelt. Greek and Arabic text over the door, and a number
 The text at Kommil aml Kasy Hajlah wereahrady homon. (Fien Momoins, wol, iii. 11. $205,20: 215,216$. The latter hate sime lean entirely destroyed.
20. A few letters at Ascalon.
21. Deir el Jelak, (iteels (Thriatiau. (Kue Memmin, Mal, iii, pr.2!4).
22. Another from the same place. (Memoirs, vol. iii.)

24. A second found in 1877 on the same race course near Gaza. It is unt niven in the Mommins. It is Christian, hegimming, "The earth is the
 with stane liy the Ihamen Slexamder. It is monably wot older than the fifth century. (See Quarterly Statement, 1878, p. 199.)
95. Sheikh Rashem. (Mommis, mul. iii, p. 2.is.) A mediasal (irmek Christian text in two lines.

2ef. Ciredk text in the Helpmn Haram (Mommirs, wol. iii, 1. Sto); this is additional to one already known.
2.. Khoreisa. Greek thristian text. "This is the gate of the Iome


Fis 1.


Fig 2.


Fig. 4


Fig. 7.

कhaictoc ANTUNIATE TYMAATHD入ANAPW

Fic 6.


Fig. 8.


Fic 1


Fic 2


Fig. 4.
the rifhteons shall enter in thereat." It is ponahly of the Byzamine period. (Memoirs, vol. iii, p. 357.)
28. Masada ; a painted text in a cave, the word Kuriokos, "of the Lord." (Memoirs, vol. iii, p. 421.)

2!. Vmmel Buruk, East of Jomdan ; a tahlet with the mame of Autonias Rufus in Greek. 'This has yet to be published.
30. 'Ammân. Greek text in the wall of the Cathedral, with the name of Gordiana. 'To be published in the Memoirs.
31. Jerusalem. A Greek Christian text from the north wall, which has mot heen previomsly pmblished, so far as 1 hase been able to ascertain.
32. A text from those of Jerâsh appears to be new (see the account of the Pioyal risit, f(umitil! stutmont, 1482, p. 219): lut sem alson Ppil,
 a yet longer text in hexameter.

## ROMAN AND LATIN.

33. Milestone north of Jerusalem. (Memoirs, vol. iii, p. 55.)
34. Milestone at Fukeikis near Hebrou. (Memoirs, vol. iii, p. 328.)
35. Milestone near 'Ammân. To be published in the new Memoir.
 Noticed in the Jerusalem Volume of the Memoins.

## NABATHEAN.

 and copied by me in "Jerusalem." As regrards these texts, I find that Colonel sir C. Waren has puhlished another from Uimme lian is in the

C. R. C.

## GREEK INSCRIPTIONS.

Those represented in the acomplanying plate (fige 1-8) were (oplied in Inia ly liev. W. Wright amb myself, in the village amd at the tomb of

 published. They are in the collection made by Waddington.

There is a fourth tablet uninscribed to the right. 'These are over a smk tomb north of the river.

Ahila existed as a town in 60 bs.C. The Roman inscriptions here date about 2.50 A. 1 . The fomms uf (ireek lethers are muial; hm these forms are found at Jerâsh probably as early as the second century A.D. They beame common in the fonmthand fifth centuries ; all the insaripions here are funerary.
C. R. C.

## SIN AND SAD.

Accontuxa to the students of literary Ambice the dist inction of the iwn Letters is mot carefully proserved in speaking, and they are never confumed.
 are occasionally written with either.

In our recent survey we found the mative scribe, who was intelligent atul well-instructed, smmetimes unathe to diatinguish the fwo lethent in the prommeintion by the Belawin of heeal names: sulh as Waly Sir and the min of Sitr, and it is commonly said in Syria that the momationtrilus wake en distimetion lutwewn Sin amb Mal. Even among the teachers of Nahu or cermat speed there is a difleulty, for when hard prowed thes are obliged to admit that a depper vowed simul acompranies the Foud than that belonging to the Six. Thus even to the present day we have a sursival of the syllalary from which the distinetion of some Sicmitic leners originatus; and this is hat one esample of the infurtanee of stuty ing the local proant dialect of Syria, which is verg llifiement in many reapects from the polite Arabie of litemature, prearving as it dowes ashaisme which are of the highest value for archeological purposes.
C. R. C.

## DISTRICTS IN PALESTINE.

Tue hills unt of of Jowsalem are divided into various goverument distriots, bearing ethnic names, viz: :-

| Beni' Amir | $\ldots$ | $\ldots$ | $\cdots$ | Sons of Omar. |
| :---: | :---: | :---: | :---: | :---: |
| Beni Harith | .... | .... | $\ldots$ | Sons of Aretas. |
| Beni 1/urreh | .... | .... | .... | Soms of bitterness. |
| Beni Sulim | .... | $\ldots$ | $\ldots$ | Sons of peace. |
| Beni Keid .... | .... | .... | .... | Sons of increase. |
| Beni Itemar | .... | $\ldots$ | $\ldots$ | Sons of the ass. |
| Beni s"u̇.... | .... | $\ldots$ | .... | Sons of stubbormess. |
| Beni llusun | .... | $\ldots$ | ... | Sons of beauty. |
| Beni Mâtik | .... | .... | $\ldots$ | Sons of royalty. |

These are mot pastoral or momatic, line agrieultural districe widh a sentleal poprulation of Fellahin. There are nis Arahe in these diatricts. and histmially the mandic trikes sem nerer to have held them. I have never seen any explanation of these names, nor dos their origin smon to tom known in Pateotine. M. Alermont Cammean has indivateal the interest If the mames. lut has not esplathed their origin. Profeson Palmee in revising my momendature has added the word Amhis to the tithe, apparenty thinking that they applied to existinge tribes in Palestine, hint. the districts are entirels free from momalie tribes, nor are ary existing Arab clans west of Jordan called by these names...

If, hewever, we thm to the map of Arahia in the days of Mhhammend and of Omar, we find the following tribes represented :-

Beni 'Amir, a tribe of the Nejed near. Yemana, or again south-east of Medina.

Beni Mitrith, a tribe of Yemen north-east of Sana.
Beni Murreh, both east of Medina, and south of the Jauf Oasis.
Beni Suleim, east of Medina.
Beni Maltit, a division of the Beni Temím, who lived near Yemana.
It was with the aid of these and other tribes that the famous Khaled
 swept over Palestine soon after.

It seems therefore probable that in these local names we have a trace of Omar's Cimpuest of Syria, aml that the hills of Jurlea aml -inna ia were regularly portioned out among his followers. The noble families of Jerusalem still claim to have "come over with the conqueror" at this fime. The have thus only amother instane of the sumival in Syrin of van!y Moshem divisimas, an l the divi-ion of the Keis and Yomeni frictions, which dates back to the early dass of Lelam, is still havily estimet, and is well remembered in Southern Palestine.

This itentilieation of the tribes presents a emrions amb intemesting historice parallel to the division of Canaan hy Joshua amone the frium-
 Jordan.
C. R. C.

## THE SAMARITAN TEMPLE.

Is there any satisfactory proof that the Samarians exeq evental a tomple ? Jospphus spaks of Samballats Tomple ( 2 "Antiq.," siii, z 7), hut gives BII acemut of it, and his Samballat mamot he the Sanlallat of the Rible if lee livel in the days of Alexamder the Cireat. In the New Tewamemi only the mommain is moticel (John iv, 20): and Ephphanims in the fifth retumy speaks of the Sinnavitans as womapping in a cimele gren to the air-stuh ah emeloane ats they still the. The Samaritan litwathe is all bey late amd maks Josha ereat a momple whim somballad only reatmol. The twelse (or ton) stones which the semaritans point ont as pat of their tomple are prohably tramed walls of Jostinianis fortras. On low whule it semms to me probable that they merne had ans thing hume than int present, viz., a samed rock with a wril-mathed culp hollow in its surface mobahly their altat, amd emblosures with dry stone wall, where they congregated on the holy mountain.

> C. R. C.

## LO'I'S WIFE.

feex mars helieved Latis wifo to be ath risilhe in his own days mar the Doad fia, "atill showing her femmine nature" amb apparently mit ymite a stone. Antominus Martyr in despiling his visit to the locality is carefnl ti. ombrovert the idea that the statue had heen diminished ly being L.ked hy animals. If mist have lieen to some stome of pond (apmanent? weat of the Dead siea that these writers refer. Sir John Mammeville still saw the statue "at the right side" of the Dead Sea. It seems posibly to the peculiar crag now eatled Kumed Sahsul Hamed. "the prak wheme 1 tamed (an Amah hoy sligeal down," that they all refer: I: is a chate somewhat like a human figure, jutting ont of the cliffs mean Kumrân, not far from the Hajr el Asbah.

> C. R. ©

## EN ROGEL.

In is pmoty gmerally allowed, I teliese, that the real site of En lingel is the present Virgin's Fommain oppusite Zoheleth, and not, as the Crusalers thonght, the Bir Eyilh, which is two far south, and mot a spring at all.

The usual translation of En Rugel is "Fuller's Spring." him "spring of the Foot" has recently heon suggenet. I wrobld suggest that horth are oflually musatiofactory. In Arahic Rijlah mosus a water chamel (horws
 channels are made with the foot by the peasantry. There is an 'Ain Profriteh of modem Ein Rugel near the weat mamin of Sheet X 1711 of the Survey.

If En Progel mean "spring of the Chamel," and if it he-as can the shown on quite indegmentent considerations-the present Virginis Fommtain, ther name is esidently herived from the fammas rowk-cut chamel leatling from the back of the cave in which the spring rises.

> C. R. C.

## AIN TABGHAH.

It seems to have escaped notice that this place is mentioned in the Tatmod, which is important, as shoning the name to he ancient, and thos perhaps presenting a strong argment against the iflea that this spring is the one which Josephus intends in speaking of the Fountain of Capharnaum.

The site, as is well homwl, is hetween Till Rlim and Minieh, and fine sfmings are here dammed up, in a resermir, while several conions round
water'furess (induringe 'A in Erinh exist immediately to the eate. Thee name means the "Dyer's Spring." (See the notice in the "Princes' Tour in the Holy Land.")

In the Talmud (Tal. Jer. Elha, ii, 2, v Midrash) a certain Migdol Treboya is mentioned, and according to Nenbauer was on the Sea of (talilee (Gieng. Tal., p. 218), this name meaning "tower of the dyers."
 wearers shopsstomel at this phace. Pemhapes this may explam the comions water-towers fomm lmits at 'Ain Thaghah and mear Mejilel. Thes may have been used as wells in which to steep the stuffs while being dyed, and this explains the name "Tower of Dyers." They clearly were not
 reservoir on the spot, which is probably only about a century old, and built by the Zaidan family.
C. R. C.

## KADESH BARNEA.

 Amerian respecting the site of this aity. I hape I shall mot he considered contemtions if I take expltion th the conclusions of the anthon, thongh supported with much care and candour, and shared by many explorers and scholars who have preceded him. There is much that is most valuable in the book, but when we find that Seir and Mount Hor are moved to the west of the Arabah, and that 'Ain Kadis is shown much further east than on preceding plans, it seems that permanent harm minht vesult from leaving it to he suppersed that the queatimn of Kinde-h was finally settled.

Taking the questions which I would wish to raise as they occur in the book, I would first note :-

Page 93, Seir = Es Seer. This looks well in its English garb, but we
 of which the proper Arabic equivalent is Shar, a word in use with same meaning as the Hebrew, viz, "shaggy." In spite of the authorities quoted it seems that Seer, or Sir, or Sirr is the common Axabic
 way," muless it be spelt with S"ad, in which case it means a sheepfold, or if it be really Sirr it means "gravelly." Until it be shown to contain the guttural of the Hebrew, it camot be considered to represent Seir, especially as it should begrin with Shin, not with Sin or Sud. The


 the Arabah. Kasp es Sir (p. 94) would m ?an probably "the sheepfold tower," and as is so often the case among the Bedawin, the region round

Ran：probmbly have heon nameal from this ruin．（Complate sheat XV of Survey of Palestine．）

Page 101，Edom．It is no doubt the case that Idumea was a name agplind to the comiry even as far nomth as Iforon alom the Christian ofa．lum the name Eitom on＂real＂monst storely have applied the the real sandstone country，and not to the white chalk plateau of the Tilh．

Page 124，Rekem．I fail to find anything to support the view that there were two Rekems，one at Petra，one at＇Ain Kadiss．All the suthmities agree that Pctm whe collent Rekem，and the Jews apprear most chanly to have butiered that kentosh Darmea was at of near Iretra．The seconl lichom seems only mandsary to the thewry of＇Ain Kadis being Karlesh Barmea．

Page 127，Hor－ha Har：No reference is given in note，and it seems to
 Hor in the Lebanon，not to the mountain in Edom．I have tried to ahow elswhere that we shoed problably real How han Khar，＂Mommain of the Phomicians，＂the change of $\pi$ and $\pi$ being very slight．

 Petra．I would venture to suggest that he does not agree as to where derusalem was，or even as to Sinai．The Mount Hor now shown is that w．hich Joaphus laclieted in，and prohably it was as well known as simai of：anty other famons mountain（Carmel，Tahne，Hermon，efe）which are mondonbted，thongh we hase little Imt tradition in some eases to rely on． Dr：Trombull aedphs the msial Sinai，Lont the site of that sommain does
 Hor－both are too famous ever to have been lost．In the case of Mount How we have is fact that＂comsent of tadition＂（Jewifh．Chriatimen，ant Boolen）which，as 1 tried to show in＂Tent Wonk，＂is gememally indicative of continume prompation of an ancient site．The pmation in the hember of Edom is quite in accordance with the usual understanding of the Nomert gengraphy，and the new propood situntion at Jelarl Maturah －ans far too artitrapy to mem the comsonsus of tradition and mpinion in the matter．

Di．Trumbul！suppoas Mahuah to lee a furm of Mosemoth（コาロソロ）． remarking that D and S are courertible in Eastern speech．I do not think this is the case．The soft＇T and the soft S（Te and Sin）are
 hon treall any instmue where 1 and sare consortille．Dr．Trumbull is
 which he appears to consider（p．280）to be spelt with the guttural
 the Eher（77y）of and her pamage（ $8 \mathrm{x}, 21$ ）．The Mim being a sentle
 from thinhamis tranaliteration，might well be the satne ats Adme．The site of Eder may perhaps be at the ruin＇Adar，near Gaza．
＂Kadean＂（1．136）．It would he worth while to examine this vicinity
carfully, in matev to find whether the mame Kallema, repurted hy bortum, really exists, on was ouly manufatural for his bemefit. No eflint sumems lately to lave been made to discover this.

Page lit, at ag. Thiging from the Arahicic the word Rakem whild semem
 stomes. (Aue Freytars Lees.) The worl Kemm (1. 151), spett with the Fofh, generally means a tree stump.
l'age 211." Zephath." The malionl meanine of this name in H1.hew
 The identity of Zophath mul, Sufah can hatly be dombleal hy any whe emsider the routs whence the 1 wn wonds ariginate. The shagestion of Behefta or Sibhita for Zophath has always secmed to ue to argue a want of shonlar:hip on the grat of Rowlands. The Arahic name somens the be from the root siblo, "rest," Whioh has not a single letter in common with the ram wheme Zaphath arginates. Philogieally at leasi (ami I thinh gengruphically ats we.ll) Jembinsmi's suggestion is pricrable to that of
 Theme was a Zaphathah near Mareshab (I2 (hon.. xir, 10), which as I have hefore fminted out survives at the ruin safieh, a wond from the same 1 out as Safah.

Fage 212, "Hagar's Well" at Mnitahhi, depends on a luaditiom of the la, it llajar: We onght ter he informed how this latter name is spolt, whether with He of with the ghutual. In the lathen ase it would simply
 frommaciation like othey womls with a supermmomary Hion, aut means "salt." If a tralition of IIn_zir doushere exist, it is mot free from susplicion of monkish origin, amb the same may le sait of ' A in Kalis, for not ouly hate (hristian monains heen formed in this deart, with Arah dratitions of Ohvi-tian sedthments. lat we alsh how from Jerome amd from Antuminus Martyr of hermitages and monasteries in varions parts of the 'Tih.
"Hezron," page 228. Dr. Trumbull has omitted to notice what
 first to sumgest in the idemtilicatimen hezrom. He dues mut himenlf find this name an! whote in the docont yet all grond majes show the Hadireh hill weat of Whaty of Vemen. The popme Arabice equivatent of Hazan

 Ternfi. It is stramee that Dr. Trmmbull shmud hase beron quite silent as to this sugkestimn, which if it lee emmed setfles the Katesh Lammea fryetion for eror. $A$ to the meaning of Hazm and Hazerim, we fomme in
 beyoml. Joman to the anciont stome cimeles in at least whe case; perhaps subh (indes exist at dehel hatimeh. The thom end haters would he callad Hir (see 11. 241), and the Hazons semon probably to have heen whe crombechs or circles, funereal or of religious use.

Page 276. IHuxy, usually lendered "winds," will be found to be
derived from a word meming a gorge or precipice，which fits well in the case of Kaukab el Hawa，and in other instances．

Page 25s．The opinion of Lery and other epigraphic anthorities is gemerally suppused to have settled the date of the sinatio inseriptions as not earlier than the 4 th century．

Page 253．＇A in et PQulayrat appars to be spelt with a Doct be mistake． There is me such root in common Aralic，and the root meaning＂（mmi－ potence，＂is spelt with a Dal．

Page 259．The sugmostion of＇ A in Qasaymbly for Kaisam（ロロア）is free from phitolugieal objoction，hut If：Trumbull should consides： Neubaners comrions explanation of the Tatgum，reatheg Kaisan for Azmon． The sugqestion Qualayrat for Alar is oljeotionable，hecause．Alar is spolt With Thphe and that，white acoordinge to 1h．Trumbull Qadayrat is spels
 these suggestions seem to be far too vague to carry conviction；and Qasaymeh probmbly means＂division，＂or＂halving，＂as the Aralis say． Thece somes bur real reason for rejerting the Ambl legend of a Christian bomulary at this print（see p．291），as the district mose had a（Gristimn polpulation．The word Azmon is must likely to survive in A falicic in the form＇Atmeh．

As rearnds the Exonlus ronte，there is little in Dr．Trumbinll＇s cateful paper which will lie new to readers of Brupsch．Tomkins，\＆e：The yneat in on of the wall shore；and of the Fom sophe is treated with great cleamess and fores，and heads to conclusions which will intime he genemally amented．

It is in her regretten，however，that sufficient notice has mot heen takent of the fants flath geological and engineringes which leave it indi－pmathle that the level of the Read sea has been changing，and that the Isthme of suez has heen growing homeder within historio times．The existome of a Nite Iranch duwn Waly Tameinh，which is important in this comneetion，
 and Etham בתיא are the same I can whly say I agree with Protembly Rubertson smith in regarding this as rery doulgfal．It seeme far mere probalile that the Atmma of the story of Someha is Etham，and wot as
 is most often $T$ ？

Page 331．＂The fortress of Kanaan has not heen identified．＂This sermes to he wricten lefore Dr．Trumblall had seen my pmper on the suljeet， as my sugsetion of Kamatn，a large ruin near Behron，met with heary acceptance from Mr．Tomkins．

Almecial atrention shouth be called to the deduction from Exond．x，I！， which Mr．Trumbull hrings furwant as showing the direetion of the Vam suph．The rationalistic explanation of the pillar of chom and of tire which seems suggested on p． 397 is also very interesting．

The map requires a word of motiee．for it is not clean why A in kadis is there shom much further east in longitude than is the casco on Paluer＇s mape of Hollonds map．The result of moving Momet Reir and Monut How weat wark，ant kialle cast，is to bring theon much nearer togethes，lom
the site of 'Ain Kadls is still tor far west on suit the repmirements of the case. Generally speaking, one feels that the evidence has been rather twisted in favour of 'Ain Kisdis, thmgh Dr. Trumbull has atrionen to lee impartial and candid.

The omission of any notiee of Herlireh, athd seremal minore erfors abone pointed out, seems to spoil the completeness of the work.

Rohinson's site at 'A in Weilnh is conjut mad. Perhape Kinlesh may yet be fomm in the vicinty of Jelel Maduab, where Fevton datms to hate fonmd the name. The natue Whaly Fiksh, of the "doven talles, at this plate might have shme emmerdion with the ravk vosen at Kinlesh. It has been establishem that an 'Jin Katis domes really exist further west. hut it is mot estahlished that this is the site of Ein Mishpat. It may he either a monkish site, for the monks were mot rampul as to the hiblied requirement of their sites; or it may indicate that, the inme Kadesh applied to a lage tract. lut the fimphure narmative seems clenty fop pint to a site for Kadesh Barnea close to the Arabah.

The excursus on Set, though interesting, is not novel, and it seems hardly worth while to have revised the suggestion that het was combected with the Assyrian word sed, and the Helnew 'hedim, meaning "powerful." Bet is mome pmoblily comberted with Thoth, as meaning at "pillat" or "stome," for hoth set and Thoth were pillar gonls and guls of darkmes, night, and the momb, and the deteminative acommpansing the name set in hieroglyphies is a stone.

The route of the Exodus as laid down by Dr: Trumbull seems to be a mean hetweon thrme siews throe of Brugech amt the thatitional, tomether with that resulting from the latest ulacerations amb disenverios surely however the wamterings ate as meanmeles as thes well conlat be extemiing frem laniailioh to Toll Hir, and hack again weat of the Bither Iakos. to cross the sea at Sucz. The view which seems destined to survive is that which discatels the ohd traditimal Baal Zeplom at Jelel Ahtakah, and makes the erossing to lave occurred near Ism'ailieh. Bir Mejdel, East of El Jesr, is a relic of the name Migclol, and the name of Baal
 rest on un somml havis, amd the fact that the head of the (iulf of sum wats once much further north is now fairly well established.
C. 1R. C.

## ROUND MOUNI CARMEL.

> ILaifa, 29th Norember.
 identification of sites, is nowhere, as Captain Conder has shown, more curiously illustrated than in Haifa and its neighbourhood.

The tadition, first suggested by Willian of Tyme, that Pomphyrim was idenfical with Haifa, is still firmly chang to by the momles of (ammel. ant luth Reland and sopp identify the mins in the meghtmothond of that town with P'ophyrion, hasing fleir arymments, lmweror, "pmon of her than Crusating tratition: the latter almitting that while one Porphyrion
mols bee eight miles north of Sidon at Khan Yum's, theme mmat have hem
 which plates heme a town called Chilzon, which he mamtains is the. Hehmew name for Mures, the shell which prablues the pmople dye, and

 the rums of Haifa el Itikah, whore the enast is strewn witu such a !norfusion of fraymonts uf juphyry canvingsas are not to be fonmd dsen herean hypalh is catmedy sumbient in itwif to warant the identifimtion of a site. 'The fiwt that theme was a lishop of Porpllyrion who was umber the
 loy any of the itimemios of the pilgrims or ancient Latrellexs, as none of
 with swliwient anomary to enable us to itentify the places they mentime Thus it happrens that there are the ruins of tive towns within a shom distane of ome amther on this remast, mone of which hate heen infentitied with ahsolute certainty. Them are, firat, the ruins of Haifa el hikah, distant a mile ast a half frome mmern Haifo, which may italf to the
 from Haifa el Mikahs thinl, these of Keis A. Abmir, distant two miles
 blistomt two milus amd a half from Kefr es Simir: :mul fifth, those of
 a half fomb Klmelaet el Keniseh. That one of these is Syamimmm, and amother Catamon, is pely rertain, and the conclusion genctally arived at
 the lattop. It was is the home that I might find something at Tif el semats that might thew lioht we the sulheot, that I examimed the neigh-
 atumhled upon a min which lmmed out to lo. Ehushet Tommameh,' which
 ly a flight of rectath stepis meat whith are smote tombe to the left of the
 300 yarls, whete, at and eletation of zow fres above the lewol of the sea, 1
 witt the trace of an anciont twwn. Fraghments of collmme amt applals amb pimas of anval mathle weee strewn alont in pmatusion; the rovis in the



 those of a fort. This Khurbet lies due east of the momad of Tel el S.onath, fomm whith it is dietant almut tons yards, amb may hase formed an
 Ens sisle by it wall fummine manly due momh amb somit, 112 :amde in langh, from whinh at pipht amgles funs a wall 40 yamls longe, teminabings

${ }^{1}$ On the map 'linâny.

## KH.TEMMANEH OR TINÂNY.



Simble

Here it furns north fue 122 yarls. It is compoent of rublale from which the ashlar has been remured, aud is from :3 th 4 feet in thickneas : the wall botmang the min on the somble is bis patels long, emmeneing from the south corner of the east wall, and the south wall is 70 yards long, terminating apparenily near a harge cistere with fons cirenlar apertures I hat myself let down into this, and foumd it to he hown ont of the rork.
 movered with au mbluewa dupth if dibris. The siles had heon oemphted, the cement still remaning in parta in a very perfect state of preersation, and the monf was suppartel loy thae culamis hewn from the living mock, 4 feet square. The amexed plan will give some idea of the ruin. I combld fint no traces of a wall on the morth side, but I think it probshluc. that a little excavation would lay them bare. NFear the east wall 1 piiked up a fragment of marble one which hant been carved the wome "Allahs," and two or the other lethers indicated that if was the commenc. ment of mald A abbin inserpiption, though the characters wore mas Cufic.
 have come inder my obserration in the comrse of my side in this neichhonthomi. Af Kefr Lam (sleee 7,1 i) the follahin have, since the isist of the officers of the Padestine Suver, opencal an ancient well, which furnishus them with a goonl supply if water. It is 85 feed deep, and appmandied liy a thight of scoper partly hewn ont of the solit mock amt partly artiticial: the sides of the well, the mouth of which is about 30 feet square, are also pantly of masonry ambl pards of hewn pock. In the neichtomennomi are iwo
 was 15 feet square, and spanned in the centre by a single stone 15 feet long and 2 feet broad by 2 deep. Cut in the rock at intervals of about 8 inches were two rows of holes, which may have been used for supporting rafters.
 broad and 7 feet high. The roofs consisted of massive blocks of stonc, which were supported in the ease of each vault by five arches, each arch hewn from a single block of stone 4 feet in breadth, thus leaving a comparaicely nartow imerval between each arch, and forming a chambur of a rery pernliar conotruction. At Zimmutris Theats, K jo the Sews, whor are settled there in a colony, have in the comse of their operations also luought to light a comimes whamber. In feet ly 5 feet and in feet heep ; on thee sides it is hewn ont of the lising rowk; on the longes stite have heen cout four mows of eightoen holes, ewh hole leing © inches splare amh alout 6s inches deop at the lase, hot standing upwanks : on the bhoter sithes there are four rows of ten holes, each row being about 3 inches above the one below it. Whether these entered into the construction of the roof of the Thaminer or sored some religions purfee for which the mom may have Inebn originally designed, 1 am umble te comjeature. At El Makina, a

- The survey party came across a number of those rock-hewn chambers along the ridge roming parailef to and near the conat line having spare pigeon holes in rows of about the same dimensions; some chambers had steps leading down, others not.-G.A.
 which I have yet obsersent in this part of the combires. It measural! feet long her at feet in willth. The heitom was so full if undergrow th that it is impmasible to conjeature the real depth, lut it was domblases capalie of containing an ahumbans suply of water. Shombl the commery exer be ter pmpulated, many of these ancient eistems conld the utilised. I was mita if fortumate enangh to discover a hell-shaped cistern at Datieh, which mily reppired cleaning ont and re-omenting, in a position which has sime chabled the to then it to geon areomit ; in excarating mar it 1 came m...n the fomblations of an wh hones, apparently of Byzantine times, whish hate sime sorved me for the formations of a new one, and uneanthed twelve large irom tings, 3 inelhes in diancter, with iron staples 4 inches lons attached-probalily used for fastening horses, some wins of the time of Constautine, some carved comices and drafted stomes, and a great quantity of fragruents of glass, stems of vases, and rims of drinking grblets, and heaps of broken pottery, while the ne ighlumring field is abundandy strewn with theseras, giving evilence that the fremer occupies must have been a man uf neans, and that more excaration may bring further evidences of it to light. In the conser of my rides wer (armel I have oblatedel evectimn ${ }^{2}$ which 1 do not see mentionel in the Susver. The most prafeet if theor lies ahomt half-way henween Dilieh amt the Mahnakah, a litale wf the roul (1) the heft, concealed in the thick hmaliwood. It is a pile of stomes it feet sprare by 12 f fert high, the stones averaging 3 feet in length by 2 feet in Incalth and I foot in thickness. They have leen carefully cut, and laid son at zo form a peifeet square hut withont centent. I have since come upent tise on six similar creations, generally in very fomete and mifrepuented fyents and the natives can give me no tradition in regard to them. ${ }^{3}$

At Khumber Koramis, near Unum es Zeinat (Sheet \& K j) 1 found 1 wo
 they were much filled with mblhish, alson fomdatimes, ame drafted stomes. standing in chase proximity to cach of her were what at first appeared to low the hase of fume giganti." collums, as they stomel 4 feet hight from the ground and were almun 6 feet in diameter: from the square hole in the centre of each they appear to have been the lower halves of mills.

A mile and a half, a litule to the ceast of somth, of Datieh er liulah , Hheet
 tomble, cistorns, millstones, ami the ustal fommationsamil heapis of stome.

At linshmia, which is sitnated on Monent Carmel, at an elevations
 and denoribed in the Memoirs. I an engaged with a fricmed in making
${ }^{1}$ Marked on the map Bkt $=$ Birket.

- Probably whd watch tomers (vineqamel fl, which are foumed on many of the spurs of Curmel : alos, in the moocied conmetry to the sombly of 「mm al Fahur. They vary in dimensions, liut uenerally messure 12 to 15 feet square of dry cone masomry. Those in a lair state of preservation are uswally found in the
 1473. p. 31.

8 Usually malleh Lit Muntar (watel tomer).
an excavation at the well of Elias, with a view of seeing whether the spring affimels a sulficient amome of water the furnish a smplly for the cown of Haifa, in view of the change contemplated by the fovernment of moving the seat of the Mutessariflik from Arpe to thit phace. The water enters the well through an apparently natural tumel, hemt has no outet from the well itself, which thus leecomes a somt of hadkwaed, the native tratition being that the spring is much funther up, and is in fact the sontre of a small rivulet, which, after an mulergromed consed reappans in the gavlens below Haifa, and forms therea small lagoon. We timst endeavoured io strike this stream ahont 20 yamls helow the well, down the whily, but, bevond timeling some cut stomes at a considerable dephth, made no discovers. We then dug in the inmediate neighmomothof of the well, and cane unon the roof of an artificial tumel: on opening this we formet it complefely filleol with the soil, which haul siltal inte it, and at a depth of 7 feet from the surface came uren the stone flow in which a channel had heen ent for the water. As the water in the well was, howeree, now 4 inches lower than this chammel, we have had to take it up. We followed this tumel for 10 yauds: the roof was archeed and the sides hoilt of stome, hoth hewn ambl mhewn, but withom cement. Alougethee, we cleared a channel 30 yards long and 8 feet deep, into which we let the water; but the operation of folluwing op the channel, hy which it rearhes the well, and in which it somewhere loses a giond deal of its molume, is not yet sutficiently completed to enable us to decide whether it will be worth conveying to Haifa, a distance of over three miles.

## Latirence Oifiphant.

## BETH HABBECHEREA, OR THE CHOSWN HOUSE. CHAPTER I.

1. It was an affirmative command ${ }^{1}$ to make a house for the Lord suitable for offering in it the offorings, and celehating the feasts thereat, three times in a year, as is said, "and let them make me a Sanctuary " (Exom. asv, 8). The Tahernade made by Moses our master has ahrealy been described in the Book of the Law. It was temporary as is said "for ye are not as yet come," \&c. (Dent. xii, 9).
2. After the children of lsoul entered the promisel land, they placed the tabernacle at cilgal for fourteen sears, white they suludued and divided the lionl. And thenee they vane ion Shitoh and buite there a homos. of stomes, ant spreal the emtains of the Tabernacle over it, and it was mot poofeal there. The Tatemache of Shiloh stom acs years, and after the dewh of Eli it was destroyed, and they canne to Nols, and there huilt a Sanctuary. After the death of Sramel this was dontrosed, amb they came

 hibentia.
3. "Three commands wero given to Isracl on their entrance into the land: to set up a king over them ; to cut off the seed of Amulek; and to build the chosen house." -Sunhederim $20 b$.
 eternal honse, and the days of Nob and Gibeon were 57 years.

二. After the Sanemary was lenilt at Jeqnealem, all the mber plaems were unlawfol fiom lomithige in then a houss. for the Lowd and offering in them ofterings (Dent, sii, 11, 14). And mother was ealled a honse for hill Generations, exegit that at Jerneatem only and om Mome Mowiah, ${ }^{5}$ of whide it is sail, "then Tasid sail, this is the hrmse of the Lowd fion, and this is the aliar of the lournt offeringe of lsrael" (1 Chron. asii, 1), and he said "this is my rest for ever:" (Psalm cxxxii, 14.)
4. The huilding which Sotumen boilt has berm afreaty foseriheed in the fond of Kings, and the lavilding to be lnilt in the future shthongh it is writton in Ezekiel, is not fully luseribed amb explainem. The men of the mownd homse fwhich thes luilk in the days of Toras built it like the Intiding of Solomon, and after the appearance of the thinge explaineal in Ezekiel.
5. And these ane the thines which were fumdamental in the intilingeif the honse? They made in it a holy phom, and a holy of hollies, and theme was in from of the hosly pluer a certain place which was called the prowt and these theee were called byen, hekhal, the Temples And they made
${ }^{3}$ Zevachim xiv, 4. "Before the Tabernacle was erected the high plaen
 of fimmilias. Aftee the erection of the Talernate fore hich phaces wove
 hally offerines were eaten within the hanginge, the hess howly in all the canp of
 mont holy offeringes muse eaten within the hangings. the less holy in any plawe. 6. When thoy came to shiluh high phaces were firthidthen. There was no mul
 this was the 'reet.' (Deut. xii, 9.) The mast holy afferings were eaten within the hanginges and the less holy and the serend tithes in ang plaee from whith Sheluh could the sem. 7. When thes came to Noh and (ribeon, they permitted the high places: the moot holl altrings were eaten within the hanqings, mad the less holy in all the cinies of ismen. S. Amid when they came to Jepusalent, ligh phats were forthinden, and wore newer afterwards permittech, and this pas
 the hanginge (ie., the wall of the court), and the less hafly and the creomed tither
 "The Ralitis tem.th that the dhes of the Tabarmacle of the eomgragation in the wihluphess wove forty scars, las ann: the days of the Tabermacte of the con-
 they were disidugg, the tand, the days of the Tahernacle of the congregation af
 years less one."

* Or "in some things like."
${ }^{5}$ Cf. Middoth ii, 5 ; iii, 1 ; ir, 2.
 were to he widhed that the precision of momentature here simed at lis our. anthor had always been obecred. But this is far from being the emse. The
amother onter beombary sumpombing the temple distant from it like the
 all that was surpomblad hy this lmumdary, which compeopmolent the the (a) int of the Tabernacte of the congregation was what was calleal the conte and the whole was called the Sinctuary. ${ }^{\circ}$
(\%. And they made vessels ${ }^{10}$ for the Sanctuary, an altar for burnt strpitios and other offerings, and a shoping ascomt ly which they went up (1) the altar, and its plate was in fromt of the porth, a lithe to the somblh ;
 pricals for the service, amb its, place was hatween the pumely and the altar, a little to the south, so that it was on the left of a person entering the sian laaly : alsu they made an altar for incomo and a camlleatiok and a table, which three were insite the haly phime, in fromb of the lowly of holies.

7. The candlestick stood on the south, to the left of a person entering, and the tahle on which was the shenthead th the right, amilhoth of them on the outer side of the Holy of Holies, and the altar of incense stood between them both a little to the ontaide. Am Ahe they male within' ${ }^{16}$ the enint bomblatios matking the limits of lasael and of the l'riests and they built there homes for the other requirements of the satmothry, amb each of these houses was called a chamber. ${ }^{56}$
8. When they built the Temple and the court, they built of large stomes, ami if they did mot fimistmes. they buil uf Imichs. ${ }^{15}$ A mil they
 Areillah 2f a), and Mainmides himorlf has elsewhere distinguished hatween the לכיה and the Moly of Holies (infra, vii, 22).

- Exorlus xxxviii, 9.

8 " "עy" like the appearance of."
${ }^{9}$ Cf. Mitdoth ii, 3 ; ix, $v$, for the contents of thi paragraph. The con-
 inference from such passnges as Middoth i, 1.
${ }_{10}$ Pots, pans, shovels, tongs, instruments of music, \&c. The word Kelim, aלb has a very wide signification. Cf. Exodus xxvii, 19.
${ }^{11}$ Literally "drawn to the South."
12 To wash.
13 Literally "the altar of incense drawn from between them both townrds the ontside." In Xoma, $33 b$, it is said "we are tanght that the table was on the
 cubits and $a$ half from the wall. The altar was between and stood in the middle drawn towards the outside," i.e., towards the poreh.
is Literally " in the midst or inside."
${ }^{15}$ Middoth ii, 6.
${ }_{16}$ Mawh liskah. Middoth i, 1, 5, 6; r, 4, and in very many other places in the Tralmud.
${ }_{17}$ The opininn that bricks were employed in the construction of the Temple
 mann's edition, Vienm 1870), where, commenting on Exodus $\mathbf{x x}$, $2 \overline{5}$, it is argued "thou wilt make me an altar of stone" is a permission, not a cluty; and what but this does it tomen? that if it is de-ired to make an altar of stone, let it
did mot ont the stomes of the haiding in the momatain of the homw, hes they cot and fitted them ontside, and afterwards beonght them in for the Imiditing, as it is said" great stones, chatly stones, amel hewed stomes. b las the fomblation of the honse" 1 Kings $\mathrm{r}, 17$ ) and, "neither hanmer nor axe, nor any tool of iron was heard in the house while it was in building "1s ( 1 Kings, vi, 7).
be made of stone; if of bricks, let it be made of bricks. And if this power of election was permitted in the case of the altar (which was peculiarly sactrat).
 vessel) in the Snnctuary. Yet it is to be observed that the opinion hees
 not regarded as nuthoritative. (Vide iufra, i, 13.)
${ }^{18}$ Mechilta, p. 74. The rabbinical writers appear always to assume that In the bralding of the seeond temple, ass in the building of the first, the stomes were not cut and dressel on the epot. The great pillar ! fing wit hin the Rum-ina compound at Jernsalem, which not improbably was intended for Heroii. cloisters, has its upper surface partially dressed, and the discovery of a liaw apprears to have cansed it to he abmatomed before completion. Anmither piilar of about the same size, smosthen on as muth of the surface as could the reachect
 201 ? aris somblh-west from the same spot, and it hence apprars probable that the great stones of the later temple were dressed in the quarry. The pillar of smaller size whish may he seen still joineal to the ruek on the morth of the what road to Liftn, although cut into shape, has not been smoothed.

In Sotah, $48 b$, is the following passage bearing upon this subject: "After the Holy House was deatroyed the worm Shamir ceacel." dic. (Mi-hna is, 121. The Rablisis tea.h that it was ly meane of the Shamir that Solomon buile the Holy Honse, as is said, "and the house when it was in building was built of
 (1 kinge vi, $\boldsymbol{i}$ ). The words are to be interpreted literally. The words of Ralhit Juduh Rabbi Nehemiale ssid to him. Is it possible to say so, when it has
 vii, 9), and if so, how are we taught to suy that there "was not heard in the house the sound of hammer, \&e., while it whs in building?" (1 Kings vi, 7). Beranse they prepured the stones outside, and hoonght them in. (ig. Mechita, ch. מזבח אדמה.)

Rab suid, "the words of R. Judah nppear to refer to the stones of t 'w Samemary, and the worls of R. Nehemiali to the stomes of his (Solomomit? house. And in reference to the opinion expressed by R. Nehemiah, for what
 thuee stomes (che stomes of the breast.phat ), were met writen with ink, beemuse it is suil "the hie engratinge of a signet" (Exodus assix, 14). Amd they diil nef engrave them with a chisel, because it is said "in their fulness" (inclosings A. 1.) (Exminesssis, 1:3), hat they wote uyno them with ink amil showed the Wrom to them from the ontwide, and they beeme opened by themselves just as a
 plain which beronurs ehanmeleel in the days of the great rains without luss. The Redhat trach that the shamir was a wreature like a laples comp, and was created in the sis days of the Creation, and there was no hard thing that coould stand lefore it. Hiow did they preserve it? They mrapped it in a maso (literally
9. And they did not build in it any projection of woml, hut eitleer of stones, of of lwicks and lime; and in all the convt they made nis pmothes (exhedre) of wood, but either of stones or of bricks. ${ }^{10}$
10. And they paved the whole conrt with condly stones, and if a stone was dislondged, notwithstanding that it remained in its plame, it was profane so long as it moved, and it was molawful for the ofliciating priest to stand upm it at the time of the service mentil it was fiseel in the earth1. ${ }^{20}$
11. And it was a command to strengthen in the best manner powsible
sponge) of wool, atel put it into a leaden casket filled with barley han." This wom is said by R. David to have been brought by an eagle from I'aradise (Buxtorf. Lex. Talm. ריש:

16 This is fomeded upon Dent. xvi, 21, which by the Tabmulists is leld to prohibit the placing any wooden (rection mear the alfar (Iamid 2s h). Two difficulties arise out of this passare, namely, 1 , that the ere was in the somb side of the court a chamber of wood (Midd. v, 4), and 2, that there was, acometing to Midioth, our author, and other writers, a wooden baleony survonuding the inside of the court of the women. The first is met hy supposing that the rhamber in the court was not constructed of wood, but was for the stosing of (picked) wood (Midd. ii, 5) for the altar; and in referemee to the scembl, it is sugrested, 1 , that the expression "near unto the altar of the lomd" was applicuble only to that portion of the temple which whs intile of the gate Nicanor, and 2, that the bateonies for the women were only temperary, being put up for the rejoicings at the Feest of Tabernates whel took place in the beth hashshaacal which was in the court of the wemen. (Surath v. 1; Piske Tustiph. ad Midu.) The beams of eedar wood which passed hatirean the froht of the femple and the poreh, and the cedar roofs of the lithe pillars by the -lamghtering place, were not considered to be projections. For the whatsed in the connt, tee Tamid $i, 3$, where it is related that the mbents and their owerace, when they prosed out of Mokent into the court earty in the morninge, divident into two compranes, the one groing ly the eathedra fowards the cast, and the of heos going by the arhalra towards the weat." The Gamara explains that these crhelice were of masonry. Once in seven years, on the first day of the Fomst of Tahemacles, a pulpit of whod was erected in the cout of the women, from which the hing read portions of the law (Sotal rii, 8).

80 Zevarhim ii, 1,24 a. A priest (whikt, receiving the hloot) might mot sit, nor stam? upon any vessel, or upron a beast, of upon the foot of a follow-jnicot. If he chase to stand upon one leg whilst performing his service he was at liberty to do so, hut not when he had no serviee to perform. In commedion with the stomes of the grarement the student of the Misluas will remember the story in shelalinu vi, 2: "It happenel that as a priest was engaged in his duties he noticed that whe poirl of the parenuent was changed in apyearance foom the rest. Ite came und told his companious, but before he could finish the aecount he died, and the? howe that there the ark was cortainly hidden." This priest had a hlomish, and was employed in pieking wood for the altar (Mida. ii, 5), amb it. was in comserguence of this tralition that the familios of Gamaliel and Hanamiat were necu-tomed to make obeisance towards the chamber of wood in the count uf the women.
the haildinge, and to raie it ass high at the means of the onnglention permitted, as is said (Ezra, ix, 9) "to set up the house of our. Ciml." Amt they adorual and beautifiod it accorling to the ir power, and if thes: were able tworelay it with goldar and to magnify the work of it, !o, hast was a good deed ! 22
12. They did not build the Sanctuary by night, as is said (Numi. ix, 15), "on the day that the tabernacle was reared up," by day they reared it up, not hy night.m Amithey were empluyed in milding fowes the rising of the moming mit the stars came cout." And all were whliwed to assist in the building, hoth hy deeir own individual esertions and hes the is means, men and women, as in the Snnetnary in the wildernex.s. Thes did net internit the instration of chithren in the sechowls for the hailding? nor did the building of the Sanctuary ammul a feast day.
13. They made the altar of stomem masonry only, aml that which is said in the Law, "an altar of earth thou shath make nnto me" (Exml. as. 21), imemes that it shoult be juined to the earth, that thee shombld mot huilt it either upom arelles, or over carities, ${ }^{5}$ and that which is said, "if thate will mither me an attar if stone" (Exul. sx, 2.5), trauliton teaches that this is not a permission but an obligation. ${ }^{20}$
as Solomon overlaid the whele house, the altar, the doms, the cherubime, and the floor of the house with gold. (1 Kings vi, 22, 28, 30, 32.)
= Dis. Litemally "a commundment," a good deed preseriben by the 7 tas.
${ }^{23}$ Sheruoth 156.
4 Nehemiah ir, 21.
${ }^{25}$ Exodus xxxy, 22, 25 ; xxxvi, 8.
ws shabtath 119 b . "They did not internit the instruction of chithren it the schools, even for the building of the Sanctunry."
 ance than kerping a fount-day was imfermitted until the feast-day was orev.

27 Some copies wrongly read here אבנים גזית, hewn stones.
\% Mechilta 73 a. Rathi Iflnmed said, "an altar of carth thon -luath make unto me-an ahtar joined to the earth theu slalt make unto me, fhou shath hat build it upon arches or upmen pillars." The compitera of the (iamman adopted this opinion (Zeverhim 58 a, and $61 h$ ), and Mamoniles has followed the Gamara.

5 Mechila ish. "Tahbi Ishmel mide overy 'if' in the Law is a permission. not an obligation, except three :-

1. Leviticus ii, 14. "And if thou offer an offering of thy first-fruits," this is an chligation. "If thon sayed is if whbligation or only a permisacion !" we are tenght to syy "thou shate wher for the meat-offering of the first-fipuits" (Exail. ii, 14. ), which is an obligation, not a permission.
2. Exodus xxii, 25. "If thou lend money to any of my people," \&c., this is an obligation, and if then soye- " is it molligation or only a promiestion?" wo are taught to sny "thou shalt surely lend him" (Deut. xr, 8), whiels is an obligation, not a permission.
3. Exodus xx, 25. "If thou wilt make me an altar of stone;" this is an obliyan ion, and if them sayed "is it an obligation or conly a permiesion?" we are tanelh to say "fhou sliall huild of whete stones" (Denfor asvii, 6), which is_an obligation, not a permission. ( $C f$. note 1, page 29.)
4. Every stome which had a flaw in it suflioment for armest the finger mail, like the knife fow slanghtoring, In, that was unlawful for the sloping ascent and for the altar, ${ }^{31}$ its is said "thou shath build the altar of the Lord thy God of whole stones" (Deut. xxvii, 6). And whence did thes bring the stomes of the altar? From viggin earth, whey dhg wht they vame to a place in which it was evident there had hern no work or builitime, and they bronght ont the stumes from it, or from the great sea, ${ }^{3}$ amd lailt with them. And the stomes of the teraple, and of the courts were also perfect stones. ${ }^{34}$
[^0]32 "Tho virginity of the earth," עקาקה תלותב iP, Middoth iii, 4.
Tu the Tonefoth to Cholin ( 18 a) it is empuired how thy huilt the altare of smooth stones since they wero not permitted to uso an iron instrument for smoothing them, and the shamir could not mako them so smooth that the finger-nail would not be arrested in passing over them, and says that the
 whith was no flaw, like the stomes of a torpent, 乌ag. The hution that stomes wepe brought trom" "the great sca" aprenars for depend upon the interpretation
 moist. "Bohu, $17 \beth$ (1.V., void, Genesis $i, 2$ ), means those recent stones which: weresmok in the abyst, ant from which the wators flowel" (Chagignh 12 a) ; and the \&hoss says, תlobla:2 (the word in quastion), has the meaning of muist ore recont, mis.
 - Mones," that the stomes of the temple and contres were mot hewn, lut that they
 above, and Mechilta 74.)
"Ile that dit not see the Sanduary, with it s buldings, never saw heatifut builting. Whirh building was it? That said, aml some say that I2. Khaslai sicirt that was the buthling of Herod. Of what did lee build it? Rabba said

 lipe recelleal in order that it mi_ht recuise the lime (plastop). He dhomelat to overlay it with guhl, but the Rahhis sail to him lut it be, it is very beantiful su, for its aphearance is like the wases of the sea" (Sucoulh 51 h; babia bathra 1 a).

15. Stomes of the templo and comts which heatame boken on ent were unlawful, and they conk not bereteened, hut wherelat byand presprred. . Every stone which iron hat touched, eren thouch it was not cut, heame unlawful for the bulding of the altar, amd the buldinge of the slopin: asemt, as is satid "fow if thom lift up thy toml upon it. thom hast prollutent it" (Exoul. xx, 2.5), and whocreve should buidal a stone which iron hat tourhed into the altar was beaten, as is said "thon shalt mot himith it of hewn stone" (Exol. xx, -25) ; and whoerer boilt in a stome with a flaw transgressed an affirmative command. ${ }^{37}$
16. A stone which becante broken of tourhed by iron after Teing Thilt into the altar of the sloping ascent was unlawful, and the rest were lantul. They whitened the altar fwion a year at Passover, aud at the Eant of Thabernacles. And when they whitened it, they whitened it with a chenth, and wot with an iron trowel, lest it should tonch a stone and luffes.
17. They did not make stairs to the altar, as is said " weither shalt thon go up hysteps imto mine altar " (Exoul. xx, 26), hmt they buitt a kimt of monm on the sonth of the altar diminishing and desembling form the top of the altar to the gromod, ant this is what was called hibushe and whonever asembled by steps to the altar was heatern. Ant whomers shond pull down astrome from the altar of from any bert of the temple, on from het ween the poreh and the altar with the view of injuring it was heaten. as is sail "Yeshall overthow their altars," (ve., and "ye shall mot do so unto the Lord your God "so (Deut. xii, 3, 4).

 lip projected," one row of stanes went in and one went out. "Thive the wates of the sea," beranee the stones differed in appearanee one from another, and the ese in contemplating them movel to and fro, and they aprearel like those wase of the sen which are moved and agitated."
s That is, they conld not the sold or nsed for any other purpuse (Toseffa Megillah, ch. 2).
${ }^{36}$ Middoth iii, 4.
 of whole stones."

S Milddoth iii, 4. It happened cmee at the Tomst of Tabermacles that the offerating priest pourel the wat... upon his lese and the people preltel him with their lemons ("and with stomes," glass) and amked a llaw in the lomm of the

${ }^{30}$ Middoth iii, 4; Zevachim 62 b . "The Kebesh was on the soutl of the altar."
 that to take away astone from the Temule, of from the altar. of from the conpta is a tranogresion of a megative commandment? The doetrine is fo sat "re shall overthow their altars," and "re shall mot do so unto the Lome sour (inai" (Dent. sii, 3, 4). Why Maimonites has here mentionel the spaid hetwem L.e pooch and the altar instend of the compts, deves mot appeat. In the comes-
 from the Temple, or from the rest of the court."
18. The candlestick amel its ressels, the table of showhemetand its ressels, and the altar of incense and all the vessels of seevice, they made of metal onls. Ami if they were mate of woml, or bone, or stone, or of glass, they were unlawful. ${ }^{13}$
 and if they became rich, they mate them of gold, even the basins, and the flesh hooks, and the shorels of the altar of burnt-ofiering. And if the eonmumity hat the power, they mate the measures of gold. Even the gates of the court they covered with gold if they were able. ${ }^{12}$.
20. All the ressels of then sanctumely were made exprealy for sacred use, and such as were mate for ordinary purposes could not be used for sacreal pupposes. Sacred reasels which hat not yet bech usal for sacted puposes might be used for ondinaty purposes, bot after they had been used for sacted purposes, it was mulaw ful to use them for ordinary purposes. Stones and beams cont for a s! naggogue could not be employed for a buiding in the mountain of the house. ${ }^{13}$

## CHAPTER II.

1. The frisition of the altar was determined with great care, ${ }^{1}$ mon did they ever change it from its plane, as is sald, "this is the altar of the bumt offering for Istael" (1 Chron. xxii, 1). And in the smennary Lsaak our frither was hound, as is sail, "aud get thee into the land of Moriah" (Gen. s.sii, 2), amt it is said in the Chroniches (2 iii, 1), "then Solomon hegan to buila the homse of the Loml at Jerusalem in Mount Moriah, where the Lord appeared unto David his father, in the place that David had prepared in the threshing floor of Ornan the Jebusite."
2. And it is a comstant madition ${ }^{2}$ that the place in which David and Solomom built the altar in the threshing-flom of Aramah is the place in which thralnun huilt the altar and boumd upon it Isatac. And it is the place in which Noah built when he went ont of the ark, and
${ }^{41}$ The question of what material it was lawful to make the cancllestiek is discussed in Menachoth $25 \%$. The prevailing opinion of the Rablis was that if made of wood, or of bone, or of glass, it was unlawful.
of ". Becanse they saw the desh-hooks were of iron they covered them with tin ; when they became rich they mate them of silver; and when they again become rich they made them of gold" (Menachoth 25 b; Avoiah Zarah 43 a; Rosh Habhsimnah 21 万). "Monbaz (Momblasus) the hine made all the handles of the fesmels of the Day of Atonement of gohe, and Helena, his mother, made the andlestick of gold which was at the dioor of the temple" (Yoma iii, 10). That the gates of the colurt were covered with gold is rolated in Middoth ii, 3.

43 The athorit? for this paragraph is Tusefta Megillah ee, 2. But in the Tosefta there is no mention of stones, de, prepravel for an spmagugue; the prasage runs, "stones and beams cut for an ordinary building," \&c.

1 "Three prophets came up with them from the captivity . . . one testified to them respecting the place of the altar" (Zevachim 62 a).
2. A tradition by the hand of all.
it is the altar upon which Cain and Alnel offered, and theme [o: ] the firs Adan offered an offering after he was creatod, and from there low was createl. The wise men have sail that Adhum was ereated from the phace of his redemption. ${ }^{4}$
3. The measures of the altar were carefully studied and its form was known traditionally. And the altar which the sons of the captivity lnitt they made like the appearance of the altar which is to her huilt in the future, and nothing is to be added to its measure now diminishel from it! ${ }^{5}$
4. And three prophets came up with them from the captivity : mpe testified to them respecting the place of the altar, one testitien to thrm respecting its measures, and one teatifiel to them that thees slomblat ofier upon that altar all the offerings, even though there was in, linnow there. ${ }^{6}$
5. The altar which Moses makle, and that which Solomom made, and that which the children of the captivity made, and thent which is tw tre made in the future all are ten culits high, each one of them, and that which is written in the Law, "and the height therenf stuall bow three
: Pirke R. Elimer, ch. 31 ; Yalkut Simeon, rhs sing, 101. The lather does not mention Adam but only Cain, $A$ bel, and Noah.

4 "And the Lord Goul formed man of the dust of the ground " (femesis ii, 7). "Rabbi Judah ben Jazy said the Holy One, bleseed be He, took one spomfui, "מחד (Jerus. Nazir 56 $a, 2(19 a)$ ). 71\%רת has heen used as synon!mous with ith. the famous incormptible bone from which the hody is to be relabilitated at the Resurrection (Buxtorf Lex. Talm. 2646).

> "The learned Rabbins of the Jews
> Write there's a bone, which they call ienz,
> I' th' rump of man, of such a virtue, No force in nature can do hurt to; And therefore at the last great day, All th' other members shall, they say, Spring out of this, as from a seed All sorts of vegetals proceed; Trom whence the learned sons of art Os sacrum justly stile that part."-IVudibras, iii, 2 .
${ }^{5}$ Cf. Menachoth 97 and 98.
${ }^{6}$ Zevarhim 62a. "Three prophets came up with them from the eaptivity ; one who teatifed to them respecting the altar, and one who testified to them respecting the plate of the altar, and one who te-tified to them that they should offer offerings oven though thero was no houso . . . Rabbi Eliezer bea Faceh said three prophets emme with them from the (apptivity, one who testified to them respecting the altar and the place of the altar, and one who teatified to them that they should offor affirings, even thomigh there was mo house, and one who teatifed to them reapecting the law, that it should be written in the Assyrim charactor [i.e. spluare Hebrew]." These prophets were Haggai, Zechariah, and Malachi (Rashi).

Imhits" (Lixol. xxvii, 1), reios to the plate of the pile [time] only: Ame the altar whith the children of the eaptivity mande, ame alon that Which is to he built in the future, the measme of its lemgth and of its breadth is two and thirty cubits by two and thirty cubits. ${ }^{8}$
6. Of the ten cubits in the height of the altar some were of five hamdluealthis and some of six hamblatadths, and all the rest of the rolits of the miding were of six hamllmeadths, and the height of the whole altar was fifty-eight handlureadths. ${ }^{9}$
7. And thus was its measure and its form. It rose five handheadths aml receated tive; this was the fommlation. The health was now thirty
" Zevachim 59 $b^{2}$. The doctrine is that the words "and three cubits the height thereof" |lixnd. xxxviii, 1], are to be tahen literally. "The worts of Rabbi Judah. Rabibi Juse satil " it is said bere 'Toursquare,' and if is said there 'foursquare' [Exol. xxxii, 25 , in reference to the altar of incense], as there its height was twiee its lengith, so leeve twice its length." Rahhi Judah sail to him, ". and is it not said' and the court an hundred culits' [Exod. xxrii, 18; sxrriii, 9]. and 'the height five cuhts,' \&'. [Exexl. xxavii, 15]. Possibly the priest stanting uren the top of the altar performing his scrvice all the peoplec could sce him from without." Rabbi Jose said to him, "and is it not said 'and the hangings of the cont, and the eurtain of the door of the court, whith is lye the
 [ Fand sxvi, 1t; $j$, so alsu the altar was ten mbits, and it is said the hamgings of one site fifteen couhts' (Exml. xxvii, 14), and what is the meaning of what we are taught to say 'fire cubits?' from the border of the altar upward; and what is the menning of what we are tanght fo say 'amd three culits its height?' from the border of the cirouit בコロ Mpwarl." Kashi adts this comment. "from the border of the altar upwart: upwand from the altar the height was live cubits. From the herter of the circuit upward : to the place of the horns there cuhts? and downward from it six colhits, and the height of the horn at cubit." which make up, the ten. Fon the height of Solomon's "altar of bra-s " ree 2 Chronigles iv, 1 ; for that of the altar to be built in the future, Ezekiel xliii, 14, 15.
s Middoth iii, 1. In Eachiel xliii, 16, it is said "and the altar sall he twelve cuhts lons. (welve brome, square in the four squares thereof," and the Talmulists in reference to this pasage say "it might be that it was omly twelve by twelve, hut when he sail 'in the four squares thereof' it is understend that from the middle he measured twelve rahits to each side." (Menachoth $97 b$; Zawnehim 59) h : ©f. Lightfoot 1131). This measumement refers to the upper patt of the altar hexํ, Aribl, and if corred, the lower prat, or foundation, would of comse be of the dimensions given in the text, namely thirty-two cuthis ly thinty-two.

* Menamboth 97 a. "It is taught there (kelim srii, ! ), that Rahbi Meyer sail all the cubits of the Sametnary were medium cubits, exeept thooe of the golden altare atal the hom, and the ciremit, and the foundation. Rabhi Julah satil the cuhit of the huilding was sis hamdreadhes, amd that of the reasts fise." Rashi explains that the hom, cirenit, and foundation are thowe of the altar of bumt-offering, and that the urediuu culnt was of six hamdbrealths. The question of the number of handloreadth in the rariou- parts of the altar is then disensed at lewgh. "The altar, how many handriondths had it? Fift!-eight" (ihid. $98 a$ ). The handbrendth was four fingerbreadths.
cubits and two handbreadths by thirte cubits and two handhrealths. It rose thinty hamdloredths and receded five handhreadthe, this was the circuit. It ruse eightern handloreadhas, this was the place of the pile. Its brealth was now twenty-eight culbits and four handbreadths ly twentyeight enbits and four handloreadths. ${ }^{10}$ It rose eighteen hathloreadthe, and there roceded at the corner of the cighteen" humellicoulths: a square halluw structure at cach of the four comers, ${ }^{12}$ and the place of the homs was a culit on this side and a cubit on that side all round, and also the phoe of the feet of the priests a cubit all round, so that the brealth of the place of the pile acsitwenty-four culits and four handlureadths by twentyfour cubits and four handbreadths.

8. The height of each hom was five handhreadths, and the square of each hom a cubit by a cubit, and the four horns were hollow within, ${ }^{18}$ and the height of the place of the pile was eighteen handtremethe, sio that half the height of the altar from the ent of of circuit downward: was twenty-nine handbreadths. ${ }^{15}$
9. A red line enciroled the middle of the altar (six handmeadths below the end of the circuit) to divile letween the upper and the lawer. bloods, ${ }^{10}$ and its height from the earth to the place of the jile was nine cubits less a handbreadth. ${ }^{17}$

101 Menachotli 97 b: of. Mida. iii, 1. The difference between the measurements given in the Cumam of Menachoth and those given in Middeth arises from the difference in the leng th of the cubits. The compilems of the cianam appear to have held that the measurements of Middoth were not intended to the minutely accurate.
${ }^{11}$ From the circuit upmards to the place of the pile being three cubhits, and all the cubits of the height except those of the foundation and hom heing cublits of six handlowahith, it follows that from the cirenit to the place of the pile was eighteen handbreadths.
${ }^{12}$ Zevachim 54. 6.
${ }^{13}$ Zevachim 54 b.
4 The circait seems to have been rechored as being one culpit of five handIreadthis broad and one culit of sis handhreathis high, and henee the expression "from the end of the circuit downward."
is Menarhothas a. "The mididle of the altar", how many hemalloreallhe was it high? Twenty-nine. From the horns to the circoit, how many hamentionallhs? Twenty-three. How many less than to the midulle of the altar? Six. Hence in Zwachim 65 a, and Memechuth $17 b$ and $95 a$ it is suid that if the priest standing upon the circuit sprimbled the (lower) blood one culit below his fect it was lawful.
 was sprimeled below, and that of a sin oftering of a beast above. The bluod of a burnt offering of a bied was sprinhled above, and that of a burnt offering of a beant helow." (Kinim i, 1; of. Zerawh. ii, 1; vi, 2; and vii, 2.) In Zerachim $10 b$ and 5 as $a$, it is said "the upper hloon was put above the red line, the lower 1.houd tretow the ral line." Rablif Elenter, ton of Rabbi Simeom, held that the hood of a sin offering of a beast might be put only on the booly of the horn or corner, על גופה שִל קרו.

1: The heright of the atam from the ground to the pile was eight culbits of six
10. The foumation of the altar did not surpound its four sides like the circuit, but the fommation estended along the whole of the north and West sides, and took up on the sonth one cubit, and on the cast one cubit, and the south-eastern corner had no foundation. ${ }^{18}$
handbreadths ench, and one cubit (the lower) of five handlimendths, sot that it fell one haudbreadh short of nine medium cubits. The tenth cubit was the horn.
is "And the fondation extended all along on the north and all alung on the west, sides of the cullar, and twok up on the south one cubit and on the east one cubit" (Mild. iii, 1). "And there was no foundation to the somuth-eastern corner. What was the reasou? Rabbi Eleazer said because it was mot in the portion of the ravence [i.e., Benjamin: "Benjamin slall ravin as a wolf," Gen. xlix, 27], as said Rab, Sunuel son of Rab Isaak, the altar took up of the portion of Judaha a culbit. Rablii Ievi son of Khema said, Rabbi Khama son of Rabbi Khaninah suid, a strip [yy a strap] went out from the portion of Judah and entered the portion of Benjamin, and Benjamin the righteous was grieved thereat, every day desiring to tahe it, as is sail "he fretted thereat every day" (Dent. xxxiii, 12 ; A.T. "the Lord shall cover him all the day long") wherefore Benjamin the righteous was judged worthy to hecome the dwellingplace of the Iloly One, blessed be He, as is said "and he shall dwell between his shoulders" (Deut. xxxiii, 12). (Zernch. 53 h, 118 l; Foma 12 a; Meqillah 26 a.) "What was in the portion of Judah? The mountain of the house, the chambers, and the courts. What was in the portion of Benjamin? The porch, the Temple, and the Holy of Holies, and a strip, went out," de. (Yoma and Megillah, loe. cil.) Rashi explains (Zavarh. 53 b) that the eatern part of the mometain of the house, including the chtrance, is here meant, that the chambers were those in the chel, and that all the court of the women, and the twenty-two cubits of the place for the treal of the priests and of Tamed were called the connts. "Thus," he continues, "the portion of Judal was on the cant of the altar and hy its side, and the altar took up of his portion a cubit on the cant. Wilh the exeeption of the cubit of the north-eatern comer, all this side was in the portion of Judah, which cubit was distant from the comer a culit. And the strip went out at the south of the altur and entered the protion of Benjanin, for from the phace of the tread of the priests and upward was the portion of Benjamin at, the south
 (הימא, in which would have been the reveding of the foundation had there been a foundation there, as Mar said (Midd. iii, 1), 'it assemded a culbit and receded a cubit, this was the fommation.'" Sonne confusion has arisen in refirence to this curious point in consequence of the pasage in Middoth iii, 1, ומאו, lanving been translated "but on the south it wanted one culit, and on the enst une culit" (Lightfoot 1131), instead of "on the soulht it took up (ori inchuted) one culit," de. Rashi (Zeraci. 54 a) says, "at the south-entern corner it [i.a, the fomdation] extended along the castern side a cubit and no more," and again, in allusion to the propetion of the sloping aseent towaris the formataion on the south, "towards the place where the reeeding of the formadation was adapted to bee, but it was mot there." Another note of Rashi"s nay be added lere, "they made a hind of small projection Oppsite that (the south-enstern) corner to receive the bood of the burnt

11．At the south－western cormer were two apertures，like two sma！！
 them the hlowls deaponted and berame mixed at that corner in the cesspool，and went out to the Valley of Kedron．${ }^{10}$
offorines of himes，that it might not fatl upon the ground，ame this was allich
 tion．＂This side of the altar is mentioned in Menathoth as b and Zavathian fis a（se the note of Bartenora on Kinim i，1）．The space hetween hom atal horn is called by the Talmudits ユココาコ，Ki\％homl．The Gemman，in Zevohim 62 a，enquires＂what was the Kirkoob［A．V．＂compass，＂Exod．xxrii， 5 ， xaxsiii，4］？Rahbi suil it was the ormamented band，7）＂ב．Ralhi Jome，son of Rabbi Judah，said it was the circuit，סココ What was the Kin Fool？ Between horn and bom，the place of the grath for the feet of the piosts a mathe， heerance the priasts were acellatomed to go between horn and hom，therefore it is said the place of the prath for the feed of the prisets a cubit（Midtuth iii，1）， and it is written＂a hrazen grate of metwork under the eompass thereof hemeat ha unto the midat of it＂（Exph．xxxviii，1）．Rab Nachuman har Ismak said there were two，one for ormament，and whe for the priests that they should mot slip off．＂The glose of Rashi esplains that，upon the top of the altare there was ＂a kind of deep chamel，THey 3 ，between the place of the pile and the eige of the altar all round and sumoturding the place of the pite，and the treadth of the chanum was two cuhits，one cubit that part which was helween the homs， ami one cuht that whith formed the path for the priests，＂amb a few lines above thi－pasage he says＂and there was a slight eminence arotud it at the edige of the altar．＂In reference to the met work of brass，the same commentator says＂the grate of the metwork of hrass whith they pht under the comprass of the altur below as far as its midde sumpombed the altar from its middle upward． It was dothed aml as it，were sumponder with a grating which was mate with many holes，Е＇בp פם ロpa，like a sieve or fishing net，and it reached upward as far as to below the compass Kirkoob＂

There were two sur－ roundings to the altar which Mowes matle，one for ormament，and one for the priests that they should mot slip off．The latho eatendel round the side，7p， from the point where it was six cubits high［i．e．，the circuit］．．．That for ornament was the＂circuit，＂בコロロ，and the＂ornamented band，＂Fy＂ユ，about which Rabbi and R．Jloe har Jehudah diaputed，and helow that cinenit they put the gratinge，and its lewalth rearlech downsard to the midelle of the altar． and it was a sign lo distinguish between the upmer and the lowse hooks，as is said in Zevachim $53 a$ ．．．．＂And one for the priests that they should not slip off；＂＂and above on the top of the altar the depresaion atwoumed it like a kind of chepresed chamel，a slight thane the edge of which might form a little 1anapret so that the priests should mot slip．＂In referemee to the statemubt that the priacts could go between hom and hom he remarks，＂the frue fath fore the feat of the priest was inside the space ledween hom and hom，between the hom and the pile．＂
${ }^{19}$ Middoth iii，2；of．Yoma r，6，and Meilah iii，3．These holes were di－tima Trom the two hasius or fummels of silser on lime esth with a pretumat nozale for the drink offerings．Theae lather agpap to hase been on the wuth－ Wetera part of the altar，since the pmient went up by the eloping aseent and
12. Below in the pavement at that corner was a place a cubit hy a enhit, and a slah of marhle with a ring fisel to it, hy which they wemt down to the canal and cleansed it. ${ }^{20}$
13. And a sloping ascont was huilt to the sonth of the altar, its leogth thity-t wo conhits hy a beahh of sixteen coblits, and it tork up upm the Eroumd thiry culhits hy the sile of the altar, and there was an extrusim
 small space sepratatel between the slophing ascont amt the altar suthecient: for the pieces of the sarritices to be frut "pon the altar by thenwinges And the leeight of the sloping twemt was nine eninits leas a sisth to opposite the pile. ${ }^{24}$
14. And iwo small inelines proceded from it by which they went to the fomblation and the circuit, and they were separatel from the altar
turned to the left to reach them. The western one was for the water, the eastern one for the wine, and the latter lad a larger hole than the other beanse the wine heing thichor than the water fouk longer to rum thomph. It is uncertain whet the they were of silver or of lime blackened to fook like sitrep. The libamina penered into these vesals ran down upon "the reof of the altar, and thence through a hole in the altar to the camals of the altar which wore hollow and very deep" (Succah iv, 9, and 48 b; cf. Bartenora in loc. ; and also Midh. iii, 2), where the hole in the altar is said to have heen fome eubits from its southern side, and the cavity beneath also to have extended thus far.
${ }^{20}$ Middoth iii, 3 ; of. Meilah iii, 3. リתיシ, slitin, seems to have been the upper and smaller canal, or receptacle, and המS, amah, a larger and lower tarity, whence issued the sewer, a culhit suture, through which the water of the court and the blood ran down to tho Kidron valley (cf. R. Shemaiah in Middoth iii, 2). It does not appenr they went intu the BIDN, or lewer cavity, fo eleanse it. This seems to hase been always sufliciently flushed by the water of the court.

21 "Thou shalt not go up by steps unto mine altar" (Exod. xx, 20): hence they said let a sloping ascent he mate to the whar (Mechilta, הIDTA MבrD). For the measurements of the sloping ascent see Midd. iii, 3; Zevach. 62 Z .

23 ( $f$. Midd. v, 2, where it is said "the shoping asem and the altar metsumed sisty-two" cuhts (umon the gronul). The aliar was thirty-two cuhts in length, and the shoping ascent therefore only thing at its hase. The remaining two mobits were those of the part which projected forwanl towards the altar over the foundation and the cirenit, and, as Rashi expmeaes it, "were swallowed up in the thirty-two cubits of the altar'" (Zovach. 54 a, 62 b).
${ }^{23}$ It was required that the pieces of the burnt offerings should be thrown upou the altar, "as the blood was gmi upou the altar" by throwing, ip'רp, so aton the dlesh hy thmwing." (Zevach. (i2) ; of. mote on the signifimtion of the womd p7: in "The speaher's Commentary," introduction to Laticas.) Homee a partition space was necemar! hetween the asmont and the altar itolf (Zevach. $6: 2$ h), armas which the priest sanding upm the ateent might throw the phees (ef. Tamid vii, 3).
ar Tile supra, 9. The sixth of a mentum cubit was a handbreadth, ant it was Wanting in the height of the pile beatuse the fommdation was wnly a cuhbt of tive handbreadths high.
by the thickness of a thread." And thete was a cavity, a culnithy a cultit,

 decomposed, and were taken out to the place of burning. ${ }^{27}$
15. And there were two tables on the west of the sloping ascent, one of manthe upon which they phaced the piecass of the sacrifices, and one of silver, upon which they placed the vessels of service. ${ }^{28}$
16. When they built the altar they built it entirely solid, like a kind of pillar, and they made no cavity whaterer in it, bit hronght perfeet stones, large and smatl, and limight lime and pitch and lead, aml moistoned it, and poured it into a large frame of the measure of the altarand hoilt and raisen it. And at the sunth-eastern comere they put a frame $[772$, rody of wood or stone, of the measure of the fomblation, into the midat of the buidinge, and likewise they put a frume into the middle of each horn until they finished the huilding, and the frames which were in the midst of the building took away sor much as thl leave the southcastern comer withou foundation, and the borns remained hollow. ${ }^{2}$
17. The four lompo of the altar, and its foundation, and its splane, were comential ;om every altar which had not horn, fommlation, sloping ascent, and square, Io, that was mulawful, hectause these four were
$\Rightarrow$ Zowach. 62 h . One of these inclines was on the cast and led to the circuit, and the oflier on the weat leading to the foundation. "A burnt offerng of hirds, how was it made? He went up hy the sloping ascent, turned to the ciraut med came to the south-eatern horn" (ib. vi, 5). Rabhi upon this print snys " Hat by which thes went to the circuit proceeded from the catern side of the moping ascent to the right . . . . and that which leal to the fomadation proweeded from the west of the stoping ascent" (ib, 62 b). The slope of these small inclines was one in three, that of the lange sloping aseent to the altar"one culit in three cubits and a half and a figgerbreadth and a third of a fingerbreadh" (ib, 6i3 ic, and the glows). The large ascent was mate with a genther clope in order that the priens carrying the hewey pieces of the sacrifices might $g_{0}$ up more casily. It was the cultom to strew it with salt in many Weather in onter to render it less slippery ( i rubin $\mathrm{x}, 14$, and 104 a).
${ }^{26}$ Middoth iii, 3.
"7 "Rablii Ishmacl son of Rehbi Johanan been Baruka said there was a houllow phace theme to the west of the sloping aserent, and it was called הבוב and there thoy threw the deffled of the sin offerings of hieds untal they beeame decompued and were carried out to the phace of hurning" (Tomedta Korbanothi).
 The dimmensions gisen were those of the opening; the size of the savity is not known, hut it is beliesed to have been large (ef. Aruch and Dartenoma, and Tosef. Yom Tor to Midd. iii, 3).

35 Shelatim vi, 4. The ressels were those ninety-three of silver and grold Which were hronght out of the chanher of rosols at the commencement of the morning semerife (cf. Tamid iii, 4, mat Batchoma on the passuge in Shekulim).
= Zevachim, $54 a, b$.
 until they were made.
essential, lint the measure of its length, and the measme of its hereatit, and the measure of its height were mit essential, and that which was not loss than a culit ly a cubit and three cubits high, mos like the measure of the place of the pile of the altar in the wilderness. ${ }^{31}$
18. An altar which had a flaw in its masomry, if the flaw in its masonry was a handhreadth, it was mulawful, if less than a hamithealth, lawful, provided that in the remainder there was no stone with aflaw in it. ${ }^{32}$

## CHAPTER ITT.

1. The form of the candlestick is explained in the Law. There were four howls, and $t$ wo knope, and two flowers in the shaft of the camillestick, as it is said Exombs xxr, 3ay "and in the candlestick four bowle, made like unto almonds with their knom and their flowers." And there was yet a third flower joined to the shaft of the cemillestirk, as it is suid (Numbers viii, 4) "unto the shaft thereof, unto the flowers therenf."
2. And it had three feed, and there were three other knopis to the slmft of the candlestick, and from them the sis luramhes imued, three on this side, and three on that side, and mpon each of these hranches were three howls, and a knop and a flower, and all were shapeed like almonds in their structure.
3. Thus all the howls were twonty-two, and the flowers nine, and the knops eleven. Ame all of these delaged the one the other, ${ }^{1}$ and if even one of the forty-two was wanting it delayed the whole. ${ }^{2}$
4. Tow what the these words refor? To the mase in which they male the candlestiek of gold; lout when it was of onher kinds of metal they did not make for it howls, knopes, and flowers. Amp the candlestick which is to come will be all of gold one talent with its lamps a and it will be all of heaten work from the mass. And of other motals they did not prearrilne the weight. ${ }^{3}$ And if it was hollow it was lawful.
5. Aml they never made it of ald materials whether it was of guld or of other kinds of metal. ${ }^{4}$
(6. The fongs and the snuff dishes and oil veserels were not included in the talent, for lo, it is said of the candlestink "pure geld" (Exml. siv, 31), and again it says, and the tongs therouf, and the suuff dishes therenf "pure
at "Rah, Khama har Gerreah sail the jria pieces of wood whieh Moses mate for the pild were a cuhit long and a cubit hroal," and this was regarded as the measure of the pile, or fire (Zevach. $62 a, b$ ).
${ }^{32}$ Cholin 18 a. "How much constitutes a flow in the altar? As mucla as will arest the finger-nail. They reprat, how much constituted a flaw in the altar? Rabli simeon ben Fochai suid a handhreadit. R. Eleame hen Tacob sail as much as an olive. There is no contradiction, the one refers to the lime, the other to the stones."
${ }^{1}$ Menachoth $28 a, b$.

- Tosefta Menachoth 6 .
${ }^{3}$ Menachoth $28 a, b$.
4 Memachoth 28 a.
 were fixed to the candlestick and were included in the talent. ${ }^{3}$

7. The sonen lomathes of the condlestids hindered the whe the oflem. and its soren lample hinderal the one the other, whethers they were of gold of of another kime of metad. And all the lamps were fiseal to it branches.?
8. All thesis lamps which were fixeed to the six hrandies which issued from the eandleatick had their faces tomards the middle lamp, which and upon the shaft of the comdlestick, and that mitale lamp, hat its frowe
 western lamp. ${ }^{8}$
9. The bowls resembleal Alexamirian cups, of which the month is liromil and the hottom nartows. Aml the knopis vare like apples of Kirjahlame" which are of little length, like an egge hroal at its two ends; and the Alowers, tike the flowers of pillans, which are dikeakind of sancer with the lips turned outwards. ${ }^{11}$
10. The height of the candleatiok was eightien handheadthes. The liggo and the flower throe handlowadhes, and iwo handremelths plain, and a hemilhealth in which were a bowl, a knop, and a flower, and two hamlLreadths plain, and a haudhroddt a knop, and two lnambles issued from it one meselh side and were extembed upwaris to mpmate the summit of the randleatiek, and a handtomadth plain, and a handureald a knop, ame two lnanches isued from it one on earh side and were extemded upwarls thepposite the smmmit of the candlestick, and a handmeadth plain, and a hamfloseadth a knop, and two bamehes isned from it whe on cach sile and were extemed upwards to oppusite the summit of the camdleation. amin iwn hambleadthis plain. There remained three hamdloreadths, ins which were three bowls, a knop, and a flower: ${ }^{12}$
11. And there was a sione in front of the cemmilestick and in it time Stope, Mron which the pried stomal and trimmed the lamps, and lie put upon i: the wosd of oil and ink tonges and the smuff dishes at the time of the trimming. ${ }^{13}$
 ineluded in the talent.
${ }^{6}$ Menachoth iii, 7.
o" It the topp of emple brambly was a lamp like a coup and there they put the oil and the wicks" (Rashi in Menach. 28 a).
${ }^{8}$ Menaduth $98 b$, and the comment of Rashi.
 Medoba and Baris.
 and the note of Rashi ; also Aruch and Buxtorf, s.v.
${ }^{11}$ Menachoth 28 b , and the comment of Rashi. The remark that the

${ }_{12}$ Menachoth 28 b.
 tone, hut dows mot mention his puting the tonge and shuff-aishes upan it.

12．The table of shewbread was twelve handbreadths long and six
 of the homee，and its hrealth to the leventh of the howse，atm so all the ＂ther＂veasels＂which were in the Samethary，their lomgth was parallel to the lemgth of the homse，and their breathe the breath of the honse， exrept the ate，the length of which was patalled to the heanth of the house．${ }^{15}$ And also the lamps of the emullestick äनe ofpposite th the hrearth of the house between the north and the south．${ }^{16}$

13．There were for the table four golden rods cleft at their tops， akainst which reatal the two piles of shewhead，iwo for atheh pile，amt


11．And it had iwerty－wight folden reets，earh one of thom like the half of a hollow seat，fouteren for the one pile and fombtern fow the other


15．And the two censers in which they put the incense upon the fable by the side of the piles ave what were called．＂the spmons thereof，＂ クロプロー．And the monkls in which they mate the shewbread are what
 thul artanged：the tirst cahe was placel upon the talle italf，amb ledween the firat and the sooul were put theee reads，athe also fretween call two eakes three reedk，hut lnetween the sixth and tifth，two reents
${ }^{14}$ Menach．xi，5．＂The table was ten handbreadths long and five broad．
Rabbi Meyer said the table was twelve handbreadlhs long and six broad．＂In the first statement the cubit is taken to be a small one of five hand－ breadths，in the second a medium cubit of six handbreadths．The decision appears to lave been according to R．Meyer＇s opinion．
${ }^{15}$ Menach．xi， 6 and $98 a$ ．
 Maimmites is of ppinion that it stmat actuss the honse，three brame hes bing fowambs the moth asd three comarels the rontly，and thi a armes with the state－ zent that whitet the lampe which were urom the hembles lowked townels the eonimal lamp，the lafter looked towards the Itoly of Itolice，and hemee was willed the western lamp（rime sppea）．Ra－hi（in Menath，gs b）says the（amellestiek ＂was always placeal moth and south，and therefore only one if its lamps lowhed towards the west，and that was the middle one，the mouth of whose wiek was fowamb the west，and the rot hat their wieks looking tomants the mitule lamp， the three on the moftiem site lonking towards the anoth，and the three on the soutlern side looking towards the north．＂Yet a passage in Trmid iii，9， which allulis to the＂eastem lampse＂gives suppom to the opmimion helit liy some of the Rabbis that the candlestick stood east and west，and that the western lamp was the buter lamp on the western side，which position，momeorer，is in accomlance with the rule that the lougth of the＂vessels＂was parallel the the length of the house．
if Menheh．xi，6，gives the number of the rexts and ree is．The Cemara（ 97 a） adds＂＇the dishes thereof，＇these were the moulds；＇the spoons thereof，＇these were the censers；＇the covers thereof，＇these were the rods；and＇the bowls Therenf，＇these wow the rects＇to correr withal，＇bectatse they covenet the breat
only, heranse there was mo other above the sixtlt. Thus there wore fmazsteen reeds to each pile. ${ }^{18}$
16. And them were two tables within the porch at the door of then honse. (the of marble upon which they plaved the shewhered when they took it in, and one of grold upon which they placel the lived when thery carried it out, beause they rose higher and higher with holy things, anad went not lower and lower. ${ }^{10}$
17. The altar of incense wasa conlit spluare, efand it stomel in the holyplane ( 2 (T)), equidistant from the north and the south sitis and drawn frome thefwen the tathe and the candlestick tuwneds the outside" (i.e., tomary the thor, athe the three were placed it the thind part of the huly places and insard, "pposite to the veil which divided between the holy place and the most holy. ${ }^{22}$
18. There were twelve spouts to the laver in order that all the prientes (nempied with the comtimual service might santify [ic, wath] themselves at the same time. And they inade a machine for it in whith there mient constantly le vater: And it was profane [not hallowed] in order thas the water that was in it might not berome unlawful ly remainieng at i nipht, hecanse the latep was one of the samed ressels and sanetition I whatron was zhumbl in it, and overything that hecane sanctified in is sacred vessel if it remained all night became unlawful. ${ }^{23}$
with them." The following are the names given to these soveral appurtenancers of the table:-

| Inebrew. | A.T. | Talmud. | Signification of Talmud word. | LTE. | Vulgate. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| קערה | dish | דספס | mould | $\tau \rho \cup \beta \lambda \iota \circ$ | ncetabulum |
| 73 | spoon | 7ry | censer aceria | $\} \theta v i \sigma \kappa \eta$ | phiala |
|  | cover | סניף | furcula | бтovólov | thumibulum |
| בונקית | bowl | קנה | reed | кvatos | cyathus |

${ }^{18}$ Menachoth 98 a, where it is said that the lower cakes were placed,
 surface of the table, the bare table (Lev. xxiv, 6).
${ }^{1 .}$ Menachoth xi, 7.
$\because$ Exodus xix, 2.
 the wall, ami the eandlatick on the sombly, frawn fon chinits and a half from the wall. The altar was between and stoorl in the middle drawn towards the cutaile," which Romhi explains to mean towar.ls the east, where was the door of the temple.

CS. Tosefta Yoma, 2.
as Foma iii, x, 37 a. "Ben Katin made tw.l最 spouts to the laver, there
 that its water might not become unlawful by remaining all night." Ben Katin was a high priest. The Gemara explains the reasons why twelve spouts were required; also that the " machine" was a wheel by means of which the laver [?] was "immersed" in the cistern (cf. Rashi). The structure und use of this famous machine are not clearly understood. That by its means the laver itself could have been immersed in a glathering of waters or spring [Maim., Biath Hammildash r, 14] and raised again by one unasioned priest Pamid i, 4) will appear impossible, if we remember how large and heavy the laver must lave been for twelve priests to was.1 at it at one time. Maimonides in his comment (in the Mi-lma havarls the sugemtion that the mathine was a reseld sumpuntine the laver, and that the water remained constantly in it, and was removed into the laver as requred. Not improbably it was a bucket attached to a rope or chain ruming over $a$ wheel by means of which the water was raised, and which was let down into the "cistern or spring" at night, its water being thus "joined wills the water of the cistern" (Rashi, Bartinora, Tosefoth Fom Tov). That it was a clumsy instrument appears from the fact that the noise it made could be heard at Jericho! [Tamid iii, 8.] The chief interest which attaches fo this curious question arises from the circumstance that all the Rabbinical commentators appear to ascume that there was a ci-twon, peot, of fombain umter The laver, a point not to be forgolten in any attempt to determine the site of the Sanctuary.

It may be mentioned here that the 'lalmud teaches that there was a canal which brought water to the Sanctuary from the fountain of Etam (Jerus. Yoma perek iii, fol. 41, a 1; Maim., Bisth Uammikdash r, 15). This water went in the second temple to the bathroom of the high priest on the Day of Atorement, which was over the water-gate [Yoma 31 a]; in the first 'Temple it supplied the
 colbits higher than the flowe of the sonde, and luenee it is inferred that the watere mitht easily be forred to the top of the gate which was only twent y colhth high, Coma, lese. rit.] Rashi thinks Etam may have heen the same as Nephitomh
 "atep of Rtam, whieh may be heat given in the womels of Rashi, "The shopes of Bahylon tetumed the waters which were poured upon them to the fonutain of Btam, which was a high place in the land of Iamel, and this tomatan homght water to the hatheom of the high priest on the Hay of Atomement, whith was situated on the wall of the court over the water-gate. As is said in the order Fur the Day of Atonement ( Soma 31 a), 'the fombtain of Etam was twenty-three cuhist higher than the thoor of the court.' And how did they return? There

 being put for gizhed, the wators returned to the land of lsael. And they returned and welled up in the fountains. And the fishes returned by way of those lathe, whith were easiep fow their ascent than the way of the Euplames itadf" (Shahtath 145 ) . The curious may follow this subject in the (ianara,
 Rabsait all the rivers in the world the lower than the three rivers (Hiddekel,


## CHAPTER IV.

1. Turne was in the Holy of Molies, on its western side. a stomn ument which the ark was placed' and in the pot of mama and Aarmis rald.
${ }^{1}$ Yomar r, 2. "After the ark was remored there was a stone there" (in the
Holy of Itolies) "from the days of the first prophets and it was collect shethath.
'foundation.' Its height from the earth was three fingerbreadths." Th.e
Gomara adds, "it is taught that from it the world was founded, which is as
much as to say from Zion the world was ereated. According to the Bareitha.
2. Eleazers suid the werld was ceremed from its middle, as is said ‥ Whea the
dhas grometh into har:heses, and the clocis cleave fast together" (Jubsisviii, 3s).
R. Jorluan sail the world was ereatell from the sides, as is said, "for he saith to
the smaw, he them on the earth; likewiee to the sumall rain, and to the great min
of hii- strongth" (Job axsvii, 6i). R. Ismak (Xiphla) said the Itoly One, hlemeri
be He, threw a stome into the sea, anal from it was the w, wid created, as it is suid
" wherengon are the foundations thereof funtenel, on who laid the corner stone
thereof?"' (Job) xxviii. (6), and the wise men said it was created from Ziom, as
it is said, "A pralm of Asaph. The Mighty Good, even the Lowd," and says
"from Zion the prefertion of beauty" (Psaim 1, 1) : from it was perfereal the
beanty of the world. The Bareitha tearhes that R. Eleazer the great said
"these are the grnerations of the hearens and of the earth when thes were
ereaterl, in the clay that the Lord God made the earth and the henvens"
(fien, ii, 4). The gencrations of the lieavens were ereated from the heavens:
the generat ons of the earth were created from the earth. And the wise men
said hoth the one and the of heer were created from Zom, as it is said "A palm
of Asaph. The in ighty (iond, emen the Lord hath spoken, and zalled the earth
from the rising of the sun unto the going down thereof," and it says "out of
Kion, the perfection of hesuly, Goil hath shined," from it was perfecteot the
beanty of the world (Soma 54b). Such were the Rablinieal opminims
reopening this famens stone, which, aeeording to Rahbi Schwarz (dhas heilige
Lamal 216 i), is idtentieal with the Sathrah or sacted reck at preent renemted hy Mahommedans under the Dome of the Rock.

In the Toldoth Jesu the Aven Hashsheteyah, "stone of foundation," is affrmeel to he the stome which the pmitriareh Jocobl) anointed with cil. Upon it was suid to be written the lefters of the the nomen letiegtremmetrow, the ineflithle name of Gool, and leat anyone should lean the letters of this name and beerme puesereel of the womirons powers which that knowledge confervel, two dugs were phowd near the Sanctuars, which, if antone had sueceeded in learming the letters, hanked so fievecty at lim as he was prasing out as to cause him inmediately to foreen them. It is said that desus having entered, leame! the lefters, wrote them upon prave ment, and placed 1 e parelment in an inci-con which he mate in his thigh, the shin closing over it on the name beeing pronomeed, and laving eorapeal the canine guardians of the place. thus beeme poosersect of the supmonatual grwers whieh he afterwards manifested (Bustorf Les. Talmud. 2511). In Wamenemil's edition of the Toldenth desn the stone is said to have heen fromad by King bavid when diguing the foundertion of the (emple (of? Mament h 11 a) "over the moth of the alyss," and that he brought it up, and phaced it

And when Solomon hoilt the homse, knowing that its emd was to the destroyed, he built in it a plate in which to hide the ark underneath in secret places, deep and tomtmons. And Josiah the king commanded them to hide the owl in the phace whidh sumbum luitr, as it is said "and he said unto the Levites that tanght all Istand, which were holly unto the loord, put the holy ark in the house which solomon the son of David, king of Isracl, did build; it shall mit lie a burken upon your shoulders; sserve now the Lond your Gont," \&e. (2 Cheme. sxser, 3). And theme were hidhlen with it the rod of Aaron, and the pot of mama, and the amminting oil, and all these were not restored in the second house. ${ }^{2}$ And also the Urim and Thmmim, which were in the serombl house, did nof respomel thy the Holy Spmit, nom did they empuire of them, as it is sail, "till therestome up a priest with Urim and with Thummim" (Ezra ii, (ia), and they maly mate them in order to complete the eight garments of the High Priest, in order.
 garments. ${ }^{3}$
in the Holy of Holius. The Targum of Jomathan represents the Sieme as being engraved on the stone of foundation with which "the Lord of the world covered the mouth of the great abyss" (Exod. xxxviii, 30). When Jonalk was in the belly of the fish he was carried under the Temple of the Lord, and saw the stone of foumdation fixed to the alysses, קבעק בההומות (Tamelhuma 53, 61 ).

There is a tradition that the prophet Jeremiah towk this stome with him th Iteland, that it was subserquently convered to Swotlani by an Trish prinee, amd eventually remored hy King Edward 111 to Weotmuster Abley, since which time all the hings and queens of England down to Vietoria have heen crowned upon it.

Nearly all modern Rablis appear to hold the onimion of R. S hawara reeprecting this stome of foumbation. It seoms arange that it should have been confounded with Zoheleth, get in the dewioh manual arba' taathoth (tidha bias) this identity is suggested.

By the first prophets, Smmul, Davil, and Sulomon are here intented (Rash: Sotah 58 ).
${ }^{2}$ In Youna $52 b$, Keritoth $5 b$, Horioth $12 a$, it is said "with the ark there were hidden the pot of mama, the ressll of amointing oil, the rod of Aaron, itatmonds and hlowoms, and the eoffer which the Philistines somt as a gift for the God of Isracl" ( $1 \mathrm{Sum} . \mathrm{vi}, 8$ ). For the place in which the ark was hidden, see 2 Chronicles xxxv, 3; Shekalim Yirushuhni, ch. vi, page 10, and Rashi on Keritoth, 5 b. All the Rabbinient writers held that there were chambers or hollow spaces under the whole Sanctuary, and it is doubtless some of these to which Maimomides here refors. The exact pusition of the hiding-place of fhe ark was supposed to be near the chamber of wood in the court of the women (Skeknlim vi, 2).
${ }^{3}$ In Yoma, $21 b$, it is said "in five things the second house differed from the first louse, viz., there was in it neither ark, nor atonement, nor cherubim of fire, nor the Shekimah, nor Holy spirit, mir Crim and Thumbim." Rashi hedr that the ark, the atonement and the cherubim were one. The opinion that there were Urim and Thummin in the second house, in orler that the number of fits
$\therefore$ In the firat homse there was a wall, a cubie thick, diviling leatwo..
 Uney doubted whether the thicknes of the wall was taken from th.. measure of the holy phate or from the beasme of the most holf, and theovfore they made the length, Pבעי, of the most holy pham, exachly twenty culits, ant the holy prume esactly forty colvits, and thes pot ant additional colsit heitwon the horly phew, and the mont hols. Amb the? did mot huild a wall in the secomi house, hat made fwo raile, one on the. side of the most holy place, and one on the side of the holy place, and lot weeen them was a cubit comesponding th the thickness of the wall which was the ee in the firso honce. But in the first Sanctnary theme was one vail, as is stide, "and the tail shall divide untu yout," ©ic. (Exulus xxvi, 33).
3. The tempte whin the children of the caprivity huilt, was a humlred (-mbite loy a he ipht of a hmudred. And thes was the measure of its height. Theg built to a height of sis culbits closed and solint, like a kind of fomma fiom to it, ${ }^{\text {a }}$ and the height of the wall of the homee forty cmbits, and the


gatanmes of the high priest might not he incomplete. but that they diad mat


 "nnmeration (in Kle Hammildash viii, 2] of the high priest's garment menties: the Urim and Thummim.
: Yoma 51 b, and the comment of Rashi ; cf. Baba Battira, 3 a.
© Jorus. Kelaim, ch. siii.
" Yoma v, 1; of. Gamara and Tosefoth 51 b.
; The whole of this section is from Middoth iv, 6.


 hipritz. Warean," $18(4)$ has this pmage, "it was the fommiation, ant was sis
 were built agm the top of the momatain upom the level groumd, amb the walls stond near the phace where the momtain begen to dioment, and thus in orfer th
 fonmetion of hewn stomes aroment ther ahove memtioned level uround sis cubts high; and innombla as that formdation wat joined [alus, clower] on the fmer Fite with the groumb, so that the insite of the poreh and tompte was mot som at
 Shemaiah, that "the threshold of the house was raised six cu'jits above the

 down from the temple to descend from the threshold." [Middoth, loc. cit ]
 reckoned to the height of the building.
 demes stillicitit, place of Tromping. Amt the thickmoss of the rafters alowe the place of dropping a enhit, and the plaster a mbite Aut an
 high, and lye its roof a enhit, the height of the ormamenten heam, aml two conbes the height of the place of droppinge and a culht the raftere :and a cuthet the phaster, and the leeight of the hattlement three colbits : amb aplate of itom like a swoml, a colht high, was almse the hattement, all
 was called the scarecrow. Thus the whole was a hundred cubits.
4. From the west to the east wos a hundred cubits, and this was their arangement : fome walls, che in from of the other, and luelween them three varant places : lectween the western wall, and the wall in fromt of it five cuhts, aml low ween the socond and hhind wall sis enh hits, aml hetween ther thite amt fonmth wall sis cuhbits ; and these were the measumements if the thickness of the wall with the ravant ghate, which was het ween iwn wall-. And the Lenght of the Holy of Holies twenty enhits, ambl between the two veile, whinh divitul hetweon it and the hinly place, a cuhtit, and the length of the hols place, fonty collits, ame the thitkotes of the eatsomt wall in which was the gate sis cubits, and the fremh desen cuhtits, atal

9 "Kioor is engraved work (2 Chron. ii, 13 ; Zach. iii, 9 ), and the engraved ornmments which architects make in lime or stone, and sometimes it is said Kiour v'taioor, i.e., engraved and painted. \#it dropping, is the dripping of water from the roof, and it was the custom to make for buildings two roofs, one above the other, and to lawe a small place between the two, and to call this
 that if the upper roof should drip, the water would remain in that space" [Main. Commant on Mithnas, Mifld, is, fi]. "Eiome, the lenwer wafter of the roof and because it was covered with gold and painted with beautiful

 stillicidii" [Bartenom on Midd., in loc.] A modern gloss on this passuge of

 above it the principal mof which is experal to the sko, ant a space hetwern the toean and that principml roof, and if at any thme the primeipal foof slmmld leat. The dropping would dexend in that spate upon the thp of the torem, ant on this account it was called domus stillicidii."

The structure of the present roof of the outer corridor of the Dome of the Rock at Jerusalem may illustrate that of the ancient Temple.
"The Mביצ: for plaster) was the lime and stomes whivh wemp plated upan the




 present dity.
the thickness of the wall of the porch five conlits, alugether a humitred cubits. ${ }^{10}$
5. From morth to sonth a humbred cuhits. The thickness of the wall of the porch fise culits, and from the wall of the ponch to the wall of the Lowly place tem culhits, aul the walls of the holy place six walls, ome in front of the other, and hetween them five vacant places. Between the nuter wall and the seeoml fise culsits, and hetween the second and thised three culits, and five between the third and founth, and between the fram h and fifth, sis, and hetween the fifth and the immer wall six, in all forty cuhits on this side, and fonty culits on the side which was orposite io it, anil the loventh of the luise within, twenty cubits. Lo, there were a hundred cubits. ${ }^{11}$
 dones to the comple by the sides of the great gate, which was in the mititle. one on the moth, and one on the sonth. By that on the sonth no man ever chtered, and in referchee to this it was explained by Ezekial (xliv, 2) "this gate shall he shut, it shall mot be aprenel." But by that on the month they entemed, and grong hetween the two walls until he reached the Hace where was the oprening inte, the holy place on his left, he went inth the interior of the temple ? ant, and procealed as far as the great gate and opened it. ${ }^{12}$
7. The broudth of the great gate was fen enhits, and its height twenty (uhbits. And it had four doms, two within and two without, the onter ones crpeneel into the doorway to cover the thickness of the wall, and the inmer ones opened intor the hninse, to cover the space behind the doors. ${ }^{13}$
8. The dworway of the prorch was forty colbits high, and twenty loond, and there were mo gates to it." Ind there were five carred oakein beams over the doorway above. The lower one extonden beyond the don way, ar culit on each sisle, and each one of the five extended liegond that below it, a cul,it on cach side, so that the urper ure mousured thirty cubits, and there was a row of stunes between every two becms. ${ }^{13}$

[^1]9．The temple לביה，was lonite lowad in front and narrow hehimd，like a lim．${ }^{16}$ And there were chambers surmunding the whole house rond about，be－ides the wall of the gallery．The lawer chamber mus fise caltits Fomed，and the rouling， 7 ，alowe it six，and the middle chamler sis，and the roofing above it seven，and the uppermost seven，as is said＂the methermust chamber＂dc．（1 Kings vi，6），and thus the three chambers surpombed the honse on its three sides．${ }^{18}$ And alsen around the walls of the porch from bethw upwards there were thus：a space，pinn．wf one culnit， and a standing phace， $\boldsymbol{7}$ 耳⿻上丨，three culits，and a space of one culit，and a standing place three cullits to the upper part．Ame the standing places，
 culbits upwards，and between each two standing places a cubit，and the upper standing place was four cubits broad．${ }^{18}$
${ }^{16}$ Middloth iv， 7.
17 Midduth iv，3，4． 1 I 17 is a floor or parement，and the word is used here because the roof of one chamber formed the flooring of the chamber above．

Is Middoth iii，fi．The following is Lightion＇s rembering of this pasage ：－－ －Round about the walls of the poreh from below upward they were thus：one cubit phan，and then a half pace of thme culnts，one cubtht phin（or an ordinary rising of stepal and then amother half pace of three enbits，and so）up，so that the half paces did go about the walls of the porch．＂

Alon by the Jeai－h commentators the prasenge in Midtuth which Mamonide： here paraphrases is taken to refer to the stepis and atanding phaces which ted up to the porch．But Maimonides understood it to refer not to the steps，but to a kind of ornament of the wall itself consisting of a projection three cubits in perpendirular measumement repeated at intervala of a enbit，the mppermost projection men－uring four cuhits．In his comments upon the Mishase（Mide． iii，G）he says＂the wall of the poreh was built according to this arrangement， which was that one cubtit in the height of the wall its whole hemght whe phan and even lhe the reat of the walls，afterwards the building or masomry projected from the wall like a hatemy，הרצ゙ロコ，three cubits high，afterwarde，at a distance of one cuhbt，it projected again，and thas is what was called rohed．7ユ17，and thus the structure of the whole was a cubit，and a robad three eubits，＂de．

If the steps of the porch are referred to there could net have heen more than thre collit－between the lowest step ant the fommation of the altar．Acoming to some opinions there was only one；and it seems hardly possible that a bullowk colld have sood and heen slamgltered by the pries in so small a fare
 company of ofliciating priests must hase stood whalat ont of their mumber sommad the mergrafich ：an instrument so large and powerful that pophle in the
 could be heard at Jericho！

The laver，moreover，was between the porch and the altar，and it must have beon rery small if the fpace hetween the altar and steps was only three coblits，
 $1801^{\prime \prime 2}$ ，it was phaced upon the stop themotses．Oljections to this latter view are， 1 ，that no mention is mate of the priests geving up，the stepls to reach the laver，and， 2 ，that the atromit of the manner in whe the prieats performing the

10．All thesen varant places，which were betwemen the walls，are what
 the Sanetnary were five on the north，fise on the somith，and three can time west．And there were threw stantes，story alneve story，so that there wome fiftum chambers on the shuth，five alove five and fise alowe Cheme ame i ales，on the menth fiftuen．Abal on the weat wore eight chambers，there abowe three and iwn ahove them，in one story．Alogenther chen mer thirty－eight chambers．${ }^{19}$

11．There were three opresings to each chomber，one to the chamber （1）the right，and owe the the chanber on the left，and（one to the chamber ahove．And at the noth－eastern comer in the chamber，which wats in the midellestory，were fise gpenings，one to the chamber on the i intr，andene to the chamber which mas aloove it，and one to the gallery，and one to the chamber in which was the little down，and one to the tomple（ĭュ゙ャ）．＂

12．Amb a gallery（or winding stainase），フマコロロ，assemted from the momth－eastomi romem to the north－western comer by which they weot up to the rowis of the chambers．Going up lig the gallery with hia fate （1）the Weat，he tuarersed the whole mentherin sicle cintil he reacheit the Woat ；havimg tear heal the west he turned his faee to the south，and patal along the whole weatern side until he readied the somith；having revtheal the soufl，he furmel his face to the cast and wemt along on the somb，till he reacheal the dour of the upper chamber，for the dowe of the upper chamber opened on the sonth． 21

13．And at the door of the uplee chamber were twor lhems of cather weund by which they went up the the rowif of the upper chamber．And pointeal phenese divisted in the upper chamber betweon the roof the luily
 Thamber ofreanges into the Holy of Holies hy which they let dows thes work mon in hoses that they might mont feast their eges mand the Hoty of fohles．And once a year，at every Pazonver，thes whifened the tempho


## （I＇o be continued．）



${ }^{19}$ Middoth iv， 3.

 and tomnteal ont the outer sule by the fiomilation．

 well as those of the northern chambers，wero open to the sky．


 Mishmas，Midd，iv，5］．


## THE "CITY OF DAVTD" ONLY A P.ART OF JERUS.IWEM.





 "Jerusalem" refer to the same area, and are interchangeable.

Tre hims.lf, lumever, supplies the answer to this assmmption, when. o!
 Ophel, and " mitsile the (ity of l)avid." It is the he saysalso (1. Wめ) that
 time of Manassith, when Ophel was instuded." Ai:, hut this can samedy be reconciled with the former statement, unless we are to understand that Solomon's palace was outside the ualls of the "capital of Syria."

The following latages from the Bihle, homerer (shme of whim I hare not yet seen cited in this controversy), prove clearly, I think, that the Scriptural "City of David" was not the whole, but only purt, of the "capital of Syria," even in Solomon's time.

From 2 Samuel vi, 12, we learn that David brought up the Ark of Corl
 also 1 Chron. xv, 29.)

Then after the Temple was built, we find from the almost identical language of 1 Kings viii, 1, and 2 Chronicles v, 6, that "Sulomon assembled the elders of Isract . . . to bring up the Ark of the Covenant of the Lord, out of the City of David which is Zion."

It is quite clear, therefore, that the T'mple was not in the "City of David."

Agrain, we learn from 1 Kings iii, 1, that Solomon lorought Pharaoh's

 of these "she came up) out of the City of David into her house that Solomon had built for her" (1 Kings ix, 24). This is corroborated by 2 Chronicles viii, 11, which gives us also the reason for her sojourn in the "house [city,
 show that the "house for Pharah's claughter" also was not in the "City of David.".

Clearly then the "City of David" was not the whote of . Terusalem.
The above passages, I venture to think, give greater force to those cited


 at Jorneakm." This is further home ont hy 2 Kinge viii, 24, whith tells ws that Joram was buried "in the City of David," while 2 Ch"onicles xxi, 20, informs us that "they buried him in the City of David, but not in the

2.5. Are we to maderatand that there were them moyal cemeteries? Th:i follows from the ahove paseages, if the sepulehres in which llat inh, sulnment and liohboman were interted, were met on Ophel, where Captain Cindel allows it to be probable that the Garden of L'zaa was sitnated, in whiol were burial the later kinga whon are not said to have heen lated torea' " in the City of Datvid."

If there were only ten myal supulches, then we have them pasalage
 13, 14), in which it is distinetly stateal of momarehs who were met huriei


How then ean them he any mom for dombt, that if the later hings wem buried on Ophel, the former were so too?

Yours truly,
H. B. S. W.
P.S.-Remarding (: R. C : s wheretion to the foree of the extract from the Tosjphta ( $\sim$ l, p. 197), may I point cut that its hearing on this suhjent is mot weakened ly the supposition that Rahhi Akihat was " constrmethe e theory memely!" sulpusing this were the case, he would surely mot have "invented" a pasage, whase lengith would have made it cleatly impumilhe of lerlinf if the (ity of I) at id he knew had been where (. R. ( $\because$. wishes th place it!

His buention in this commection, of the Lirook Kidmon, shows sufticiently that the lioyal Tomb of which the was speaking (aml conseynently the ( it s of Wal id, which emblosal it) was in duse portamit! to the Kidem, so that a passage from the fomb to the brook was neither increatible nom unlikel?

## VERIFICATION OF REFERENCES.

 Hibel written any thing that will entitle us tosay that he has heen " sulptas ing that the City of David stretehed across a deep valley?"
 prasagge to the fomm in whirh this is lescabeal as " " lume example !"

I cannot find it so spoken of by Mr. Oliphant, and it is certain?s
 for its error rightly attributed.

> H. B. S. W.

December 10th, 1884.

## QUERTES.

The Emel of the doud homirs, dee, Plutitely statoment, 1893, 12. 217.The statement here mate that "Jeremiah temos it" (i..., the valley of the Tyropmen) "the vale (Emek) uf the dead benlies and of the ashes," makes me desirons of asking whether the use there of the wond "Emek" dues not imply that the "calley of the dean londies," Se., was one of a different thometoramb. therefore, a different valley, from that of the Tymoram, respecting which another term, "gai," is used?
 " "prep" in the original neeessarilyaply to filhom? May it mot be used, as in the A. V., so as to read " the upper outlet of (iilum," inasmuch as there is, I believe, nodirect montion answhere in the Bihle of any Lomer (iibon?
 ask that your readers may the afforded sonme explanation of the reasons which hate canseal the expmession of the view that this valley was month of Jerusalem ; and is not the one wheh extends nearly to bethlehem as Josephus says it was ?

Uzziuh's burial, Quarterly Statement, 1884, p. 242.-What are the difticnlties "in reconeiling tl eacommts in Kinus and Chmoteles!" Does but the pritucipal one arise from maintaining that " the ('ity of I atrid was another name for ofowsedom gemerally?" whereas there is mo ditionty at all if we regard them ats analognos to Elemry VIIth's Chapel and Wentminster Abbey.
 whether the following is a coment translation of the Sy riac remion of 2 Clronicles xxxii, 30, and if so whether it may mot be consibloted as strongly comrohmating the view that the siloan Tummel was mate by Hezekiah? I am informed that the Syriac in this verse reads :-
"And Hezokiah hid the spring (or outgoing) of the waters of the ujper fommtain and sent them intw the westron tenk of the (its of David."

The Loucer Gikon, Quarterly Statement, 1884, p. 249.-How can the Gihon mentioned in 2 thrmiules xxxiii, 14, he the Pool of siluam, when the Gihon is distintety said to hee "Gihom in the Nathal!" I have always monderstool previmely that this passage was the primejpal proof that the Viggin's Fountrin was to lee identitied with Gifhm, as there is now wher kering in the Killou than the Virgin's Fonmtain; and no withe Jechul in the environs of Jerusalem than that of the Kidron.

Ein liogel emol cilion.-May it be an allowable explanation fon the reon-
 that " Githon" of Hezekiah is the liryinis Fommtnin, While the " (iihon" of sulmon's anointing is equivalent to the "En Runcl" of Joshat, aml is the same as the I'mul of silmm? Of comrse this necessitrily mulumses the correnthes of the distimetion made hetween an Upher amb a Lower (thon-a matter which 1 have made the sulyject of a pherions query, for the sake of obtaining fuller information.

December 10th, 1884.
H. B. S. W.

## THE WATERS OF SHILOAH.

Is Quenterly, Sutement. 1454, p, is, 1 put forward the theory that these wat... flowen along an aguelues on the eats site of Ophel from the Virginis Fione tain to the mouth of the Tyropoon. I am anxious for my theory to la tested (and (?) proved) by excavation. Meanwhile, it will be well : di-ppose of theobjemtions raisel agginat rey aquedu tin the last two numbers Captain Conder seems to object-
(1) That it has left no known tiaces of its existence. As the same might have been said of the Mmate Stome lefoere Imtis, and the Silona Inaripution in 1579 , the wigegtion has alvionsly mo weight. Omly let frater he lowkel for where they may inestipnosed to esist, and then no doube the will be found.
(2) That it is so drawn on my plan that it apparently joins on a an existing channel, in which water runs the opposite way. Thi objertion, 1 consider, was answerel by auficipations in the three quentio placed in my plan against this part of the aqueduct.

Whe ther the agueduct witbin the Ty ropneon ran on the lise markel, an on another line, or on no line at all, does not really affect my theory that there used to be an aqueduct on the east side of Ophel between til Virgin's Fount and Siloam.

Powfesor Sayce offers a cmrious uljeetion. He says, Sir Chartes Tratmen frieled to find any traces of it in his galleolies (or shaftes on ophel, but hee dowes tow culd (as he rightls might have done) that all these slafte extept fumibly twe, were moth of the point whenee any smpposed aqueduri tan annthwark, and that the two exeeptimen were at hina to feet higher inchet... tion than the level of the suppmed aguednet. Finder theor cireumstam. it was impmasible for Sir C: Waren to dismen the aquedurt: he wrote (1) mes however, in Aovomber, 154.3, as follows:-"1 think it quite promber that theme was an aymeluot on the eant side of (Tyher, as som suggest."

To sum up-
Profensor sayee in conmertine the waters of shilnah with the silome
 whon Cuptain Comlor and olnows (mysolf among the munlow) regard as ion author:

Cuptain Comlor, l,y rejewting hoth Professor Sayce's thumel and tws aqueduct, has the occters of Shiloal left on his hands without any mot at all. For water flowing down the Tyropreon could not be said to safly, and whers flowing in a mataral chabnal down the Kedron cmuld to. toe the wafers of Shaturth, as the memting of this word shows that they ran through an aqueduct.

Howe my suppmand aquelmet affords a happy way ont of the dilempen It is mow probathe that the month of the Tyropmeni was burnel inco we.l irrigated gavens los menis of such an sugtulut, conturies herfore the gientic undertak ing of making the silcom Thumel was ever hrant of.

Octuber $27 \mathrm{th}, 1884$.
W. F. B:hcir.

## ZION, THE CITY OF DAVID.

Os urging a Society that sends its maps over the world not to be afraid,
 of the Temple, I was told in reply, "You have convinced nobody:" This
 truth.

I have not claimed to have convinced any one, but still some have been convinced. Professor Robertson Smith says that the Ophel site alone "does justice to the languagre of the Old Testament." Professor"
 the (ity of lavid stmol on the st-called hill of Ophel" (efomitedy Statement, 1884, 1). 80). Sir Chales Warren has for thirteen years camblid! womel that the Bomk of Xehemiah places the City of havad on Ophel. Captain Conder, after five years' unyielding opposition, at
 of David) may be supposed to have included Ophel " (id. 242).

My theory, then, omght not to be pejectect off-hand on the phea that me me believes it. Yet what I undertook to do was not to convince my oppo-
 are ungel againat me in the Jhly amb Oetolmer mumhers. Captain Comler

 views hy suplusing that the (ity of lhavid ofetched actome a deple valley: in other words the formor thinks that I make Jemsatem small, and the
 make Jermatem lumer aml the Gity of Itarid smaller than lons nifher of these writers. Want of due circumspection has caused the one to strike on Acylla, and the whem to fall intu Charstalis. Nivither fan point to a single pasage of mine in these pages in support of the thennes they thus attribute to me.

Fumther, (1) in mply to Captain (onder I must remind him that I have
 Temonalem," and that I plave the firmes on thitel, while I make my Jommaten larem than his (iil. \&1). Thus, "confining Jemesaten to Ophed" is just what I have not done.
 David stretched across a deep valley ?" Where have I supposed it? So
 that thos not place Zion, the ('it! of David. snlely on (phel (so-cilleal).

My Jerusalem theory is as follows:-

1. The Tyropeon Valley was part of the valley of ITinnom which ran from near the Jaffa Gate through the present city to the Kedron. '
2. Zion, the City of David, was entirely on the southern part of the eastern hill, i.e., on Ophel (so-called).
3. The sepulchres of Darid were in this same part.
4. The "guther" (2 Sum. r, \&) lyy whith Joahs gainme amess for Zives. was the sectet prasare (eommeed with the Vingin's Fommi) discovered b.y Sir C. Warren.
5. Ataunah betrayen Zion to David either hy disulging the sectet of the "gutter," or by assisting Joab in ascending it.

I have defied any ous to uloet No. 2. hat I am willing to extend ilse
 behlly to the attack, I eannot run from my guns, but must ruthlesely mow down his objewtions to my (nou (anon Birch's) theory loy confuting them. 1 ank ghal, howorre, to siry that Profesmer saye agees with me, partially on No. 1, and all lom contirely on Nus 2 and 3. Int he wholly rejects No. \& and conserguently No. 5, thomelh, since he is "quite ready to believe whatever Josphlus may say provided it is mot contradicted hy extemal on internal evilence " (p. 172, 1 anticipate in the end his hearty aceptance of my last point.

Professor Sayce's objections to No. 4 are practically three.
(1) He wiges that 2 Sammel r , 6 - 5 , has to do with the capture of ion places, and that therefore it was not Zion, the City of David, to which Joab gained access.
(2) That Jowb conld not have got up the shaft foumd by Sit C. Warten, since in Profesonf sarces minion it did mot then exist, heing of later date than the Siloam Tumel.
(3) That the Helrew wond for "gutter" means a waterfall, and therefore could not be a roek-cut shaft or passage.

To make the matter in clispme mane intelligible, I give in full the passares in question :-

2 Fimmel 8 , 6. "And the king and his men went to Terusalem muto the Jelusites, the inhatitants of the lame, which pake unto Davill, saying, Exapt thom take away the hlind and the lame, thom shatt not come in hither : thinking, David camot come in hither.
7. "Nevertheless bavid tork the stronghold of Zion: the same is the City of David.
8. "A med Davill said on that day, Whoserer geitedh uf, to the Eniter. and smiteth the Ithesites, and the lame and the lwimel, then cree hated of Davil's somil, he sluill loe chicif and angtrin. Wherefore they said, The blind and the lame shall not come into the house."

1 Chronicles xi, 6, states: "And David said, Whosoever smiteth the Jemosites liost shall her chiof amd captain. So Joal the som of Zermiah went first up and was chief."

Th prove his fies prim, Profmaor sayce tries to make a shom ont, hy impresing inte his service Hetrow grammar. He pmotests against my deseribing his interpmation of two places heing taken as a "pmpular
 tenses admit of no other (interpretation) ; we have wano consecutivum in each clause. The narrative sets before us a sequence of events.
Bas id captured the omplyst of Zitan, and ufion thix-hut on the same day: he promised rewards to "whosoever getteth up to the gutter,' \&e."

My contention ( 1.72 ) was that in verse 8 the semse wonld the mate
 this redse explains hom David smocedtel in taking Zion, the cappure of which was mentioned in the previous verse.

The question is, Must the words translated "And David said" mean "Aml nite this (the previmusly mentioned erent) Inarid said," or may they mot mean "For David said," and, if son, dees not thas rembering agree bettor with the rest of the passage?

A dispmteal point of grammar must be dealt. with by a compertent. Helnew soholar: I extract the followines from a full explanation of the question, kindly furnished to me by Professor Theodores:-
 matians), is varionsly natued in the monem grammats as imperfed, aomist, fiens, \&c. . . . The letter 9 prefixed to the 'future,' generally provided with the rowel Pathach $(-)$ and followel hy a dot allent 'sumbe hatesh in the intial letter of the verh, has the promedy of changing the verh from the future the prast, whence the Hefoew grammarians named it the vaw conversive.' Modern grammarians have invented for it different names, cons.atioe, voluntative, relative, \&e. The intopmetation of the

 or logical.
"It is not true that ? before a verb in the future must be interpreted to mean 'afterwards' (Siyce, p. 174). Examples are numerous.
Thus in Genesis xaxvii, 5, we read (A.V.), 'And Josephus dreamed ic dream, and he told it his brethren, and they hated hinn yet the more." "

Here fullows velae 6 : "And he said |future with I| unto them, Heal; I prat som, this dream which I have dreamed." Wombl it hot be atsomel to
 said unt1) them!" Jospph did met thell his dreath in comserguent of his

 with" Amd he sath," is anterior to the wotis "and they hated hinn set the more " in verse 5. Again, in Exolus x1, 17, we are informed that on the first day of the first month in the seond fear the tahernade was reareal up. The mext remas, the Isth, reade, "And Mows reated up |future with || the
 up of the tabernacle, Moses reared up the tabernacle!


 the blind and the lame, meaning: David shall not enter here! (7) Nevertheless, Dasid emmpered the Fontifation' Zion, whish is 'the Cits. of D.avid. (s) For Ihaid protameal on that day, He that smites the
 with the blimd, these hated hy the smal of Davil . . [The Eictifares is here elliptical, nowt stming what shonld he done to him, hot the want ise supplien in 1 Chromictes di, 6), beranse the lame and the blind, even thoy say he shall mot enter within. (9) Thms David setuled in the fort anal callen it the (ity of David. Ame David Imilt romed abom from Millo anes

 arestated:- Fome 7. And David compuevel.' This 'And' is alversative. and means lout, moveralos. Verse 4 . 'And lhavil sail.' In the preemding rover (i) the text status in a yromol way that Dasid overpowerel the
 effected."

Thus it is amply shown that the grammar does not prove that two plames were taken in 2 Rammel $v$; 1 Chromicles xi. If I may ahil a word of my own, I would say there would be an unacosmmatele hormane in the sered narrative if two phaces had heen taken, since nes mentions whatever is mande of the somend capture. The passages give a completer story of one plate heing taken, stating the fact of its eapture, that on reword hat heen offreal fon its apture, and the name of the surpenfill hero.

The A.V. is right in the hearling of 1 Chromicles xi: "Tre wimmeth the eastle of Zion fom the Jehnsites by Joabs valour, and so far 1 was wrong in dow ribing Proferonk sayces interpuctation as a prophen erron. Thus 1 cometule that it mes the fore (of) Zion to which Joal, gained actem.

But, sucomlly, Professer Sayce says (175): "The cancful workmanhip, if
 Fing. ant the fact that the iower comluit (ascovered hy sir C: Waren) led into the winding silvam Tumel, all go to show that this lower connhis was later in age than the Siloam one."
 Profosen Siyce memtions a niche apposite the inseription, and admits the feasonable sugs - fou that it was for the lamp of the wonk man that emt the letters. Was the inscription therefore (and the tumel as well) a Greco-Roman invention? I will not, however, press the point. If
 will, I thimk, find ben mention whaterem of "niches fur lampe" lime unls of piles of luose stime (Lemere, p. 32) ; Memmirs, Jorusalem, 1. 36it, an invention dating as far back as Jegar-sahadutha.
b. "The iron ring."-My initials and H.B. are smoked beyond the hrood armes in a low pasage in tho eave of Adullan, the the antiguit? of the cove is min conserquently reducen. The ring monat have heen adhed after the pomago was made, but how loug after no one knowk, and therefore the iron age proves nothing.



as follows:- "The fact of the nevily formal argeduet beines mearly in : line with the first 50 feet of the old one, gives the idea that this may wriginally have hean the moans of providing Ophed with wated ami ham the remainder of the duet to the preant l'mel of Siluan may have been an afterthought."

He also holds to the same opinion in "Unierground Jerusalem" (1. 333). Thus Profensor Sayce's second objection fails.

His thiml olyjection I propuse, if tume fromit, to answer fully when ! hare expmatel in detati the fallaties of the arguments mgad iof placing the (ity of David in any other pmition than on Gphed (on-allat). It will sufiice bow to say that the evilenve proving that the ghtter was wh
 $1878, \mathrm{p} .184 ; 1879, \mathrm{p} .104$.

W. F. Bircif.

## THE ROU'IE OF' 'IHE EXODUS.

## I.

Penmit me to reply to the views of Mro Baker Greene, as given in the


 wibh Mrumt Simai. I regret not having seen Mr: Greones homk, hut as: his views are very fully set forth in the (ucrterly Statement I will deal with a few pmints on which he lass stres in that pulatication; and I hare to be able to show, by the aid of a few crucial tests, that his views are altogether untenable.

I may be allawed to pmini out that this is preemminently a question Whidh requires smme personal lamwleatee of the commbies referted to; and it denes but appear from Ms. Baker Eremes statement that, like the vencrable Dre Beke, he has made a pilgrimage to the East in orter to verify his views by personal observation. On the other hand, I mas remind the reader that the itentitication of Momm sinai (Jelel Mías) in the greninsula of Ambia Praraa with the "Monmt of the Law" has been maintained loy emineut men who have personally oxamineal the
 Ein. Sir Charles W. Wilan, formerly of the Ordmance Surey of Simai. Aflew this consensus of opmion it migh have been supposed that mothing more was to be said.

Mr. Baker Groene asserts that after the pasage of the Fed sea the Isra. lites fullowel the ohd caravan road atwos the Tih tableland to Akabh, which he ibentioes with Elim, whote there were "twelse wells and threescore and ten palm-trees" (Exod. xv, 27). As Elim mevely means "a growe of palms," the name might doubtless have
heen applieed to Akahah, or to several other spots where groves of palmas lappened to grow ; so that little value can be attached to this point of identification.

But taking the sacred narrative as it stands, let us see how it fits in witt: Mr. (Greene's views. The Israclites are stated to have grone thre. days in the willemess, and to have found no water (remae 22). Mr. (ireene then draws the probable inference that on the forth day they fonnd water, and he identifies the spot where the water was found with Kiala at Nakhl, which is situated aboet half-way helween Suez and Akaboh on the caravan read, and is comsidered a foumh day's stage for caravans. Of this place Profeson. Palnew says: "The combtry is nearly watertess. eseapt a few spminges sitnated in the langer wallies ; but even here water can only the chtainal hy soraping small holes in the ground and hating it ont with the hame. All that is obtained ly the process is a yellowish solution, which haftes all attompts at filtering" ("1 Desert of the Exodns," 1. 2-7. Such was the wator with which, dumoding to Mr. Baker (ireene's views, the thousands of Isarel, with their flocks and herds, were fain th slake their thimst after a mavel of three days muter a broiling smm, and over one of the most desolate and forlidding tracis in that part of the world !

Bint. even stypmaing the water to have been at that period mere plentiful, another question remains to be miswered: Has Mr. BakerGieene ascertained the distance from Suez to Nakh, which was reachel, as he supposes, on the fourth day? If he will measure the distance on a grood map, he will find that it is abont seventy Euglish miles in a straight line, and in addition the march involves the asoont of the ridge of Jelmel er 12Bhat of ahout 2,000 feet. To suppose that the Israelitish houst, consisting of mem, women, and children, together with their flows and herds, could have marched seventy miles and crossed a ridge of 2,000 feet in three days is a demand on one credulity whith he can seareely hope to be grantel. That it ean he done on camels or horaes is doultiess the ; hat to areomplish the journey on font womld tas the poweers of a skilleal pedestrian, and would be impossible for women and children.

Having dispment of this puint, which lies at the threshold of Mr. Baker (imeness argument, I will take upanother. It is stated that the Istaclites on reaching Elim frimel twelve wells, and that they "enoamped there ly the waters," evidenty refmering to the waters of the wells; but surely, if Elim means Akntah, as Mr. (ireene supposers, we might have expected to find sme reforence to the waters of the Real siea (or (iulf of Akabah) as being in the vicinity of the camping ground.

But another objection to Mr. Greene's views meets us at the commemememt of Exalus svi, where it is stated that on learing Elim the T.aradites "thon their jommey and came mito the widerness of Sin, whinh is lwtween Elim and Sinai." In his statement Mr. (ireene seems to make a confusion between the "wilderness of Sin" and the "wilderness of Zin," which lattee lay along the Arakah, and probalily included Elim and $A$ kahah. The wilderness of Sin, aceording to the het
anthorities, lay to the west of the Sinaitic preninsula. In any case the two names refer to two different districts. That spelt with samech being referred to in Exodus xvi and xvii; that spelt with tsade in Dentermomy xxxii, 57: Numhers xiii, 21 ; xxvii, 14; and Joshua $x$ er, 3 , these being connected with Kadesh-Barnea. ${ }^{1}$

In reference to the statement of St. Paul, it is not difficult to mulemstand why he places Monnt Sinai in "Arahia." The term was doubtiess noed hig the Aprostle in a genemal sense to include the rast region of deamt-land lying to the south and east of Jondan. Mr. (ireone himasif spess the difliculty of aceomiting for the fart that Momb How should be associated with the lesser event of the death of Aaron rather than with those stupendous manifestations of bivine perwer which were connected with the giving of the Law.

Again, if Elim be Akalnh, how ean this he remonciled with the statement of Xumbers xxxii, 10, that the lsraelites "romoved from Elim and eneamped by the Red siea," inasmuch as Akaloh is artually lye the Rew Sea? Oher difficulties might be cited, lout the alowe are protblals sufficient to show that Mr. Baker Greme's identification Ganmot be admitted.

Nor can I admit that Kadesh-Barnea is Petra. From personal experience of the difficulties of the momatan prass leading from the Ambah Valley to Petra, I may safely affirm that it would have been impractieable for the Children of Lsacl when on their way fo the Promised Land.

## Enward Hulul.

Dublin, November 18, 1884.

## II.

Propesson dithl having beon grom enough to place at my diapomal a pronf-hew of his objections to my view of the Exodus, 1 gladly avail myself of the anportmity of replyiug to them forthwith. Negatively it is a sonure of satisfaction th me that, with this exception, fin one of the many members of the Palastine Explatation Fund has challonged the soundness of my arguments.

1 must confes, however, that 1 find monsiderable difliculty in knowing how to deal with Professon Hull's eriticisms. I have no right to complain that lie has mot read my lmok before entering the lists, lom not having itone m, I think 1 may justly complain that he should have assummed that I did non take the trouble of studying with ordinary attention the suliject of which I treated. He tells me how to ascertain the distance from suez to Nakhl: quotus Profosur Pahner as to the watombes charamer of the country around the last-mamed place $;$, he attributes to me "a

[^2]"mfusion" lnelwew the wilderneses of Sin and Zin; he gravely infums the readess of the Quartarly stotoment that the initial lectors of theo. worls are dififorent, and with equal gravity adds in a foothote that my respected friond Ir. Stublis has verified the fact by reference to theree
 anilanitatively asserts that persounl observation of the country is pmo emimently required for the sedtement of the pmints in issue, and, with what mose prosans will he inclised to think siugular infelicity, refens (t) the late Ir. Bokes pilgrimage in seardy of the true Mownt Sinai. Pinally, he reters to the anthority of a momber of persans as to the i. Lentity of Jebel Misa with Mount Simai.' and airily ablds that aftor this consmasus of ophinion it might have been supposed that mothing more remainal to be said. To measure small things hy great, I may remind the Troficant that there was a still greater consensus of opiminn aquinal Calitew when he mantained that the earth moved, amd ggainet the firse geonlegiats who rentured to deny that the creation of the woutd was effected in six solar days.

And unw to deal with Profuseor Ifllis objectims in hetail :--
He savs that litale value can bre attached to the identification of Elime with Akabath lereanse of the presence of palm-trees at the last-named plawe. I would go farther, and say mo value whatever could tre attached (t) such a ground of identification taken pae os. But if he will tum to my contribution to the last fuarterly stotomom he will find that I wrote, "I cannot give here in detail the many reasons, scriptural, philologieal. historical, and geographical, for my jdentification of the Elim of Fimolus $x v, 27$, with the Elath of Deut. ii , 8 , and 1 Kings ix, 20,0 and the molem
hy Retter, Eradkemis. 14. He eromel the desert from Suez to Akalah in
 travelting, whielt clocely cormo-pmonds with the cotimated time in the "Tahnta Pomtingeriman" (sisty-eighe hours). Siee also Dr. shaw, "Travels in Barhact and the Levamt," 1721. 1. 477; Dr. Powence, Bidhop of Meath, "Deseription of the Eass," 1713 , $\mathrm{i}, 265$. Nakh1 is the half-wny heose om what Coptain Burton describes as the oldest route in the world, and it has never been surveyed.
${ }^{1}$ It is not of much consoquence, but as a matter of fact Burckhardt identifiwi Jebed Serthal, a monutain thirly miles to the weet ward of Jehel Misa, with Sinai, an opimion shareal by Leqwius and ofthers. Coptain Burtom thus prithity sums up, the reprostive claime of the sarious mombains in the peninsula to the "the true simai:" - It is evidum that delect septont dates only from the early ders of Coprie Chriatianity; that Jehel Mhen, it Fireek rival, pase after the risions of Ifelema in the fourth century : whitst the building of the convent ley Justiniau holongs to a.r. 527 . Ras sufavelh, its rival to the morth, is an affiair of yoterdey, anit may he valled the invention off Robinson; and Jelmel Katerina, th the कunth, is the property of Ruppell." ("Mitian Rovisiten," i , 237.) I have the
 Rente of the Esodus hetire he hift England in 18se, and itwat he would peobehity have taken the fist opportunity of arosing his change of oppinion ham he returned.

Akalah. I camot be expected to summarise the contents of an oftam volume of nearly five hundred pages.

Professon Ihall argas the imposibility of the thomsants if Istael, with Wheir flowks and herds, finding a supply of water at Naklil, and the impmokalility w their making the jompers from suez to that place in there or four days. Unfortunately for his inference he proves too much. There is no place in the demet of the Thlh. Where they are said tor hase wamdered for forty years, where water could have been obtained for such a multi-
 sum, Women, and ditdren, numhered betwern two and thee millions. If such was the case, and they had formed a column ten abreast, allowing only a yard depth for each rank, the caravan, exclusive of llocks and herds, would have reached from Suez to Akabah. I believe that the released captives were not in such excessive numbers as to preclude the possibility of their doing what is ammally done by the Egypian llaj, namely, emossing the deser for Akalah in alnut a wouks time. Professor Hull says that from his personal experience of the differnties of the mombain pres leanting from the Aralah to Petra, he con sufly aftum it would have heen impracticahle for the Chiblien of Israel on their way to the Promised Land. This objection, like the preceding one, rests, I presume, on their supposed numbers. But let us glance at certain admitted historical facts. At some period of their journeryuse the lamelites were berond all grestion in the middte pontion of the Wady Arabah. They desired to pass through Edom, which throughout is a very monntainous region, in order to reach Moab and the Trans-Jordanic comntry to the north. The Edomites refused permission, and "pame out against Israel with much people and a strong hand" (Numb. xx, 20, 21), "wherefore Ismael turned away from him." But where did Israel turn? It is conceded on all hands that on quiting Moment Hor, the laraelitus descended the A mivah "hy the way of the Red Sea," by which is heve meant beyond all dispute the Gulf
 Mount Seir," that is, Edom, and following the east "coast" of that country pursued a northerly direction to Moab. About this portion of the route followed by the Israelites there never has been any question. But the reason they took this circuitons course was because they were not cmabled to pass through Edem, and this inability de-
 hisalle attitude of the Etomites. Bint the diflicattios of this paricular pass by which Professor Hull proceeded from the Arabah to Petra would have been equalled if not exceeded hy those of the other "wadies" debouching from the Idumean range into the Arabah. So that we must
 crossed Edom from the Arabah if they had been permitted to do so, or
 stress would not have been insuperable.

Professor Hull says it is not difficult to explain St. Paul's placing

Monnt Sinai in Arabia. "The term was doubterss used by the Apmothe in a gencral sconse to include the rast, region of desert land lying to the somh and east of Julem." But this is begging the whole question. There is mot a tittle of exidence that St. Paul ever thonght of hasd of The so-called sinaitie perimsula. I affirm withomt fear of comtrathenton that the human leing ever dreant of extending Arahia west of the Arabah until Ptolemy, at the close of the second century, introduced what he called Arahia Pectraa, an inmovation which was mever sanctioned or remonised by the Arahian geographers. It is mot unreasonalite to conclude that sit Panl, being a highly educated man, knew what he was writing alout, and when he refered to Arahia meant the cementy which was sh designated hy his contempmaries. For the exphnation of the corions fact that the asseriation of Momithor with Aaronis death shombld have apmarently survived thase anising from the tradition of the law I must refer to the "Hebrew Migration." It should not be forgotten that, wherever sitnated, Momt Sinai fell into oblivion among the Jews. Xopilgrimages were made to it, and its exact site was certainly mbknown to Josephus, or he would have fixed its locality by its proximity to some well-known jplace.

The "confusion" which I'rufesoor Bull attributes to me respecting the wihlomess of Sin and Zin sulplies an opportumity, of which 1 may he permitted to avail myself, not ouly of satisfying the Profesor that he has done toe an injustiee, hut of hringing under the motice of the reaters of the Quartorty Statemont some interesting facts resperting Sin and Zin which will, 1 believe, heal then to share my mintion that they were identival.

The wilderness of Sin was Letween Elim and Sinai (Esod. svi, 1), and in Esons avii we have mention made of two very remarkable incidents which must have happened in, or in the immediate nelghbomhond of, that wilder nus, namels, the smiting of the rock with the promluction of water, and the batile with the Amalekites. Let us hriefly comsider all that is told us respecting these two incidents.

According to the account in Exodus xvii, the Israelites murmured through want of water, and obtained the miractolons suply from the ronk in Howl, the place luaring the name o. Masali and Meribah, becanse of the chiflinge of the chitdren of Taran, and herause they tempted the Lome." We have, however, another account of this miracle in Numbers xx . It is there stated that "then came the children of Istael, even the whole corgregation, into the desert of Zin in the first month, ant the people abowle in Kaleah, and Miriam dieal there." Whilst in this place "there was tio water for the congregation." The poople retwelled, and Mowes, liy commant of the loond, smote the rock, ant the water came forth almmantly. "Thia is the water of Merilath, limanse the children of derad smove with the Lord, and He was sanctified in them."

Now no one will serionsly eontamit that there were two diminct mimales. poriormed unier preciecly similar circumstances, at an interval of nearly forty years, in places widely apart, and that the water produced bore in Lenth comss the name "Merilmh." But all thath on the matter is remover
by reforming to the lamuage which was addressed by the diacontented Ismelites to their leaders. They demanted why they had hand hromght into the wilderness with their cattle to die, and asked "wherefore have ge mate us to come out of Egypt to liriug us into this evil plane ? it is no Mace of seed, of of ties, of of vines, or of promegramates, nother is there any water to drink:" This language was appopriate if nad by people who had only recently quitied Egypt, and who "in the fiss momh " (Nimb). xx, 1) after their departure had arrived in a degion where they were forced to submit to great privations ; lut it is hopelessly unintellighbe as coming from people who had heen thirty-nine years straying about in the wildemess, the generation which had quitted Egyt haring hy that time almost entirely died out.

The second inciblent reoordal in Esonhts xvii is the bathle with the Amakekites, and if the acepped view that the wildernes. of Sin was in the somth-weat region of the Sinaitie freminsula, this must have been fonght cluse to the Ciulf of suez. The hegrative and the grative evilence against sulh an asommption are, however, overwhelming. The harethtions on the steles at siablut el Khadem, which is close to the ronte which must have been followed hy the Ismelites if they entered the freninsulis, frone that the minos in that neighboulnod were worked by the Egyptians for conturies lofore the Exontus took plate, and for long afterwats. ${ }^{1}$ If, howerer, this paricular remion was ucoupted hy Egyphtas when Moses led the captives away, it is in the highest degree improbable that he would hase entered a phase oexupied hy his ememios, and still mone so that the diremmatame of having done so shmbld have been monoticed in the Biblical recomls. Fint by what pasible dam of reasening can the presence theme of the Amalekites be aceommted fon! Whon were the Amatekiten! Amalek was the grandenn of Esan, and whe of the Thuhes of Etom (Ciens. xxavi, 12). The Edomites amb the Amalukites were frepurntly treated as ithontioal. It was the Amalekites who bared the progreas of the laraclites when on their way to the Lame of Promise ( Numb . xiii, e!), within a few months after this supmerat battle it sight of the Gulf of Su\%z. Litu we have a speceific account of a hattle letween the Ispaclitios amb the - lanalekites, in which, lowever, the latter were victorions abd the serete of the engagement Was in the widemess of Zin near Kalcoh (Numb) siv), the same im ident being refored th in Denteronmy i, and it was this revene which lat to the relmon of the Isradites down the Ambah to Elath, and their sulase quent joumey by the east of Edom to Muab.

It is therefore simply inconceitable that the Amakekites, who heyoml all question were E.tomites, shonld have been fomml at the time of the
 and that they shouhl, without any imatinable reason, have gisen battle there th the L-ratelites. In the hatte reconted in Exolus su ii the Isratites were victorious, while in that mentioned in Numbers xiv and Deut. i they were vanquished. There can be no reason to doubt that these

Mughembuls were emmsument on the eflonts made by the lamelites to pass through Edon, and were fought in the same region

It is anoth white thasceptain what opheion a fow living at the ommmencement of the Chri-tian ara entertamed reaperting the locality where the
 of Chis purtion of the Rablimal narmative, states that a coalition was fommed against the Helorews, fand that "those who intheed the reat to doso were surh as imhatital fiohmlitis and Petra: they were calleal Amalekites"
 Grat Jewiah historion, this hatele was fontht in latom, anl that the

 Mount Simai between the Gulfs of Suez and Akaloah.

While the Tsrandites were still bet weon İlin and Sinai they met with the Kmitas and con ludeda hature with then (Exoml. sviii). Vint thesme inatpratile objection of the Eransportation of the Amalekitas to the sinaitic pmoninsula, applies be planime the Kenites in the sume meriom. This lathe prople, thmald dintimed from the Amalekites, mequphed with them the commer on the eant of the Ambah. They are pusitively refored to

 Amakkites (1 Sam. Rv), which boyoml all queation bas fomeht in the remion to ther asuth of the Ihead sua, the Kenitersat the regtest of the king - pamtent hemmelses from the Amahelates. What imaginahfereacom comld Jahor, whe was the theihh of the uilas, have harl for taking his people for a flying visit to the so-called Sinaitic mountains ?

If will demblles ise mged that my itemtitieation of the wildermess of

 very far apari. Mer mply is then the remblt of a mitionl collation of the llimeary with the namative of the primopel eroms whith matakd the jommesing of the Leraelins from Eergit to the Promimel Laml shows that the fomber is a pmlumion of a mome remont late, aml whe photrably com-

 names of places of which there is no mention elsewhere. It would be impossible for me to give here an exhaustive analysis in support of the infernume of the canmpantively late flate of this compmitions lout one of two points may be noticed pertinent to the present matter. In the

 thence to a number of places of which we have no mention elsewhere. Sint we laan fona authey mune that on memoving fom Hasemh the




the next station to the wilderness of Paran，or of Zin，the deserts of Sin
 Hazeroth to Zin marks the return to Elath at the head of the Gulf of Akabah．As，however，the spies＂searched the land from the wilderness of $/ \mathrm{Hin}$ unto Rehob，＂the widderness of Sin，which was close by，if not identical with，that of Kin，and which lay between Elim and Sinai， could not have been in the Sinaitic peninsula．I may add that one of the curious results of taking the statements in the Itinerary in their received sense is that，as the Israelites did not reach the widderness of Zin until immediately before the death of Aaron，the spies who set out． from thence could not have undertaken their mission until nearly forty years after the departure from Egypt．But the forty years＇delay in the ＂ihdemmes was dedared to have heen the puminhment for the disobectiente of the Israelites on the return of the spies（Numb．xiv）．

There are many who regard the Pentateuch as a continuous narrative
 it an artiole of fath to arovibe the amthership to Muess．I ammot mater－ stand why they do so，or why they consider it as incompatible with inspiration to admit that it may be the work of many hands．The Gospels do not speak with climinished anthority because they are the
 they repmetively aftem of the fants they meand furnisties mote mblushere proof of the sacred narrative than if the story had been told by only a single witness．And so it is with the various distinct records which have
 in the main，no less than by their differences in details，in forms of

 מ⿴囗十力 destimed to exemise so great an influence on the humath rata．Carefully

 presented in the form in which we now see them．The Mount of God
 Mar－ha－har；the Mount of Mounts．The Elim of the records of one suction is the Klath of ammther，as the Hazarinn of the one is the Mazame of the other，and in like manner the wilderness which by some was kept in their memories as that of Sin，was referred to by others as that of Zino ${ }^{3}$ These are，however，differences which，if viewed in a proper light，only serve the more conclusively to convince us of the authenticity and the antiquity of these precious records．

J．Baker Gireene．

1 We have an illustration of the difference in the use of sibillants by the （is－Jordanie and Irans－Jordanic sections of Ismel in Judges xii，6．The Sibboleth of the former was the Shibboleth of the latter．

PLAN SHEWING POSition of the Two MOUNDS N. Of DAMASCUS GATE.



## THE

## PALESTINE EXPLORATION FUND

## NOTES AND NEWS.

IT has been found necessary to postpone the first instalment of Mr. J. Chichester Hart's papers on the "Natural History in the Desert" until July. The work will be completed in about four instalments. Fach number will be illnstrated by a large coloured plate.

The two communications from the late Geneml Gordon published in this number are merely, as will be seen, notes sent to the Secpetary, and phaced aside until they could be revised by the writer. Of late years he took a deep interest in the proceedings of the Society, though his own conclusions, as may be gathered from the papers here published, were based on other than purely scientifie grounds. The theory put forward in the note on Golgotha has hecen further developed in Gordon's "Reflections in Palestine."

The Committee have to thank Mr. Lanmence Oliphant for two important communications which will be found on pages 82 and 94 . The other paprers promised to the Society by a recent traveller have not ret reached us, but we shall almost certainly be able to produce them in July.

The following is the Balance Sheet for the year 1884:-

> BALANCE SHEET.


Examined and found correct.
(Signed) WALTER MORRISON.

It will be sem that the expenditure impludes the sum of $[1,55113 \mathrm{x}$. Te due to exploration. This makes the total arot of the Geulogioal Expmetition ahombt $\mathscr{S}, 300$. prort of whin was included in the halanee sheet of the preereling yenes.
 this is the sum of $£ 8621$ s. received on that account, and the valuable properts of the Great Map and the reduced mollern map in the pasewion of the smeity, hesides the cophes which remain of the "Surver of Wistern Paleatime." Drinting takes the large sum of 2500 , which immules the pustage of the Quartedy statments to subseribers. Management is an item which varies little from sear to ywar. Tncludine parcels and pontage it. amonuted las year to foey 6e. bid. The proportional table of expenditure is as follows:-

| Exploration, neurly |  | . | .. | $33 \cdot 21$ per cent. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Maps and M | oirs | . | . | $46 \cdot 49$ | , |
| Printing . | .. | - | . | $9 \cdot 0$. | " |
| Management | - | . |  | 11-26 | " |

A considemble sum, about 5750 , still remains (Alareh 25th) to be paid on accolant of the Majs and Memoirs, and the Society is further indehted in the amount of a loan of ES5O, the whole of which it is hoped to pay off before the end of the year.

The P'alestine Pilgrims' 'Text, Society have issued their report for the last year, in which it appears that they have now sevent $y$-one members, and have issued two pilgrims' texts, viz., those of Antonims Martyr and sancta Paula. That of the Bordeaux Pilgrim is already translated and printed, and only awaits Sir Charles Wilson's notes. The Society has received permis-ion of Count Riant to the the publications of the Societs de l'Orient Lemtim. Four more puthications may te expected in the courso of the year.

The long-promised list of Ohd and Now Testanment manes, with identifications, references, and notes, is nearly completed. It has been compriled by Mr. ficurge Arm-trong from the Bible Dietionary, the lists in Clarle's Bihle Athas, and Captain Conder's lists, and is especially prepared with at sow to being a guide 10 the furtheoming maps corering the east as well as the west of the Jordan.

Profiseor Hull's book, calleal "Mount Seir," was issued on Jamuary 14 hth. Subserithers are allowed a maluction on the price, and can obtain it in the usua! way, hyaplication to the offoe, for 78 . Gel. posi free. It comtains, hesides a popular aceonht of the Experlition, which oeruphes twenty chaphers ont of twonty-two, a summary of Scientife Results, and a discussion on some of the more important of the sites visited. There is ulso appemded a Geologioal Map, and an Appendis contaming Major Kitehenor's Report, and a paper by Mr. Comete Arnstrong on the Wally Arabah. There are twenty-three illustrations from drawings and photographs made by the travellers during their work.

Those who are interested in the welfare of the modern inhabitants of Palcotime, will be pleased to hear that the English Langue of the renemble Order of ist. Juhn has now catahlished an Ophthahice Hospital ju-t ent-ithe

Terusalum, where a duly qualified Eoglish surceon, specially skilled in the treatment of the eye, is now resident. The local management is rested in a committee of British residents, Assopiates of the Order of St. John, under the presidency of the Consul, Mr. Noed Temple Moore, O.ML.E. The English .oflices are at the Chancery, St. John's Gate, Clerkenwell.

The income of the societs, from soptomber 26 th to 1) ecember $12 t_{h}, 1854$, inclusive, was-from subecriptions and clonations
 March 12th the balance in the Banks was £205 9s, $6 d$.

It is suggested to subscribers that the satest and most convenient manner of paying subscriptions is through a Bank. Many subscribers have adopted this method, which removes the danger of low or misearmiage, and remders unnecessary the acknowledgment by official receipt and letter.

Subscribers who do not receive the Qeaterly Statement regulatly, are asked to send a note to the Secretary. Great care is taken to forward each mumber to all who are entitled to receive it, but changes of ahdress and other canses give rise occasionally to omissions.

While desiring to give every publicity to proposed identificutions and other theories advanced hy ofticers of the Eund and contributors to the pares of the Quaterly Statemunt, the Committee wish it to be distinctly umberstuot that by publishing them in the Quarterly statement they neitber sametion nor adopt them.

The only authorised lecturers for the Society are-
(1) The Rev. Hemry Geary. Vime of St. Thomas's, Portman Siquare. IIs lectures are on the following subjects:-
The Survey of Western Palestine, as illustrating Bible History.
Palestine East of the Jordan.
The Jerusalem Excavations.
A Restoration of Ancient Jerusalem. Illustrated by original photographs shown as "dissolving riows."
(2) The Rev. James King, Viar of St. Arary's, Berwith. His sulheeds we as follows :-
The Survey of Western Palestine.
Jerusalem.
The IIttites.
The Moabite Stone and other monuments.
(3) The Res. James Neil, formorly Incumbent of Christ Chureh, Jerusalem.

# EDEN AND GOLGOTHA. By General Cearles Gordon, R.E. 

## I.

## Position of Eden.

I mare formed a theory with respect to the position of Eden. I helieve the Greek of the text respecting the parting of the main river of Eden into four other rivers can be read that four rivers united to form one great river.

In Genesis we have one river Euphates given us : on it was Batbylon. We have the Hiddekel, on which was Nineveh (cide Daniel), and which is the Tigris ; these two unite and come down the Persian Gulf. We need to identify the Pison and Gihon. The Pison is the Nile, its meaning is "overflowinge," and it flowed into the Red sea lefore the Flood; it is connected with Egrypt, which, like Nineveh and Babylon, oppressed Israul. The Blue Nile encompasses Havilah, where there is gold. Havilah was a grandson of Shem, his loothers were Ophir and Shela, alson connected with grold, and with Alyssinia ; they went forth by Musha (? Mecca), they crossed the sea, for Solomon got his grhld from Ophir hy sea. Where is the Gihon? There is the Brock Gihon south of Jerusalem, the Valley of Hinnom, where idolatrous practices went on ; it therefore is also a spot whence Isracl was oppressed. On this hrouk is Jerusalem; its flow, when it has any, is to the Dead Sea, its ravine is very deep, and eonld have been the led of a river before the Fhoml. There is the difliculty of finding a ravine from the Dead Sea descending to the Gulf of Akabah throngh Warly Arabah, the Valley of Salt. By report, the watershed or flow of the Valley of Salt is fowards the Dead Sea, and not towards the Giulf of Akabah. Is there any other ravine from the Dead sea to the Red sima lyy which the Giloon conld meet the Nile in that Red Sea?

Allowing for the moment that the Pison is the Nite, and Gihon is the Brook Gihon, that they Mowed into the Real Sea, and through the (iate of the World, Bal, al Mandeb, we fimd by taking off the somndiugs of the Indian Ocean, that there are two clefts of 1,010 fathoms deep, joining near Socotra, and then gring sonth, gradually deepening till they reach 2,600 fathoms, some 100 or 200 miles west of Seychelles.

Seychelles is granitic, all other isles are volcanic.
Aden, query Eden.
Mussulman tradition places Eden at Ceylon.
I do not go into the cquestion whether or not the Tree of Rnowlelge is not the Lodoived serclullutium, and the Tree of Life the Artocarpus incion, though for myself I do not doult it.

I was two years in the neighbombood of the somrees of the Euphrates, Amx. Phasis, \&e.; mo fiowd could commed thess rivers; flomeds de mot alter the features of a country with respect to high ranges.

for the hody, and if you take Warren's or others' contours with the earth or rubbish removed showing the natural state of the land, you canmot help secing that there is a booly, that sidick's conduit is the essophagus, that the quaries are the chest, and if you are venturesome fou will cary out the analogy further. Son find also the verse (Ps. slviii), "Zion, on the sides of the morth; " the word "plema," same as they piereed His phemere. and there came blond and water, Giol took a plearon from the side of Adam, and made woman. Now the Church of Clirist is made up of, of came from, His ptrura, the stomes of the Trmple came from the quaries. from chest of figure, and so 10 ; so that tixed the figure of body to the skull.
3. Then by Josephus's acemunt, as 1 read it, the Tower Psephinus was on the rocky point opposite the sknll. Titus had his headguaters at the slaughter-honse, 2 furlongs from the wall, viz, 300 to 400 yards, near the moner (note that comer, for it is alludent on in the 400 enlits liroken down by Jehoakh, king of Israel, and my placing of the walls and reading of Josephus would make his pmint of attack just where Schicks condnit onters the city enst of Damascus Gate, or at the cisterns to cast, where 1 think Agripp's wall began. Mystically, the Roman Eagle should have gone at the Lamb of Zion lyy the throat, riz., Schick's conduit. Howerer: I will not contime this, for if you please you can get the papers and plans from my hrother. I would do them for you if you wish; I did them for Chaplin long age. The camp of the Assyrians is the place where Nebnchadnezzar camped a month offer the fill of the citn, when he came to bumb the Tomple; it is this day which the .Jows keep as the fast, not the day of taking the city.
3. Naturally, after insceming the figmer, the question arose of Mount Zion, and of the boundaries; lys studying the latter with the siphuagint there seemed no reason by , Soripture to consider Ain Hamd the Enshomesh. Septuagint has Beth Sunos, and near. Jele.l el Tell is Kh. el Duma. Again, Gilhon (being the Tyrupoom) is to gush forth, and as the skull is the Altar. it is thence the two rivers, one to the Dead Sea, the other to the Mediterranean, are to come. At last Moses's blowsing to Benjamin came in, "he shall rest hetween His arms," mot his shoulders ; so thus 1 brought the boundary up Gihon to Kh. el Sama.
4. Other reasons came to back this view,-

## Nehemiah mentions town of Furnaces. <br> He also mentions throne of Governor. <br> Josephus mentions women's towers.

The word "funate" is derived from firmer, thence the comnection. The tent Cozhi and Zimri went into was a firmace. Jusiah broke down the high places lmilt hy Manassech near the Gate of Giocornor, which were, no douht, these same firmoms. Herodias lived at Jaffa Gate, and even th this day there are firmones there I should think, for the troops are there.

This led to lonking up the history of the Levites, de., in Julges, of Gibeon, of mouldy lread, Noh, (iiteah of simul, dic, and the result is as




1 have just noted, acenoling to my ideas ; lime it is a matter of perfect indifference to us all, for these sites are in each of us.

During these studies, the potters' field eomes up, ant also the pool where Ahner and Jonh met, the field of the treacherons mes, and ory idea is that round alout the Serpents Pool is the Tophet, Aceldama, Potters' field ; that down the Valley of Hinnom is the Perez of David.

I will not bore you much longer than to say that, by my ideas,
(Kirjath-jearim
Ranathaim-Zophim
Armathaim
Kuryet el Eneb is
Ramah, one of them
Place of Saul's anointing
Arimathea Emmans
and that Sammel was sacrificing to the Ark when Saul came to him.
Schick has been writing on these subjects for years, and he plaintively says, "hut how am / prossibly to adrance other views now ?" In reality, in writing on these sites, no man ought to draw auy cheques on lis immgination ; he ought to keep to the simple fact, and mot prophesy or fill up gaps. If one wrote under cognomen $a$, and altered under engmonen $\beta$ it would be all right ; as it is now, a man maller his own name cannot go right ahout face atl at once. The Ark was luilt at Alm Shusheh hy Noah, and flowat up to Paris; muly in A.D. Ti.6 was it placed on Ararat, which is "holy lemed." Goel said, "Cio to a mountain I will shew thee," a monntain already consserated by the resting place of the Ark. Noah offered on the rock his sacrifice. Lowk at Genesis and you will see (Gien, si, 1), aftur the Flool they jonrneyed costecord to Shinar: you might go eastward from either Ararat or EiL Judi near. Jeseleb elon ()mar for ever before you reached Shinar. I will not hove you any longer, except to say that 1 think there are not many places far apart of interest in the Scripture way, and that these few are-

1. Nazareth and region of Tiberias.
2. Plain of Esdraelon.
3. Shechem.
4. Bethel.
5. Jerusalem.
6. Bethlehem
7. Hebron.
s. Kuryet el Eneb, Philistia.
8. Jericho, (Gilgal, Ammon and Moah, Dead Sim, Valley of Aralohl. C. G.

## EXPLORATIONS NORTH-EAST OF LAKE TIBERTAS. AND IN JAULAN.

By Laurence Ofiphant.

Hatfa, 30th Jamuary.
The examination of the comitry to the east of the Jordan is, under existing conditions, attended with so much difficulty that I was glad to seize an opportunity which offered a few weeks agro to pay a visit. to the northern and eastern shores of the Lake of Tiberias, and penetrate a short distance into Janlan, with the view of visiting certain localities, where I had reason to believe that some rmins existed which hat hitherto escaped observation. I was unfortunately prevented by circumstances from deroting to them the time and labour which they deserved, and was compelled, in more than one instance, to hurry past places where it would have been interesting to linger, with the mental reservation that I would endearour (1) return, at some future time, for a more detailed examination.

I commenced my investigations immediately on crossing the Jordan, at the point of its debonchure into the lake. Here, at a distane of half a mile cast from its month, are situated the ruins of El Araj, which consists of forndations of old walls, and blocks of basaltie stome, cut and unent, which have been used for buildirg purposes. The ruins cover a limited area. A little over a mile north of El Araj there rises from the fertile plain of El Batihah a mound strewn with blocks of stone, and remains which cover a considerable area. This is Et Tell, a spot which it has been sought by more than one faveller to identify with Belhsaida Julias. I will not here enter into the much vexed question of whether there were two Beth. saidas, as insisted upon by feland and many others, on only one ; or whether "the desert place apart," uporn which was performed the miracle of the five loaves and the two fishes, was on a desolate spur of the range inwediately to the north of this Tell, which would necessitate two Bethsaidas, (1) whether it was not, as Dr. Thomson supposes, at the north-east emmer of the Lake on the shoulder overhanging Mesadiyeh, upon which assump. tion he constructs a theory which would involve only one; or whether, as suggested by Captain Conder, the Sinaitic Manmscript is right in omitting the definition (Lake ix, 10) of the desert where the 5,000 were fod, as "helonging to the city called Bethsaida," in which case the necessity for a secoul city of that name ceases for exist, and the miracle may have been performed in the plain at the somth-east of the Lake. It is posable that excarations at Et Tell might enahle us todecide pusitively whether it is the site of Bethsaida Julias, which we know was in this ricinity. A small native village has been buitt anong the ruins, which do not at present afford to the passing traveller any indieations of former magnificence ; but I was mable at the time to examine them, as I was desirons of pushing on without delay to a spot where I was informed ly a Bedonin sheikh who aceompanied me from Araj that the fellahin, in the course of getting out stone for constructing a small village last summer, had laid
bare some stones on which were carviugs and pictorial representations. After following the course of the Jordan, on its cast bank, for another mile, we reached a spot on the barren slope of a hill a few hmulred yards from the river, where some native huts had been recently built, and where large cut stones, carred comices, capitals, and fragments of columns were strewn in profusion, while from the midst of them rose the walls of what appears to have heen a synagggre; owing, howerer, to a later superstructure having evidently been reared upon the original foundation, I feel somewhat diflident in pronomeing upon this point decidedly. I will, however, state my reasons for coming to this conclusion, while the accompanying sketches of the ormamentation I found here may enable others more competent to form an opinion than myself to judge of their origin. The dimensions and ground plan of the building with the columns still in situ closely resembled those of the small synagogue at Kefr Birim. The
 length was 45 feet, the breadth 33 feet. The buiding had an east, and west orientation, and the door was in the centre of the wall on the western side. This dives not, so firr as I know, wecur in the case of any symagogue hithertu fomul, but it was doubtless due to the necessities of the case, as the site for the huilding was excavated from the hill-side, the floor at the east end heing about 9 feet below the surface of the earth at the back of the wall, while the slope of the hill would have made it inconvenient to place the door, as nsual, on the sonth side. A more serions objection to this being a synagogne lies in the fact that the stones were set in mortar: which does not oecur in the case of other synagogues ; hut there were indications to show that these walls had heen erected upon older fommations. They were now standing to a height of \& feet. There were no door-posts or lintel to the entrance. The floor, which was thickly strewn with building stones, fragments of colmmes, and of carved connices and capitals. was below the level of the groumd, and was reached ly a descent of two steps, while opposite, ruming along the whole length of the eastern side, were two benches or steps, the face of the upper one decomed with a thin scroll of ornamental tracery : these may have served for seats. The depressed floor and stone benches are both features which occur in the synagogue at Irbid. Upon the upper. bench stood the fragments of two columns about 4 feet in


Fig. 4.

height, and 1 foot 2 inches in diameter. They were evidently not in situ, being without pedestals, and I can only account for their being in their present position by the supposition that they had been placed there recently. The other two appeared to be in situ, but their bases were much hiddeu by the blocks of stone heaped on the flom: These blucks averaged 2 feen 6 inches ly 18 inches. The eqpitals of the columns were in Cirrimhian style, 2 feet 3 inches in height, and consisted of a domble row of leaves, which differed sonnewhat from the usmal acauthes, apprenty of a lator or more composite ordes. The ornamentation and chanacter of the niches (sue figs. 4 and 5) su clrisely resembled thuse found at the synagogue at kerazeh and elsewhere, heing of the same flomid and sumewhat delased type, that they seemed to me to set at rest the queaton of the original chatracter of this hailding, though it may suhserynomly have been diverted to ofher uses. Tine did mot allow me to do more than make rough drawings of the archituecture, hut I trust they are sufficient to enable a comparison


Fig. 1. to be made between them and the engravings in the "Memoirs." If I am right in my conjecture, this synagogue would probably date from about the second century of the Christian era. I also found a stone which consisted of the upper portion of twosmall smmi-attached fluted columns with Doris capitals, almost exactly similar to the one found at Irbid. Also one cut into a round arch, which may have been placed over the


Fira. 2. lintel on the plan of the arch on the lintel over the entrance to the great synagogue at Kefr Birim. It measured 39 inches across the base of the arch (fig. 1). A most interesting object was a winged female figure, holding what was apparently a sheaf (fig. 2). The ornamentation of the cornice does not resemble any which I have observed either in the "Memoirs" or elsewhere, and is not unlike the so-called egg and dart pattern (fig. :3). Other specimens of the omatmentation are sem in fig. ㄱ. I have
not been able to form any conjectuxe which should identify this most interesting spot with any Biblical or historical locality. Its modern name is EdDikkih, meaning platform, a name not inappropriate to its position. It is possible that during the next dry season the natives may continue their excavations, as stones are needed. I have


Fig. 3.
 be unearthed; but they umfortunately watched my proceedings with an uneasiness and suspicion which $I$ am afraid a gratuity failed altogether to dispel.

Wenow pursuedanalmost easterly direction along the lower flank of the range which

119.7. rose abruptly on our left, and in a mile and a latif reached a-pring and the remains of a small ruin called Unim el Araj. There seemen, however, to have been only two or three honses here, amd finding nothing of intereat we pushed on, and reached in half a mile move the mins of Elahsoniych. Here again I was fortunate in coming upon remains which have ireen exposed to view for the first time loy the natives this year.

The portion excavated wats not so extensive, nor did it reveal so mhth that wats interesting, as Ed-Dikkih, hut the area covered with chld ruin wats greater, and it was in ancient times poobally the contre of a larger popmlation. The character of the remains mow exposed to view is very diffictult to determine, owing to the confusion which bas been ereated by thein pepresenting two perionls, the himiding of the later having apparenty heen placed diagonally on the one that preceded it. They were situated mont a tertace of solid masonry ahonf 5 feet hish, now itrewn with huiding stones. The "pher of more recent chamber measured 20 feet arrom one way, hut there was mothing to determine its length, no walls having been left standing ; the dimension in one direction, however, could the gathered from the cement floor which still remained, a considerahif pertion of which was visible at a depth of is inches helow the suffice
of the earth. There appeared, 18 inches below it, a flow of solid stone, and this was evidently a prortion of a building of some size, to juige from the blocks of stone which apparently were the foundations for the pedestals of columns. These consisted of five cubes of stone, each 2 feet every way, and 6 feet apart. As the stone thoor on which they stood was 3 feet below the surface of the ground, the upper surface was 1 foot below it, and there may therefore have been more in continuation of the line in which they were, which the excavations of the villagerss had not revealed. They ran north and south, and diagonally to the upper flooring of cement. There were some fragments of collumns, pedestals, and carved cornices and capitals lying anong the ruins of the vicinity, but they were much loroken, and not sufficiently noteworthy to stop to sketch.
I. had, unfortunately, no time to carry out my original intention of following nu, the Wady El Dalich, two miles higher to Elyahudiyeh, where ruins are reported to exist, hut I was assured by the sheikh that they contained no remains such as I had seen at Ed-Dikkilh and Elahstoniyel, so I cronsed the plain back to the coast where the ruins of Mesaliyelh still remain to suggest that the similarity of their name to that of Bethsaida may furnish a clue to the identification with them of that town. They contain nothing of interest however, without excavation; but enongh remains to show that the head of the Lake must in old times have been a great centre of population, since the towns near it are all from one to two miles apart, and 1 have heard of more ruins in the neighbourhood, Which I hope at some future time to have an opportunity of examining.

As sume confusion exists in all the maps to which I have had any access in the nomemalature of the fire wallies which intersect the country between the Jordan and the Wady es Samak, I have heen very particular in obtaining the names as accurately as I conld from the best native sources. Of these the Wady Jeramata is the most wild and inaccessible, and except for the sumerman it affords excellent cover for the large game which are said to alound in it-would probably not repay examination ; the same cannot lee said of the other wadies, in which, esprecially near their heads, 1 have reason to believe some ruins are to be found.

Following the Lake shore, we passed at the mouth of the Wady Ejgayif the ruins of Akib; these consist of mothing lut heaps of hassiltie stones. There is near here a spot marked "ruins" in sone mays, and called Dukah; they are alon mentioned by more than one fraveller. I fonnd on inguiry; however, that a projecting clift near 'Alib was called the Dukah Kefr' Akib, or the precipice of 'Akib, and this has doubtless given rise to the confusion. A mile and a half beyond 'Akib, we turned up the great wady of Es Sanak. It is up this fertile valley, watered by a perennial stream. and which is in places two miles wide, and about seven miles in its greatest length, that it is propused to carry the projected railway from Haifa to Danascus, as it affords an easy sradient from the depressed shores of Lake Tilerias to the elevated platem of Jaulan ; the rise in that distance being a little over 2,000 fect. As we ascend, 1 observe that only quite the lower strata are of limentone ; all the rest is hasaltic, and this formation is of vast
thickness. The whole of Taulan is indeed an immense volcanic field, consisting of irmegular heaps of amorphous lava and lisintegrating scoria, with mounds of globular basalt.

After ascending the wady for three miles we reached, a little below the margin of the platean on the right side, the ruins of El'Adeseh, but it happened to be so dark at the time that I could not distinguish more than heaps of stones, and I had no opportunity of returning to it.

The comutry is rery sparsely peopled in the district of Janlan in which We now were, ine of the largest villages leing that of El' 'Al, built on the site of an ancient ruin ; lout the glace has been sommeh lmilt over that little can be seen, though in the walls and yards of the houses are many restiges of antiquity. In the stable of the lanse in which I lodged was a columu in situs standing to a height of 6 feet, and in the yard a draped female stathe, lifesize, in three pieces. The feet, which as far as I conld jutge were on a pedestal in sitn, were partially covered with earth; the rest of the figure, which had been seprated foon then at the ancles, was lying on the ground ; the leded had also been separated from the booly; but each of the pieces was in good preservation. The left arm dasped what appeared to be a quiver, from which I gathered that the statue was one to Diana. An inscription would probahly be fomme on the pedestal settling this question, hat circumstances prevented my excarating sufficiently to find out whether this was the case.

My objective fuint was now Khisfin, a village lying five miles distant in a north-easterly direction, which has played so important a part in the history of the comitry that I was extremely anxions to investigate the ruins which exist there, and which have never heen the subject of examimation. After riding for an hom we mome to the mins of Nal, situated on a small momml. They consist of hooks of basalt hilding stone, some traces of foundations, some fragments of columns and capitals, and a tank, dry at the time of my visit, but which evidently holds water for smme
 perion, only the two upper courses of matomy being now risible. It was oval in shape, and measured about (50 yands by 30. A little off the road to the right stamls a large tree on a momml which is a conspicumus object on the rast plain, and is called Ez Zeitimi, of the hill of the wlive-tree In half-an-hour nome we reathed Khisfin, which is a large village for this part of the combtry, the houses oonstructed entirely of the hewn stones which here cover a greater area than any roins which I have hitheto visited in this neighbourhood.

The earliest notice which 1 have heon able to obtain of Khistin is that of Yakuhi, about 900 A.万. He mentions it as one of the thief towns of "the Province of the Jurdan," Syrin being divideal in his day into three provinces, viz: the Province of Damascus, the Province of the Jordan, and the Province of Palestine. Yakuh in the thiremonth contury mentions it as a town of the Haman distriet below Nawa, on the Damascus roal, between Nawa and the Jordan. Khisfin was doubtless at one time a fortreas of the Samacens, as it is further memtioned as the plare to which At Melek
al 'Allil (Salatinis son and suctessory) fled after having heen moted at the battle of Baisin by the Cruseders, who adrancel upm himfom Acre. As it is mentimmal as lecing one of the chief towns of the province so long ago as 500 A.D., it is probable that its impertanee dates from a much older perionl. as indeed was indicaten loy some of the ormamentation which I found there. That it must also have been an inportant crusading stroughold is evident from the leding chamemeristice of the remeins, as they now appear, and of the ornamentation, of which I give specimen sketches.


The walls of the principal fint now standing measure lis pards me way, ly 54 the other. They are 9 feet in thickness, and are eight connses of stone in height, the stones from 1 foot to 1 foot 6 inches square, but some are muth larger. Within the fort are the trates of a seemel or inner wall forming a sort of keep in the centre, but the whole area is so encumbered with ruin that it. would require more time than I was ahle fo give to it to make acenrate measurennents, of a plan of the builaing. The village had almuat the afpearance of a quarry, so thickly piled were the hoeks of hewn stone which enelosed the contyards and formed the walls of the houses, white thee were strewn thickly or stacked in heaps over all the neigh-
onring fields. The lintels of the dooms consisted frequently of large stones, some of which puosibly hat served the same purpuse in old times, on which were tablets, rosettes, croseses, booses, and nther crusading devicos.

I now proceedal in a westerly direction, and in two miles reached the ruins of Fsfera, a mound covered with the nsual hewn basaltic stoms, aud with traces of foundations. Two miles further on was the conspicuons hill of Tell el Muntar, which is also strewn with ruins of the same character: but at neither phace were the remains of any marked interest;-they all indicated, howerer, the fresence in ancient times of a large popmlation in this section of comitry. Just to the south of Tell cl Muntar we came upon a dolmen fied - 1 counted twenty grouped in a emporatively limited area, averaging perhaps a hundred yards apart. Some were composed of three side stones with a covering slab, and in most cases were "free standing." In others the superincumbent slab rested upon four uprights, and in others upon heaps of large blocks of stone. In no case did I observe the covering slats to be solagge as 1 have seen then elsewhere, probably owing to the weight of the basalt of which they were composed ; hat circumstances prevental my giviug these interesting monuments upon this oceasion the attention they deserved, and I was compelled to be satisfied with having disoovered their locality. In support of Captain Comer's theory it may lee interesting to note that they were situated near water, as 1 shall presently show, and upon the verge of the precipitons ledge of rock which here forms the eastern cliff of one of the hranches of the Wady es Samak, from which a magnificent view is obtained. The platean here forms a promontory which splits the wâdy, and at its southern extromity is situated the old stronghold of the Cirusaders, called the Kass Berdanif, of Baldwinss Castle. I saw the ruin from a distance, but was mable to risit it on this occusion. This I the less regrettel as it has alroudy heen examined, and the small crumbling ruin which remains offers nothing of interest. On the other hamel, 4 was impatient to reach a ruin hitherto monkown, and which was situated directly henenth the upper ledge of rocky diff down which we were now leading our horses at no little peril to life and limb. After descending aloruptly about 500 feet we come to a browd shelf, or small cultivated platean, herond the edge of which there was another stecp desecht to the bottom of the wady. It was upon this shelf that the ruins of Umun el Kanatar, of the "Place of Arches," is situated. It may have derivel its name from the first object which met our riew, as, thrning sharp the the right moder the impnonding diff down which we had just descombed, we ame upon a mont singular and must pioturespue spot. Here were iwo large arches, one partially ruinel, but the iraces of which were still plainly visible projecting from the roek against which it had heen huilt, the wher in a perfect state of preservation. This one measured 23 fiet in breabll. 6 feet 6 inches in depth, and 16 feet in height. The ruined me was prohahly of the same dimensions, but as it was partially hroken away there was no means of accurately judging of it. They had been built orer a erystal spring, the waters of which still filled the small tank 23 feet lung and 6 feet wide, with a dopth of 2 feet of water, under the perfect arch, and
contained many small fish. It apprarently escaped ly an undergromud chamel. Over the centre of the arch was a large slab of stome, urom which had been an in-
 scription how too effaced to be legible, and as it was 16 feet orer head I had no means of examining it closely. At a slab at the side of the spring was a stone on which was the carved figure of a lion (fig. 1), and in front the widespreading arms of a magnificent old tree offered a grateful shade. At the time of year at which I visited these springs, however, I was not in a position to apmeciate its charms ; a litterly cold wind, accompanied by sleet, was blowing, and I had just inefore arriving at the dolmen fied undergone an experience which made the task of a minute examination of ruins or dolmens in an easterly gale of wind unpleasant in the highest degree. When allowing


Fig. 2. my horse to drink at what seemed a puddle on the plateau, he had made a step forward and plunged head foremost down what turned out to be an overflowed well, with me on his back. We had some difficulty in extricating ourselves, but the severity of the cold wind was so much intensified by my drenched condition, that, not being in my good health otherwise at the time, I was compelled to hurry over these ruins. They are situated about fifty yards from the spring to the north, and consist of ruined walls enclosing an area apparently as nearly as possible of the same dimensions as the synagogue at Ed-Dikkih, but the traces of the western wall were concealed by such piles of large blocks of building stones that it was impossible to determine them. The southern wall was standing to a height of about 7 feet, and consisted of three courses of stone averaging a little over 2 feet each in
height, by ahmot 2 feet 6 inches in lreadho. The dow was sitnated 15 feet from the south-east angle of the wall, and was 4 feet 9 inches in width; the stones forming the door-puat were slighty carted intor a plan monde. ing (fig. 2). On entering, the area presented a mass of stone debris, and columbs, and pieces of carving, tossad ahont in the wildeat confusion: is columas from 10 to 12 fret in height rose abowe the pilles of stone at every angle, as though they hat heen patially merturned by an earthymake: the shaten condition of one of the stones which furmed the donn-pmat, and which projocted irom the others, as well as the gemeral aspert of such of the ruin as was still standing. cenfirned my imporesion that the bimbling had been deatonyed by a comvolsion of nature. It was ditioult umber the circumstances to detemane the trae position of the collumbs, of the exat flan of the building ; lut the ehameter of the fragments of omanentation which still remaimel, the fact that the colnmes were all whin the emelosure of the buhling, that the walls were whitut cement. the grasition of the domp, amb the moulding of the dom-posts, all mather leat me to the same conclusion with respect to this building which I have arrived at in the case of Ed-Dikkih, aml toregard it as having been formerlyasynagogue. There was one stone on which was carved the representation of an eagle (fig. 3), a fragment of ugg and dart cornice, closely resembling the one at Ed-Dikkih, a large triangular slab cut in the shape of an arch and highly ornamented, measuring is feet 6 inches along the base line, and 5) feet 8 inches between the two extremities, and which I assume


Fig. 3. to have heen placeal on the lintel of the matn entrance (fig. 4) ; and there were fragments of Corinthian capitals.

It is highly probable that a careful investigation of these stones would reveal inscriptions which would throw more light on this interesting ruin than, during my hurried inspection
 of them, I was in a position to obtain. I send these notes simply as a description of what I was able to observe, under cirenmstances by no means farmuralle to minute investigation ; fom if is nom impmasilie that i may be able to revisit this part of the comntry and supplement this paper with more details of the ruins which are noticed in it, as well is
to look for whers of the position of which I have recoivel sombe information.

On my return to Tiherias, a Jew eame to tell me that he knew a hom-e which contatined a stome upon which there was an insoription. If fombl it in the floor of a tumble-glown dwelling inhalited by an old Jewish woman. As it was the berrimed with dirt to make anything of, I templed the old woman with a brihe to let me take it up and carry it off, promising to return it. The inscription turned out on be in Greek chameters, and as it may have escaped the aftention of former travellers, a squecze of it is forwandml hew with. Ialso amex the best copy I have been able to make. in case the squeeze does not arrive in good condition.

> YПEPEYXAPICTIACA OYHMWNCIPIKIOV NATAICAMCNOIHMI OIOPEBOICOYANHTIPAMO

I was alen taken hy a Jew to look at a stone built into the back wall of the synagogue, on which was an insoription. Be told me that he had seen some gentlenen take a squee\%e of this, and I therefore only took a hasty ropy, thinkine it probable that it would be fonnd in the . . Mromors." As however, this is not the case, 1 presume it must hase attracted the notice of some more recent explorers. The following is my copy:-

OYAT

TA' $\in$ TH 'OE WMHNA $\triangle$ EN INZHCACAN


I am imbleted to my companion, Mr. Guy Le strance, for the list of the Arah names, which I append, of the places taken down from the matives on this trip, with their significations.

## List of Names of places.

## 1. El-'Adesi, for El-'Adeseh, tuelell, "the lentil."

In Palestine, concrete of small jublles used for floons, from its re. sembling lentils, is known as "El-'Adesi."
2. El-Ahshunych, the vulgar form of El-lassiniyyeh, "Lilmat", "Belonging to Hassin," p.n.
3. 'A in Exfera, prolably for Ain Eso-Sfairah, zy...in' whistling spring."
4. El-'Akib, uëdl, "the term."
5. El 'Ál اللاك, "the high."
6. El-'Araj, الاعر, "the lame."
7. El Batihah, Exulul, "the swamp."
8. Ed-Dikkih, "Lا

10. Kersa, ك, (?) "the seat."
11. Khisfin,

13. Naib, ناب, " the eye-tooth."
14. Et-Tell, لill, "the hill."
15. Tell el Montar, طiall "تل", "the hill of the watch-tower.
16. Tell ez-Zeitunih, تلل الزبيتونة), "the hill of the olive-tree."
17. Ummel'Ajaj. - Luail it, "the place of whit-wimb "er "hatthe.
18. Umm el Kenâtir, blieil pl, "the place of arches."
19. Wanl ed Dalieh, "Ulل厶l Es!, "the gorge of the sine tomin!
 gorge of the little benlder:" Shakayyif, in Shagayyif, for the Bedontes "hange the donted $\mathbb{K}$ into G , is the diminutive of "Shakif," mearing os "fragment" or "boulder" in the colloquial dialect.

22. Wâdi es Saffiah,

24. Wâdi Shebsib,
25. EI- Yahadiyselh, dus:- N1, "the place belorging to the Jown."

## NUTES ON A TOMIS OPENED AT JEBATA, ANI ON MONUMENTS FOUND AT NABLOUS.

By Laurence Olipiant.

Hatfa, 21st .Temuary, 1885.
 (tionet 5, M. i) while excarationg for stome for their hulding operations. Iod uneathed what he termed a sulterpathean abode, bot which I emt-j-bued to he a twmh, I proceeded to that plate in maler to examite it. The. Aheikh and most of the villagers actompamion me to the sput ; heme 1 If had laid hate a dizht of nime stome steps leatinge down to an upen (6) at alont if feot square the nithes formed of cemented masomy, the
 demenains. The lewith from the elthers which hat atoumulated on the




1.ag, 8 feet limat, ame is fort 6 inches high, the walls consisting of plats chiselled stones set with mortar in courses of from 2 feet to 2 feet 6 inches in height. 'This whmber differs from the sery few hithemto diseotered in Palestine, amb whith seem confined to Galitere, in that thestomes are set it mortan. On the left of the chamber was a single koka, which had been a gand deal destroyed by the recent estavations of the rillagers, hot the chamber itself was in perfect order, and in fact in such good condition that it was difficult to realise that it was an ancient construction. The ruof was vaulted, and of solid masomy. In the centre of the east wall vas an entrance, I) , adotly correspombing to the one marked A, expepting that the passage was 7 feet 6 inches in length. It led into a chamber
 in height; this contamed thee kokinn and a loculus mhle\% an aromsolimm. but the side of the loculus, as well as those of the kokim, had been much ingurel. The villagers fold as that thes had formel bomes in the lownlus, amb *.bne fragments uf putfery in this chamber. Not farform these tombas was :amher similur exavation, the embance to which prosentel the apparame of that to an ordinary cave; but on entering it we found ourselves in
a small circular mek-hewn chamber, the flower so morered with rubble th : it was not pmosille costand upright. In the centre of the roof was an aperture Is in hes square, carefully hewn, and from it leal a passage of masoun. the stones, also set in mortar, 2 feet 6 inches broad, and about 5 feet io the point where it was cmmpletely choked with eanth; had we heen akie to spare the time to exeavate we slould have fomme provimhly that it lad into a tomb. The entrance to this passage was almont completely blocked by the handemes appital of an Iomic column, the column itself is inches ine diameter: On furthor examining the stones strewn in the ricinity, and some of which we were told hy the natives they had mearthed, we fom! one on which wascarreel a seren-hrauched candlestick, one which may hase seryed as a keystome, a sareophagus, several fragments of columes, and a momelith samang 10 fout from the dibris at its base, with grooves and Lots similar to others which I have seen at Dobil on Carmel, but tallo of I can coly imagine it to have formed part of some olive-pmessing machinsers. In the neighlonving rocks were vats and winepremes. It is not mulikely

that next summer the natives will undertake further quarrying npertions, when hew distoveries may be hrought to light, the more eppeciany as all the existing indications go to show that Jebata, the ancient Gabatha, must formerly have been a place of some importance.

I have been fortunate in obtaining a glimpse of some monuments recently discovered during some manicipal impuyenents mow in pangre: at Nablons, which are dostined for the Musimu at Constantinople, and of which 1 send you such hurried and imperfeot sketches as I was aline to take, with convies of inacriptions. They were in such pasitions that it was extremely difficult to take symeeres, nor were the comditions pronitious for my dning so. The one which I forward was of an inscription munh defacent, on which I can only make out the worls TON TPIПO $\triangle$. but perhaps others may be more successful. Many of the letters in this other inscriptions were so muth efficed as to he rentered itoubtinl, and i have left them imperfect : but it will not lee difficult, with more time thas I have heen able to give to them, to make the neeressary conrections. The monnments which 1 have seen consist of two statues, one of a drapeal maib

Gonre，life size ；the heal，right arm，and feet were missing．The onther was 2 smaller drapmel male figure，the head and fent of which were also missing． The most interesting oliject was a triamgular peelestal，th）inches high，with ＊lightly curved sites 22 inches long，and squared angles $\$$ inches across． The three sides contained six tahleaux in lusso coliem，one of them a unal deal montated，representing，amongst mens，incilents in the life and Intonis of Ilerentes，in whose honour possibly the statue which onee stomi ufron the prelestai was erected．The first tablean represents a figure in a


Wharint strugerging apparently with a hydra．Ahove this，on the upper moulding of the cornice，was the inscription（marked A）－

## NIO $\Theta H K E N A T \Theta I \triangle O \Sigma E K \quad \Sigma A \Sigma$ NEKENENTӨYПOAE $\Sigma I N A P I \Sigma$ इKENAMAइIN

Below this（marked B）was the following：－

## KAへヘEIKヘIMEIFOTI－

－KAIXAPIミINMLOФEPON

and below this（C）－

## TOYI $\Omega \cdot K A I \cdot A T O N I F O I-$－$I A M E T A I \cdot K A I . I H \Theta E N$

The lower section represented three draped figmes standing：on their thit a mule mate figurestanding ；at their feet a prostrate nude mate figure ；above them was the inscription（D）－

The upper section of the next side represented Leto Apmillo and Artemis, with their names above them in the following order:-

APTEMIE
Nude to the waist.
$A \sqcap O \wedge \wedge \Omega N$
Nude right arm over Artemis's shoulder, with a cloak langing down his back and over his arm.
$\wedge H T \Omega$
Completely draped, with a snake appa-. rently on the left.

The lower section of this side represented five figures, hehind a group of four figures, of whim two were naked men wrestling, the nther two were naked, one standing with outstretched arm, and one on a sort of stool ; above them the inscription. partly illegible,-

## 

and over some of the figures were the letters, $\mathrm{N} \Omega \mathrm{T} I \cdot \mathrm{YPO}$
On the third side, which I had no opportunity of sketching, on the upper section, under the words TPO $\varnothing$ OI HPAK $\triangle H \Sigma$, was a mule infant strugeling with a serpent between two draped fennale figuresevidently Hercules strangling the seppents sent against him by Jera. On the lower section of this side, and under the words $\Theta H \Sigma E Y \Sigma$「N $\Omega$ PI $\Sigma$ MATA, was a much defaced nude figure on the left, supporting what secmed to be a full sack, and on the right three drapeal figures.

I understand that they are continuing to find objeets of interest at Nablous, which I trust shortly to have an opportunity of geing to examine.

## THE PASSAGE OF THE ISRAELITES ACROSS THE RED SEA.

## By Sir John Coode.

The Quarterly Stutment for $\mathrm{A}_{\text {, ril }}$, of last year contained an interesting article by Professor Gull, of Dublin, on "The Relations of Land and Sea in the Isthnus of Suez at the time of the Exodus," wherein he deals with the question of the actual position of the passage of the Red sea hy the Children of Israel.

Professm Ilnll justly remarks that, according to the present pmsition of land and water, there is a direct landway across into the "wilderness of Etham," and he asks whether, if at the time of the Exodus the physical conditions of the distriet north of suez had been the same as they are now (of course he disregards for the moment the existence of the Suez Canal; there would have been cause for the ery of denpair from the lsmaelites, or
the neressity for a stupendous mirarle of deliserance such as the bithle marrative relates!

日e then proceeds to show that the heds of samd and gravel containing shells, corals, and other marine forms mow existing in the waters of the (inlf of Sues (which heds are fonme on cillue side of that gulf up to at least soo foet ahose the present sea-Level) form complete evidence of the elevation of the whole land area of that partionlar regiom, but that this elevation must have taken flace at a time long anteredent to that of the Fxodus. The puints out, what is true, that if at the time of the Exodus an elevation of mot more than from 25 feet to 30 feet hat remained to be effected, the land now forming the southem part of the lsthmus of Suez would have leen snbmerged ly the waters of the Red Sea, and he regards it as in the highest Aogree probable that as far back as the time "when the Exodus took place the waters of the Ried Sea extended northwards up the valley at least as far as the Bitter Lakes, producing a channel 20 to 30 feet in depth, ant perhaps a mile in lreadth; a terrible harvier to the Israclites, and sufficient to induce a ory of desprair from the whole multitude."

Having quite recently traversed the whole Isthmus, making a special examination of the portion between Ismailiya and Suea, the following imcident, which then onecured, appears to ine to be worthy of notice, inasmuch as it is eminently corroborative of Dr. Hull's view.

Whilst engeged with other members of the International Commission upon the investigation of varions matters connected with the question of inpmoving the Sinez Canal, some of our party landed from time to time. and on one oceasion at a primt. between what is now the morth end of the Gulf of Suez and the somb of the Bitter Lakes, mot, in fact, very far to the north of the lridge of hoats by which the pilgrims to and from Merca cruss the Canal.

Desiring to test for myself the character and harduess of the mulmoken ground at this print, and at a height of about 12 on 15 foot atme som-locol. the finat stroke of a piek turned up, from 3 inches holow the surface, a thick cake of a dull white sulstance which at the moment appeared to her \&ypum, and whilst stopping to take it. up, I remarked accordingly; lomt simultanemsly, a collcague who was standing at my side exclaimed "Salt." On askines him how it came to pass that he so instantly arrived at this conclusion, he replied that the whole district thereatomts was full of such salt.

When it is explained that this gentleman had the engineering charge of a comsiderable leng th of this part of the siuez Canal at the time the work Was in conrse of construction, and consequently had thus acquired ant intimate knowledge of this district, and also that on testinge the gromel at other pmints thereabouts, I foumd salt existing helow a thin covering of sand at heights considerably ahove the sea-level, there is ample wartant for sayins, as 1 have done, that the extensive existence of salt in this form and af such a height caunot be regarded ofherwise than as a proof that the waters of the Red Sea did at one time extend as far morth as the Bitter Lakes ; a speecimen nearly an inch thick is before me as I write.

Further evidence that, at some time antecealent to the formation of the Sumz Canal, the sea extemderl as far up the Isthmus as the Bitter Lakes, is fomme in a remarkahle sample of salt which was cut from the hottom of the bitter Lakes by the engineers of the sure C:anal Complany before the seat was let in to effect the completion of the water commmanieation between the northern and southern sections of the work. This block of salt, to which my attention was directed by M. de lamsps, is pmeserved in the conrtyand aftached to the offices of the Camal Cimpany at Ismaliya ; it is fully 7 feet in height, and, according to M. Voisin Bey, who at the time it was taken out acted as the Comprany's Chief Engineer in Eirypt, salt certainly existed to a still greater depth, but to what precise extent is not known.

I may here mention that whilst passing over the 1,500 (English statute) miles from the Strait of Bahbol-Mameleb to Sum, the water of the Fed Soa is so far dhanged hy exammation that samples taken from the surface at suez have been powed to be nearly 2 parts in 1000 saltor than those at Bab-el-Mamleh. It should be bome in mind, moreover, that an exceptionally great amomo of evapmation would necessarily take place within such a eomparatively shallow inland basin as that of the litter Lakes, hasing its surface swept ly the hot dry air of the Arabian Desert, :and shat in from the Meditemanean by the high latd at serapeom immediately to the north, of at any rate ly the still higher ridge of conntry at EI Guiss. These comlitions wonld olsionsly contribute to the formation of such a remarkable deposit of salt as is found in the specinuen above described.

A peculiar feature in this specimen is the presence of an occasional thin laym of sand, most probahly cansed ruring the prevalence of virlent southerly winds which from time to time raise the sea-level at Suez nearly 3 feet ahove that of an ordnary spring tide in calm weather. The stronig enfrent to the nothward on suchoceasions would be certain to carry a consiburable quantity of samd into the Bitfor Lalkes, sufficient, it may lie assumed, to account for the layers of sand in question.

The facts to which 1 have here called attontion appear to me unquestionally to confirm the view entertained hy Professon Hull. Feeling, with him, that aceording to this view the physical eonditions at the time of the Exodus will be brought into hamon! with the Bible namative, and that the dificenty which has hithertos smmounded the suliject of the praserge of the Ismelites through the Red Sea will thus hase hewn to a great exte removed. I have rentured to semd you the result of my own recent perso observations in the locality in question.

# THE CITY OF DAVID. 

By the Rev. W. N. Birch.

"Nil tam difficile est, quin quærendo investigari possict."-T'er. If. I".
Sio long as knowledge grows from mome to more, will thoughtul writers on Jerusalem from time to time chanse, or at least qualif!, their opinions. Mr. Firguason in 1847 placeel Aerad west of the Temple, hint in 1840) moth of it . surcly, until he reverts to his carliel opinion, no one can failly quote the weight of his name as in favour of the western site, which he has delibebitely abmbonel for more than twenty years. But if a writer is always to hee tiod down to what he has once written, and afterwarls distincty mpuliated, then I must ask ('aptain Guder to submit to his own ruling and to allow me to quate the weight of his own name, in favour of the Ohhel site for the (ity of David, and against his later sfatements, since in (fumbily, sherment, is7, p. 17!), he said, "Thus the City of David, in this case, is Ophel."

Austher eror into which Captain Conder has fallen may also be correcterl, as it bars on the pusition of $Z i m n$, and most readers are weary of arghanents for and mon, and so in aceepting theories are guided solely ly the names of their respective adromatus. In thee Menmoirs ( ${ }^{\circ}$.Jerusalem," 1. 933 ) he says that ", hion has been supprsed by Lewin to be identical with the "prer (ity of Jerusalem." Many will learn with surprise that Lewin Wits a must determined opponent of the commom upinion, that the Cpler ( ity was the site of Zion, and actually accentuated his aversion to such an iblentitication by dubbing the Upper City parmdu-Zion, i.e, the false of spurions Zion. "Afterwats, in 'siege of Jerusalem, 1863,' Lewin holds that the manes 'Zion' and : Le ' City of David' were originally applied to the whate eity of Jerusalem; that the latter was subsequently appropriated by permlar belief to that pention of Ophel where he supposes Davids palare to have stond.' Accondingly, thronghout his book, he speaks of the somth-west quarter of the city as 'now called Zion,' thereby intimating that it had no ancient riyht. th this special designation; and yet, inconsistently enough, the name of Sion is given to it in his plan."

I am obliged to take this extract from "The Psalms of Davil" (hy E. F.), as I canmot myself refer to "The Siege," since the Fund's copy has been indefinitely borrowed. Some rader of these pages perhaps will kindly eorrent me if I misepreant lewin's oninion, who, as it seems to me, never maintaned that Zion was identieal with the Lipper City.

Whoever asmals my theory must inevitably catch a Tartar, for the simple reason that the site I adrocate is the very one appropriated (as many admit) to Zion in the liook of Nehemiah; and Nehemiah (he it rememinerel) himself was chief survegor at Jerusalem and rebuilt its walls, and therefore must have known the fosition of Zion, the City of David, a thomsamd times better than either Josephus or any other writer on Jerusalem from his day to this.

As no one seems disposed to accept my challenge and grapple boldly
with my theory, I suppuse it is time for the to make a sally and expose the utter hollowness of the arguments alleged in favour of the rival sites for Zion, positions well deseriled (to use Lewin's word) as psendo-Zions.

Now the key to the whole question of the true site of Zion consists of two simple facts, viz. :
(A) That the Helnew remsion always describes the Valley of Hinnom as ge-Himom, and the Browk Kidron (on the cast side of Jerusalem) as nachat-Fidron, never onee interchanging the two words ge and mothat.
(B) That in the historial books of the Bible, the City of David is six times called Zion, but never in a single instance Mome Zion, while in the Psalms and Prophets this term is often applied to the Temple. Consistently with this distinction, 1 Maceabres, omitting all mention of Ziom simply, speeaks of the City of David as one place and Moment Zion as anmether, identifying it with the 'Temple or sanctuary.

Through disregarding these reasonahle distinctions, and taking geto be equivalent to nachal, and Zion (the (iity of David) to be the same as Mount Zion, writers have unconscionsly produced such a confusion in Jerusalem topography, that with sonves of books bearing on the sulject, very few persons are aware of the true site of the City of David.

This remarkable distinction between ge and nachul, I must ahd, is no invention of mine devised to prop up my theory. Gesenius long since observed it, Lewin approved of it, Williams "had misgiviugs" in distegarding it, Thrupuand (aptain Conder and ohers haverecognised it ; I merely insist on its rigid application, contident that it is the key to derusalem.

Further, that the City of David is never historically called Moment Zion in the Bible is a peint that any Bible reader may verify for himself. Having got possession of this invaluable key, let me now use it withont fear against all the peento-Zions, and show how untenable and indefensible it makes every one of the varions positions held by the opponents of my theory.

First I will take the site west of the Temple originally proposed (though it resembles Lightfoot's) ly sir (Charles Warren, since with his opinion on many kindred points I am in the closest agreement.

## I. Zion, Soutil and not West of the Temple.

In 1871 sir C. Warren stated in the "Rewovery of Jem alom," that "in the Book of Neluemiah, the (itv of David, the Bonse of Darid, and the Sepulchre of David, all appear to be on the south-castern side of the hill of Ophel, near the Firgin's Fount, and yet such a position for Zion appeans at first sight to be out of the question."

Seven years passed over before I perceived that the apparently contrary evidence, which secmed to Sir C. Warren to make the Ophel position for Zion "out of the question," really was in strict agreement with the evidence of Nehemiah. Seven years more have rolled on since that time, get I regret to have to add that the whole Biblical evidence, which I have from time to time shown to be consistent, and to point to but
one conclusion, still appears to him contradictory, and leads him still to phace Zion, the City of David, on the western side of the Temple, and met on Ophel on its suthern side. When I place Ziom on Ophel, lee admits " it is the mutural position to assign to it on reanding the Pook of Nehemial, only it does not seem to me to accord with the other accounts."

I an verydusirons that Sir C. Warren foom an opponemt shmuld heerme an ally of my theory, by being convincell that this meturel ponsitime is also the true finsition. One important result, I brelieve, wonld bee that a diligent and ( anticipate) a successful search would ssom hee made for the sopulchres of David, and of the Kings of Judah, and the diseovery of these most. interesting and magnificent relies of preesilie Jernsalem would, once and for ever, lay the restless ghost of controversy aloont the position of the City of Daviil, and save me the tronble of femolishing the other pseudo-Zions.

With this olject I would point out two things-
(1) That the weight of Nehemiah's evidence is simply overwhelming.
(2) That his evidence is really in the strictest aceond with all the other accounts except one or two palpably incorrect statements of Josephus.
The Book of Nehenviah (as admitted hy Sir C. Warren) places (1) the Sepulchres of Davill (iii, 16), (2) the Homse of David (xii, 37, and (3) ant (4) the stairs of the City of Darsid (iii, 15 ; xii, 37 ), lnetween the Pool of siloal and the Temple, i.e, on Ophel (son-calleal). It is also to be motent that in harmony with these indiations "the House of the Mighty" (mi Githorim, the technical name of Dreid's bedy-guarl) is further (iii, 16) spoken of as being in this part, i.e., on Ophel.

Here I must ask two questions. In the case of what sacred site does the identification rest upon fuller or hetter evidence than the Bouk of Nehemiah gives in the case of the City of David? If these forur or five consistent statements in Nehemiah can reasomathy be discredited, what identifications can reasmably be helieved? Is it mot far more pmolable that Neheminh's statements are the truth, the whole truth, aud mothing hut the truth, and that the other sacred writems have hern mistunderstend hy Sir C. Warten, ham that the Biblical statements about the City of David are inconsistent and contradictory?

Sir C. Warten ("Ti.mple or Timul," p. 41) thinks it "problable that from the finst the site of the Holy simuldhe was known amonge the Clisistians,
 that the Jews, with far less diflioulties to contend with, never fargot the site of the sopulehre of David, and of the City of David? When sir C? Warren rojects the Ophel site for Zion, it seems to me that he has to suppose that the Jews, in the time of Nehemiah, had actually leecome misled about the frue position of the Tomb and the fonse and the (ity of David, although there hat Ineon mo Ineak whatever in the continuity of their knowlence alout these revered lumalities, for "many of the priest and L evites and chief of the fathers, who were ancient men, that had wen the first honse;" were present when "the fomatation of this (seemal

Tremple i.c.) hense was latid hefore their eyes" (laza iii, 12). Is it pumble that all these hat either forgotten the prosition of the chief sites in "the "ity of their fathers' sepulchase" of else agreed to transfer them to womg positions? Any such ignorance or conspiracy is utterly inconceivable. If it is once admitted that the Bomk of Xehemainh plates the Tomb and the Ilouse and the City of David all on Ophel, then, whatever be the consequences, I see no way of escape from a frank admission that these localities were actually on Ophel.

The position, howerer, held hy Sir I: Waren I umberstand to be this, viz., that strong as is the evilence in Nehemiah in favome of Zion, the ' 'ity of David, having been on (Hhel, newotheless the evikence requiting Zion (o) have been elsewhere secoms to him still stronger and only to be satistied by his site. As in the Athom"m, 18sl, he writes of "The Temple or the Timmb" thus, "I must state emphatically that this lmok is a very serions attempt to seftle the thporiaphy of Jerusatem, and onte that I have ber duuht will be successful," I take that work as setting forth his reasous for placing Zion west of the 'Temple.
let me tist, homever, state certain prints on which I agree with this most candid of opponents. He states in his book-
(a) p. 21: "They (the first book of Maccabees) call the sanctuary Mount Zion."
(b) $9:$ "Zion, . . . the royal sepulchres were also there."
(c) 9, 10: "Zion formed part and was the fortress of Jerusalem. Zion was not synonymous or co-extensive with Jerusalem. We have not a single instance in the historical books of the term Zion, or the City of David, being used for the whole city.
(d) 21, 2.5: "Mis (i.f., Jumphus") whemess in speaking of the tupegraphy of the past . . . greatly in contrast with the precision throughout the historical books (of the Bible) and 1 Maccabees.

It does not appear in any case that he gives any help in the topography " (i.e., of the Jerusalem of the Old Testament).
(e) 13: "There can be little doubt that Zion the stronghold was in Benjamin."
Ilaving thus sumessfully threaded his way throngh what have proved great stumbling hores to many, hir ( : Wrawen semas to me to have heem (ampletily legniled into a wrong comblusion hy thee minconceptions: firat as to (A) and (B) alowe, in reforence the the distinetion hetweon ofe and nombat, and hetween Zion and Monnt Kion ; and next, (C) that the Acra of Josephus was west and not south of the Temple.

Unornscions of his fiss misompeption, Sir C . Warren writes [." Temple (1. Tomb," 1. 3.5) in suppent of his western site thus: "This pration I hate assigned to Zion is the only one whish allows of atoond in the several acoonnts, and is the omly site yet proposed that will rember intelligible the prassage, 'Now after this, he (Manasseh) bmilt a wall without the City of David, on the west side of Gihon in the valley (2 (hiron. xaxiii, 14)." One has only to proint ont that the wom here iembered callen is in the If.brew rision nechet, and at once it will be apparent that this passige,
instead of supportine Sir C. Warren's theory, is divectly opposed to it, and confirms the evidence of Nehemiah. For a wall in the mechat or Kidron Valley, which is on the east side of Jerusalem, could not pussilly he on the eiest side of Jerusalem. While, further, as Gihon literally means a spring, and not a pool, and as the only spring in the Eidron Valley is the Virgin's Fount, a lower wall on the east side of Ophel just west of that Fonnt (ons required by this passage) wonld exa-dy suit the indications of Nehemiah which place the City of David on Ophel.

Even if some sophist could succeed in persuading one that mowhel dows not always in regard to Jepusalem mean the Kidron, still it might fairly be urgell that it was neelless to make the Bible contralictory, by applying to the valley ruming westwards from the Temple a term which mudoubthedly fiten refors to the Kidron, especially when the usual applimation would leave Nehemiah and 2 Chronicles in perfect aceord. So again, in like mamner, 2 Chron. xxxii, 30 , may be as well explained by the Ophell site for the City of David as by one west of the Tomple, while it is probable that if Gihon means (as it must) the Virgin's Fount in xxaiii, 14, it also means the same spring in xxxii, 30 .

One mistake often leads to and confirms another. Cnaware that the nachal (Kidron) could mot lee the ge (Himom), Sir (? Warren drew the boundary between Judah and Benjamin which "went up by the valley of the son of Hinnom" (Josh. xx, 8) from "the Virgin's Fount, up the (Valley of Fimmom) Redron, until nearly opposite the sonth-east angle of the Noble Sanctuary, where it consed over the hill of Moriah at the southern side of the Temple, and thrnce up the Tyropoon Valley to the Jaffa Gate" "Jernsalem Rece," p. 307). As this line quite excludted the Ophel site from Benjamin (see (e) alouve), Sir C. Warren appears to think it unmenssary to diselnss the Ophel site in "The Temple or the Tonll," and accordingly he does not make any allusion to the evidence of Nehemiah. even while he takes the tromble of saying (p. 21), "Akra (ie., Zion) enuld mot have leen sonth of the upmer city as here fixed, and if further to the north than Et-Takiveh, it wonld have been on the other side of the valley," \&c.

Hal he only gone on to deal with the Ophel site, I believe Sir Charles Warren and not I would now be its most resolute defender.

Further, maware of his second miseonception, Sir C. Warren writes ("Temple of Troml)," p. 11): "It womla havdly he necessany to print one that Momnts Zion and Moriah were distinct hills, were it not that of late years they have heen pronounced hy some writers to be identical. In the first phace, for many years after King David captured Jerusalem, Ziwn was a royal city, while Moriah must have been heyond Jerusalem, and was the private property of a sheikh or chieftain of the Jelusites. Then, again, David hat to go up fo Monnt Moriah, which he could not have done had the Iwo heen identival ; then we have the grand cerennmy of hringing up the ark of Ged out of the City of Darit, which is Ziom, up to Mount Moriah."

Howe misconteption as to ( B ) or involuntary confusion letween Zios:
and Mount Zion, makes a monntain of difficulty where everything is really smonth and plain. Only let it he horne in mind that Zion was the Gity of David, and that Mount Zion (the higher part of the ridge noth of Zion) was the site of the Temple- i.e, Mount Moriah-and these three points turn out to be genuine supporters of my theory.

David lived in Zion, the City of David, while Mount Moriah was outside it. Therefore he could go up and the ark could the bronght up "out of the City of David which is Zion" to Monnt Muriah (alias Monnt Zion).

1 have thus shown that the Bihlical passages clained by Sir C? Warren as requiring another site for Zion than that marked out in Xehemiah, are really in the strictest harmony with the evilence of that book. Insteal of there being any "difticulty or dismerpancy" about the Biblical statements, there is nothing lout perfeet coneord among them, as to the pwsition of the City of David.

After this it would only be so much the worse for the credit of Josephus if the third miseonecption (C) that I have attributed to Sir C. Warren could he shown to be no misconception on his part. For what value, in opprosition to the Bible, would belong to the mpinion of a "vague" writer like Jospphus, who "does not appear in any case to give any help" in the topmgraphy of pre-esilic: Jerusalom, but has rather made of it a (fordian knot by a few rash conjectures and inaccurate statements of his own devising? Bare justiee, howerer, to the Jewish historim demank that I should print ont that he nevertheluse places his Acra sowth of th. Temple, so that he also is therely a witness in farour of the Ophel site for Zion, inasmuch as he makes his Acra correspond with the fortress or Acra of the Maccalrees, and this (1 Mrame i. 33 ) mas identical with the City of David. (See Acra south of the 'Temple.)

One or two other puints still remain to be moticed. It is ssid ("Temple or Tomb," P. 12) that "in no single instance in the historical bemks is this (then it was a hely place) said of Zion after the lmitaing of the Temple." This, however, from 2 Chron. viii, 11, seems hardly to be correct, and curiousls emongh this rerse is quoted on p. 6. Yet after the ark had theest taken out of Zion, the City of David, one does not expect to read historically anything implying that it was still there.

Sir C. Warren admits ("Temple or Tomb," P. 18) that no argument as in the prasition of Zion, the City of Dasid, can he derived from the protioal looks, get aftowards he pmints ont that Psalm xlviii may lie an exumpion, and "if so we have direct proof that Zion, the City of David, stood on the north side of the city."

Obvionsly he refens to the words, "Beantiful for situation, the jing if the whole earth, is Momit Zion on the sides of the month, the eity of the great King." Fut, mhappily for his theory, even here it is M/wint Kion (or the Temple), and not Zimi the (ity of Davil, that is said tio he fowards
 pminted out that the Rahhis (though mismenterstend by Libhtiont and Fergusson, in several passages phee Mownt Zion (i:..., the Temple) on the
morth sille uf the city (i.e, of Davii), wi Zion. Therefore Zion was somble of the Temple.

Lastly, if Sir (: Waren should urge ("Temple or Toml," p. 21) that the forcign seldions docomblal from the Aloa (i.e., the (iity of Dasid) to motest the Jews, and that they could not have drasment from the Ophei ste, then the answer is that it is either he himself or Joerphes whe makes them to doscond, since 1 Macealees, the reliable authorits for these times (Which Josephns was mot), squaks rather of a going uf, from the Acra to the Temple (1 Mace. vii, 3:3).

As, thercfore, (1)Sirc: Warren admits that Nehemial in four partichlars phaces the (ity of Ihavid on Ophel, and (2) as it has heen shown that 2 Chron. xxxiii, 14, instead of requiring his western site, makes it impoosithle, and that there was no diflicutty in gring from Zion, the City of Havid, to Moumt Ziom, the site of the Tomple, and that aneonting tu Palm Iviii and the Rabhis, Monut Zion, or the Temple, was on the mom th side of (Zimn) the City of Davit; for it is admitted that I Maealrees gives the name of Momt Zion to the Temple, and identifies the City of David with its Acra ; and (3) as this Acra is identified hy Josephus with his Acra, which he has been shown to place sonth of the Tomple, I mow invite Sir C. Warmen eilher to find some fresh defence fur his premblu-Zion or to ahanton it entirely and ocenpy what he has all along admitted is Nchemialis site, viz, that on Ophel so-called.

I awnit with keen pleasure Sir C. Wamen's atiention th these remarks. homping that he will (if he can) orerthrow my conceit of else beeome the latest and ablest advocate of the Ophed site for Zion. To his memomble exeavations at Jerusalem I am deeply indeloted for my interest in the Holy City. If his woms have cuableal ine, as a dwarf on a giant's shouldens. (1) the one solitary puint of the true site of $Z \mathrm{im}$, to see at fresent sumbeWhat further than he has done, I cheerfully own my ohligation to such an instructor.

Mat gladly, tom, shall 1 turn chameleon ami change from a hasty critic (1) a patient spectater, whenewr an omtbust of enthusiasm for discovering the hidden catacomis of David semis forth a treasure-laten hand if exphoress to reatme his then long sulpended wonk of disunvery. In this ase whom would the neen of Sitwhan ". le usalem Pece." 1. 213, nure caterls hatil in their natise tomgue as a guide through the latyrinthine sepmbletes of Ophel, than the well-known Monitom Niloticus (gientorly statement, 1871, p. 86) of the Philistian plain?

Meanwhile, if any one in the ahsone of our gubtrim in Africal thinks that I gn in fir aserrim rather than for argument, let him nut fail at once ruthlessly (and if he likes anonymously) to expose the fallacies of my fancied reasoning.

Perish my theory if it be false ; lut if it is true, then the very next thing is to sorath for the spouldires of David, so that some formmate explurer mas telegraph to Mr. Besatht almost in the rery words of Casar, "Veni, vidi, vici."

W. F. Binch.

P.S:-I see that at the Carlisle Church Congress, Conom Tristram practioally aceepted my challenge and attacked the Ophel site for Zion in the following words:-
"Still less does it seem to me possible to conceive that the City of David, the fortress, was on Ophel, dominated by the higher rook of Moriah behind, and with the commanding brow of the molern (ity of David (1) the west. Tonany one acequainted with the stratecic sites of ancient. fortresses, the hypothesis is simply impossible. What beeomes of the wall of Ophel excavated by Sir C. Warren, and which is referred to in Kings and Chronicles as the work of Manasseh? And again, there is no question as to the Jerusalem of the period of the return. We raad the minute details of Neheniah, and no ingenuity can square his deseription of the circuit with the suggested position of the City of David."

Now it is remarkable that not men of war, like Sir C. Warren and Captain Comler, but Conom Tristram, like myself, a man of peamens shomb the the first to mge that, from a military print of view, it is impussible that the City of David, a fortress, ever stood on Ophel.

In "Jerusalem Recovered," Sir C. Warren observes that there is a wocky kmoll on the Ophel ridge higher than the gromen immediately north of it. This knoll he marks at 2,290 feet ( p . 205. If the ancient fortress of the Jebusites reached nonthward as far as this knoll, and was fortitie? here hy a wall 50 feet high, then according to his plan of the rock levels it would not be dominated hy any print on the Moriah ridge, or on the western hill (the modern sion), within a distance of 400 feed. Lut at that distance, against taulls hatilt of mosoh, what would even Arish's how have availed, though it was seputed to have carried between 400 and 500 miles ?

If in the arge of the twelse spies, the cities of (Gmann were "walled up, to heaven," why might not the castle of Zion, 400 yeas: after, he fortitied in its weakest print lyy a wall so feet high? And how then, I would ask, does Canon Tristram propuse with a sling and a stone, we even with a Gong bow, in the absence of catapults, to eapture a fortress not dominated within a range of 400 feet? Secomelly, as the Ophel wall discovered hy Sir C. Warren is at lenst 200 feet north of the knoll (the assumed northern point of the Cily of David), the date of its constraction has nothing to do with David's Zion.

Thirdly, "the minute details of Nelemialn "place (and are admitted by Sir C. Warten to appear to place) the (ity of David soldy on (Ophel. 1 am glad to see every form of objection urgel against (pphed (so called) being the site of the City of Davil, since, as the feehtemess of carch objeotion is expmsel, it will gradually dawn on one and another upponent that Nehemialis site is hoth true and reasonable. One mique and invaluahle alvantage that this site prossessed I may here name in passing, viz, that l.y means of a secret passage ("iir C. Warren's shaft, or the "Gutter," 2 Sam. v, 8) the defemters of Ziom had at their serviee an inexhaustille supply of water from the Virgin's Fount.

If now the orponents of the eastern hill unce more fall batk from
arguments on mentes they will he worse off than exer，since（ienema （imedon（＂Reflections in Palest ine，＂p．14）observed，＂The Hehrew＇tzion＇ is always the eastern hill．＂It will take a few bushels of names to out－ weigh that of the noble hero of Khartoum．

## NOTES BY THE REV．G．H．TOMKINS．

## I．

## SUG（ELSTED IDENTIETCATION OF BEROTEAB OR BEROTHAI．

Tris place，so important on the northern fromtier of Palestine，has never yet been fixed．The name B－rothah，円תフาユ，is muly given by Ezakiel （x｜vii， 16 ）in setting ont the houndaries of the tribes．I do not doukt
 ．ity of Hadlatezer，King of Zobah，taken from him by David．I hope to show that this place may mow be identifiel in a very interesting way， both ly its name and by its probable position，and I will take the mater as it eame to me，mly premising that if 1 an wrong in scparate points still my main position may hold good．

In the Kamak List of Northern Syrian towns mate hilmary hy Thothmes III（Mariette，＂Karnak，＂pl．19，20，21）oecurs Bur－su（141）． In＂Proc．Sofe．Bib．Arch．，＂Jan．Sth，1553，I made a guess at its being possibly the Bisurn of Assurnazirpal（mw Tell Basher），hut this did not satisfy the，and it ocenred to my mind that the explanation might be found in the semitic word for eypress，on perhapspine－tree，viz．，Assyr．
 burasi and burati；Syr．vers．berutha；Chald．berath．

Now the Burse of Thothmes is very rlose to the Assyrian burishin． allowing for the Syrian s instead of sh，which the Ratemm，lords of the laml in the time of Thothmes，would use．Burasm and the Eggptain transcript Bur－sn are one word，and this led me to the comery of conifer－ ous trees，and to the name B－rothah in the Bible．

It has beensuppend that the B－rothah of Ezekiel is lement，lut I think this quite inalmisabite from the situation of Beirnt，and alson from thre name，which seems muwh more likely to be Heh．תוֹNב，wells；and lere I think Egyptian remods will help us．For we have a beeroth in the Palestine Tist of Kamak，No．19，Burth，sin reeognisel both by Maricteand by Maspero（Zt．，1841，p．123）．And ngain，we have Beirot in the Mohars travels，Binilla（Brugach，＂Geog．Inscht．，＂rol．ii，42：P＇ierret， ＂Voe．，＂ 1 p .121 .126 ）．And these names diffor from Bur－su as Beeroth，
 lizkiel，and b－riohi in 2 Som．viii， 8 ，which might well he near Riblah， lut coult an he B－irtt，a place of the Phonicians who were friends and close allies of David．

But I am anticipating. In the very interesting letter of M. (lemmont-
 of Whats lirissa struck me in comection with the rock-inseriptions of Neburhadmezzar foum theme ly M. Pugnon, who thinks "hat these texts mark the site of a timber-yard where trees were cut to be sent to Balylom." Now this seems to me to cohere with all the evidence, as I will try to show.

The name of the widly, "one of the wildest valleys on the eastern slope of Lehmon, about two homs from Hemmel," appears also as the natme of a plate, Brise, in the heautiful Carte du Jitmen of the French Imperial Govemment, at the mouth of the wady, down which a stream is marked as flowing to the Orontes. Brisu seems to declare the ront B-R-S, which in sarions monditations signities to cut (including B-R-TE), and this is the key to the names given above as designating the eypreme, or pine, which was regarded as timber for hewing.

Now in Syriac: names habitually end in the rowel $a$, and (as we have said) take the somm of s rather than of sh. And I think Litise mas well be so called from the tree in question, which Mr . Carruthers, of the British Museun, takes to he the J'inus Mulymensis ("Bible Elluc.," is, :359); and it may well be this tree which the compuered people of the lathanom are repmesented as folling for seni 1 , that he might build a great ship, and rear their stately stoms as masts for the bright streamers in front of inis temples.

We know that Thothmes III led his armies to the Lebanon, and thence drew the tribute that phased him. The shipis of Phoni-ia wewe larlen with sticks of timber and masts, together with long priles of wool for [the dwellings of ] the king, who hat foumded in the eonutry of Leblanon a fortress of musual strength, mamed after himself, near the Phomician citios of Aradus and Simymat the foot of Lehanon (Innesche, "Hist.," vol. i, pp. 334, 336).

The great valley of Cole-Syria, the course of the Orontes, the new walls and towers of Kalesh, were well known to this hanly wartion-king. And I know not why the name Bursu should not have marked the place in his time, where Nebuchadnezzar gathered his stores of pineimbler so long afterwards, and which is now known by the nane of lirisir.

Posilhy another name, hard ly Briwa, may illustrate this suppsition. In the Corte da Libun I find on the other side of Hermel a place marked Erénich.
 meours in Isaiah xliv, 14. May not Erénich be named from erin, as Briat from B-rôsh?

I will now endeavour to prove that Brisa is a very likely site for Berôthah, taking that place also as the B-rôthi of Samuel.

1t was one of the cities of Hadalezer, King of Zobah, whom Ibvil defeated towards Hamath, where an intrusive Hittite king. Toii, was at whe with Hadadezer (see sayce, "Fresh Light from the Monument:." 1. 163.) It is not surprising that Hadablear, who had subjugated the
minor "kings of Zohah" whom Situl had heaten, should hohd lordaip" over the upper course of the Orontes.

And, as far as we know, Brisa will suit Ezekiel's bommlary right well. Unfortunately "the way of Khethlon" is not known. May Heit, west of Riblah, be khethon? It is on the way from "the great sea" to Zedarl, i.e., Sudud (E\%ek. xlvii, 16). I think this description may be partly cleared as follows: "from the great sea the way of Khethlon luwamls the entrance to Zodad-Hamath [or Zedad of Hamath]; Bemothah, Sibrim (which is on the fromtier of Dimascus and Hamath); the midhle khatser (which is on the frontier of Khamau); and the frontiog from the west Khatser-Aintu the frontier of Damascus, and Zephon |the Orontes. as Captain Comber sugerests] nomhwarls, and the fromtier of Hamath." The septuagint, which is very confused, seems to read Zoulad-Hamath as one name transposed, viz., Hemasehlam. If we take it as meanins Zedal of Hamath the diflioulty of gefting Hanmath into the fromter-list disappears ; and then all will gen consistemlly. Fon we thus cut out the Phonician territory, including the Lebancon, ly a line following the opening of the Nahr el Kelhir to a little south of the Bahrel Kables, thens striking the Orontes near. Heruel, and perhapes making its south-eatat
 warls to the north of Jemmon wntil it finds the sea again. This will not take the frontier to Zedad, but to the entance ( $\$ 7 \geq$ ) , "as men gu to Zedad" (A.V.), or, as the Vulgate puts it, "a mari magno via Hethalon, venientibus Sedada."

Then Khatser-aintem, if it be at ' A in $\cdot 1 \mathrm{~A} \mathrm{~s}$, as Captain Comder sumbests, would be quite in the line following the higher waters of the chontes (Zephon), and he says that it is "close to the present north-west limit of the Damascus district."

But the situation of Berothal seems to be nearly settled by one Bihlical coimeidence. The place called Bumthai in 2, Sam. viii is deaignated Kons, g2, evilently the Comat of the Antonime: Itinerary, in the parallel text of 1 Chron. xviii, 8.

This has been set by Porter and the Cintedn Lithen at lias Babalbek: but the thinty-two limman miles given from Heliopulis will overtath
 But this distance will very nearly bring us to Brisa, which may surdy well be B-rothah and Kôn.

If indeed the Brisa of the roek-inscriptions of Nebuchathezzar were the Bursu of Thothmes, and the Biblical Berohta, it would he a weattly place, and Davin might well have taken "exteating much haras" thence. Ame this womld hing David's nom hem limit rery near to the lamd of the Hittites and to Kitulesh, as the recond of his cemsus shows in 2 Sam. xxiv, 6 .
P.B.-I think it a very interesting thing that in the Karnak List of Northem Sydia, No. 246 , is found the name Lehm, which must, I think, Le Lebuch on the roml half-way between Eatalbek and Drisa, whinis
"modern name is sometimes promoneed Lenu," says Captain Burton. "It is the Lytoo or Lyton of the Antonine Itinerary." "Dnexpl. Syria," vol. i, 64) [? Libo].

## II.

## THE UUL OF THE ASSIRIAN ANNALA' IN THE BIBLE.

Thes land of Que, mentioned ly Asyrian kings in their remods of conquest, was the plain of Cilicia.

In the last work which, still ineomplete, left the hand of the lamented Fr. Lemomant ("Les Origines de l'目istoire," vol. iii, p. !), he has pminted ont the interesting fact that this land is mentioned in 1 Kings $x$, 25 , and 2 Chron. i, 16, where the word translated in A.V. "linenyarn" has su ferplexed the interpreters. Jerome has given the trme sense: "Ami luorats were brought to solomon from Eeryt and from Con, for the king's merchants bonght them from (ions and brought then at a settled price:" and similaty in the parallel passace. In the Hehew it is mpe whe. and it is to he noticed that "all the kings of the Hittites" must inclute the King of Quê, as indeed we know.

In the segulugint the name is given as Thěkoně, Өcкочe, but I think this was cansed by the Egyptian prefix T"a, meaning "the land," which might be familiar to the Alexandrian Jewish scholars.

This is an excollent instance of the light to be gained from Assyria for the explanation of the Bible. The name Que also oecurs in Egyptian reoorls in the compusite persomal name of Kani-sar, a Bittite onficer in Esypt.

## III.

## LUZ IN THE LAND OF THE HITTITES.

Caprais Cosmer thinks that the laz lmilt by the man who betrayed Bethel (Liza), as recorded in the Book of Judges (i, 22-2li), may be the present Laweizeh, near Bâniâs.

But if a more remote and nomtherly part of the "land of the Hittites" is to be preferred, it may be worth notice that in Rey's map a place called Qall, Lonze is marked between Aleppor and Antioch, in the middle of the Hittite region.

## IV.

## THE NAME BETH-LEHEM.

The ordinary meaning given to the name Beth-lekhem is "house of bread," the molern name heing hardly different at hottom, viz, "house of flesh" in Arabic, since the root anh, to eat, is only varied in application, as we now restrict the old general word "meat" to flesh-meat.

But I have long suspected that Beth-lekhem was onfgimally a saced place of the Lakhmu of whon we read in the Chathean cosmmentyy (G. Smith, "Chathean (ienesis," by Sayce, 58, 60, \&c). Lakhmu and his female connterpart. Lakhamu seem to have heen deities of fertility.

There is another Bethlehem (of Zebulon), equally called Beit Lahm. an old eity of the Canaanites (Jorh. xix, 15), "in the midst of an wak forest," says Dr. Porter (Murray, 370), a better place for a sanctuary of Lakhmu than for a "house of bread."

I think this Lakhmu will alon aceom for the name of "Lakhmi, the brother of Goliath the (iittite, whose spear-staff was like a weaver's heam" ( 1 (hrom. xx, 5), and vindicate the text of the pamage in the Chronicles in preference to that in 2 Sam. xxi, 19, which is otherwise douhtful. This devotee of Lakhmu would well match the smo of Ahak devoted io Saph (Siaphi) "of the sons of Rapha" in the verse lefore (Siee my paper on "Biblical Proper Names," Trans. Vict. Inst., 1882.)

Perhaps Lakhmam, or Lakhmas, may be similarly mamed. It is supposed to be the present El Lahm, very near Beit Jibrin. "The situation appears satisfactory. The site is ancient " (Qumertly stutomot. 1881, P. 53). This lrings us to the very hamut of the sons of the giant. "the house of the giants." "We still find the neighlmurhond of this town [Beit Jibrin] producing an exceptionally tall and fine race of peasants. greater and more stalwart men than those to be found in any ot her part of the comitry." So wrote the late Professor E. H. Palmer ("Jewish Nation," p. 58). Captain Conder speaks of the "gigantic sheikh" of this place ("Tent Life," mol. ii, p. 153). Indeed this Lahm might well be the home of "Lakhmi the brother of Goliath the Gittite," and Gath is only I welve miles off: That the ofd heathen significance of Lakhmus should resole itself into "bread," and the proper name Lakhmi berome mintelligible to the Jews, would be only characteristic of the purification that so signally swept Western Palestine of the momments of its pristine idolaters, of which, however, the quaint memorials linger in occult forms of names and old-world folk-lore of the fellatin, as M. Clermont-(iammean and Captain Conder and others have disclosed.

## V

ZOBATH, ARAM-ZOBATH, HAMATH-ZOBAH.

Zoban has, I think, never yet been identified, unless, indeed, liy the lamented George Smith in his last explorations from Aleppo.

Dr. Friedrich Delitsch, in his work "Wo lag das Paradies?" p. 2eG6, gives most interesting extracts from George Smithis last pencil notes, in which he wrote: "(April) 6 (1876): 2.30 P.m. to 6.30 P.m. on to Stira. $-7: 6.15$ to 3.30 . Kamassar, at comer of lake hoilding of basalt, road through hills, large city by lake. Greek inscriptions and remains, remains of large camp, near city-earth inclosure- $8: 3$ hours past end of hills to Zolmat or Zilat 4 miles 'romad extensive ruins. Many Greek inseriptions, nothing earlier, tombs on hills.-9: 8 homs to Meakeneh, (Tipsah.)"

Now the name Zobat would agree with the Assyrian form of the name Zubitn, on Zuhntu: and the place, more than a quarter of the was from Aleppo to Palmyra, would surely suit well enough for Zobah. Professor sayce considess Pethor, at the ontlet of the siajur into the Euphrates, to have been in Aram-Zobah, and says: "The territory Zobah, which extemted into the desert towards Palmyra, adjoined AramRehob, and Aram-Mathah (2 Sim. x. 6). A rau-Mathahagain homdered on Geshur "in Aram" (2 Sam. xv, 8 ; iii, 3) ; and both formed parts of the territory allotied to Manasmeh (oloah. xiii, 11, 13). Howerer, Rehow and part of Zolvah alone are indultol under the name of Aroma or Aram in the Assyrian inscriptions, which place them on the west of the Euphrates, somblhame of Pethor and the R. Sajne" (Queen's Pr. Bithle Supp., p. 69).

Is it not possible that the Thh of 2 Sam. $x$, 6 , whence the Ammonites hired Aranneans against David (with the wartiors of Zoblall, lietli-rehok, and Máakah) may lie fonul at Tariyilueh (marked Ty ba in ancient maps), between Pahnyra and Thaywens, and that Rehoh may he Ruheibeh, north-east of Damasons, on the wha ronte to Palmyra by Cieruda (Porter,
 be the same as the nonthern limit of the reommaissane of Joshma's spins. The name is frequent.
" Maachah," seys Canou Tristram, "lay east of Argeht, (Deut. iii, 14), and east of Bashan (Josh. xii, 5)."

As for Khamath-Zulah, may not this he explained as the urem heethis near Kanasir in the land of Zoboh (תْ2T. The same in Helnew without points as khammath, viz.. the present Hamman ("Inexpl. Syria," vol. ii. 180), just as at Tiherins the Khammath of Josh. six, 3.5, mow Hammâm Tabaríya?
P.S.-Is it possible that the name Ma'akah may in altered shape survive in the Tell Umm Mazah, visited lyy Burtm and Drake, hortheast of the Lejah ? ("Unexpl. Syria," vol. i, p. 231.)

## EXPLORATION LN THE DELTA OF EGYPT.

Bretie Rev. H. G. Tominins.

Is the Quartory, Sowement for Jannary, 1584 , some aceonnt was given of the important work of M. Naville for the Eegy. Explomation Fomel in the Wady Tumilat, ie, the valley of the Sweet-water Camal. Since the memorable discovery at Tell el Maskhutah much has been done at Sinn ly Mr. Flinders Petrie; and just now the sulmecribers to the Eggpt Fund have receivel M. Naville's Memoir on "The Store-Gity of Pithom, and the Ronte of the Expmlus." Of this I will first write something, and hope in a later number of the quartmoly to give a short account of the last year's work, and of that now in hand.
MI. Navilles Memoir is hamlsomely got up, and contains thirtern phates and 1 wn maps. The plates are photugraphic, and represent the statue of the weoroter and the sculptured hawk, hoth in the British Muserum by the gift. of 日. B. the Khedive to the Committee, and of the Commitice to the Muscum. The plates give the inseriptions foum los M. Naville. In these the name of the nome is given, that of the district, and that of the "store-rity." The nome is $\frac{5 \pi y y}{4}$, the shl mone of Lower



With regand to the equisalence of $\rightleftharpoons$ aml $\square$ the instances given hy
 ans M. Narille, p. 6: "The letter $\leftrightharpoons$ which was pronomenced th is uften franseribed in Greek and Coptic loy $\sigma$, and in Helrew ly g. The name
 this assertion, which is compormated by the spolling of many common: names. I need mot dwell on this philologicaldemonstration, which seems to me quite conclusive."

Fet a writer in the - themornm of Felmuary 14, 1.48.5, has the hardiheowl to pronomece that "the philolagy that can ilentify the Ondiut of the hiero. glyphics with the תספּ of Exodus xii, 37, is worthless. ${ }^{2}$

The "store-city" is called by the name of its sanctuary, spelt both

 and the tutelary god of the place is identified by varions and eonclusive

[^3]pronfs hesides. In the themtache limme, March 1854, p, 35s, Brugech gives his adherence to M. Naville's conclusion in most undouhting language.

I have alrearly pointed ont in the Quorterly stutoment for January, 1s84, how singularly the structures diselused at Tell el Maskhutah, even in minute details, tell their own tale and hear out the preecese and unusual partioulas of the story in the book of Exulus with regrard to bricks, and straw, and reed, and the shom supply, and the "hard bondage in mortar." It will not be doubted, I believe, by those who weigh the manifuld monumental evidence, that we have there the store-city Pitum, built by the enthralled children of Israel.

It is in the large and important tablet of Polemy Philadelphas that we get some must interesting ches to further geocraphical discoveries.

The most curions is the meution of a place, with a sanctuary of ()siris,
 have been "the second sathetuary of Elemijmolis, at a short distance from Pi-Tum, hat nearer the sea." He compares the name with the Pi-lla-

 Hakhimth; LAX, Eiöt. The name itself seems to be, thewfore. Firyptian, expmessed in Hebrew תフワT. 'This would, I think, conver the sombld of $\Delta \& \rightarrow$ well enongh. (omsitering the determinative (a stepent), may we not conpme \& sphere" (Pierret. Vocab., p. 372) ?

The asoertained prsition of Pi-tum and the imli"ation of "Pihakhiroti" of Exolus put us on the sure line of mardh of the lsraelites. I would recommend students of these questions to read the new edition (just rut) of the very able and important work of the Alobe Vigouroux, "La bihle ef les I hemomtes Monlernes," $4^{\text {me }}$ en ${ }^{n}$. Paris. Perche et Tralin, Tome II.

In a future Quarterly Statement I hope to return to some detailed points of gengraply of the eastern part of the Delta. Meanwhile it is most satisfactory to know that M. Naville has undertaken excavations at an important perint near Fakiss in the heart of the lame of (inshen.

In the great ruined and deserted capital of the Ihelta, Zoan, Tanis, siun, Mr. Flimters Petrie has entered on a contse of thomugh examination in his methorlical and perfect style. It must the rememhered that he has done much valuahle service, which scholars will appreciate, in promeering ; having sifted the first tentative suggestions in tery many places, and ascertained at what spots work will be worth the cont. All this is of reey high practical importance, besides the actual results, of which I hope to spoak in the next Quarterly statement, with ressud both to hiblical and to classic antiquity.

The lies. W. ( 1 Winslow, of Boston, the Hon. Treasurer for America, is dosing most active and sucessful work ; and with regard to support at home it is esperially to be noted with much plessume that the Mellenie Society has given an earnest of approval and practical intereat by a
donation towards the cost of excavations at the spot where Mr. Flimems Petrie has, in all probahility, hit upon the ancient Nameratis, the one Greek colmy of later Pharaonic times. The Hellenists will revel in the spoils of this mine of early (ireck art, while the Biblicists will await the certainly impertant tidings of further exploration in Goshen and the "Field of Zoan."

## THE SITE OF EMMAUS.

By tife Rev. P. Mearns.

Tue interesting narrative of our Lart's journey to Emmans, with two of His disciples, on the day of His resurrectiom, has cansed much attention to he given to the question as to the site of the village; but, until recently, nowhing satisfartory had been sugsested in the way of identifying the site. Mrs. Fimn's identification of Emmaus with Urtas, in the valley of Ethan, near Bethlehem, has leen received with much appmoval, as it well deserves (1) be. But certain objections bave heen urged against this discovery by writers who have paid some attention to the subject, and such ohjections onght to be carefully weighed. One thing secms to me certain, howeser, that if Urtas be rejected the site is still entirely unknown.

Two writers, who both held theories of their own, have stated oljootions, in the (querterly stutement for October last, to Mrs. Fimis discovery. It has been remarked by a shrewd olserver of men and manners, that when a man has made a spreech in farour of an opinion he is not likely th change it, even after he finds strong enjections stated against it ; but, if hee has written a hook in its advocacy, there is molonger any hope of his abandoning it. Mrs. Finn's critics naturally wish credit for previonsly expressed views ; but oflows will he careful to wrigh the evidence on both sides. The two objentors to Mrs. Finn are not themselves agreed; and, whatever may be said of her discoverg, I think we must throw their theories overlanal ; for they do mot seem to me to meet the requirements of the case. It appeared to the at first, as it doess still, that none of the sites recently discoremed in Palestine have been supported by evidence move conclusive than that pronlued by Mrs. Finn in favour of Urtas as the true Emmaus.

Mr. Benderson says-"At the risk of being classed annong eavillers I venture to give reasons for entirely dissenting from the propensed identificanion." He refers to Lightfoot, "who proposed to identify Ethan with Enmans, not only anticipating Mrs. Fim's propossal, but giving anothes. and tus the thinks) mone plausible support for it than she has done." This remark is curions, especially as following his strong dissent. It cannot mean, that because the learned Lightfoot went to the valley of Ethram for the site of Emmans, Mr. Henderson "entirely dissents from" the propusal of Mrs. Fimm to go to the same valley for the same purpure.

Perlaps he merely meant to refuse the eredit of the disenvery to Mis. Finn because Lightfoot made a remark somewhat in the same direction. He thinks that Lightfoot anticipated Mrs. Fim's proposal, and gave more plausible support for it ; and we almost expect him to add, therefore I yield to Dr. Lightfont rather than to Mrs. Finn. Any one who has read Lightfoot's remark will see that it is feeble compared with the condusive evidence adduced hy Mrs. Fimn ; hut we acept the identification with equal readiness, whether it is made ly Lishtfont or Finn.

Mr. Henderson begins his objections thas:- "There is mo evidence to show that 'the hath' Mrs. Finn writes of is of the age shee assumesthat is, was old enough, not to say important enough, to give its name th a place known to Lake and onsephans." The realer is apt to suppuse from this remark, that Mrs. Fimn hat incidentally foumd a bath amomes the ruins at Cras, and at once infored that it was old enongh to hate given the name of Emmats to the place hefore the days of Luke and Josephas; but, on tuming to her paper in the (martorly statement for January, 1883, he will tind that she has mot sad anything like this. After a personal examination of all the places, within $7 \frac{1}{2}$ miles of Terusalem, that had been or might he propoded as the site of Emmans, Whe fixed on Urtas as the only one that met the repuirements of the narratives of Luke and Josephus. Her conclusion was not hasty, hut was reached after a prolonged investigation of ten years. The ruined buildings had heen conceated by 20 inches of soil; Lut she said that diggings might bring the buildings and the baths to light. "Several vears passed before funds for making excavations were fortheoming :" hut at length excarations were made, and both the buldings and the baths were found. Mrs. Finn thinks that there is reason to believe that baths had heen used here in ancient times from the days of Solumon. It is a caricature of her remarkahle discovery, to say that she foumd one bath. and concluded that it was old emough to have given name to the place.

Mr. Hemlerson's second objection is, that " the existence of a hath, of baths, in a valley down which flows aboundance of water is mot. primet fiecie, a thing so special as to explain the distinctive name of a village." He does not say that the excavations carried out under the direction of Mr. Cyril Graham and Mrs. Finn hrought several haths to light ; hut Be slips in the words "or baths" to cover the whole. The reader who fails to turn to Mrs. Finns paper will form a very incomed idea of hey discovery from the representations of Mr. Hentenson. The local name of Urtas is Hamman, which like Emmans signifies haths; and a rock there has the name Leget al Hammam, that is, "the promontory of the haths." Here was abundance of water, and haths, and the very narne Enmans in its local form. But Mr. Henderson thinks that "if every place is to he. recognised as a possible Emmaus where the name 'Hammam' is fouml. we shall have plenty to choose from." It is not a "possible Emmans" that is wanted, hut one $5 \frac{1}{2}$ miles from Jernsalem, with the other necessary wquirements, and, if we give up Urtain, instead of many places to chomse from, there is not one left.

Mre. Menderson's of her oljections are equally trilling. Jerome lorked away from Urtas, which was near Bethlehem, where he was living, to Nimpolis, which was far away, as the Emmans of Lake. Mr. Henderson rejects Jerome's opiniom, for this Christian Father favours Nicopolis; hut. he tries to get an argument against Mrs. Fimm from his very silence. He appeals also to the silence of Meshnllam, who is now dead; but how does he know what Meshullam had heard of Emmaus or Hamman? As M. Meshullam and Mrs. Finn were jointecultivators of the ground at Trtis, it is likely that she had told him all she knew ahout the name, and probahly he knew of it hefore her, as he had lived for years on the spot. Mr. Henderson thinks that Lirtas refers to the old gardens of solomen : and that it was an older mone than Emmans; but he has mot produced a particle of evidence for this opiniom. Mrs. Fimis explanation is much preferable-that the Ronan soldiers, who were settled there after the destruction of Jerusalem, changed the name from Emmaus to Hortus, the Latin name for garden ; and that the natives corrupted this name into Urtâs.

Mr. Eenderson is favourable to the claims of Kubeibel, for which plaee not much can be suid, exeept that it is alout the proper distance from lerusalem, which might be said of many other places equi-distant with it. The Crusalers fixed on it ; but their opinion does net count for much. In publishing an aceount of my journey in Palestine in 1851, from Jopm in Jernsalem, I had necasion to remark-"It is a pity we ean aske mo more than probability for Kubeibeh" as the site of Emmans. 1 comld get no reliable information regarding the site. Since the pmblication of Mrs. Finn's discorery, in 1883, there is no longer a prohalility in favour of Kubeiheh. Mrs. Finn was aware of its claims: but, after a persmal inspection, she concluded that neither there, nom anywhere clse at the distance of it miles from Jerusalem, is there a sufficient supply of water for the hathe of Enmans. Professor Rohinson says, that it was only in the begiming of the fourteenth century, when traces began to appear of the "idea which fixed an Emmans at Kubeibeh: a transfer of which there is no carlier vestige, and for which there was no possihte gromul, excopt to find an Ermmans at about sixty stadia from the Holy City."

Mr. Henterson is not strongly in favour of Kuleibeh-he gives his reaters a chuice of it, or Khamasa on the other side of Jerusalem: he is only strongly against Urthe, the true site. He was formerly an advoente of Khamasa, lut the distance of ten mites from the city appears to have cooled him; although he retains the name, in the face of this formidable objection, so far as to offer his readers a chorice hetween Khamesa and Kuleibeh. Lientenant Conder's objection to Khamasa is unanswerable"The distance of Khamasa is $8 \frac{1}{2}$ English miles (some seventy stadia) in a straight line, and 10 hes rond "( (quartarly statonent for 1881, p. 2:-4). Mr. Hendeoson reserves a right to offer a choice of Khamasa after it has heen given up liy everybody else who has given attention to the suljeet.

The second letter is rery incorvectly printed. I therefore avoid
referring to what may be only typographical errors. Thut the letter is more distinguished ly confidence than caution. Mr. Kemion begins by saying: "Mrs. Fimm's case rests on a mistaken inference from the words of Josephus ahont the Galilee Emmans." He ought to have been very sure of his ground before writing down so sweepring a condemnation of so) esteemed a writer as Mrs. Finn. She is not likely to have rested her whole case "on a mistaken inforence." On examination it will he fonnd that Mr: Kennion is mistaken, and not Mrs. Finn. He says that Josephus interprets the name Emmans "to mean fion hier cied hot wells. But he certainly does not intend it to be understond that the name Emmans always has that meaning." But Josephus, in fact, dons now interper the name Emmans to mean, either for the occasion referted to or any ohter, " hot wells." The word he uses is $\theta \in \rho \mu a$, warm baths, referring to the gentle heat of haths. But if the had meant hot springs he would have used the feminine, Oeppuc. Josephus says, that the meaning of a warm bath was particulaty applicable to the Tiberian Ennmans; for in it was a spring of warm water, to supply the bath, and useful for healing. The historian distinctly says, that the name always prints to a warm hath. The Helrew Hammath also signifies "wame haths." rather than hot springs, as Dr. Tregelles remarks under the word in his edition of Gescnins. At Emmans Nicopolis there was a healing frumain, and the haths supplied liy it gave name to the phace. Neither at Niempulis now Urtâs is there a hot spring now, whatever there may have been in the days of the Bible; hut Mrs. Finn thinks that the name might be given to a place famons for its bathe artificially heated. Mr. Kemmion asmens that there is "no ground for the assumption with which Mrs. Fimn sets out, that the interpretation given by Josephus to the Galilee Emmans is to lee extendel, or has any applieation to any other Emmans." But the truth is, that Josephus records the fact that the name was applied to three places-Tiherias, Xierpmlis, and the village $7 \frac{1}{2}$ miles from Jerusalem; and he intimates no limitation of the general meanings he assigns to the word.

Mr. Kemuion gives a much letter acenunt of Mrs. Finns diseovery than Mr. Henderson does. He says:-"The copions fountain in the Lirtis valley attracted her aftention, as leing sufficient to supply hathos The recollection of once visible traces of baths still existed in the neighbourhood: search is made: remains of extensive and luxurious haths are brought to light, dating very pmbahly from the days of Herod the Great : and Mrs. Finn concludes that she has fomm Eimmans." We almost expect him to add, as he might well have done, I agree with her, and accept this as a highly interesting and important disoovery. It is therefore disappointing to find him ahding, "I sulmit that, juat as every Emmans was not a Hamath, on hat spring, sm every discovery of Hamman, or lathes, is mot the discowery of an Eimmans. That there were Hammann at Urtâs Mrs. Finn has diseovered as a veritable and interesting fact. But that the village itself, or the district, was ever known by the name of Emmans, or eren of Ilammim.

Mrs. Fim has not advanced a fragment of evidence." I have already shown that Emmans is neser a hot spring, but a hot bath, and that the three places to which, aceording to Josephns, the name was applied had all a spring for the supply of baths, and that Mrs. Finn found the local name for Emmaus at Urtas. We do not speak of "a fragment of evidence" merels, but we say that the chain of evidence in faveur of Urtâs is complete, not one link being wanting.

Mrs. Fim remarkel in her paper that Emmans had heen "chosen for a Roman settlement of military colonists, 800 strong;" and she added that "Csear ordered the lands of Julaa to be put up for sale, ull but ome prume. Whith he reserved fur 800 men, whom he had dismissed from his army-which he gave them for hahitation." She thought it "not likely" that Koloniwh would have been chosen for the Emmans s-rtlement; "for it would have heen alugether useless on the western sile as a cheeck on the eastern fortress of Masada, or on the momentain distriet in general, heing two much off the upper platean of Eighlands." Mr. Kemnion objects that "the colonisation referred to was in no arnse what she calls it, militury. It was a grant of land to 800 distumend veterans, fur their resilemee aml possession." Enintentionally no domb, lint mot the less really, does the here misrepresent Mrs. Fim. He doues noot quate her words, but he convers the impression that, aceonding to her, the goo soldiers lelonged still to the regular army, and that they were stationed at Emmans solely for defensive purposes. But she callod the comprany military only becanse it consisted of sondiers dismissed from the army; and they would require some fortification to defend themselves from the sublion attacks of neighbours in those times of war and confusion. Their rery presence would be a protection against incursions from the cast side of the Jordan. Mr. Kemion puts emphasis (in) the words gront of lemed and disbomedel, as if to intimate that Mis. Fim had said something contrary; but her words were confimatory of both.

Mr. Remion tries to get some help from Jerome, who blunderingly fised on Niconolis as the Emmans of Lake, and overlooked the true site ; from he admits the fact that the troe site was not known in the days of Jerome, so that he can get no help from him.

He mentions what he ealls an improbability-that Josephine and Luke slombl have stated the distane from Jernsalem if the place was so near Bethithem. He is at a great loss for arguments when he resorts to such an impmoblahility. Jussplus was likely to state the distance from the great city where the limmans completel their conguest of the Jews, when he was spakaing of the destination of a portion of the dishanded army. And as fur Lake, he was thescrihing a journey, now from Bethlehem, lout from Jerusalem to Emunans, and prolahly the disciples muly passerl
 laal him again to speake of "the fracile nature" of Mrs. Fims arguments :" lout he is still deaming; when will he awake? It is "as when a hungry man dreameth, and, hehold, he eateth; but he awaketh, and his soul is empty."

Mr. Kemion comelules ly propomaling his own theory, which is, that the district of Emmans in Josephns "lay along the valley that has Kolonieh at its southern extremity," and that the village in Luke "was near the head of that valles, and reaching on to Kubeibeh." It is his old opinion, which he finds it hard to give up in favour of Mrs. Finn, whom, however, he thanks "fow her valuable contribution to the discussion."

I have ahrealy referped to the claims of Kubeibeh, which really have no weight in the presence of Mrs. Fimms disonvery. As for the district beriming at Kolonich, fom miles from Jerusalem, it is impossible that Josephus, who knew the district well, could have said that it was Tit miles from the city. The propmsal of this site must therefore he regambed as utterly untenahle. But no discovery of haths is mentioned at Kubeibeh ; and the reader now perceives why the writer was led into the error of asserting that Josphus explained Limmans to mean hot springs, and that haths were not mevesary to evoly Emmans. He shuts his eges against the flemd of light which Mis. Finn has thown on the subject, and says: "One comblusim is imdisputahle, that no wher location of St. Luke's Emmatus could ly any pussihility combine su many rays of light as convorge upm the Whaly Buwai." His conchasion is not omly disputal, but we may promounce it utterly impmssible po acopet the site he promess. All was doult amd mucertainty about the site of Emmans till the publication of Mis. Fimis paper ; hut now all appeats clear and certain.

Coldstream.

## ZION AND OPHEL.

By J. M. Tenz.

Mr. Birch and Ir. A. П. Sayce are confident that Mount Zion stomed on the south side of the Temple momit which desednls down to the lowest part of the valleyssurrounding Jerusalem, and Dr.subee, in his "Topmeraphy of Pro-exilic Jerusalem," in the last quarted! stort ment. wakes it for granted that it is no longer prosible torny it. Yet the valley which Tr. Fayce shows in his sketeh map to divide Ophel from his little Monnt Zion on the lowest hill of the city has no existence.

We may alan justify the remanks made by Captain Cumber in reply on Mr. Birch on the same subject in the last Quarterly Statement.

Josphus, the great histmian of the Jews. who is so muth hamed for his erors, and attributed errors, is pet the most reliahle anthmity, as it has in many cases been proved by recent discoveries.

Having for many years taken great interest in the history of Jerusalem, The Temple, and the discovorios mane from time to time by exploring
partises, and having also curefully constructed a model of that city when in the time just before its destruction by Titus, 1 may be promitted to give my opinion on the topography of ancient Jerusalem.

The "upper city" of Josephus answers to all requirements of Mount Ziom, the City of David. "Walk about Kion, and go round about ber, tell the towers theroof, mark ye well her bulwarks, and consider her palaces " means many Lowers, extensive walls, numbers and important palaces, which conld not have all been placed on the lower slope of the Templehill, which by Josephus is called the suburb.

In a military pmint of view we may maturally suppose that the uppermost hill was "Mont Zim, the stronghohl uf the Jebusites." History and recent discoveries supprort it. When the Tsraclites took possession of their promised laml, Jerusaleon fell to the lot of Benjamin (5 "Ant." $\mathrm{i}, 2 \mathrm{2}$ ), " bout the Jebusites who inhalited it were not driven out until the time of David," "aml the hurder went up ly the valley of the son of Himmom minto the sonth side of the Tehnsite; the same is Jernsalom" (Josh. xv, s). This passage sufficiently indicates that the border went up by the sonth valley, which is now called valley of Himmom. The Tomb of David may also he louked for at or near the traditional site, which is over against, or near "the pool that. was nade" (Neh. iii, 16), which may well be the socalled lower Poml of Ciihon, once one of the largeat pmols at Jerusalem.

The Dragon Well may he identified with the Virgin's Well.
On the arrival of Nehemiah at Jerusalom, the Temple was partly reluilt by Zeroblabel; the king's high house (the site of which was in later years joined to the outer conrt of the Temple by Herod the (iveat) was prolably restored, and the Nethinims had dwellings in Ophel: Nehemiah would have taken up, his residence there, as the other parts of the city were still in ruins. On his night journey he would have proceeded from Ophel to the valley gate before the Dragon Well (Virein's Well), then went on to the dung gate, probably the same as the gate between two walls near the Pool of silomm, then to the fimitain gate, a grate leading to the upper city. After he went un by the hrook (Browk Gitron and Valley of Ainnom), then retumed and entered by the valley gate (Neh. ii, 12-15).

Further explorations may rosult in the diseovery of the site of the cast, or Shuskan gate, which acemoling to the Talmut stood over againat the east front of the Touple. Thus we would oltain the exact line from east to weat through the centre of the Altar, which, I believe, stoon on the rock in the Great Mosque. It has also heen romarken, in one of the Quapterly Stutmonts, that the sacred culit, which is said to have been marked on the sides of the Shushan gate, may pet he found on the lower part, which must have been helow the level of the court, with stepmes to descend to a much lower level of the ground outside the wall, but which is now to a great extent tilled up. The discosery of that gate wonhl therefore be of great importance.

It is still my impresion that some remains of the second wall may yet tre found on the cat side of the Church of the Boly sopulthre. It is quite pusaible that that church may coser the site of Calvary and the garden of

Toseph of Arimathea. Although, aceorling to the Talmul, the place of - toming, and the discoreries of the ruins of St. Stephen's Church outside the Danascus grate, may favour Captain Comler's views of his suppmeel Calvary on a hill just outside that gate, yet the trmational site, which dates af least back to the time of the Empness Belena, onght not to loe disputed until further diseoveries can be made.

We sincerely hope that the Palestine Exploration Fund Society witl he able to continue their work of exploration at Jerusalem, which is the only means to lead us to a satisfactory result.

December 10th, 1883.

## CAITAIN CONDER AND KADESH-BARNEA.

By the Rev. H. Clay Trumbull.

Issemen as Captain Conder has given special prominence, in the Quartar? Nutemom, to my wolume on Kadedn-Earnea, as worthy of consideration in the settlement of a pivotal proint in the hower boundary of Palestime, I venture to ask the privilege of calling attomion to the main jurgmae of that volume-which he has not touched by his comments.

In "Kadesh-Ramea," I have subjected erery Bihlical mention of that ancient site to an examimation, and have compared them all with eanh other, showing, as 1 bedieve. that many of them ahmolutely require its Incation at of near the site of 'Ayn Qadres, and that erevy one of them is consistent with that lucation; hence that there and there only its itent ifimation is property to he looked for. If 1 an right as to this consensns uf Biblical evidence, it fullows that even if a Kadesh-Bamea be antually disenvered elsewhere, it cannot, by any pussilility, he the Kadesh-Barmea of the Bible-text.

This lasal peotion of my volume is, as 1 have saill, left untone hel by Coptain Comlers criticisms ; and if, indeed, he were fomud to he corred at evers one of his more than twenty muted prims of difference with my incidental suggestions of confimatory evidence of the identifiention of 'Ayn Qadees, my claim that there is the site of Kadesh-Barnea would romain as strong as lefine, in spite of such erows in my comfirmatory collatings.

But, lest Captain Comders long list of apparent mistakes on my pant should throw discredit on the really important portion of the valume, mot dralt with ly him, and so shonld deter from its examination those who know of it only from his eriticisms, 1 desire to say, that ather a carcful re"xaminatiun of every puint to which Captain Comder has taken exerption, 1 am of the opinion that at no one of them has he shown an error in the work he criticises, white in a mumher of cases his cum n nesition is cleanly untenable. Let me name a few illustrative instances.

1. I referred to the plain of "Es-Seer," or "Es-Sirr" -as noted by Powlands and Wilsm and l'almel-as a trate of the old name of "Scif," in the regron sonth-east ward from Beesahota. Gaptain ('mblew says of this modern natme: "Lintil it eat he shoman to emmain the guttural of the

 lesiongraphers, are pasitise that the Helorew gnttuml (y) is frequent? intephameen with apposimate sommds, aml is sometmos dropped alth
 find a trace of "Banal" in "Ballah." And Dn. Jubm Wilsan even cites this reay worl "Snir" (east of the Arabah) as an illo-tration of the ex.
 shemh) for arye (ficir)." Aut in this riew Wilson is sustamed ly
Burckhandt, hy Komhler in his nowe on Almbeda, and ly whers.
Again, the lexiengaphers alose-named sise matked iltustrations of the rphesenting of the Helters vin by the Arahie Sins instand of Shim. This woulil seem to make it passithe, certatuly. for the name " Es sice" tw ler a trane of the amient "sicit;" espmedially as the distriet where it is found did, as I think I have shown from the Bible-test, fomenty lear that name -whether it be found there now or not.
2. I have damal that the early Oh Tenament sweep of Edmu dealy imbluled the region also khown as "gevr." wheme Esam lived hefore her
 on. 'real,' must sureis have hewn applienl to the red sambtome country, and not to the white chalk phateat of the Tih." But the Bolle says that the
 "the white chatk phatean" of his eaty home; "thetefore was his mame "alled Eitom," amd thememe was his laml likely to lee krown ats the lamd of Eifom. I sill intlue to the opmion that the Bathe statement has some basis of truth in it.
3. In explatinge the ratuse of the lonerphevatent ermen that there seme

 Cinter says, " I fail to fimb anything (ossuppot the view that theme sere two



 * Hhere were two notwonthy plawes named lickan on the limits of the lamd [the Hely Lami]." Then i showed from the Tahmad itsolf that obe of thene Repanse was in the region of Petra (pmotatly identioal with it) White the sther (somemimes calleal "Pieqam (iiah") wats on the westerty
 Hhis semond Re-ham I left upenfor other panof. Does Captain Comder really think that the Tabmud was writton in the special interest of those whe would identify Kardesh at 'A in Qadees ?
4. Concerning the "Mount Hor in the edge of the land of Edom," which is not, huwerer, an essential point in the lueating of Radesh-Barnea, I claimed that the whole tenor of the references to it in the Bible-text fonhid the possihility of its fixing at the traditional site, in a monntain stronghald if the Helirew-tatoved Momet seir: while every requirement of the sacreal text is met in the sugerestel lowation at delnol Maturath. The evidence of the Bible-text Captain Conder does not discuss; but he is sure as to "the consensus uf tradition and opinion in the matter." I meoke of the prossille ventige of the Helnew name "Mnsernth " (bne of the names of the lower Alount Hor in the Arahie" Madurah,"" the consomants " 1 ' and " $s$ " having a comstant tendency to interchange in Eastern speedh." At this Captain Couder says: "I do not think this is the case. The soft T aud the soft is (Teand sim) are convertible, and so are the soff D or Whand Z (Dhal, Dal, Zain), but I do not recall any instance where D and S are couvertible." I did not say that D and S were "convertible," but that they had "a constant tendency to interehange ;"-if Captain Conter is not aware of that fact, I ann surprised; for the lexiems teem with illustrations of it, and Orientalists frequently refer to the fact. For example, from

 and $\sim$ (Nadaha), all three meauing "to pour out." Also in Arabic
 open the eyes" (said of a young animal).
5. Incidentally I referred to the corroxpmomine of the names " Zephath" and "Selsayta," and to the lack of the formerly clained identity het ween "Zephath " and "Sufah," Captain Conder says: "The radical meaning of this mame [Zephath] in Hehrew and Arahic is the same. 'to he clear; 'bright.' 'conspicmos,' 'shiumg.' The identity of Zephath and sufah (an havally be dombed by any who consider the root whence the two words wriginate. Thesuggetion of Sebata in Selma for Zephath has always saermed to me to argme a want of scholarship on the part of liawlamls. The Aralic name seems to he from the rom Rebt, • reat.' which has nut a single letter in common with the root whence Zephath origiuates." But it is Profersor Palmer who suys (" Dese of Exod," it, 375 ft: "The name Selnata is etymologically ifentical with the Zophath of the Bible Zephath siguifies a watch-tower." As to the root of the two words, it would seem that Captain Comber has mistaken, as a root, the Hebrew $\boldsymbol{T}$ " (Twortuk), "to
 Palmer, having examined this word on the fied and after wavds in his stonly, should have confommed the root of "Zephath" and "Selayta" with so common a root as that of the "Sablath," - "which has not a single letter in commen with the rout" he was consileming.- presuppmess "a want of s-holarship" on the part of that eminent Orientalist which English readers generally will not be ready to admit without some show of proof.
6. One of the many Hazars, or Hezrons, or border-territory "enChsures," of Canam, is mentionel in the sacred text as lying lutween Katesh and Adar. I stated that. 1 found traces of one or two enclusures between 'Ayn Qadees and 'Ayn Qadayrat, which would meet that description. Thereupon Captain Combler says: "Dr. Trumbull has unittend (1) notice what appears to me to he a strong argument, which, as far as I know, I was the first to suggest, in the identification of Elearon." The site of Dezron which Captain Comter suggests is "the Hadireh hill west of Waily el Yemen"-quite out of the Bilde posssibilities of the case; and he says: "It is strange that Dr. Trumbull should have leeen quite silent as to this sumgrestion, which if it the correct settles the Kadesh-Barnea question for ever ; " and Captain Comler even thinks that "the omission of any notice of Hadireh (in 'Kadesh-Earnea'), and sereral minorerons ahove pmintel out, seems to spoil the completeness of the work." Vet the term Bazar, Bazor or Hezron, or the phual form, in simple or in compound, is so common as a descriptive one in the Bille story (see, e.f., Numb, si. 3.5 : sxxiv, 4, 9 ; Dent. ii, 23 ; Josh. $x 1,23,25,27,25$; xix, $5,36,37$ : 1 Kings is, 15; Ezak. slvii, 16, 17), that if foumd by itself anywhere it woulh hardly be more determinatise as a prarticular site than the term "camp." It is even shown hy the Bible-test (Dent. ii, 2:3) that these Hazars or Mazarim were all along the sonthem hommary of Canaan, and four or five of them are noted, as near each of her in that region, in the deseriphtion of that herder (Josh. 8r, 23,24). The idea that the fimting a trace of one of three "enclosures" "seitles the Kalesh-Bamea ynestion for ever," seems to me so mety chimerimal that I slowhd not have felt justified in an attempt to refute it if were mot formed into fresh prominence by Captain Combers renewed clain of its importance. I eertainly matert to him all the credit of leeing, as far as 1 know, "the first to suggest" it.
7. I gave the Arahic name of "Qaiagrat" mrerisely as it was written for me hos my guide, when gave me alen its Fnglish meaning as "the power of (ioul." Captain Comuler says that "it apmeans to be freelt with a that [instend of a Daly loy mistake." Yet the dialectic change of lowl frim Dad is hy no means uncommon in Arahir words as the lesioms show. I simply gave the writing and the definition as given to me by a native Arab. Captain Comder has himesfe emphasized "the importance of stmitying the tomeat peasent dindeat of Syria," herause of its throwing light on the inter-
 confusen!" Powsitly amother example of this is tor lee foumd in thed and Dul.
8. Quite ontaide of the question of the site of Kadisal- Barnea, Inut monsiderel at some length in my hook, is the route of the Hedrew exantus. Captain Comler says: " 17 is in he regretteal, huweser, that sufficiont notice has not been taken of the farts floth gentogival and chyineering), which lage it imblequtalle that the level of the lied siea has heen changing, and that the Tethmus if sume has hem growing hroader within hivtoric times. In spataing of that which is "indi-pmtable," Cantain Conder pmonal!y

He:ans that, in his upimion, the view he holds ought not to ise disputed : $\rightarrow$ ahtomofh he is awate that it is. I have ret tosee any clam ley a genlegieal authonity that the Isthmus most haer Lain materially natower in the days of Aloses. The meme opinion of a gevlugist that it might huce fieen so at that date, because it had heen on lomgearlior, can weigh but little agatust the evidunce aml imlications from history, satered and profanc, to which I have pointed in my book, that then it was not so.
9. My frotmote remark, in passing, an incidental item of Ryptian histury, that "the fortress of Kanaian has not heen ilentitied," mompts Captain Couder to say: "This seems to have been written before Dr. Trumbull had seen my paper on the subject, as my sugerestion of Kanaian a lapre ruin near Uehom, met with hearty acceptance from Mr. Timnkins." In the English edition of my look (published Ly Modder \& Stomghtoni, I have mentioned Captain Conder's proposed identitication; but while I recognise the exceptional value of the Liev. Henry Cenge Tomkins's opinion in farour of one of Captain Uomber's suggested identifications, I still venture to repeat what I have already satid in my revised rolume, that, in my opinion, Khurlet Kanaan "does not correspend with the piotured [Egyptian] representation of a fortress on a detached hill, with a lake near it."
10. Captain Conder's mention of a "rationalistic explanation of the pillar of choml amd of fire, which seems sugesested on p . $399^{-2}$ of my hook, I do not quite understand; but I desire to relieve the text and the tone of my work from the imputation which "seems snggested" in that mention. Refering to the fact that "it was common for Eastern ammes to be guided hy a column of smmke moving on in their ran by day, thel by a streaming henner of thame lefore them by night," I satid that when delmoalis host went out from Lisypt, "the Lord went hefore them hy day in a pillar of - Fond to Lead them the way; and by might in a pillar of fire to give them light." Aud to make it clear to every mind that I looked upon the I-ratites guiding emblem as a supernatumal and a mivaculus display, I fuatal afpmovingly the womls of Kutz, that the difference between thee crdinary caravan-beacon and this one was, "that the one was a merely natural arangement, which answered its puqnese hut imperfealy, and was nsceedingly insignifient in its character, whilst the other was a superbatural phemomenon, heyond all (ommparisom more splendid and magnificent in its form, which was also made to maswer far greater aml mone glorions -ands." P'ossibly ("uptain Conder's term "rationalistic explanation" was a slip of the pen, or a misprint, for "rational explanation."
11. While armitling that I hare shown the existene of an 'Ayn Guces at the site described, Cappain Conder sumerests that it may be "a numkish site:" sime " the monks were not carcinl as to the liblical requirements of their sites ;" and he also says that, "Erenemally speakimg, one foeds that the evidence has been rather tisisted in faconr of 'A in Kalls, though Ir. Trumbull has striven to he impartial and cambil." It isquite a flesh thonght to me, that the monks were in the haloit of tixing, in Arabie equivalents of ancient Hebrew, geographical sites of the Old Testanumt story,
in the Ifoly Land on the desert; althongh I knew that they lumated the lomess, or the tombes of Moses, and Aaron, and Samuel, and E:lijaht, and Sonah, and other ohd Testamemt personages, without much regaral to the Billical requirements" - as in the case of Jebel Neloy Haroon (allent Mount Hor), for example. Their interest was, 1 supnnash, in Bible hingraphy rather than in Bille geography. Indeed in a work written sinte my redisenvery of 'Ayn Qadees, Captain Conder has said implicitly on this point ("Heth and Aluab," 3. 18) : "There is, however, wo ledtem Guide to identification than the disworey of an ancient name, and whatever may have been written comerning the migration of sites, we have mot as got any dearly proven case in which a Sconitic indigenons title has wandered away from the original spot to which it was applied for gengraphical on religions reasons." Why Captain Cimder would suggest an exemption to has otherwise invariable rule, in this case of 'Ayn Qadees, is lyy ne memas obvious ; for 1 certainly would not suggest that, "gencrally speakinge, owne feels that the evidence, of the argument," "has heem rather 1 wistel" "ly him aguinst 'Ayn Qatees; for it must not he questioned that Captain Conder "has striven to be impartial and candid."
12. It would seem umecessary for the to follow up, in detail all the minor points touched by Captain Conder in his extended eritical comments on my work; mot one of which has any more foree than those to which I have already replied. But there is a single other suggestion of his which I ought to note in closing. Hesays: "The map requires a word of notice. for it is not dear why 'Ain Kadis is there shown much further east in longitule than is the cense in Palmer's map, or Holland's map." It is even in connection with this print that Gaptain Conder suggests the appearance of my twisting the evidence 1 would proffer. On the face of my map 1 said distinctly: "This map makes no claim to accuracy in the unsurvered region of the Negeb. Any comparison of maps baseal on the researethes of Robinson, Ruwhands, Wileon, Palmee, Holland, Bartlett, and onther recent capherers, will show irreconciable differences in the contome of that region as portrayed by them. All that this map attempts is to indicate the ontline and salient puints of that region in the light of present knowledge, and as explained ly descriptions in the text of the volume which it awemmpanies." I will now add, that on my return from the East I saw Professon Palmer in Lumbon, and talkel over my discovery with him. He told mee that he did not visit 'A yn Qadees; hence he could not he sure of its lowation. We looked over his map together, and, in the light of all that 1 conld tell him of my jomernevines, he and I were agreed that 'A yn Qadees must he farther east than he had supposed. Therefore it was that 1 entered it on my tentative sketch-map aceomlingly. As I mulerstand it, Mr. He.llami made no surver of the region, and the map which was pmared ly fiemeal sir Charlus Wilson, to acemmpany Mr. Holland's proth manns motes of his journey, was also hased on Palmer's (on Tyrwhit Drakess survey ; hence. again, the location of "A yn Qadees was there given as ertonemsly indiemen lis Professor Palnues: The diffiremer in the lemention thews indiented uffieds in no dogree, hower, the question yy ilent fieation-an itentifiention which the

bible record will admit of anywlere within the sweep of adsaren of tiftem: miles or so in that region, and only within that sweep. There was, therefore, no inducement for me to change the location for the sake of my: argument, even if I were as liable to such swaying as Captain Conder: would suppose.

Of one thing I am rery sure, that the precise location of 'A in Cadeeswhich is Katu-do-Bamea-can be knomb moly thromeh a cantu! survery uf its reerion; and I carnestly hope that that survey will som lee matle umder the eminent! competent dimation of Captain Clamle Rumion Combe: for whateser differences of upinion there may he as to his thonsand amd one identifuations, with his often fanciful and his sommetmes grotmonte sherestions of resemblance, there is no que- tion that he has latid the entire Bihlesthdying amd trnth-loving word under chlligation to him, for his sireltes, his intelligeut, and his most shilful services as an esploner and a surveyor in: the lands of the Bible. And of that line of his work, I sincerely hope that the end is nut yet.
H. Clay Thumbull. Philadelphia, U.SV.A.

# NOTES ON SOME PHOENICIAN GEMS. 

By Grevile J. Ciester, B.A.,

## Member of the Royal Archeological Institute.

Is the eentrse of last winter, huming visils of shont shation formyma and Beyrut, I obtained several antique gems and engraved stones of fhurnician and armi-Phumician chatater, which seem th he of sufficient

 culearnal in amefont oriental lamgages I an indebted fon the ensumber
 of Oxfond, and Robertam smith of Cambidese, to whom my best thanks are due for the tronble they hate taken, and the attention they have pail to the matter.

No. 1. Bought at Beyrat. (See plate.)-This gem is of pale blue
 is a fairly exemated amb heantiful sperimen of spmi-I'hemician womk. The mollence of both ligytian and A syrian art are here well diqplayed. Tho
 acoudine to Prefessors sayce, has the hamded homan heod of the Sa-y tian bull, summomed bey the phanes of the Eerptian sod lies. Eath of the $t w o$ wings ends in a homed head, of whioh ame teasmbles that of a gritlin. and the other that of some species of antelope. With regard to these hearls, Professur sayee remarks that they "sucrent the origite of the
(ireek legend of the Chimaera." Curimsly enomgh, I this winter whtainem in Lower Eagle a shall hottle of lownimh-green ware, being a grotusyme human figure, in front of which is a seated liom, with the head and phumes of Bes. This variant was hitherte unknewn to Professor If. V. Aamzone of Thin, the learnel anthor of the "Mitolugia Eygiza," now in course of pullieation, and will be figural hy him in the next forthoming part of dhat work. On a Phemien-Eggptiau seanabens of burnt sard in my posecosion, fornd in Egypt, is clepricted a huch-headed, seated sphinx, with Hw disk ulon his head, and a wave under his feet, and on a fragment of limeatone scolptered on both sides, and of singalady fine work, now in the B itish Museum, but found in the Fayoum, and hifought ly me from Eserpt in 1502, is a winged liom, pasant, to the right, with the hoad and phumes of the sanue deity. Could this fragment have been identified as having heen found in the 1elta, it might have been supposed to have lonlongen to the period of the shepherd Kings, and the combination Racrital to somi-Simitic influence, but I am not aware that the sway of the Hylases extemded to the isolated province of the Fayoum. Anyhow, it is intoresting to compare the sulgoet of the earthenware bottle, the gem, and the scolptured fraguemt, with that of the present stone. This gom has had a small hole drilled through it, chase to the tail of the sphinx, hy some possessor, who wished by that means to fit it for suspension.

No. 2. From Nazareth. (Five phate) - This gem, eat in intaglin in dark sard, is set in a modern gold ring of Oriental workmanship, and is of even finer work than the stone last describel, and a most beautiful example of Eegpto-Phanician ant. On it is a wingel sphinx, seated, whose haman head wears the Egyptian head-dress. Below this is a scaralaens, whome expanded wings streteh compledely across the stome. Below this agsin, sufperted ly urawi, is zan ormanental cartonche, of which Profesanr Sayce remarks, "the hiernglyphies consist of the Eggptian Neth, 'Lord,' tumed ujnside duwn, fullowen by the Bittite $\Delta$ 'comitry,' twice repreatel, she turned upmide down." It may have heen the signet of a Phernician prince.

Ao. 3. Found at Amst (Morutias). (Bee plate.)-This searalmeoid of land yellowish-hnown limestone is pronouncel by livfessor sagee to he a very intereating example of Egypho-Phonician work. It was formerly in the pomersion of the lave well-known M. Perétie of Beyrit, whose large wolleotion of Egyto. Phomician amulets, searals, and searabemids fell into my homis after the death of their proprietor. Most of these objects are formed from stantite, but some, like the present specimen, are of harder Eome. Their large mumber, upwarls of three humdred, testify to a sichenl of eraftamen for ornamments of this description having existed in earts dimes, at least as early as Thothnes 111, of the eighteenth E.syptian dynasty (eirca 1600 b.c.), at Umrit.

The centre of this scone is mempied by the figure of a king, hetween two palm-branches, a characteristic and favourite emblem upon the Ehenician wast. The monarch, whom name seems to have lieen $1 / 4-n=1$,
on，according to another prowille reading，Ah－min，weans the $P$ sachent，or combined crown of Upper and Lower Esypt，cophed from Eegptian monuments，and is in the act of adoring the lunar disk＂$A /$ ．＂On either side the king is a cartonche，＂each of which，＂says Professor sayce，＂con－ tains the lunar disk 16 ，and the character $M e n$ ，each twice repeated and furned upside down．The work of this stone is distinctly Phomician， and though the dress and attributes are Egyptian，the figure evidently represents a king of Phœenicia．

No．4．Found at Beyrat．（See plate．）－This lentoid gem of white cyastal is the most remarkable stome in the collection，and hats been found very difficult．to interperet．It has for its deviee three stars，of which the upper one is winged．Below these，and divided from them by two lines，is an early Phwnician inswiftion，written from right to left $大 0$ W Z（Nyセur），
i．e．，Mashaten，from the root Terha，to save．Professom Sayce comsiders the chatacters to be of the seventh or cighth century，B．e．，and certainly not later ；in which case this gen is one of the carliest known，and he adds that＂the two lines which divide the mame from the stars and winged solar disk［for so he deciphers the winged star］explain the origin of the similar names which divide in half the inseriptions on early Helrew seals．＂ With regard to the translation of the inseription，I have permission to insert in this phare two communications with which 1 have heen favented by Professor Rolvertson Smith．
 so the st camot he the Aramaic article．The explanation must he sought within the Hebrew－Phœenician language．
＊This heing so，the analogies which naturally，present themselves are those of such Phomician proper names as Nコンユ，NTース NTユy，in which the termination $\boldsymbol{\aleph}$ appears to mark that the name has heen shortened at the end．Thus Kalm is the same name as Kallelim（Cimy，Inam．Sem． Fasc．i，No．52），Hanno（with ú for à as a later pronunciation）is the shortened form of Hamilal or some such longer name，Pathha corresponds to a heathen counterpart of Pethahia，and so on．
＊The Helrows themselves have similar contractions of proper names， and had them at an early date，as applews from the form Niy $=$ Uraiah of A zariah in 2 Samuel vi，3．Thus if the seal were Helrew，the name on it would be the shont form answering to maser，Tsaiah．The winged star secms，however，rather to puint io a heathen owner，and in this case the last tuembee loppred off will the he the name Jahreh，fot some other divine name，as in the Phonician instanees alreaty quoted，and the name means＇the victory or salvation of＇Baal，or whoever the god is．
＂Quite similar is the Plafistine hame Sidlat，King of Aseaton，on the
 mame on a gem ligured by leesy，Phmidiache stedien，ii，No．So of the plate．＂

No. 5. Formel at Konat, in Asia Minor. (See phate.)-This layer searalseoid gem, perforated lengthways for suspensim, is formed of beantifully iridescent meck erystal. Upon it is represented the four-winged Assyro-Balydomian god Merodach, who, although the stune is sli-htly damaged, Profean Sayce considers is strangling in either hand the hintdemons. "This device," the Profesanor adds, "passed through P'lamicia tw carly Girece. Beluw Merodiach, from which it is divided by domble horizontal lines, is a hird, perhayes an eagle, on either side, divided lig tur vertical lines, the Egyptian symbol Ankk, the sign of life.

No. 7. Found at Beyrat.-A pierced scarabreoid. On it is a winged sphinx, with antelopers hed, standing. Behimd, a winged deity. This specimen is in pow preservation, but is remakahle on account of ite material, which is malachite, a substance very marely used by the ancients. Phomician work.

No. s. Found wear Buyrut. - Scamaband of opaque white chalcedony. On it a bull, in front an anulet, perhaps intended to represent the solar disk. Good Greeco-Phomician work.

Vo. 9. From Beysut.-Small scarahesuid of pate hlue opaque chateedony. On it a lotus flower ; on either side, and facing it, a vulture with expanded wings. Bencath these a striated hand. Below this a star, upon either side of which is a wingel masus, and again helow, a scamsu with expanded wings. Phœenician work.

No. 10. Coast of Syria. From the collection of M. Perétic. (Ser: phate.)-This is a heal if white mpague gypsum. It bears an inscriptiven of eipht letters, the meaning of which has hitherto defied clucidation. Profesors Wright, Rolnertson Smith, and Sayee are alike unable to in terpret it, but the latter thinks it may be of Gnostic origin.

NOTES BY SELAH MERRTLL, D.D., LL.D.

## I.

## A RELIO OF THE TENTR BEGION, (CLLEE "FRETENSIS.

I notice in the list of antiquities in the posesssion of the Palestine Fund. that they have two imperfect specimens of tiles hearing the stamp of the Tenth legiou, and it may he of sufficient interest to state that 1 possuse as perfect specimen, which I honght of sume fellahin who had just dues it from its hiding flace. The following are the dimensions of the tile: it $\times$ if inches, and $1 \frac{1}{1}$ inches thick. The oblong plave for the lethers is sunk intu) the tile, leaving the letters in relicf, the surface of the letter-
being of the same level as the surface of the tile. The oblong place itself is 4 inches long and 13 inches wide. The length of the lethers is $1 \frac{1}{4}$ inches.

II.

## THE INSCRIPIION AT ARAK EL EMITR.

Evemer copyist, if he labme conscientiondy, has reason to respect his own work until he is convinced that he is in error. I visited the place in question several times, and copped the inscriphion with care. My cops is quite mulike that which Captain Conder ascribes to Devy (Guortarla sfatemut, Jonuary, 1855, p. 12), amd unlike that which Captain Conder gives as his own (ibid), inasmuch as mine has a decided har extmoling from the top towarls the right as in the intial letter of the following inscription from Bozrah: -


In the first and second lines a letter occurs three times which is filentical with the first letter in the Arak ef Emir inseription．This lefter I would read Aloph，and would transliterate the above inseription－

## ふコッN תาニผコン <br> －－ワーフニ・

This is one of a number of Nabathean inscriptions which I coppeed while at work in the Hanran，but I have never had time to chamify them or th give them much study．

I have for geass fult that there were a lawer number of Nabathems inseriptions to the gathered in the desert east of the Jordan than scholars inngined，and that when these have been collected，materials will exist for a bettor molerstanting and a fuller knowledge of that once powerful and interesting people．

I make no attempt to tramslate the Arak of Emir inserpition，hut when 1 visit the place again I will take pains to re－coly it，or to take an impression of the letters．

## III．

## TITE STATIONS OF DAVIDS CEASDS OFFICERS．

Tris account of the numbering of the Larablites hy David contains some interesting georraphical motices，iwo of which，at least，have always been puzales in schulars．It will be a help，to remember that ouly lowael and Imbah were to be numinered（see 2 Sam．xxiv，1）．The command was，＂（io now throughall the trihes of Istacl，from Daneren to Beowsheba，＂and leads us In suppree that aliens and sulject preples，whether within or withont the limits of the kinglom，were not to be recknued in the census of the Jewish poople themsalves．This is infifmed lig verse 9，where the sum of the men of Israel and Judah only is given．

King Davids oftioers crosed the Jorlan and pitched first in A poer near Jazor．They went thence to（iileal．Their third camping place was＂the Laml of＇Tahtim Honshi，＂their fourth camping phace was han Jaam，and their fifth was kidm．They went thence to the＂stronghold of＇Tyre，＂and thus sonthwand to Remsluba，keeping within the limits of the territory as Welineal in remse 2．The Helnew of rerse 6 is as follows：－＂And they came （11）（iilend， Sipnuagint renders verse（6－＂And they came to Galaad，and into the land of Thatuson which is Adasi，and they come to Dan Idan and Cidan，and com－ promed sidon．＂The Targum ou Simmel has after Gilead，＂ש゙ד

 inferiorem viam．＂

Numernus suggestions have been made in explanation of the words Tahtim Iodshi．The Septuagint regarded them as two names helonging to one place．Zonz，whose high rauk annong Jewish scholars all admit，regards them as two distinet places．Boeltcher resolves the wowd Tahtim，תחתתית， into ar change，which is true of some other seholars．In that clase Dronta refer to the Sea of Galilee（compare Numb，xxxiv， 2 ；Josh．xii，3；viii， 27 ，and Fodshi would have some connection with Chinnereth．Besides these hints there should be mentioned an important Hebrew tradition，fromed in the Midrash on Sammel，chapters xxx and xxxii，which comects Tahtim Hodshi with Beth Yereh．

There were two places，Tarichea and Semalnris，which Josephtus locate at the sonthern end of the Lake of Tiberias，and hoth are extromely distant from the City of Tiberias，namels，thirty furlongs＂Life，＂xxxii ：＂Wars，＂ III，ix， 7 ）．Joseplus states that the great plain of the Jordan commeneed at Cimmabrin［＇cmmalnic］（＂Wars，＂IV，viii，2）：while the Talmen states that the Jordan did not reveive that aame until after it left Peeth Vereh
 where the plain of the Jordan commencel（ateonding to Josphus），and the puint where the river Jowlan began to reveive that specific name （aceording to the Talmod）were practically identical．But，further；the Jerusalem Talmud mentions Beth Vereh and Sennabris lomether as the names of two towers，תグンシュN Mer，or fortified places on the Lake of Gennesareth Megillah，i，i，Gemara）．This passage might be rendered， ＂The was divided into two parts like Beth Yereh and Semabri．＂
 as meaning＂two ca－tles in a place where there is a hridge for water，Mut there is no water lntween them．＂There can be little dounte，I thiuk，that the Beth Verelt of the Talmul is the Tarichen of Josephous，of which the modern representaive is l iow $k$ ．This place has long simee heen identified as Tarictien，and a knowledge of the nature of the gromel compravel with Jusephn＇s detailed destipution of it makes such a condusimn ahmest if mot absolutely certain．

It is difficult to decide whether Tarichea，Beth Yerelh，or Yereh was the original form of the name，or whe lier the place hove iwo names，as was not unfrequently the case．The Hebrew name might have been written ביִּת בירח בית־ּירח salting－atation，from rapleve，which has reference to preserving lealies by artificial mernes，whelhee kalting fish or enhatming mummis．The name is thus suppmeal to tre devivel from the business of freserving fish which was carried on at this place（compare Strabo，xvi，2，45）．

The long bluff at the extreme south－west corner of the Lake of Tiherias，which is called at present limuls，was miginally comeeted with


 Josphlus and the dewish writings. The statement of the Aruch, for instanme, made pmothle without any lonowlenge on the pate of the writes of the gromul at the somth ent of the Lake, conthl mot have heen mote anomatio than it is, aml Insephus also would her content in stather the distance of Taribhea and comathis fom Tiberias to be the same and in the same direction.

I have several times had occasion to speak of the Jordan Valley on the east of the river, from the Latie of Tiberias as far smmth as the Kerta
 streams which water it. The first strean below the lake is the liarmuk. or Hi-Fomas. called at present the Momuliefo. It is an interesting fact What the region atober this riser, after it leates the hills, is called Arder

 (6) enter the mommams there is a min of embidenable size, which hears the eombum name of lit lheit, aml the portion of the valley of plain immmatiately moth of if is called the Ilain of Dweis. still farther to the nowth, and hut a slum distance from the mombatus, are the" hitls of the foxes." On the shore of the Lake are the ruins of Semakh, and to the moth-east is the place krmwn as lihmithe os sommbe. Duwn the valley to the smuth, a slom distamee from Eit Te ir, aml near the Menadireh, is a

 be possible that 'Adasiyeh represents the ancient Hodshi?

In my judgment there was a very natural reason why the censustakers shomb visit the beval and fertile malley which stoetches to the smoh from the lower emb of the Siea of (iatilee. They had completerl
 and its vicinity: As only Israel and Judah were to be numbered the
 Galihe whuld be on their dieen ronte as they went month. This was the menting place of two kreat themonfares bef ween the conutry on the east and that on the weat of the Jordan, even as it is torday. The road from
 the reand from Tiherias to the Bamman amd Gilead (formurly a time bridge supperted on tean arches, led orer the Tomdan just lrelow the Lake intersat on this plain mem ralled Arel el Jdasiyeh. If any point on their
 a plae of pmblic assombly, nome mome suitable than this could have been -hasen. Their ohjeet was mut to get into a large city, but th pitch thein (amp) in the place that was most central amt most easily aceessible for the largest number of the inhabitants.

Che uf the truest remarks exem made in the longe diantasion as to the site of the Holy sepulehre was that of Lientemant Combler, namely, that "Fontilimituns" (referring to the line of the walls) "follow the hills and not the valleys." Again, with regat fothesife of Capmomam I have often ugeal, in "गpersition to these who atrocate the daims of Tell Hhm, the rumeasonablemeso of stpposing that a custom homse womld be lexated at a distanen of $2!$ miles from the main route of travel. Which it was desigmed the acommontate. In like mannes in endeavousing th trate the monte of Daviles census-takers is it mufair to claim that the most hatural suppusitions should rateive the finat consideation? It is on this principle that attention is now called to the distriet of Plain of Adasiyeh lublow the sata of Galitere Similarly the region about Aroer hear dazer (I lome
 of the fribus livins in that section of the comery for genemations, and why may it not always have been so ?

If the census-takers chose for their work the most central and conrenient proints, we shoulal expect one near lake Mermu. Dan, if it were ahesen, would amosmmomate all the prople residing nowth of the seat of (ialilee, and south of Momm Eermom. The great road from lramasens 10 the sea robat divided at Dan into two branches, ome follow ing the present ponte hy shakif to sidem, and the other, that farther sumth, patat Humin to 'Tyre.

If Dan stood alone in the text there would never have been a doubt that one of the census stations was near this ancient and well-known site. But having the word Jaan with Dan has seemed to make the matter of iflemifionion a difficult one. The muat remember that we are dealing with a Hehnew remol of a very early date, when Plonnician influenee was especially strong in the north of Palestine. Banias, the modern name found in this region, is commonly thought to be a corruption of Panias or Paneas, which commemorated the worship of the god Pan in this once famous grotto. But Banias is probably a corruption of a much nhtor name, Palinas, composed of two Phomirian womls, Bal amd Jaan, on Yaan.

Tuntion in the "Transactions of the Snciety of Biblieal Arehambeng," Vol. VII, Part 3, pare 3:14, an attompt to itentify Thatim Hodshi with Kiadesh on the Orontes, which secms to me to be wholly withon fommlation. Why should the census-takers go more than 100 miles north of Palestine when thes were directed to confine themselves to mumbering the tribes of Israel within their several tribal territories?

## A NOTE ON GOLGOTHA.

I hase noticed latterly a good deal of discossion as to the site of Calvary, and that modern writers ind line to place it north-west of Jernsalem. I have never heen in Palestine, so can be no julge from the comntry of the litness of their ideas. But 1 should like to make some sumerestiens arising from study of the Gospel narratives.

We real that Joseph of Arimathaa went in boldly to Pilate and hegred the hody of Jesus. Evidently then it was nont customary for the boulies of erucified eriminals to begisen inp the their friends ; of Mary and Mis apostles would have taken [lis hody as a matter of course. Joseph was an influential and rich man-he got it ; but even he had to gon to headquarters, and make special request for it. How about the bodies of the two thipres? What would be done with them?

Two others were erncified with Gim-on either side one, and Jesns in the midat. Plainly then it was an ondinary execution, and would take Hhace at the ondinary spot. In the valley of the som of Hinmom was Tophet. where fires were kept always burning to consume the filth and refuse of the eity: dead animals ant the "hodies of eriminals" were thrown thereia. This valley debonches into the Cedron valle?, wherein Jews so desire to bee buried.

We real that many of the women who had followed Tesus and had ministered to $\Pi \mathrm{im}$, strod afar ofl heholding. They must have had some aninence on which to stand on they would not "from afar off" have heent able to behuld ; the crowd would have hidden Mim. This emign of vanlage the Monnt of offence, of the Hill of Evil Comucil, wonld smply. As Antonia (and the Hall of Jolkment) was at the worth-west comer of the Tomple hill, they would only have to bring Ilim down hey the Temple precincts always guavial and a very short distance wonld lining them "withut" the gates ; fow we are rery sure the accused valley of the son of Himmom would never he enclosed within the Boly City ly any wall. Xeither dues it seem at all likely that the spot for the infliction of the acourseal death of ermilixion shombl hee chasen near the place where were
 likely gent to fultil all the siripture requirements for the crucifixion is near the junetion of the valley of Hinnom with that of the Codron? There would he Tophet on the one hand, and the place of homomable burial cluse by on the other.

It is phain that Josus was laid in an opmen space ; for as the women eane hurrying up, one is bidithon lig one angel to look in and see the plawe where the hood lay: does so, and kens a secomb ancel seated om the rifhet side : Whilst amother woman standing on the outside stomp down to forik in, ond sens two angols within, situing one at the heal the other at the foot of the place where the louly of Jesus hat lain. There was space enough Cor Peder and Joht th wall in, and see where the grave-clothes lay, atul the mapkin which had bound the head lying apart.

Then as for the " mound bearing some resemblance to a skull." When
 destroyed the ancient features of the land, we need not lay much stress upon this: such resemblances are common in rocky countries. Within half a mile of the spot where I write is a sharp cliff which from three different points bears a faithful likeness of three men known to me, and extremely unlike each other. Any very wet early winter, followed quickly hy severe frose, might loring down a purtim of this cliff and uttoly dospoy all these faces.

The last argument for the north-west site, viz., the shorter length of
 he. leal along the Temple precincts to the somth site, aml so to the valles of the son of IInnom.

Girdleir Womrald.

## THE SAMARITAN TEMPLE.

Captais (iusper seems th think that mo depontence is to be placel mun the precise statement of Josephus that there was a Temple on Mount Gerizim, unless a corroboration of his assertion can be furnished from another source.

I do not gather that he is prepared with any evidence actually confindieting Jomphos, amb notil such is forthoming may we mot justifiably beliese him, mperially as he refors the the said Tomple, not merely in the long pasage to which refernee is given by C. R. C. ("Anf.," XI, viii, 2-i), but alow in "Amt., "XII, 8,85 , where he quotus a letter from the Samaritans (1). Antiochus askins permisaion for their Temple, which hefore had mo natme, to tee calleal "the Temple of Jupiter Trellenius," and again in *. Ant., "XIII, iii, \& 4, in which he gives an atemmen of the disputation hefore Poulemy resperting the two Tomples, riz, at Temisim and at Aeruaten?

If there was no Temple at lierisim, he must have falmiathel a poot deal more of his history than the asertimatmot its heing hailt hy stubathat. of whom he records that "he was then in years" ("Ant.," XII, viii, § 2).
H. B. S. W.

March 23rd, 1885.

## BETH HABDECHEREII，OR THE CHOSES HOLSE－ <br> contimued．

## CHAP＇PER V．

1．The momutain of the honse，＂hich was Monmt Moriah，was five hmmbent cubits by five hundred cubits，and it was surrounded hy a wall．${ }^{1}$ And arches were lmile mentarches hemath it，beranse of the tent of devilement．？ And it was all roofed over，cloister within cloister．${ }^{3}$

2．And there were five grates to it；one on the west，and one on the
 was ten cubits and its height twenty．And there were dons to them．${ }^{5}$

3．Tuside of it，a reticulated wall［called soreg］went all round．Its height was ton hamblocalths，${ }^{6}$ and inside of the some，the rampare ten
${ }^{1}$ Middoth ii， 1 ，and i， 1.
2 Parah iii，3．＂The mountain of the house and the courls were hollow underneath because of aianci should be a hidden grave beneath．
${ }^{3}$ Pesachim i，5．＂Rabbi Judah said two cakes of it thank－offering which
 Rashi remarks that this porch was a mountain of the house where the people assembled and sat．＂The Gemara upon the same passage（Pesach， 13 b ）says＂Rabbi Judah said that the moun－ tain of the house was a double cloister which was called תיมตicos， a porch，a cloister within a cloister，＂and here Rashi adds that it was furnished with a roof to protect the people from the main，and that the porch，ボユロゴバ， went all round，ספבּב סבּב מפב ，and had another inside it．In Pesach． $52 b$ ， and Berachoth 33 b ，this remark of Rabhi Judah is again noted，and in the
 anomtain of the house one within the other．＂In Suceah ir，4，it is stated hat the elders arranged the palm－bramehes of the people at the Feast of Tabernacles＂upon the top of the porch，＂and here again the gloss of Rashi adds that the breadth，הコМา，of the mountain of the house was surrounded by covered cloisters．＂These cloisters and their roof are again mentioned in Suceah $44 b$ and $45 a$ ．According to the Calmud，therefore，a roofed double cloister extended all round the mountain of the house，but for the statement of Maimonides that the whole enclosure was roofed over（if that be the meaning of （כולו היה מקורה I find no authority in the＇ralmud．
${ }^{4}$ Middoth i，1， $3 . \quad 5$ Middoth ii， 3.
${ }^{6}$ This reticulated wall（2רור，sorey）is mentioned in Middoth ii，3．Tho
 intertwined one upon the other obliquely as they weave bedsteads．＂Rashi in Fomn $16 a$ says the soreg was＂a partition made with many holes in it like a bedstead woven with cords，and was constructed of long and short pieces of wood called a lattice placed one upon another obliquely＂（cf．Bartenora）．I do not know that it is anywhere stated in the toxt of the Talmud whether the soneg was of stone or of wood．

7 לn，chel．The word（9ב゙タ，its height）is placel between brackets，nnd is perhups an interpolation of the transcribers．That the chel was a space and not
cubits（in lheight）．It is this which is spoken of in the Lamentations （ii，8），＂He made the rampart and the wall to lament；＂that is the wall of the court．

4．Within the chel acos the court，and the whole court was one hundred and eighty－seven cubits long by one hundred and thirty－five broad．s And it had seven gates，three on the north，near to the west，and three on the south near to the west，and one on the east，${ }^{9}$ set opposite the Holy of Folies in the middle．${ }^{10}$
 and they had doms curceed with gold，excopt the castem gate，which was
a wall is proved by sereral passages in the Thatmud．In Sanhedrim $88 \mathbf{b}$ ，it is ：ail＂on sabluathe ami fact days they（the mombers of the conm）sht in the chel．＂Rushi adds＂because the people were many and the place in the chamber too narrow for them．＂Pesachim 64． 6 ，notes that＂the first company（bringing Theiv lambs at the Passover）remaned in the mountain of the house，and the serond in the chel，＂and here Rashi has the important note that it was＂within the soreg，between the soreg and the wall of the court of the women，where the mountain began to rise．＂Baal Aruch says the chel was a place surrounding the wall between the mountain of the house and the court of the women，and that there was a great divinity school，לוֹג 火火רัม，in it．

In Kelim 5 b，we read＂the chel was more sacred than the mountain of the house，because idolaters and those defiled by the dead might not enter there．＂ Not improbably there was a rampart，perhaps with an escarp at the inner side of The open spare，and joined to the wall of the courts，and to this the door of the house Moked opened（Midd．i，7）．The remark of Banl Aruch＂that the chel was a wall higher than the soreg＂would in this case be intelligible，and it may have been such a wall which somo have supposed to have been ten cubits in lieight．

R．Lipsitz thinks that four cubits of the chel were level，and the remaining six on the rising ground，and that those six cubits were oceupied by the steps up if the court，which steps he holds to have extended all round the house for the jeople to sit．upon，and he founds this opinion upon the passages in Pesachim （ $13 \mathrm{~b}, 52 \mathrm{Z}$ ）above quoted，and the gloss of Rashi．This learned Rabbi alse holds that these steps and all the mountain of the house outside of the inner wall（the wall of the courts）were roofed over，and that probably seats were placed on the level ground outside the soreg（Mishnaoth，vol．v， 311 b ，Warsaw 186．1．）Rashi，in Yoma 16 a，remarks that the twelve steps lending from the ＂应el to the court of the women were תin those ten cubits＂which formed the breadth of the chel，because the mountain rose from the Soreg to the court of the women six cubits，and he farther adds，in reference to these steps， that＂in breadth each step was half a cubit，and in length extended，waw，along the whole brearith of the mountain from north to south．＂Of the chel he says that it was＂$a$ vacant place of ten cubits．＂

8 Middoth r，1，2， 6.
${ }^{9}$ Middoth i，4：cf．il．ii，6，and Shekalim ri， 3.
10 Berachoth ix，5．＂A man may not raiso his head lightly（i．e．，indulge in levity）opposite the eastern gate，because that is set opposite the INoly of Molies．＂
covered with brass resembling gold, and that gate was what was called th.. upper gate, and it was the gate Nicanor: ${ }^{11}$
(f. The court was not set in the middle of the mountain of the house, but its distance from the south of the momitain of the house was greater than that from all the other sides, and its nearness to the west greater than that to all the other sides. And the space between it and the north was greater than that between it and the west, and that between it and the east greater than that which was between it and the north. ${ }^{12}$
7. And before the court on the east was the court of the women, which was one hundred and thirty-five eubits long by one hundred and thirtyfive cubits broad. And at its four comers were four chambers of forty cubits by forty, and they were not roofed, and thus they will be in the fiture.
8. And what was their use? The south-eastern chamber weces the chamber of the Nazarites, because there they cooked their peace-offeringand shaved off their hair (Num. vi, 18) ; the north-eastern was the chamber for storing wood, and there the priest who had blemishcs
 which there was a worm was unlawful for the ultur. ${ }^{14}$ The north-westerns rous the chamber of the lepers. In the sonth-western they put oil and wine, and it was called the chamber of the house of oil. ${ }^{13}$
9. The court of the women was surrounded by a balcony, ${ }^{16}$ in order
${ }^{11}$ Middoth ii, 3. In Succah v , 4, it is said "the two priests stood at the upper gate which led down from the court of I-racel imte the comet of the women." That this was the gate Nicanor appears from Niddoth i, 4, "the gat" on the east of the court was the gate Nicanor" (cf. Yoma 19 a). Rashi in himute on Sutah i, 5. says " the gate of Xicathe was the ulper srate, which was in the wall that was between the court of Tsrael and the court of the women." To this gate suspected women were brought to drink the bitter waters of jeulousy
 5) ; Negaim xiv, 8). R. Shemaiah also, on Fielim 5 b, says, "the gate Nicanor was the gate of the court of Israel." In Kle Uammililash vii, G, Mamonitro remarks, "the upper gate was the gate Nicanor. And why was if calletl the upper gate? Because it was above the court of the women."
${ }^{12}$ Middoth ii, 1. The 'losefoth Yom 'Iob gives the follawing measurennen:of the several spaces:-

${ }^{13}$ Middoth ii, 5.
${ }^{14}$ For the chamber of wood, see also Shekalim vi, 2.
${ }^{5} 5$ Middoth ii, 5.
 aliquid imponitur (Buxtorf). This balcony is said by R. Shemaiah amd by Bartenorn to have been for the accommodation of the women during the rejoicins
that the women might see from above and the men from below, and so not be mixed. And there was a large house on the northern side of the court outside, between the court and the rampart (chel) ; it was arched and surrounded by stone benches, and it was called Beth Ihemmoked, the House Moked. There were two gates to it, one opening to the court and one opening to the chel. ${ }^{17}$
10. And there were four chambers in it, two holy and two profane, and pointed pieces of wood ${ }^{18}$ distinguished between the holy and the profane. And for what did they serve? The south-western wecs the chamber of the lambs, ${ }^{10}$ the south-eastern the chamber for making the shewbread, in the north-eastern the family of the Asmoneans laid up the atmes if the altar which the fireek kings defleal, and in the momh-western they went down to the bathing-room.
11. A person descending to the bath-room=0 from this chamher went by the gallery which ran under the whole Sanctuary, ${ }^{\text {,2 }}$ and the lamps at the Fenst of Tabernacles, and they take this opinion from the Gamara (Suecal 51 Z ), which explains that the erection of this balcony was part of the "great. preparations" which were made on that oceasion. "At first the women were
 armanged that the women should be outside, and the men inside, and seeing that the occasion of levity still mose they amangel for the women to be above and the men below" (Gamaru, loc. cil.). Rnshi upon this passuge remarks that in the court of the women there were originally no beams, "99'2, projecting from the walls, and that afterwards they placed beams jutting from the walls all round, and every year arranged these balconies of planks, upon which the women might stand and witness the rejoicings of the Beth Mashshavavah." Both Middoth and Maimonides speak of these balconies as if they were permanent.

15 Middoth i, 5, 7, 8.
${ }^{18}$ aים ע ת תlכיתח, pieces of woot (Rashi in Yoma 15 b). "Ends of beams projecting from the wall" Bartenom (ef. Middoth i, 6 ; ii, 6 ; iv, 5). They do not appear to hare formed a partition, but only to have been a sign indicating the limits of the holy and profune parts of the house.
${ }_{10}$ Middoth i, 6, where it is called the chamber of the lambs for the offering. In Tamid iii, 3, the chamber of the lambs is suid to have been at the southwestern corner, which eviaently refers to its position in relation to the altar and court of the priests, and shows the position of the house Moked itself without contradicting the statement of Middoth and our author. There cun hardly be a donbt that it was, as here stated, at the south-western comer of Moked, though the gloss on Tamid says it was on the north-west of that house (if. Foma 15 b , and Tosefoth Yom Tor on Tamid iii, 3).

 inasmuch as it was not an initiatory rite, and might be repented.
${ }^{2}$ In Tamid i, 1, it is "under the Birah!" "What is Birah? Rabbah, son of Bur Chanah, said that R. Johanan said there was a place in the mountain of the house, the name of which was Birah, and Raioh Lakish said all the house was called Birah," as is suid (1 Chron. xxix, 19) "und to build the palace, birah, for which I hare made provision" (Zerach, 1C4b). Mamonides here uses the
lomed on either side until he came to the hathing－romm．And there was a large fire ${ }^{23}$ there and an excellent ${ }^{23}$ watercloset，and this was its excellence，that if he fonnd it shut he knew there was some one inside．

12．The length of the court from east to west was a hundred and eighty－seven cubits，and these were the measurements，riz，from the western wall of the court to the wall of the temple（דיכ）eleven cubits， the length of the whole temple a hundred cubits，between the porch and the altar two and twenty，the altar two and thirty，the place of the tread of the feet of the priests，which was called the court of the priests，eleven cubits，the place of the tread of the feet of Israel，which was called the court of Israel，eleven culits．${ }^{21}$

13．The breadth of the court from morth to south uces a hundred and thirty－five cubrits，and these were the measurements，${ }^{23}$ viz，from the north wall ion the shambles eight cmbits，the shambles twelse entrits and a half： and there on the side they hung up and skinned the holy sacrifices．

14．The place of the tables was eight cubits，and in it were marhle tables，upon which they laid the pieces of the offerings and washed the flesh to prepare it for being boiled．These were eight tables．And by the side of the place of the tables was the place of the rings，twenty－four cubits，and there they slanghtered the holy sacrifices．

15．Between the place of the rings and the altar ucus eight cubits，and the altar two and thirty，and the sloping ascent to the altar（ゼユユ， Kebesk）thirty，and between the sloping ascent and the south wall twelve cubits and a half．From the north wall of the court to the wall of the altar，which was the breadth，was sixty culits and a half，and enrresponding to it from the wall of the porch to the east wall of the court， which was the length seventy－six．${ }^{26}$
ferm Uップ，miketash，as synonymous with Girah．Burtonora，in Pesnehim vii，S， and again in Tamid，remarks that＂the whole of the Sanctuary was ealled 13irah．＂ The gallery here spoken of，חコロD，ambitus，circuitus，was subterranean， กดภ（Beth Inbbec．viii，7）．It openeci into the profane part of the enclosuse， and was consequently not holy．

2．A wood fire，מרורח．Cf．Tsaiah xxx，33；Ezekiel xxir，9， 10.

$\because$ Middoth r， 1.
2i Middoth $\mathrm{v}, 1$.
2．In Middoth 5,2 ，where the mensurements of the court from north to south are giren，a remainder of twenty－five cubits is said to hare been＂between the sloping ascent and the wall and the place of the pillars，＂and Maimonides has allotted one－half of this measurement to the former space，and one－half to the latter，the result of which is to place the central line of the altar nine cubits south of the central line of the door of the＇lemple and of the court．Ifis anthority for this is the Gamara of Foma 16 b ，for although 12 ．Juctah maintainet（loc．cit．and Zevach． 58 b）that the altar＂was placed in the midale of the court，and measured thirty－two eubits，ten cubits opposite the door of the Temple לכי，eleren cubits to the north and eleven cubits to the south，＂the
16. All this quadrangle was called "north," and it was the place in which they slaughtered the most holy sacrifices. ${ }^{27}$
17. There were eight ${ }^{2 s}$ chambers in the court of Ismel, three on the
 to prove that " the greatest part of the altar lays to the south."

The following are the measurements given by the three chief authorities:-

|  |  |  |  | $\begin{aligned} & \text { Midhloth } \\ & \text { : inmare } \\ & \text { ciamars } \\ & \text { of Yoma. } \end{aligned}$ | $\begin{aligned} & \text { Maimn. } \\ & \text { nides. } \end{aligned}$ | Mashi. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| From north wall to phace of the pillars | . | $\ldots$ |  | 8 | 8 | 8 |
| Place of pillars ${ }^{\text {a }}$ | . | . | $\cdots$ | $12 \frac{1}{2}(?)$ | $12 \frac{1}{2}$ | 1(1) $\frac{1}{2}$ |
| From pillars to tables | . | . |  | 4 | . | 4 |
| Place of tables . . | . | . |  | . | 8 | 4 |
| Hrom tables to rings | . | . | $\cdots$ | $\cdots$ |  | 4 |
| Place of rings .. | . | . | $\ldots$ | 2 | 24 | 24 |
| From rings to altar. . | , | . | - | 4 | 8 |  |
| Altar .. $\quad$ - |  |  |  | 38 | 32 | 32 |
| Sloping ascent - | - | $\ldots$ | . | 32 | 30 | 30 |
| Between sloping ascent and south wall | . | . |  | $10 \frac{1}{2}$ (?) | 122 | $10 \frac{1}{3}$ |
|  |  |  |  | 135 | 135 | 135 |

Acomeling to Maimoniles, thewefore, twont? Five rubits, and acomang io Ra-hi, twenty-seven cubits of the altar were south of the central line of the court. Rashi, in his elaborate note on this subject in Yoma $16 b$, explains that the northern side of the altar extended just as far as the northern doorpost of the central gates, and that the receding of the founclation and circuit of the altar (Midd. iii, 1) left two eubits on the northern side of the top of the lower gate
 this small space the priest standing on the Mount of Olwes could see into the door of the Temple (Midd. ii, 3). It will be remembered that the summit of the altar was exactly twenty cubits above the floor of the court of the women, and that consequently the aperture of the lower gate was obstructed by it to the top, except on its northern side, if Rashi's supposition us to its position is correct, and on the south of the northern hom where one cubit would bo left above the altar, Hhengh which a peran combla sumb the Tample if his ene were placel in a lime with the lintel or not more than one cubit below it. As to the priest on the stmmit of the Mount of Olises lumbing through the gatewa! thas will appear harclly pusible when it is remembered how much hisher the Monnt of Olises is than the Temple Hill. He must have looked over the eastern wall and over the lower gate.

27 Zevachim $20 a$.
2s Middoth v, 3 and $\mathrm{i}, 4$, and Yoma $19 a$. In Yoma the chambers on the north and south we placed as Maimonides here places them, but in Middoth the chambers of salt, of Parvah, and of the washings are placed on the north, and the other three on the south.
north and three on the south. Those on the south were the chamber of salt, the chamber of Parvalh, ${ }^{20}$ and the chamber of washing. In the dimmher of salt thes pur salt to the offoring, in the chaminar Parvalt fhey s.atred the skins of the hely meritiens, and on its row was the hathing-room fin the High Priest, oin the Day of Atomemems In the chamter of wathimge they wabhet the inwards of the haly sacritioes, and from it a
 And the three on the north ime the chamher of hewn stome, "the chambley. of the draw-well, and the chamber of wood. In the chamber of hewn stone the great Sumbedrim sat, ami half of it was louly ame half was profaon: and it had two donss, one to the holy and one to the profane part, and the Sanedrim sat in the profane half. In the chamber of the draw-wellas

29 R. Shemaiah on Middoth ( 37 b) says that the name Parvah was derived
 sancrifices which were salted in it. Baal Aruch quotes from Yoma 35 , $a$, Whant.

 say that he dug a hollow phate undergromat in the Fan flat? © that he mighe see the service of the Migh Priest on the Day of Atonement; that the wise men became aware of the pit which he had dug in that place, and found him, and that the chamber was ealled ufter his name." Maimunites in his commuent ont Middoth says " l'arrah was the name of a magitian who dug in ther wall af the. court in this chamber until he could see the service; and he was killed." Sinee the servico of the Day of Ifonement wat ehienls forform at on the numblem bite of the court, this story is a confirmation of the statement of Middoth that the chamber of l'urvah was on the northern side. Bartenora, quoting Rashi (on

 the same writer intimates that the chamber was buit by magie. Parvah was in the sacred part of the Temple enclosure (Yom iii, 3, 6).
${ }^{3)}$ Foma iii, 3, 6.
${ }^{31}$ ת"גat תכטיל. The chamber Gazith. The Gamara of Foma (25 a) satys "it was like a large basilica; the lots were on the east, the elders sut: on the west," so that its long diameter appears to have been east and west. That on:e half of it was holy and one half profme is stated on the snme page. The renson
 David might sit in the court (loc. cit.). The Tosefoth Yom Ior (Midd. v, 4) says the chamber of the draw-well was south, and the chamber of woud to the north of the chamber Gazith.

 of the , hhan -ia, the well of the emptivity, heme phamed it it, and this mell is
 given its name to the chamher (Bartenoma and Timenth Jom Tin). This wull is mentioned in Erubin x, 14. "They were permitted to draw water from the well of the caplivity and from the great well on the Sabbath." R. Shemaiah, in


was a well from which they drew by means of a bucket, ${ }^{33}$ and thence supplied water to the whole court. The chamber of wood ${ }^{31}$ ' was behind these two. It was the chamber of the High Priest, and is what was called the chamber Parhedrin. ${ }^{35}$ And the roof of the three was even. And there were two other chambers in the court of Israel, one on the right of the eastern gate, which was the chamber of Phinehas the vestment keeper, and one on the left, which was the chamber of the pancake maker.

Ti?d, means also a fountain or source of water (cf. Jud. i, 15), and immsmuch as it is taught in both 'lalmuds (Jerus. Yoma $41 a$; Bab Yoma $31 a$; Bechor $44 b$; Shath. 145 b, amit the notes of Rashi, hlao Maim. Baifh Hammihdasit s. 15). that the water of the Fombinin Etham. Ea'Y, was benment to the Temple, it is mot certuin that הhim ת ת awh dheuld not bre ram-lated "the chamber of the formtain." Solomon's molten sea is said to have theren supplied from Ehhem, and the laver to have been filled from it. In Yoma $31 a$ it is said "the fountain of Etham was twenty-three cubits above the level of the court."
${ }^{33}$ ג ג ג is anso a jug or similar vessel, lecythus, or "a large round basin,
 signified by Maimonides, but whether it was of wood, metal, or clay it is impossible to determine. The suggestion of a modern commentator (Mishmaoth Schmid, Vienna, 1835) mny here be noted "probably the בור הגולה was a common well with two buckets worked by a wheel. one descending into the water as the other was drawn up."
${ }^{34}$ The chamber of wood is suid to have been for storing the wood fit for the altar (Tosefoth Yom Tov to Midd. v, 4; cf. Midd. ii, 5).
${ }_{35}$ "Seven days before the Day of Atonement they separated the High Prjest. from his honse into the chamber Parhedrin" (Yoma i, 1). "And why the chamber Parhedrin? Was it not the chamber of the councillors? At first it

 change it every twelve months, as these assessors were changed every twelve months, therefore they called it ;he the chamber of the assessors" (Ib. $8 b$, and the note of Rashi). "Rab Papa said there were two chambers for the High Priest; one, the chamber Parhedrin, and one the chomber of the house of Abtinas; one being on the north, and one on the south, of the court

I do not know whether the chamber Parledrin was on the north and the chamber of the house of Abtinas on the south; or the chamber of the house of Abtinas on the north, and the chamber. Parhedrin on the south, but we are of opinion that the chamber Parhedrin was on the south " (Yoma 19 a).


COT. SIR CHAMHES W. WITEON, K.C.M.C., C.13., LT.1., F.1R.S., IR.E.

## THE

## PALESTINE EXPLORATION FUND

## NOTES AND NEWS.

We have received, too late for the Quarterly Statement; a most important macket from Herr Schumacher, a note concerning which appeared in the January and April numbers. It contains a map covering about 200 square miles of a part of the Jaulan, that little known and extremely interesting comatry ly ing east of the lake of (alitee, fomenty Gananitis after the hitherto undiscovered city of Golan (Josh. xxx, 8, and xxi, 27), one of the three cities of refugo in the East. It has been traversed by Burekhardt, Porter, and Wiladian, Mr. Cy ril Graham, Mr. Iaruenee Oliphant, and 1)r. Selah Memill. Trer Schumacher, however, is the first who has surveyed any part of the country, and planned and sketehed its ruins. The results of the work are bery brienty summed up in the repurt of the Eientive Comanitlee hefow. He hats di-avered, almont hegond prowibility of doubt, the Bobliwal (ionlan. He
 something like sut dolmens; he has partialls planmed the mot. curions sutiterranean city of Dern, and he lins planned and deseribed all the monuments and buillings in the pla eo whith he sisited, including the wery intereating plate round which are gathered the traditions of Job. He has also given a most valuahite gromeal hletrigition of the comblry, aml has gathered a goond coilectiom of Arabic numes. It is suflejent commendation of the work to state that its plawes may he placed side by site with thane of Captains Comicer and Fithener in the " Memoirs of the Survey of Western Palestine."

The Commithee have decided to produce this moms separat ly and to present a copy of it, puat free, to every subarmber of the Fumb who may make application for it. A fomm of application is enclusel. The book will he sed up uniform with the cheap editions of "Heth and Moab" and "Tent Work," and will form a volume about half the size of these books. It will be issued with the October Quarterly Stutement.

We are enabled by the courtesy of the Proprictors of the Pictorial Wrorld to present with this number a portrait of Sir Charles Wilson, who has now returned from Egypt.

The interest athaching to Herr Schumather's work will be increased by the paper promited to the Suciety, and publashed in this mumber, bis Ar. (iuy le

Strange. It is an account of a short journey cast of the olocian, and of a visit. to Pella, the Kalat el Rukut, which is outside the part survered by Captain Conder; Jemsh, the Waly Zorks, Fajuz, and Amman. Mr. le strange carries with him in his Enstern travels a rare acquaintance with the works of Ambian amt Persian tmollems. Ife has undemaken to translate and to amotato for the Pilgrims' Text Society, the Travels of Mokaddasi.

The motes ly Mr. Laurence Oliphant and by Them Hanauer are curtons and intereting. Thin Rosel Altar close to the site of Zomb strongly sucgests the story of Judges xiii, 19, and the altar of Manoah. It seems to be, at any rate, of extreme antiquity.

On Sumbay evening, June 21st, died suddenly, at his revidnee in Cheyne Walh, Mr. W. S. W. Vanx, F.R.S., formerly keper of C.ins in the Botioh Muséum, and latterly Secretary of the Royal Asiatic Society. Mr. Vaux became a member of the committee of this society on its fommitation, May 12. 1sis), for the whole period of its existence he remained a member, amb attended meatly every meding of the Committee. It is loss is one which will not be casily filled up.

A mi un Tuesiay, the 29m, died, at his re-ibence at Penzame another of the Soriey's oldent frionds and supporters, A. Lhond Fox, a member of the (ienoral Committee, and the Society's Hon. Secretary for Falmouth.

P'refess if In ll's work, "Mount Seir," is now ready. New ealitions have also beon issued of "Tent Work" and "Heth and Moab" at six shillings each.

Light upon the ancient customs of Palestine has been thrown from a rery unexpected quarter, namely, Russian Central Asia. Dr. Lansdell ("Russian Central Asia," Sampson Low \& Co.) has discovered as far to the east of Palestine as London is to the west, and among an Iraniun population, many Somitie cuatoms demribed in the Sared Bonks, aprecially thoe written after the Captivity. These enatoms may have had a common origin, or, as Dr, Dansdell suggests, they mny have been taken castwards by the Ten Tribes.

The inoome of the suciety, from Mareh 1 thin inclusive, was-from subseriptions and donations CQGO 9s. 6d, from all soures Eisl ISs. Ed. The expenditure during the aame period was £382 1s. 6id. On June 24th the balance in the Banks was £351 12s. 1 d .

It is suggested to sulseribers that the safest and most conventont manmer of paving suliecriptions is through a Bank. Many subereibers have ablopted this method, which remores the danger of los or miscarriage, and remders unnecessary the acknowledgment by official receipt and lettor.

Subseribers who do not receive the Quederly Statement regularly，are ashed to send a note to the Secretary．Great caro is taken to forward ench number to all who are entitled to receive it，but changes of address and other causes give riso occasionally to omissions．

White desiring to give every publicity to proposed identifutations and of her theories adraneed by oflieers of the Fund and contrilutors to the pages of the Qucerterly ぶ能mont，the Committee wish it to he distinctly understoved that hy publishing them in the Quarterly shatement they neither sanction nor atont them．

The only authorised lecturers for the Society are－
（1）The Rev．Menry Geary，Vicar of St．Thomas＇s，Portman Square．His lectures are on the following subjects ：－
The survey of Western Palestine，as illustrating Bible History． Palestine Last of the Jordnn．
The Jerusalem Excavations．
A Restoration of Ancient Jerusalem．Illustrated by original photo－ graphs shown as＂dissolving views．＂
（2）The Rev．James King，Vicar of Si．Mary＇s，Berwiels．His subjects are as fullows ：－
The Survey of Western Pulestine．
Jerusalem．
The IIittites．
The Moabite Stone and other monuments．
（3）The Rew．Janes Neil，formerly Ineumbent of Christ Church，Jerusalem．
（1）The Rew．（ieonge si．Clair，formerly Lecturer to the Soeiety，is about to organise，by arrangement with the Committee，a course of lectures this winter on the work of the Society．

## THE LATE MR. W. S. W. VAUX.

Wr have to announce the sudelen death, at the age of sixiy-seven, of Mr: Willian samlys Wright Vaux, M.A., F.R.S., the well-known nmmismatist and Oriental siholar. His long connection with the British Musemu, the service of which he entered in 1841, the gear after his graduation as B A. at Baliol College, Oxford, and from which he retired in 1570, culminated in his keepership of the Department of Coins and Medals, which he occupied for two or three months short of ten years. As an expert in this spluere of learning, he actel for some time as a joint editor of the Numismatio Cliromicle, arranged and deseribed for the suciety for the Pullication of Oriental Text the series of faresimiles of the enins struck ly the Atabeks of Syria and Persia, 18.15, and, among other leamel eontributions, communicated to the Numismatio Socety of Lamon in 186:3 a paper "On the Coins reasouably presumed to be those of Carthage." He was employed from 1871 to 1876 in the compitation of a catalugne of the coins in the Bonleian Library for the University of Oxford. As a scholar of more genem and literary activity, Mr. Vanx prepared, in 1451, a destiptive "Handbook to the Antiquities of Greek, Assyrian, Egyptian, amel Etruscan Art in the British Mnsemm." He was the author of "Ninereh aml Persepolis, an historical sketch of Ancient Assyria and Persia, with an accoment of the recent researches in those countries," 1850, which reachen its fourth edition in 1855, and of which a Gernam translation ly Ir. J. T. Zenker was pmblished at Leipsic in 1852. To the series of the Society for Promoting Christian Knowledge, generically entitled " Ancient History from the Monuments," Mr. Vanx contributel two several works- "Persia, from the Earliest Period to the Arab Conquest," 157.5, and "(irreck Cities and Islands of Asia Minor," 187. These works, however, liy no means exhanst the list of Mr. Vaux's prohuctions, which embrace numerous oontributions to the transactions of varions leamel societies, and especially to those of the Royal Siciety of Literature, of which Mr. Vanx was for some time secretary. On New Year's Day, 1876 , he was apmintent to the seeretaryship of the Royal Assiatie Society, an office which he held until his death, at his residence in Cheyne Watk, Chelsea, in Sumlay erening last. Mr. Vaux, who was the son of the late. Prebendary Vaux, of Winchester, Viens of Romsey, Ifants, was born in 1s1s, amd was educated at Westminster and Baliol Cullege, Osford, where, as alrealy mentioned, he took his B.A. degree in 1840. Sn the word of learuing he was a man of very wide knowledge and of the most varied accomplishments, and he was much estemed loy a large circle of private friems.- Fiom the Times.

## ANNEAL MEETING OF TIIE GENERAL COMDITTEEA

Tus Anmal Meetine of the General Committee was hele at the Simety's Offices, 1, Adam Street, Adelphi, on Wednesday, June 24th, 1885.

The Chair was taken by Mr. James Glaisiefr.
The minutes of the 'last meeting were read and confirmed. The secopetary then read the following Reprot of the Rixecutire Committee:-

## "My Lords and Gentlemen,

"Your Committee, elected at the last meeting of June 19th, 1884, have, on resigning office, to render an acembut of their administration during the past year.
"I. The Committee have held nineteen meetings during the year.
"II. The 'firman' necessary for the prosecution of the Survey of Eastern Palestine is still withheld ly the Turkish authorities.
"III. The work of exploration in the Holy Land has been carried on during the last twelvemonths hy Mr. Lamemee Oliphant, Hem simmarher, and Mr. Guy le Strange. The best thanks of the Committee are due to these crentemen for the valuable reports and papmes given to the somet?
 by Mr. Oliphant, have alteady been published in the (!utrotaly statement. Gher notes liy the same genthonan will appear in July, tugether with an account of a journey east of Jordan by Mr. Guy le Strange. The Committee hare also just receivel, amt have great pleasme in lay ing ou the tahk, a really magnificent contribution to the Survey of the Eiast, in a packet of momoirs, plans, and map, from Herr schumacher. This work, certainly the most important examination, so far as it genes. of the Jaulan district, as set made ly any,traveller, is put forward ly the committere with great satisfaction as the principal work of the year. It is pmomeal (1) issine this in a separate form apart from the Qumbirly stut mont, and th present it to all subscribers whomay desire to fuseess a copl. The map will he imenporated with the map of the Soncety, aml latid down wn the sheets now being prepared by Mr. Armstrong. It covens alont 2 oo squate miles: the Memoirs contain a list of Arabic mames a gememal description of the combery with its peremnial streams, cascader, forests, villages, roands, amt people, and an acoont with excellent plans and drawings of the villages and ruins in the district visited by Herr Schumacher.
"A mong the principal muins described may be mentioned that called Kh. Arkub er Rahwah, which Herr Schmmadher would identify with the Argub of the Bible, commonly placed at the Lejjah. He is supported in this view by the amthority of Burekharah, who maintained that Argob wouht be foum some where in southern Jamlan. Important ruins were foumd in the Ain Dakhar and Beit Akkar. North of the former place is a field of
dolmens, in number not short of 500, calleal by the natives Kubur Beni Israil-graves of the children of Israel. Ancient stone bridges were found crossing the streams at Nahr el Allan and Nahr Linkkad; a remarkahle altar was found at Kefr el Ma, conjectured by Herr Schumacher to be the Maceabran Alima. Here a remarkable statne of basalt was also found. In a village called Sahem el Jolan, Herr Sichumacher thinks hee has sliservered the Biblical Golam, which has hitherto escaped identification. The situation, the name, the extensive ruins, and the traditions of the people, all seem to confirm Hert Schmmacher's conjeature. The ruins of the remarkable underground eity of Ed Jera were examined and plameal for the first time, together with the towns and momments of El Mezeirib Tuffas and Nawar, identified Ly Mr. Oliphant with the land of Cz ; ofher sulterranean buildings were fombl at Kh. Sumakh and at Sheik Saad. The rock tomb of Joh, was also photographed and planned. These Memoins amd Maps may be considered as following immediately on the notes furnishell by Mr. Oliphant fors the Querterly statement if April last. The recovery of two important Biblical places, the mass of light thrown upm ancient worships, the great mubure of ruins phamed, and the eare and intelligence hestowed ugon the whole wonk, render it incumbent upon the Committee to ask the Gencral Committee for a special vote of thanks to this young explorer, as well as to Mr. Oliphant and Mr. (ing le Strange. It must also be mentioned that. Mr. Oliphant has discosered atolmen in Juloa, where hitherth none hat heen fonmd. It lies in a desert and hilly port of the country, on sheet 115 , if the great map. A mother interesting disenvery is one made by Hery Hananee, close to the site of the ancient Zorah, of a rock altar which suggests the passage in Judges xiii, 19 and 20.
"The publications of the year in the Quarterly Statement have also inchuded Major Kitchener's important gengraphical report of the Aralah Valley. An archeological paper by Clermont-Ganneau on Palestine Antiquities in Lamdon, and commmications from Canon Tristram. Res. 11. (lay Trumbull, Rev. H. (: Tomkins, Dr. Selah Merrill, 1)r. Ghaplin, Rev. W. F. Birch, Profesor Hull, Mr. Baker Greene, and others, to whom the beat thanks of the Committee are due. The books puhlished by the Commitee since the last meeting of the Genemal Committee are 'Mount Seir' by Professor Eull, and cheap editions of Captain Conder's 'Tent Work' and 'Heth and Moah): The remaining copses of the 'Survey of Weatern Palestine' have leeen placel in the hands of Mr. A. 1'. Watt, of Paternoster Row, for disposal, sulject to the condition that no reduction be made on the original price of the work.
"The Committee have now in their hands the whole of Professor Hulls (imenkgieal Memoiss. This important work has been sent to the printers and will be issued as soon as possible.
"An arrangement has heen made with Mr. H. Chichester Fart, by means of which we shall be enabled to publish his Memoirs on the Natural Mintury of the Ambah. Herr Rechmmather will also, it is hoped, continue his researches as opportunity may offer.
"The Balance sheet for the year 1891 was pmalialled in the 1 pril Quertionly, Etutement. The Eneiets received during the year the sum of

 Since the heriming of the year the sum of $[1,224$ has heen received:
 management $£ 346$.
"As regands the maps showing both Fastem and Western Palestine with the Ohit and New Testament names on them, they are mew ready for the engraver, but will mot be handed to him until Hewt Sohmanher's work (an be laid down on them. Mr; Apmstrong has also completed a list of Old and New Testament names with their identifications.
"The Committee have to express their best thanks to the Local Hom. Bocretaries, and to all who have helpeal to spread a knowledee of their work, which, as will he seen from the preeeting report, is audivels going on, and will continue to do sot, as long as any part of vor original prospectus remains to be filled up.
"The Connmittee have lastly to dqphore the sudden death on Sunday last, the 21st, of Mr. W. S. W. Vaux, F.R.S., formerly Chief of the Numismatic. Department in the Britich Muscum, and lately Secreary of the Roral A siatie Society. Mrs. Vaux has heen a member of the Exeentive finmmitees sine the formation of the Society on May 12th, 18:85. There has hardly heon a mowting from that date until the last meeting of June oud at which he was not present, and his interest in the Somely and his wathfulness over the mivance of its work have never censed from the legiming."

The radprion of the Repront was propmed ly Dr. Cnapras, of Jownsalem, who spmee of the way in which the work of the suciety was steadily growing in remgnition, and seconded hy Mr. Granc Gianam, who lene festimony, from his own experience in the country, to the heanty and excellence of Herr Schumacher's work.

The Dean of Ciester proposed the re-election of the Executive Commitlee. This was secomded by the Rer. De. Diowr. Both gendemen took occasion to speak of the great loss the Sorejety had sustained in the lamented death of Mr. Vaux.

Mr. Hexrr Mactishar propused, and Mr. Cracis seconded, a rote if thanks to the Chairman.

# THE SITE OF EMMAUS. 

(See Quarterly Statement, October 1884, April 1885.)
Is reply fo Mr. Mearns I conly ask permisaion to powe my statement that Josephms IBell. Jut. iv, I dues interped Eimmens to meath, in the
 is Ocpua, motion baths, wefermes th the gentle heat of haths. Pint if he hat meant bent spines lee wonh have died the feminime, Ocpucte" Whaterer the lexicon may say, Josephus leaves no doubt as to his own employment of $\theta \in \rho \mu \boldsymbol{a}$ in the passage before us. His words are: $\mu \in \theta \epsilon \rho \mu \eta \iota \in v \rho \in \nu \eta$ © $\varepsilon$
 intrificus. Mr. Mearns paraphrases this passage in the following somewhat imaginatise mamer:-"Josephus says that the meaning of a warm hath was fremliarly applicable to the Tiberian Emmans; for in it was a spring of hot water to supply the bath, and useful for healing. The historian distinatly says that the name always points to a warm bath." The italies are mine.) If Mr. Memos reads his authors in this fashion, I think I may safely leave my argument to take care of itself on other proints on which he animadverts.
A. Kemnion.

# ACCOUNT OF A SHORT JOURNEY EAST OF THE JORDAN. 

By Guy le Strange.

Tus impediments which, at the fresent time. the Turkish Government almont invariably throw in the way of any one who attempts a journey into the country across the Jorian, and having heard of the large sums usmally demamied of travellers hy the Sheikhs of the Bella umber plea of eseont dues-mblobldens me to offer this present aceonnt of a hurried trip, throngh 'A jlan and the Bellat, suceesfully carried out during the momth of November, 1884, withont Goverminent permission, tents, latgage-mules, of blacknail. We left Nazareth on the moming of Tuesday, the 11th of November, but, as is often the case on the first day of a journey. the start was delayent hy rewom of tritles forgotten till the last moment, and, in consequence, the smm was already two homs on its course before we lost sight of the white honses of Nazareth and threaded the ravines down into the plain of Esdraelon. Pella was to have breen the end of the first stage. Imt the shy was clomuling iu, and theatening a deluge : hence even hefore we had passed the rillages of Nain and Endor it sermed hopelom to attempt getting aoross the Jordan that clay. The min, howerwe, held off till after hunch, which was disernezel on the green lank of Goliath's river, the Nolir Jathal, which rums into the Jordan after watering Beivin, and then we walked nur horses through the ruin of the beantiful Saracenic Caravanserai overhanging the st eam which is known as the Khian el Ahmar, or "the Red." But an hour later, white pasking through the squalid village of Beisan, atol casting a lumpiel glance at the imposing and widespread ruins of the ancient Sorghoprolis of the Decapolis, down came the rain in torrents ; and the sky at the same time displayed surh sure tokens of something mure than a passing shower, that by 4 oclock it was determineel to seok shelter and a night's lenging in the linspitalle tent of an Arab, whom we foumal camped below in the valley of the Jordan.

For about ton homs the rain camtinued with but little abatement, ssaking through the hair walls, and drimping from the roof of our host's alunde, and further cansing the sheep and goats to he disagreeahly ansions to participate with us in the comparative shelter which the same affindel. However, thy a comple of hours past midnight the sky was again clear, and I mas add that chring the remainder of the trip as far as Jerveatem, the state if the admosplate was everything that combly deaved. The late antumn in Palestine, as a seaton for journeying and explotation, has perhaps some advantages over the spring, if only the traveller be sufficiently fortunate to happen on the sis weeks on two monthe which genosally intorvene hetween the canty antumu showers and the steady rains of wimer, which liast do not, ass a rale, begin much before Chriatmats.

In the amtmm, the lame, having heen parelied lyy the smmmer heats, is of course lens green and heantiful than is the casse in the conly days if shming: but, on the other hand, mins are no longer concealed by any luxuriant vegetation, and since the coolness of the weather renders a shortened halt at noon a matter of no inconvenience, the traveller can devote to the hasiness on hand atl the homs of das light, which even at this seamon can be counted upon as lasting from 7 A.m. to 5 p.ar. Bedouins in general are of course early risers, and we, their guests, had in consequence no difficulty in getting early into the saddle, so that before the sun had made its appearance above the momitains of Ajlan we were riding eastwards over the fertile lands of the Ghor, the Arab name for the mighty "cleft" through which the waters of the Jordan pour. At the present day
 certain price in the market, is not to compare with the description that has heen left to us of its fertility in the century preceding the arrival of the Crusaders. Mokaddasi, ${ }^{1}$ writing about the year 1000 A.D., describes Beisan at his time as being rich in paim trees, and informs us that all the rice used in the provinces of the Jordan, and of Palestine, was grown here. At the present day no rice is cultivated anywhere in this neighbourhood, nor for the matter of that, as far as I know, in any other part of Palestine, and the palm has long been gone from here as from the shores of the Sea of Tiberias, where, according to the geographer above qumber, there mi hit twe men in his days "all atount the labe villayes and date palms, while on the same sail boats coming and going continually.",

That the bygone prosperity might easily return to this country, should circumstances (i.e., the Goverument) again become propitious, was an idea that impressed itself on us, each moment the more, while riding over the rich soil, and fording at every hundred yards the streans which here intersect the Ghor. An abrupt descent brought us in an hour to the Jordan, at a ford where the water scarcely reached the bellies of our horses, and we had the luck to be guided to the right place by three of our hosts of the previous evening, who, mounted on their wirey, bald-tailed mares, and armed with the long Arab) lance, had turned out to accompany us during the first few hours of the way. Across the Jordan we suddenly came upon an encampment of black tents, tenanted by kinsmen of our last night's host, and as a consequence were condemned to waste a precious hour while coffee was prepared and ceremoniously drunk, followed by a light repast of bread and sour milk; and hence it was past nine before we reached the ruins of Pella, although these lie but an hour distant from the spot at which we forded the Jordan. As Mr. Selah Merrill very justly observes in the work which, unless I am misinformed, is as yet the

[^4]sate fruit of the Anerican Palestine Explomation Sowiety, "Tahakat Faht is a leantuful lueation for a city, and the wonder is that it should have heon firsaton." Been after the long summer drongth, the springs Gushing ont anmeng the lovken colnmes and ruins of former aplendour, a are abmolant enough to make feetile all the meightoming lamb, which, situatal as it is on the uppor level of the (ihim, and 200 feet helow the sea, cmjons, perhaps, the linest elimate, from an agricultural point of siew, that can be found in Syria.

That the Arab name of Tabakat Fahl, the Fahl Terraces, represemts the amment Greak Pedla, there can he little donht. Dr. Robinaom, who was the fiem the make this itentitieatim, is mow mean antority in stols matters, and firther. Mr. Mempill, who disernsees the various objections which may toe urgeed agminst dhis presomt site, winds up, the argument by bringing thegether a mas of evilenve in favour of this being the ancient Pella of the Ihenapolis, giving citations from the works of Josephus, Stephame of liyautimm, Tushins, and othos, whu theat of the carly topmaphy of Thlestine.' It may be of some imterest to add that though the sute has, 10 all appearance, for centuries been abandoned by the Moslems, it is tomowned in their couly elrmmicles as heing the fietd which witmomed the great "Baule of Thhh," which, sis conturies aftee Clarist, sated the fate of Byzantine rule in Syria. ${ }^{2}$ According to the amalist Tabari, this collobated viलtory was gainel in the year 13 A.n., ${ }^{5}$ and the gougrapher Yakut asserts that the Greeks left 80,000 dead on the field.

Tu the first diesules of the Glibistian and, Piny, domitine Pella, motes its abmulant waer suppls, and in the Talmod this ciey is mentioned under the name of "Phahil," as having hot springs." At the present day, loweser, the spoings, though almadant, are appmebtly mot thermal. We found them icy cold, and perfectly sweet, and on this point it may be added that the Arab geographers never allude to them in their enumeration of the numembs Hammans wi doe Jowdan Valley. Neghenting the Greek name Pella, the Arabs, according to their wont, revived the older Semitic pronumeiation of Phahil, which they wrote Fahil or Fihl. It is
 after atating the correat prommiation of the name be he "Fiht," comtinues, "I beliove this name to be of foreigu wrigin, since 1 do not recombise in it the form of any Arab word." And that this Pella was the place which





1 "East of the Jordan," by S. Merrill (London, 1881), pp. 412-447.
= Weil., "Gesch. der Chalifen," I, 40, et seq.
${ }^{3}$ Ed. Kiosegarten, II, 158.

* Conder's "Mandbook to the Bible," 3rd edition, p. 315.
s "Mo'jum-al-Buldâu" (Leipzig), III, 8 ธ̄3.
"Quoted also by the author of the "Marâsid-el-Ittilâ," ed. Juynboll, II, 336, whose work is a critienl abridgment of Yakut's Ency clopredia.
of the Jordan, we had ridden in a comple of hours. Pella, on Fihl, must have fallen into ruin very shortly after the Moskm conquest, as is prowed by the absence of all Saracenic remains among thase of the Byzantine epoch which cover the ground in all the neighbourhond of the springs. A like fate also befell most of the great Greek cities over Jordan, such as Gerasa (.Jeraish) and Philailelphia (Amman), where we find little that is Muslem among much that recalls the Christian times. A few generations later, after the thim century of the Eejra, the very name of Fihl ceases to he mentioned in the itineraries and town lists of the Arab, gengraphers, and neither Tstakhri, Hon Hankal, nor Mokaddasi (himself a Syrian) take any notice of the place. Still, in A.n. 2is, one of the earlient of their geographers, Yaknibi, considered it a place of impintance, for in his smmmary of the citimes of the military province of the Jondan (. F and al (idami), after describing such fowns as Acre and Tyee, he mentions' toge-ther Tibnin, Fiht, and Jerâsh, adding that "the population inhaliting these towns is of a mixed character, part Arah, part foreign" (al "ujem), by which last term, if I am not mistaken, we are to understand the native Greek-apeaking Christians who had not been displaced by the immigrant Arabs. Fihl, of Tahakit Tahl, as the phace is mow catlen, having thus been left undistursed fur nigh on a thousand years, would dombtess yield a rich archeodogical harrest to any one who conld spemd some days among the ruins, and carcfully examine the very large number of lowken cornices and other carved stomes which lie about on every hand. Comsiderable remains of buildings also, that were once adomed with columns, surround the spot where the springs gush out from the hill-side.

Although the Jordan Valley is elsewhere parched after the summer droughts, the Fihl Ginge was a mass of waving green deeds, reaching higher than a horseman's head, and almost completely makking from view the ruined ellifices which lay partially sulmerged in the ruming water. Near what must have been a bath-julging from the lapge pisaina -stood a fine monolith in white marble, above 8 feet in height; and anneng the reend, a scove of paris further down, and nearer the nor ha lank, Were two others, risinge, each of them, orer a dozen feet out of the pool in which they stood. But nowhere did we notice inscriptions. The great erntre of population would sern to have been up on the hill-sile on the rigbt or northern bank of the stream. Here there are traces of a large necropolis with immmerahle samophagi lying alout on every hand. In mont cases these laet had heon smashed up by iconoclastic treasure-seekers, hut some remained alnust intach, dipplaying the Christian emblems peamifully earved in the white stome. One in partimatar was moticeable from its high artistic merit. The lid of the sarcophagus was still profect, alomed with three wreaths chiselled in high relief, and letween
thenn, in monerram, the and the A.W. But with no further

[^5]inseription. Traces of luildings and half-huried columns lie in profusim to the sombla of the necropulit, on the slope overhanging the green gorge where the stream gushes out, while, doubtless, the precipitons hill which shuts in the left or southern bank of the wâdy, would repay a more detaited exannination than any which has as yet been hestowed upmin it. Digging would naturally be most desirable here, but much that is interesting might easily be brought to light hy any one who would come armeal with a crowlar, and give hinself the fromble of turning oree the drums and the cornices which, to all appearances, have lain in their present pesition since the days of the Arab invasion ; and grealy do I regret that, in our hurvied visit, I had neither twels with me, nor leisure time, that would have allowed of a detailed examination of this little visited ruin.

The man from Fahl to'A jlin winds up the steep north bank of the Whaly Fahl, here running cast-north-east into the platean overlanging the eastern boundury of the Jordan Valleg. For the first mile the wally is narrow and precipitons, and the rond a mere path straggling aloout the cliffe, a humdred feet above the dry forrent. hed ; but after passing a curious gap, where twn giant boulders on projecting spurs have the appearance of watrha towers, the gorge widens and hifureates, the road taking the Inanch gulley leading in the rlireation cast-omth-cust. Since Mr. Merrill has laid such stress on his, diseovery, in these parts, of the Roman road ruming letween Pella and (ierasa, ${ }^{i}$ referred to by linselines, and which the American archamhenist regards as a final pmouf that Fahl is Pella, I was naturally on the lowk-out fur taces of the same in the Waily Fahl. It is a disappointunent for me the have to confess that thongh evident remains of a pared causeway are formil in several places on the uplands above, get here in the whty itself no traces could be diseovered of entings in the cliff sides. I therefore conclude that the road must have approacheal Fahil (Pella) down some other gulley.

Three-quarters of an hour after leaving Fahl we had reached the mhland rolling plain, interected in every direction by shallow rasines, and
 montains of cileml; to the right, less than a mile away, and due sonth, was the village of Kefr Ahil; while on the left, at a distance of a mile amd a half, on a low spur, appeared Feit 'Adtis. Skinting the heads of three small wadies which lead down to the Jordan Valley, our road took a somtherty diveation for a comple of miles oree the barren upland, after which suldenly the path plunged down off this upland inten the precipitons eorge, which 1 believe to be an uppor arm of the Wady Yahis. On the height, wilh a fath rmoning up, to it from the gorge, lies the village of Kefr Abit lefore mentioned, and before leaving the upland phateau, on the very lorink of the whals, our wad pasoed through remains of formes habitations, rendered the more noniseable hes the living rock having in Hany phates been cut into to form large square tanks, mensuring, roughly,

[^6]in length 10 feet by 8 feet across. These were now filled up with mould so as to be flush with the surface, and have been constructed to serve as vats for oil or wine. The workmanship was assuredly ancient, and such as the do hommer to the skill and perserverane of the stone cuthess of Palest ine. The milly into whilh the road phungel turned off upwards into the hills in a north-easterly direction, while downwards, towards its outlet, it runs on for more than a mile due south with many smaller wâdies coming into it from the east. In this part both the main wâdy and its tributaries were, at this season, completely dry, though showing clear traces of the rush of spring freshets. The road ran down in the bed of the wady, and we followed it for about a mile before turning to the left into a green ralles leating up in a smoth-easonty dimention, where neathet the rillage of Jedaidah surrounded by olive trees and gardens. The natural beanties of this dell, the distant clatter of the two mills which were chuming the waters of the brawling stream, the well-tilled fields, and the succulent grass that covered the slopes on every hand, to us invested Jedaidah with all the attributes of a rural paradise ; and it being now past midday we proceeded to recruit exhausted nature with certain of the contents of
 on the fresh grass of the brook side.

Whether or not this be the main stream of the Wady Yabis I was unahle to nametain, for the mapmof this district are all remarkahly deficiont and inexact, and a villager whom I questioned was ambignous in his replies. But from Jedeidah, as far as we could see, the stream, making a henal af right angles atoon a mile downo the waty going due sombli, coms west again, and forcing its way through the mountains would have every appearance of coming out into the Jordan Valley at the spot where the Waily Vabis is marked on the maps. All this we mitad white foshowing the path which ted avay in the oppreste diection, for serantiling up, the high amir overhangiug the loft hank of the stream, we prowee. in mandy due east into the mountains along and up the ridge, which forms the southern boundary of the little valley where we had made the noontide halt. The
 for a short hour, we came into the olive groves surrounding the hamlet of Urjân. There is collected in this village a population apparently ton numerous for the accommodatiom provided by its houses. More than half its inhabitants have turned the caves, which honeycomb the rocks, into bahitatione ami thas manace to provide themedres with all the comionts of a home in the bowels of the ground. These caverns would seem to be mostly of artificial construction, having squared windows and doors, with
 5reral times, it was diflimult for me in preont my home fromp precipitating himself. These tenements would doubtless prove worthy of investigation by any one who, more fortunate than was the case with myself, shall have laisate to ureremme the inhumpitable shynes of their prosent complymes ant thas hase the gool fortune to gain admitlance to theo Trogiofye harems.

Beyond Urjân may be said to begin the forest of Ajlan. At first the
hill slopes amd later on her ha the tompent heels and the ridges. beeome covereal by oak trees, with an average height of between 30 and 40 feet. In the spring time dombluse, the ground would he covered with gras ami woeds, but now, in the late autumn, nothing was to be seen under the trees but the bare rocks ; still from the thickness of the forest, and the low sweep of the Inanches, a homannan teen sards aheah was gemeadly complectly hithten from viow. For a mile beyond Drjan the mand keeps aloug the somelhem shope of the valley umber the trows, leatingstealily upwandand erusing the entranees of many smaller chells, till finally it turns up, one of these later in a divection south-west hy somht, and mond the uppor end gains the summit of the ridere, whence a lovely view is obtained through the oak openings back over the Iordan Valloy towads the Deal Sien. A little further on along the ridee. and about three-quarters of an hour after leaving Urjân, we passed a large circular hole in the ground, some 6 feet across, opening down into an immense cistern, now partly choked with rubbish, but the botton of which was still 20 feet from the surface of the ground. It appeared to be bottle-shaped within, as are most of the cisterns in Palestine. In a southerly direction not far from its mouth, under the trees, were traces of ruined walls, but I was unable to obtain from the guide any information as to the name by which the place was, or had formerly been, known.

Our road still lay along the ridge in a south-easterly direction, with the broad wady on the left hand down which behind us lay Urjîn, while on the right we were continually crossing charming glades where the oaks ever and again give place to bay trees, and through them a rider obtains picturesque glimpses over the well-wooded hills to the south-west. It was up one of them plades, or vather forming the lathotromed af an mplamel plain closen in on either hamd by dark green momain :lopmes, that we first caught sight of the Cascle of Rehlith crowning a hill-top atom thome miles away, bearing south-south-west. From this point, which is rather more than an hour distant from Urjân, a direct road, said to be very stony, leads to the Kusper Rabnd straight mp thisplain. If was, however, mow pat Sodluk, and The doys liming short we devided to pmah straight on to the cown of Ajtme. our night quarters, and put ofl visiting the castle till the morrow. We therefore turned up the hill-side to the south-east, and on the brow first caught sight of the tomy far lelow ins, at the junction of them ralleys emhowered in is gamens, its minaret and walls already gilhat thy the rays of the s-m timg sum. An homis scramble, first momet the shombler of the hith and then over into the valley which comes down on Ajlan from the north, lomeght mes wo destination, and for the lad two miles the roand lay throwh a succession of vineyards among the rocks, where the vines, whose leaves the autumn had turned to ruddy gold, stood out against the darker shade of ancient olive trees. The distance we had travelled perhaps lent a false enchantment to the view, but whether or not this be the cause, Ajlun has a place in my memory as one of the most beautiful and fertile regions of Palestine that I visited, bearing comparison in this even with those farfamed villages that are watered by the rivers of Damascus. The little

down which hat been our read; another emming from the west. Wocked a couple of miles distant hy the spur, crowned with the Castle of Rabul ; while opprosite is the valley leading up almost due east on the roal to siff and Jerish. The place comtans a mosque with a tall square minaret, of fine workmanship, in yellow stome ; and this last reabls so strikingly some campmile in the plans of Lombaty, that I ann inclined to supmese that we have here the relies of a Christian chumeh, perhaps of Comsinler times. The town has an abmulant supply of water from a spring which giskes mit, not fia from the mosque, under an archway of ancient masmery, which rises anomg ruins of columons and cornices. Molern $A$ jitu is, however, hut an mplicturesque collection of murl hovels, where the homesteal gimemally monsists of an agegloneration of windowless abins surounding a dung-heap.

In one of these cahins, having aceomplished the ejection of our host's fimmils, we proceedeal to take up bur uights quarters, and mate an corellent dimmer off the mutton and rice that han been originally prepared for his own housphohd. It. H1wn became a burning tuestion to my two companions Whether the hompitality whith they in thm were forced to oftion to the fleas Would allow of their enjoytig the solace of undisturhed repmst. For myself I was haply in lwing alowe such consideratins. For, during a late trip aceuss the Hantran, sumbry insects pervaling the ghest rhambers of my Abhhosts, having kept me for three succentive nights without rhang an efe, and fumber obecring mysulf to be rendered incapable of arehamhegieal resarch thromgh the physical exhanstion brought on hy ceaseless spatchinge, I had, this jommes, hought in my wallet a small string hammork. Now the den in which wo were quartered had, like monst Arab calhins, subare rentilatim-holes, left meder the rafters on either side helow the reiling. Throngh two of these holes, from without, I fombl I could manage to phas the straight stems of a remple of long hass of firewood, in such it matume that the ends protruded very appoperately inside, like perss standing out from the opposite wall of the room ; while the logs were jammed and perented from heing drawn completely throngh the holes hy the gnated
 inside the rocm I procequled to sling the hamunck from them ahont it pand and a half above my friends and the fleas, and enjoyed thereby undisturbed repnee during the night, having first been duly arlmired by the whole permbation of the village, who, during a couple of honirs, were almitted in rotation tor rejoive their eyos at the macoustomed sight of a Frank in bed in a hammock.

The mext maning, the 13 th of November, we were up betimes, aml after a thimbleful of confee ronle up, going almol due wet, to the Kiuiat © Patmol, and rearluel it in a few minntes orer the half-lum: From the Arah gempraphers quotel on a previous prage, I hase been mahhe. te whtain any information as to the early histury of this splemtid fontroms.' Raised m

[^7]foumdations that would appear to date from Pomban days, its hastions and walls leat silent withers to the energe amd skill of the Crusaling Khights Who, during their two century temme of the Holy Lamb, equat dhis stomer hold beyont the Jodan to hold the combtry of Math and Ammon in awe. The view from its hattements is grand heymat the pewer of pen fo desceribe. Lenking west, the long valley of the Jondan, from the Lake of (iemnesanedh to the Dead Sea, lay spread out at our feet, with the windings of the Joman itself glittering among the green bushwood, its surfare heing already gilided by the beams of the rising sum. Beyoml and fom a batkgromul were the mombtains of Famaria, white on either hamd lay the wellchothed hills of Ajlun, now hronzed by the late autumn, and giving back a sheen of almost metallie luatre muder the level rays of sumbigh that were poming over then. Eastwarl at our feet rose up the town of Ajlin nestling at the hifurcation of the valleys, in its gamlens and vineyands; and beyond, some three miles off, white in a green garlaud, was 'Ain Jamat, a village on the road to Jerastl. The castle itaelf crowns a height, and is surrounded by a deep moat dug out of the rock. Its vanlts and halls are certatuly some of the finest in Palestine, the masonry erpalling that tole seen at 'A thlit, on the sea const above Cessurea, which is always quotel as the most remarkahle of the Crusuling mins. Kins-er-Rabud amply desopres a mone extomded examination than any that has as yet been acomted to it hy travellers. As I have noted above, the fommations of the buiding would appeat to date from Roman days, fon on many of the stones used in the lower walls eagles are carved, in low relief, which stemed to me of earlier worknamblip, then the tentheentury. On the left of the gate-homse high up, in the wall is a tablet hearing an Arab insoption, which I was mable to come near emongh toreat. My readers will casily believe how alont these old walls, thus prothed on the mountain-top as a lambuats to all the Jordan Valley, and conceming the men who first constructed its dhmgems and wells aml dark passages, there was an ammunt of mystery that it would hase hem bust fascinating to have mate some attempt at penetmang, had the time permitted of a detailed explonation. But that night we were hombl to sleop on or beyond, Jebish, and therefore
woluminuts dhonicle. Howerer, although mantiond among the Cru-ading Cathes of Palostine by G. Rey, in his "Monuments de l'Arehitedure Militaire des Croinés ensyrie," an examination of the arehtecture and mode of con-truction has leat me to doubt that the buiding is of purcly samatemie oris. in. I must. state, however, on the other hand, that Burehbarlt, whe visited the phace in his travels and fonnd it occupmed by a carrison, writes ("Trasels in Syran," P1. 26if, $267^{\prime \prime}$ ) that he suw Arabic inscriptions (presumably on the slab in the wall that I was unable to reach) which proclaimed that the eastle was built by saladin. Which too is further eomobomated by Abu-l-Feda's Cieomraphys, a work of the fourteenth century of onf ema, where it is stated ( $p$. 245 of the Arabie Text) that the Castle of Ajlim was built hy 'Iaz-ed-1)in Osamah, one of Salatin's famous captains. Still, in spite of all this, after having examined the place, I must repreat. that there is little douht in my mind that parts of the buthling date from prior to the time of Saladin or even the first Crusade.
after a hurried visit we reluctantly turned our backs on the castle, and
 towards 'Ain otumat.

On the right bank of the bed of the brook up which lay our path, and five minutes after leaving the last houses of the town, is a low cavern, used by the natives as a stable for their cattle. As far as we could see it
 natumal, is hat imon artilicinlly entargel for the consentence of the hasts.
 the hill - inle for a distither hat we estmated at somewhat less thath fifty yards, thus affording a large area under cover, that was at the present moment much encumbered with all sorts of refuse. The distance of about a mile and a half which separates 'Ajlon from 'Ain Jamna is almost entirely taken up with olive trees, from which the fruit had now (Nowombery lately lemen haden ; amt in the manket-phate of the lather
 little water to simmer over a slow fire, this being one of the methods of extracting the oil. Beyond 'Ain Jannî the road still continues straight up the valley almost due east, and, on the northem hill slope about half-a-mile from the village, passes beside a couple of rock-cut tombs
 a broken streophagus without ornament. A short distance beyond these we come on the source of the brook, where it wells up from a hole under a
 'Ain Jamnt, and even at this season suftices to water all the lands between this and. 'Ajlon. Above this point, although no water was visible, oak groves of considerable extent lay on every haud, and the path, after traversing a rocky glen where the branches of the trees almost met above our heads, camo to a more open space where at a couple of miles above 'Ain Jamat the roads to Irbid and saf bifurcate. Of these we followed the latter, bearing slightly towards the right and in a
 the saddle which forms the watershed between the valleys of Ajnon and Saf. At this point a fine view was obtained over the way before us, ruming through the broad valley winding down towards Terâsh in a direction it little south of east. The ground about here was dotted with oak trees and scrub, but the growth became smaller and the clumps more sparse the further we left Ajlun behind, till at last, near Saf, about three miles from the saddle, the trees had disappeared almost entirely. Refore rearhthe this sillape the valley namows to a gorge hant in by white chalk cliffs, and the track, after climbing among those which overhang
 inhabitants.

The Sheikh of Saf has so evil a reputation among travellers for both cupidity and insolence that, it being yet an hour to lunch time, we decided on hurrying on without paying him a visit; but that we did not make some acquaintance with the people of the village was a cause of
snhecegent megret to me, when 1 heard that they held in their hamber mens of the coins and antiquities which are brought to them for sale by the Cireassians who are colonising Jerâsh. There were, in particular, rumours of a pot said to have been dug up in this neighlomurhood, and reported to have contained countless gold coins of large size, which same had not all of them, as yet, been delivered over into the hands of the officials of the OHoman Ciovermment, fo whom all treatme-tmo is law fulls duc. The finding of hoards is of by no menns rare occurrence in Palestine, where the people have at all times been their own bankers, and have ever prefertel conficling their hard-amed gains laok to the haoom of monthew sath, rather than entrust them, for safo keepinge to frimels in whom thes could place no trust, knowing well that they themselves, in the like position, would, without a questime, deron it imherate to he fellored by ang: shackles of honesty or honour. The road from Suf to Jerâsh, which we travelled over during a ride of rather more than an hour and a half, has been so well described in guide books as to need no detailed notice. For the most part the path follows the hill-slopes on the southern side of the broad shallow wâdy which runs down in an easterly direction till it joins that wherein lies Jerâsh, which is a valley joining it from the south.
 hill-slope, a ruin was pointed out to us by our gnide which our time did not permit of our visiting, but as he assured us that it was the remains of some ancient, edifice it may perhaps repay the examination of some future traveller with leisure at command. Even before reaching Snf, as noticed above, the aspect of the country had changed. The thick oak forest, which is so characteristic of the Ajlan hills, had been replaced by single stunted trees, pines and scrub oaks, dotted sparsely over the hillsides; beyond Suf the slopes became almost bare, and in all the country to the east and south of Jerâsh the land is for the most part treeless, and only an occasional pollarded oak cuts the sky line of the hill-top.

Riding across the hills from Suf, Jerâsh becomes visible from the village of Deir-el-Leyyeh, a couple of miles from the ruins, which are seen spread out below in the broad valley ruming north and south. From this upper point, where, at the bottom of a hole in the rock, there is asprine, atl along the rowd lie framments if samophaci and cantel stomes. showing luw estensive must have been the sulnorbs and necony olis of the Roman eity. Jerâsh, or Gerasa, has been too often and too well deseribed to require more than a passing notice in these pages. At the time of our
 up their abode on the left bank of the stream, where the ruins are comparatively insignificant, and they had not as yet begun to meddle with the magnificent theatres, colomnades, and temples crowding the right bank, and which are, Palmym perhaps excepted, the most extensive and marvellous remains of the Greeco-Roman rule in Syria. The prosperity of the tuwn, deapite is fine situation ant plentiful water supply, diminished considerably after the expulsion of the ligantines. The lumality, hewerer, is mentioned ly Yakhbi, a comple of emturies after the Mowlem comyuest,
as being in his time one of the towns of the Joman province: and again the poet al-Mutanabli, one of the most celelorated of those who flomished at the Cour of Baghdad, in a pannyric, devotos some limes to the parase of the fertility of the Crown domains at Jerath. But, except for such incidental mitices, if I mistake mot, the city is rarely mentioned by the sulserquent Aral, gengraphees and histomians ; though lakit, in the thirteenth century a.12, who had not himself visited the spot, writes that it was dessoribed to him by those who had seen it as "a great city, now a ruin, . . . through which runs a stream used for turning many mills; . . . it lies anong hills that are covered with villages and hamkers, the district being known under the name of the Jerish Mountain." Whatever may have been the original canse of its depoppulation, it is rery noticealile that the ruins of Jerash up, to the present day have been but little disturbed. There has never heron any great Moslem city in its neightourhool, and hence its colums remain in situ or, throwa down by the earthinake, sprawling along the gromel, while the stones of the Gerat Temple of the Sunanl of the theatres are fortumate in having been, as yet, mupifered for building material. Further, since there is in these regions no sand to drift over and veil the ontlines, and the frequent drought presenting the ruins from becoming makel by regetation, all that remains standsont, white and glaring, in noontide, having that same appearance of reeent dusolation which is so striking a characteristic of the freshly cleared streets of Pompeii.

After lunding on the bank of the stream, among the gigantic oleanders that, still in November, were covered with delicate pink flowers, we passel the afternoon riding aloont, examining the ancient city, combining archambegical investigations with the keeping of a good lowk-out ayainst prowling Cirassians, and at sumdown froceeded out of the sonthern gate, past the circhs, now a meadow, and through the fine Trimmphal Amh at the town limit. Here tuming to the left, we crosesel the streatu at the mills and legan to climb the conical hill on which stands the Moskom village and sanctuary of Neby Hod, where it was determined to claim for oursolves hompitality, and safe might guarters for our honsers, ngainst the thievish propensities of the Christian Cireassians.

The view from this high point is extremely fine, and emhnaces all the valley and mins of derakh lowking north. While the guest-rom was being swopt ont the ehlers cane ronnd and discoussed on their grievances, againat the (iovernment in general, and their new Cireassian neightmus in pantionlar. These hast are a thom the the Mosems in their agricultural oq-rations, and fursher dehar them from poking about for treasure anneng the santes and cistorns of Jevish, a city built, as one of the sheik hs was good enough io inform me, lis his own ancestors, the 'Adites, of the Bays of Igmomace. After supper till near midnight had we to listent to and disonss politios with these wortly people, anong whom the arrival of a travelter is a rave aevident, and wo three being Chrislians and they

Mostems, puints of religion wore often incidentally tonched ufon to the excembing happiness of our Arah guide, who was a real hot Protestant and polemic. Lhespite religions differences, howerer, we remained excellent friends, and ultimately all sapt together in the grest chamber, the party consisting of ome three selres, the sheikhs, and the children. During the night an ineasional dog chased gonato over oum pustrate forms, aml the fleas hopped about mowily, which combined prevented our orersleeping onnalres. Hence hy half-past six next moming (Nov. 14th) we had saddled our homses, and, breakfastless, were off' for 'Ammân, to which place it had been determined to proced ly the dirent road armose cometre, withent groing first sinth-west to salt and themee back somth-eat to Amman, the mote genemally followed ly the caravans. This direct rond is hilly, and there have to be erossed mumberless valleys, which from the east interam the tableland lying hetween Jowhsh and Ammon; it is but little usal, and, as far as I cond leam, has heen seldom descelbed hy perinns travellems. To us its leing the less known was, of convere, a recommendation ; Ine files, as we had no wish to excite the attention of the oflicials of the lelka, it was perhaps as well to awoid visitiug Salt, the residence of the Governor of that province.

Sharting from Nely Had in a south-easterly ditertion, after half-anfrome we crossed at light angles the Waly Riyashif, rmming somth-west, and down which lies the direct road to Salt. At the point where we forded the lromk is a minm mill almost hidden in the mass of oleambers and tige trees hmoloring the hed of the stream, which, it is said, joins the Jenash river a shont distance before this latter itself falls into the Zomka. We, howerer, tuming towards the sonth, left the Rivhishit hehind ns, and making our way up the hill slopes above its left bank, here most refoeshingly dotted with scoul ank, in rathes more than half-an-hmur had graned the summit of the watersheal which diviles the ralley of Jerash from that of the Zerki. The sablle arotoss which the roat lay mommanded a fine view on either hamb, the smmmit being manked by a cairn of stomes a dozen feet high, erected to mark the spot where a celehnated ehiof had been slain. From here to the right, westwards, there was visible the lower part of the valley of Jertish, separated from us hy several ranges of have hills. Th the left, and in frout towames the somith, lay the hills of the loclkh, eut off from us be a deep gonge, at the buttom of which, as get unsern, ran the Zerkat, the Biblical Jahbok, in ancient times the bemmdary Inetween the tertitmies of Og, the King of Bashan, and of sibon, King of the Amorites, and still to-day the limit to the north of the Belkâ rovince. The lills all round were barren and stony, here and there a pollanded maks strocgled for existence agminst the dromght and the los. of its brand hes, which the Bedonins cut off for fuel, and everyhing seemed lifoless and forlom, until suddenly, as we were making our way down a steap spur to the bed of the Zerka, we eame on an encampment of three hark tonts, hidden away in a delicions lithle dell, down whith went hawling a tiny stream. The Bedonin men were all away with the flocks, but the women received us hospitably, stated coflee-making, and the
while were profuse in advice and directions as to the road we were to follow. They belonged, they said, to the Khaza 'Ali, a branch of the



 s.emed extremely promi of the rimen which atormed hoth thmmh aml little finger of her right hand and the two big toes of her feet. What intwon conversalinn, coffer-making, and the sttimg hefole us of lateal and milk, it was fully an hour before we could tear ourselves away from oungemping hosic.s. hat at last we set ofli again up the hill spur, and then begau once more zigzaging downwards. A final seramble brought us into a smatl anphithettre dehourhing on to the riser, the slypsa of which were covered with the curious shrub called by the Arabs "Yeubnt," its long fleshy green twigs or leaves, of the thickness of crotchet needles, brushing against our faces as we pushed our way through the tangle.

The bed of the Zerkat, at this season only some three yards broad, and barely a foot deep, is bordered with the "Daflah," or oleander, still Ghow ing an owasimml pink flowe ammer its dark green teares. The sites of the groge in which the rifep pums ave hereestremely stepp, in plates ahmest perpmativilur, and white further to the "est, down the river, the valley
 more and more, till in the extreme distance the stream makes its wals ont of a gigantice लleft where high preapice womlal semm almest to meet a thousand feet above the water. At the spot where we now crossed, the Wady Zerk̂̂ has a level pebbly bottom above two hundred

 the many that cot thromh the dilis covehanging the tiver on the semth, and after half-in-hou's climb up a very steep wâdy, we were again on the high uplands, wheuce, looking back over the gorge, we could trace our late route among the hills of Jerash. Contiuning on through a broad
 of mud cabins,-among which was a blacksmith's shop in full blast,chastering together under the shade of a grove of oaks, many of them of no inconsiderable size. The place is called 'Alak, and is situated about
 across the river. From 'Alak the road towards 'Amman first runs due east for a couple of miles over the upland, crossing every now and again the head of some wâdy rumning down towards the left into the gorge of the Zorkit ; and finally, bearing round towards the south, crosses a hill : Whalder irom which lack enser the gorye amel the hills the white dome of Neby Had can be made out in the far distance. The country over which
 patches by the Bedouin, and in places overgrown by brushwood, serub oak, and yaubat. Among these hollows and hills we frequently lost our way and wamdered ahmot till $=1$ on the right path by elatnciag to stumble
on some small camp of black tents, occupied by the women who were herding the camels in the absence of their lords.

Several times in this part of the country we passed "Arab circles" of small boulder stones, and on one oceasion, under a fine Butm tree, came on what was evidently the tomb of a much respected sheikh, to judge from the comm mesatures and the plongh which haud heen depmited within the circle of the shrine for safe keeping. Alout four miles from Alok, and roughly to the south-east of it, topping a low hill over which lies the rowd, are the mins of a lmilding that was oniginally cometrmed of egnated stones, but of which nothing is now traceable except the general rectangular plan. The place is known by the name of Sarmj, and is used by the people as a storing place for grain. Some Arabs who were here, occupied in cleaning corn, invited us to go on to a large encampment of their tribe, the Beni Hasan, which they pointed out in a hollow a mile further off. Here the black tents, fifteen in number, and of the largest size, were pitched in two lines facing east. On stopping to inguire and give the news, we were requested by the sheikh to administer relief to an informmate Aral, whe lat at the lavk of the tent sulleving from failing breath, in what appeared the last stage of consumption, a disease that is said to be of no uncommon oceurrence among the Bedouin. The case, however, as far as we could judge, was beyond the reach of medicine, and there was no physician among us, so with expressions of sympathy, and a few gencral directions as to the patient's comfort, we took leave and continued our way up over a hill to the south-east, from whence was overlooked a broad shallow valley, not unlike that in which is situated Jerâsh. This valley, the drainage of which is towards the north, runs up at a very slight gradient in in direction almost due sonth, for over six miles. It is called by the Bedouin of the Beni Hasan, Wady Khalla, or Khalli, and affords good pasture to their herds, which find water at several shallow wells that occur in its bed. The sheep and goats that are here met with are of a remarkably fine breed, large in size and having heary theees. The helt-weaiter of eash Mowh is distiugushed by a surt of crowni of gandily colnured feathems aiturnel to the hack of the meat just. Lehint the ears, the wosl in its meighbomhool becieg furcheer dyeal red with hemma. As we proceeded up this valley, which is everywhere dotted with wak irvess sud dhom, there appeared a ruin on the right hamd, high "p the shope of the hills shmeting in the malley fomm the west, wheve by our glatas we mutd perperve, as we Hnopht, the romans of walle. It is
 lming anth presed for time it was fand impossible to vinit the symit, which, further, our guide assured us, was at the present day but little more than a heap of stones. A short distance beyond, where we lost sight of the ruin, the valley takes a sharp turn to the right, and then back into a sonth-westerly direction, which following we soon after turned up into a branch wâdy coming in from the west, and happily came to the main encampment of the Beni Hasan, it being already two hours aftor mitiday. Here twent? four lomg black tomte, pitched in double row,
took up the whole of the flome of the whdy, and to that of the shoikh, conspicunus ly its superior size, we proceded to pick our way ofer the tent ropres, and made oursolves the rempients of Bedonin hospitality.

First ame the customary thimblefnl of coffee-roasted, pombleal, and luited up in our presmow ; then followed a mone sulnstantial repast of excellent new Arah beanl-resembling thick pancakes-which was satsmed by beiner diplnal bit hy bit in a bowl of melted futter; then coffee mbe more, and in an hom we were on our toal agath, having given onv hosts the lateat itwons of political news, and receised from them in retum minnte direntions as to the path. Returning Lark into the main witly, the trank rums up it some little way, and then turning south-wrest (crosses a low shmblay. From this peint there is one roand lealing almost due west, up it waly, ginge dired to es Salt, while that towarts Amman kepp on in a sumbleweatery diration over the rolling country, and euts actas many mison wadies that run down from the cats. Near the proint of bifmeation of these (wo rathls there is a small clmal of Butm of 'Terebinth trees, at the foot of which are lying the shafts of two hoken momms. The lareer of them is a momolith some ? foet loges, and is cmt out of the piece in such a mammer that the hase, 4 feet high and about 2 feet in diameter, tapers down to the shaft of half this size, the whole heing bery neaty exernted in white limestone. A mike further on agrain, wheme the reat runs atones the western slope of a shallow wady, we passed flaghents of six more broken columus of about the same size as the above, but sime no futher trate of any temple on lmilding was to he secn in the meighbombond, one is lead to the suppoition that these fragments hater at sume prevind heen fransperted hither from the grat renter of ruinsat Jajuz. We were now Havelline along a masal canseway, the remains of a Roman man, ruming over the umblating phats, which is coverad here and there by patehes of com laml, and after a emple of miles onf honses begat to smmble among stontes of Yajiz; but as the sun hat alreaty grone down, anchatology was cont of the question, and it was neepsary to disconter, without further delay, flew Wherealmuts of the Bealonin (amp) in which it was our intention io pass the night. Tuminge, therefore, off the road at right angles towarls the west, a gratherd directed us th a slight depression in the phain where, after twenty minutes riding, we came sudtenly on about at dozon tents of
 the lempitality of the somew hat suly sheikh. The night was hitterly mhlt, and, what helween the wind and the fleas, and the extremely confleling nature of the ewes, who, for warmth's sake, were always trying to insimuate them whes bemeath ome hankets, sleep was fitful. Further, aml as un-ual, till far inter the might, omb Arah friends disonssed in strident fones pulitics and tiname, fom, as erory traviller knows to his const, these worthies hase such a halit of slemping at ond homs during the day, that at might heing wakefnl, they are sully ablicted to intominalie disommsings. Diathufent mily cestod with the dawn-chill, athl, treine up betimes, when the sun rose in splendour over the rolling uplands, here in most parts corored with the growth of a phant reacmbling heather, we were alreaty on
(H11 way hatk th the roal inter Vajne, out of whide we had tormed the night before.

At the entrance of the ruins is a large clump of some of the finest Terehinth trees that ex. $T$ amm ammss. In their immediate meighbmothomi in a large Arate cometory. the must pominemt tomb of which is that of Nims ihn Ciolnelan, a sheikh of the 'Alwan, whoe death, acomeling th the inseryl. tion on the headitme towk phace A.n. 1234 , i.e. smme sisty and ond yeals


 of the provimus night, who atermpanied us a shom distance an our jonmer, informed me. that this spot is hown under the mame of Ableyl, and is remsidered distint from Tajiz, the mins if which extemel from it east
 the above name, have hemen sofly deariheal in their rapeotive works hy
 flums. It is motewortly, howeser, that all attempts at identifieation somen
 spuated blocks. and the fommlations of mumerons edifions which comwd lont h silles of this hroad upland salley womld lead us to comelnte that theme must
 It may le wowth moting that in the liots of the Aral, gengraphers theer is

 situation with the site of thene ruins. The caves with which the hill slopmes
 no settled inhabitants are found in the neirghourhoorl.
 intereting momanta and sombine in vain for athything in the way of an
 a molling colmtry that showed exor and amon pathes of mutivation. The



 heap of disjointed lut eqnated maemury, lying in the shate if same IBhtu






 wak-wom lanks, we decombled th the ancinet lake boftem, here sonse 400 yards broad, and as even as a billiard table. The Arabs of the

[^8]Adwan call this tract of land Henel Belka, and cultivate the sich allurial soil in patches, raising (mops of wheat and maize (durTe). Firom the print We struck it, the plain extends for the distance of ahout a couple of miles the sonth, having an avemge beadth that might be entimated at a quarter of a mike, and then lears off in a sonth-easterly diredion, draining down in all pmoblility into the Zerka Valles, which, accomeling to the mapse (aryes rombl thwarls it. Where the angle ocemred we came up out of the narmw plitin, and striking orey the hills fu the sonth-south-west passed another nantios ruin, where eomflnsel beapos of masony are crowned by : few small, lut numat elegant, wal arches, which prasat, muer agatin we fomm ourselves on the mplamd plain that Remds down smoth towath Amman.

The land here, aftew the early rains, was madergoing the process of heing phomethel and sown by the Fellathin of the Beni Alwan. At ome moment we cenlid combt above thirty yoke of oxen, and the wonted stillness was agreably enlivened hy the shmits of the phonghmen, who, in more Than one case, were engaged in directing the eaprivions evolutions of atmels that had bewn compelled to take the place of the mone ducile steers. Gonsidering the mganly size of the ambls and the dimimative womlen Hongh to which they were so chmsily harnesed, it was assuredly a marvel of skill that the furmows man in passably straght ant parallel lines. The camels evidently loathed the hominess, ame to judge by the oh, jumpainns of their drivers - who were emtimually calling hearen io withens that their (the cancls") clumsiness was the natural consequence of a dissolute life ant a dispeptable anoestry, - lhee camel-men themselves wore mot enammurel uf their jols. Firm a comsiderahle time we prased pateh after pratch heine phonghed in this fakhion, and riding over a preeless platean at length Formek hatk intw the high road ruming south-east from lajoz to'Amman. which we hat left to our right in furning off to visit the ruins and the Hemel hellas. After this, rery shomty rame a rathem steep waty in a (owas direction, ruming due cast, Hown which the path led, amd in a few minutes more we fonut onselves for the seond thae in the Valley of the Zerkâ, and the ruins of 'Ammân were before us.

In these notes, however, the ruins being fully described in all the guide lamkes it would lee waste of time attempling to recall the wombers of cireek arehternme that have hitherte lain peacefnlly extombed hevomel the Joman, bit which are mow given over by the Ottoman (iovermment to be a hal hitation for (ipascian monests. At the hanse of one of these womthies. while being hoppitally entertainel with twa amel new bead, 1 embavomed. lint in vain, themembe information cantoming the wherealomts of the (ontons subteranean dity of Rahal, that \$1s. Oliphant, in "The Land of silleat," reports having hearel spoken of as existing in the combury to the cast of the Zork. All we conld learn was that some prople had heand tell insturies of thi plate, hut no whe at 'Ammanh hat somen the spot of krew

 in the lagiming of the eleventh eentury A.1), gives of a rematkalle

Gvem in these parts. After descriling 'Ammatn, where he notes "the rastle of Conlath on a hill overlooking the city, and also the tomb of
 frosakh (three miles) distant from 'Amman, on the bomber of the desert, is the village of ar-liakim. Hepe is at cave with two gates, one small, one lige, and they say that he who enters by the larger gate is umable to pass hy the smaller. On the flowe of the cavern are three tombls, concerning which A hul Fanl Muhammed ihn Mansur has related to me the following, on the authority of Ahm Bekr ihm, \&lo." and after giving his chain of authorities, which reaches hack to 'Abd Allah, the son of the Khalif Omar, he reports how the Prophet had said that these were the tombs of certain pions men, who, serking slelter from the man, had entered this cave and heen shut in by the fall of a rock which hlocked up completely the entrance. The impediment, howerer, was miraculously removed by the hand of the Most Bigh, on their calling to Heaven for aid, and every man conjuring the Amighty, and reatige his claim on the virtue of some esperially pions act performed in past. times. The legend is here not to the purpose, and is hesites fon long to quote in cxtenso, it being mewely another veision of the story of the Seren Slepres of Ephesus, whose adventures form the subjeat of a portion of the eightemth chapter of the Koman; lut as confirming the mpated existance of some large eivern or undergrond city in the neighhomhood of 'Ammin, the account is curious, and it shows at how early a date such a report had olvained currency.

From 'Amman it was onf intention to get across to. Jerusalem, fià Arak el Emir, hut since the ronte is well described in the invalnable
 41) the hauk alome the now dimimutive stream of the Zomka, we passed an abmulant spring that fomms one of its somees, and climbing the northem side of the wady gatned the treeless upland plain streldhing westward. (1)er this, a ride of two hours hrought us to the cleft of the Whaty sire, a well-wouleal ravine that drains into the Jodan Vallev, and in which, lat still sonme miles lower down, lie the remains known as 'Arak el Emir. At the spot, where we left the bare upland plain to plunge into the green Wally, the rums kown as Khumbet Sirsare hut a short distance to the left, while acons on the opposite side there were visille the months of several -nhall caverns of chambers hollowed in the fite of the cliff, and we motiod other specimens of these abodes of hygone anclomites in many phace further down the genge. Half-way dewn the sterp path that leads into the dall there upens ont a small phain, at present ocrophed by some fireassian families, who have huilt here a village of wattle and lah, honses -santly similar to these that are met with in the neighlemuthond of Tillis. But we hat! to hury on without visiting them, for the afternoon was waning.

The whole gomere of the Sir is most beamifully wooled; two mills are 1414mi by the strean that flows throngh it, and while its sides are almost

[^9]everywhere hidhen hy the datk foliage of the oates and ather furest treme the marein of the brook is masked lis a lemal frimge of oleambers that grow heme to a height of over 14 feet. In a lithle unatow, where the cliff (n) the right hank reades from the water'sealge, and ahout twon milus above Arak in Emir, theme is a collection of Amh, "cireles," of a somewhat ahmomal type. The stones are about a fomp high, and form the perimeter of a circle that is maghly a couple of yards acous. What is unusual. however, is that home lhe areasmonmuled hy this low direular wall has heen roofed over by layine hamehes raftem-wise, and fllline in with staw, the Whole being afterwarls covered hy a coat of llay. There was, as usathe, a sent of dhorway hati in the einele of strmes, and in the preatht instance it
 for hatitations of sume sont, only that while the extreme lowness of the rouf ami the small estont of the covered space womlit remtor the ingmse of any hmman heing an imposibility, the rlean emblition of the interioms showed that they were widently not intemetel to sopte as pens for lamber wher small qualrapmlas. Further, our Arahquile immediately recogised them as matking the hurial places of sheikhe, remimline us of the very similar, thomgh umonied circles which we hat pasad by in the hills on many previons occasions during our journey.

After rilling down the Whaty Sir for neaty fwo hemes, the path Iving sometimes in the very bed of the pebhly brook, smmetimes alome the meadows which skirtmel its hanke, ant at times again threading the copress that covelmme its wimling comme. We canme ont smblenly into the mambi-
 Ine the remains of the palace which, acombing to Josephus. In yreanus hinit in $142 \mathrm{BE} . \mathrm{C}$. during the last days of his exile leyond the Jordan. In the main the deaphtion of the Jew ish historian tallies well emongh with what we find here of rowk-ont caverns, aml cy-dopan masmmy carred with forme of hage animals. It is, howeror, mehnats a point worth notings, and whe that diel mot fail to strike zue when 1 first catne on the puins of the Kuspol-Ahut, that white Josephus phanly states that Hyreames "hile it entimely of what stme th the sery roof ant hat animals of a prodicions macenitule engravel therempon," when we pome to examine hove the eatvol hoeks, atomestite of whith the ingui-itive mavellew feets dwarfed to the

 visited this place, the ermor is probably due to his hating been misuffomed by the hearay mepme of Fontomporary tourists. The romains at Strak el Smir, whatever may he their date, caimm fail to strike the thatedle with sthme What of that same ferting of awe whith he esperiences on stathing for the fime lime hesible the thige stomes at Patherk, the plat form of
 into insignificance limide these, for they wh of an age when latuat and time were hell as of mo amennt in the calculations of these whos built fom themaltes sum temples, palacos, of tomls. It was with dithentty that we tore ourselves away from thes. Womberful relies of a lygene civilization. But
already the sun was hiding hehind the westem hill, and while we were lingering in the artiticial catorns high up in the cliff, they beeane shombled in glom, thongh the bold tharacters of the Hasmonean inseription on the row alove, reat " Ahniah," and said to mean " De light," - still stowd ont distimet in the hmsh that was already dying trom the face of the blatels masonry in the meadow below.

We had pet to heat up night puartas, and therefore scampering up the shombler of the projerting spur alatime in the amphitheatre on the south, we crossed into a wady known as that of Umm el Madaris, and shortly coming artoss some homewart-homat cattle were directed by the neat-hewd to the encampment of his tribe, the Beni 'Abbad, located in an adjatent dell. We were now among the watles that head down directly to the dordan Valley, and just beforecoming thetents, while riding wer the - Peat of an inturening spur, shlulenly there humst on its a most magnificent view of the heal sea, spead mat apparently at our feet. From the height. is whole surface, as far as the ege conhl rearh, appeared like a sheet of hurnished gatel almut to beemme molten, umber the rays of the selting sun, whese ont was fast ranishing hehim! the hhe hills of the deatt of Julaca; and hehow, in the foregromml, was the opronine out of the Joman Valley, here some ten miles across-Jericho, as a patch of black green foliage, shining out distinct on the further side.

Although the Beni 'Abbad were hospitable, and their carpets were colerall! free from rermin, the whlues of the night, and the continums groaning of one of the men who had lately received a spear thenst in his lege. remberent our sleep but titful. Be viles, as usual, one hmsts took up the heat
 on the impurtant puint of how \& 100 mibht he ahtainel on han torid them of their emomies. It appeared that certain lands luthering from time insmemotial to their trihe, fore which, momemod, they hemb tithe deeds had heen hy (iovemment granted th, abol wore oxdluied heg, the immiprant Tireasians. We suggestral that a petition lorwarded with the title deeds (1) the Livernment would doubthess set matters right, but in reply we were assumed that so donge, mbless much bakhahish went with the papers, womhe anly leat to the lows of the deeds withont there being the smallest chaner of the trine whatume any re-establishment in the ir rights. Theaper than this, they said, it would be to hribe the Girassians to decamp and latie uy their quarters on someloody elseis land, imel for this purpose a hmmired poumds were momble which we, howeser, perforec, deaply regrettad heing unable to put them in the way of obtainugg.

Next morning we were up before the sun, for there was the long ride into . lerusatem hafore us. Distances in: the Fiast, even afte long paratio. appar mon deceptive, especially when looking from a height down and across a plain. The Jordan seemed almost at our feet, but it was four homs goml riflige before we reathed the ford amb arosed the swirling muldy sham, which, even at this scason, in smme flates mase ahme the horses' girtlis.

Whan laving the monntains and riting between the last hill sprms ont
into the Chior, I julge we must have passed within a shom distance of Tell esh shightr, which reeent writers propose to identify with Nogen, or Zowr, one of the Cities of the Plain. Dr. Merill, who discusses the question of the site at some lengeth, conclules hy stating that to his mind the argumens for placing the Zoar of Lot at the north end of the Deal Siva are conviming. adding, "We present hore a few quelations from Arab writers which hear upon this question." But from these "quotations" I venture to think he deduces an ermomems conclusion, through not bearing in mind the fact that the narrow valley leating south from the Dead Sea towards the Ciulf of Akahah was known to the Arabs as the Ghor, and hence bears the same mome as that applied hey them to the Jordan Valley itself ruming up now th from that lake.

Whatever may lie coneluded from the Bible as to the true pusitiont of the 'Kour of the Pentateuch, a careful examination of the Aral, gengraphers loads me to conchute that thers, at least, stuck th the fratitions preserved hy Josephos, and followed by Eineohins and Ierome, which plaw Znar or Sugor ter the smotl-mast of the Dead Sea. This phace, further, is istentieal with that frequently mentimed muler the name sigent liy the historians of the Crumales, and is frumb in many of the itimeraries of the medieval travelles. To the Arah, geographers Zughar, the city of Los, was as well known a place as Jerusethem or Damasous, seeving that the Dean Seat more gemorally salled by them A1 Buhaivah-al Muntinah. "The Stinking Lake," has ako, the altornative name of the Siea of Zuchar. Further, it is evident hat there were not, for these medieval geagrapher. tro Zughars, for in Yakuts Mushtarik, a Lexicon of Ciemgraphieal Hommyms, which esperinlly deals with cities of the same name but of different lomation, the name Zughar does mot figure in the list. Trume now (t) Mokaddasi, who was himself a mative of Palestine, and wrote during the eentury preeading the first Crusade, we find that Zughar dater Somentimhar) is mentioned as lecing in his day the capital of the province. of the shavat (whichen conespmods in keneral with the ancient Moabs. and he cites it as the sole memaining city of Lot," savel Ly reasth that its inhahitants know hot of the atmminations." As to its presition, it is desorited as standing on (or near) the Deeul sien, with the momtains near ahout it ; white that it is in he somght at the somtherastement of the Lake is shown by the statermat that it is one marhalah ftwenty-five miles-a day's math h) distant from Mail, a town situated in the disert to the east of Kerak ; and four mathalahs from Wailah, ${ }^{\text {t }}$ the port at the head of the (iulf of Akalmh. Alsu Lstakhris and Im Houkal, gengraptors of the coneration preceding Mokaddasi, state that hetween Jerioh and Zughar lag "a day's march," and in one vose other MSS. give the alternative thit

1 "East of the Jordan," 233, et seq.
" Moknddasi, op. cit., p. 155.
${ }^{3}$ Op. cit., p. 178.
${ }^{4}$ Op. cit., p. 192, 249.
${ }^{3}$ Edit. do Gooje, p. 66.
${ }^{6}$ Edit. de Gooje, p. 126.
pmokally erroneons reating, "two days' mareh." At this eppoch, that is, during the eleventh century A.D., Zughar was a place of considemalde trate, famed for its imblign and latos, these last beng of exquisite quality, and queted as one among the eight kimels celelmated in all the comtries of Islam.' On the wher hamb, the climate of Zughar was deadly, and its drinking water execrable, "hot even as though it were over hell fire," and later, when characterising the drinking water of Palestine as gomerally so excellent, Molsaddasi exclaims," "hot we take refuge in Allah from that of Zughar, though the water of Baitoti-Rhm is in truth had enomgh."

Tuning now to the great Gengraphical Dictionary of Yaku, compileal in the early part of the thimenth contury A.D., we find two long articles, whe under the hading Sughat, and another mader the allernative pronumeiation of Zughar:" After cquting the verse of a pret who sings of the "sonthern region of the Sharnt from Maib to Zughar," Yakut proceeds to give varions traditions which enmect the town with the history of Lont, and says that its name came to it from one of Lot's daughters. Finally it is stated that Zughar is sitnaten in the meighourhoond of the Dead Sea, in at wally; it being three daye journey from dernsatem, and lying near the fromiers of the Hejarg. ${ }^{\text {b }}$ Lastly, and not further to multiply quotations, the amber of the Meramit, writing abom a century after Yakut, after cquming his words as to the prsition of Zughar onf, or near, the Dead sea, adds that it lies near Kerak. ${ }^{6}$

In conclusion, therefore, and in opposition to Dr. Merrill, I find no authority among such of the Arab geographers as I have read for locating the Zughar or Zoar of their day anywhere hut to the sonth-east. of the Dead sea. Fir, to sum up their indications, the city stond near the Dead Fiea : one day's march from Mailb, the same from Jericho, amb four from the head of the Culf of Akabah; thee dayse marich from Jerusalem, and near Kerak ; from all of which it would appear impossible that a town acruss the Jortan oppusite Jericho slumbd le intended; while the assemtion that the mater at sughar was exectable, of itself imaliates that Tell esh Shagnt, in the wady helow Arak of Emir, where excellent springs abound, can hardly be a satisfactory identification.

From the Jordan ford up to Jernsalem we rode along the beaten track that every Cimbl's tumint has followel. The ghastly larremess of the commer, and the glave from the chalky hills among which the road wints, rembers this one of the most tedimus lits of journeying in Palestine, ant we wese fortunate in being alle to aceonplish the ride from Jericho to Jerusalem in five hours. It is, however, worth while to come up this
${ }^{2}$ Mokaddasi, p. 470.
$=$ Op. cit., p. 178 .
${ }^{3}$ Op. cit., p. 184.

- Wustenfeld's Fakut, II, 033 ; III, 39n. In the A math geographere the name is found spelt $;$, Sughar ; $\dot{j} ;$, Zughar; and $س$, Sukar.

[^10]drant rayd from the east to catch one's linat sight of Jernsalem from the summit of the Mount of Olives. Apriving by the Jaffia road, the Hols City is hidden motil you are almost within its gates, bot from Be thany the pilgrim rides suddenly into view of this migue metropelis, which, in it emtirety, lies almead out at his feed. The week's discomfent in Bedtuin Lents, am the monotomons ride of the last few hours, hatl, I think, attured us all to a just pitch of appreciation, and although rather too hungry amb weary for esthetic raptures, it was some little time lefore we turned down throngh Si. Sophemis Gate, and sought out our might quarters in the Damascus Hotel.

In concluding these notes, and for the information of those who mas have any intomtion of penctrating into the conutries beyome the Jordan, I may be permitted to remind my readens that our jonrney hat been acemplished without paying a piastre to Gobldin, the famons ior rather infanons) chief of the 'Alwin, on even in any way gratifying the cupidity of the shakh of kifif -hoth worthies generally but too will known to thase who have left Jerusalem for a trip into the Land of Gilead. And yet we had been able, in the course of six days, to visit the sites of Tahakat Fahl Pella, Jerâsh, 'Ammañ, and Arak el Emir, taking the divect ronte across country from one site to another, and along roals selfum seen by the omlinary torist. The sectet of one sucesssful midfor so only can I venture to eall it-lay in the fact that, taking neither thms nor selvants, we were hut three horsemen momited on inclegant hacks. fome userul at readeters than in any way remarkable for loeed, and that one of us was a native of the comblry, persomally acquainted with the A mal. sheikhs of the district which it was intended to visit. Lastly, as we took for, more haggage than our homses conld earry, we, in aceordance with that ancient and convenient chstom of the Aralis, impneed ourselses nightly as ghests in some momad camp, coming down at the hair-tont of the sheikh. whose homour, forthwith, was mgiged for our forsonal well-heing and saiely. By this proweding we aroiliod the neeressity of carrying with ns provisions for the road, and diapensed with a baygage animal: and hence our apprearance was in no way calculated to excte the cinfidity of those whom we met in our joumey.

The prean ofe of tents and lagegge mules, with the attembent dragoman and zaptich, are plentiful reasons to explain the costliness of which travellers complain who erome the Jondan and gon enst wavi from the Dead Sea. Any one who is lucky enough to get a native friend for companion, who can keep his own counsel, and wants no escort of zaptiehs, can almost always visit any part of the country beyond the Jordan at very little risk. Only his stay must he mo litule probracted that the antherition get no news of it, and for this short time the traveller must be content with the mmurshment of Arabl fare, and surh tepose as is to be obtaineal
 for vermin and for men.

> 46, Cimarles Street, Mayparr, Londox, May, 1885.

## NOTES.

## I. A Dolmen in Judfea.

Havesi had oerasion remently to ride from Jericho to Nahhise, I deceided to
 Fil Mugheir (Sheet 15, N ). It will be seen by a veference th the map that there is no path marked, and that the region to be traversed is a dealate tract, पpem which mo halitations are imbicated. It osemped to bue that I might chance to stmmble across something of interest in this deserted district, and such in fact proved to be the case. A peasant whon I picked up, tilling his land in the Wialy of Injah, consented to serve as a gride, hut said that he doubted whet ber the route would prose praticable. of horsehack. The ascent from the valley of the Jordan for the tin st 1,500 or 1,800 feet was one which did indeed tax my horse's powers to the utmost, even without a rider, as it involved a dimb by a sarcely preteprtible grat path, now up smonth stepp inclines of linestome, buw user jagaral rocks. I then traversed fon a distance of abont five miles or more, taking the windings of ous way into consideration, the wildest and must harten tract imagimable of porky tableland, here and thewe interaceted by deep winlies, offering from time to time views of conviderahbe seenic grambur, amd in a marth-oasterly direction up the Joman Valley, of great extent. Beyont this there was mothing to valy the momotomy of rurgedmese, amd rately an indication of a path, the guide simply selecting the lime of country

 so uninterestine, that I made a discopery which affomed bue some consolatime. On the sile of a lare hill I came upon fome stahs of stone, which frobn their size and shape presented all the appearamee of hring the compenment slabs of an sterturned dolmon-ome, which was latger than the others, being about 9 feet hy is feet, formoll in all poblabity the covering slab. Is I am mot aware of any dolomen, or renatis of ons, havins hem finumd in Jutara, this womlel conlimm the theory that they once existed there, lant that the two Tritnes were so scompulans in their olmedieme to the order "to overturn the tables of stone," that traces of them have hitherto escaped observation. It is possible that a minute examination of this …tion of comntry would reveal intoreatige remains of eally rude stone
 whole place is such a whememess of rmeks that I doulit whether I could!

 eath was. formeal of hage muhewn hlecks of simbe, eath of a ton weight of
 whers of two. Within this outer massive enclosure there was a circle formed of smaller stones, 12 feet in diameter, and in the centre of this rivele was a single stmbe, but this consistmi how of a large splintered fragment alout 3 feet high, and it was diflicult to form from it an idea of the miginal shape of the stome. There were alsa in the meinht ourhont what
appeared to be alimmeme of stones, and numerons cairns. The sfout, as nearly as I can judge, is ahour two miles to the sonth-east of Eil Mugheir. Near that place there is a very grod Arab sume circle, with a miniature doorway about 2 feet high, and a herizontal club on lintel, facing weat.

## II. A Sarcopilagus at Zimmâring.

A fow days age the Jews of the colony of Kimmatm, in exearating at the hase of what appeared to be an artiticial momul, sudhenly struck a block of cement. Fimther insestigation proved it to be a protion of a thick avating of that matorial, in which a leaden sareophagus had heen emb. hedded. This was extracted and ofrened, and fromed to contain the bones of a human sketetom, and a quantity of dust, which was deseribed tor me by a colonist who han seen it as having the appearance of dust mised with shiming pontirles, which to his imagination resembled geld dust. I have hath no oppnetumity of examining any of this chast, some of which is sain! -till to have been proservel at Zimmâin, where more accurate intornation combld be chtained as to what actnally was fomme in the contin, about which there are confliming acoombs. On rumous of the discovery reaching the Caimakam here, he sent to have the sareophagus brought to this place, where I have examined it. It weighs 2.5 pormels is 6 feet 8 inches long, and I foots inches in willh. Down the whole length of the centre of the lid is an ormanemtal seroll 21 indes wide, incluting the narrow bands which homer the design. This is rery beantifully exeemtend, and consists of a representation of grape vines, will fruit and leaves and other floral devices. All ronnd the uppre elge of the sides of the colfin is a similar londer, lout it is nealy 31 inches wide. The artist has asoided repeating himsolf, and has varied the design, which is in a gool state of freservation, (s) that metwo sections of it are similar. The leaden bottom is in places much corroded.

In acomplane with the general onder regulating the discovery of antiquities, this sarcophacrus will he selat to constantinople. I have every reasm to believe, huwever, that the mond in which it was foum contains mores and 1 hope to be present in the event of further excavations in it takines place, when I shat alon have an opportunity of examining the duat which has been already found.

Laurence Oliphant.

## THE ROCK ALTAR OF ZORAH.

 alled Marmeta, sitmated abont a mile to the ost of the Jewish Refuerme Aid Sortety's settlement at 'Artiff, a remankahle momolith which he believed to be the remains of an old altar.

Some days ago, whilst at 'Artnf, I happened, incidentally, to hear from one of the settlems that amther suh stome had heen recently moticed


ALTAR AS SEEN FROM N.W.
on a hill-side to the erest of Arbif, and dming the aftermonn of Fridiey, May 8th, 1885, I visited the place with Baron von Ustinoff.

Our delight at discovering at the spot indicated a battered and weather-worn lut otherwise well-preservel rock-ultor with stejs may Ln. imagined.

It. has on the top hollows comneeted by grooves like Mr. Schicks Marmitah stone. The top is at present from fonl to five feet abose


ALTAR AS SEEN FBOM S.E.
ground, but as ssme heary hlocks of stome which we conld not more lie. round its base it would nut be safe to state any measuranents till these and the earth at its base be cleared away.

Zorah, uow ealled Sirmh, the home of Manoah amd the himh-plate uf Samsm, is in full siew of the spot, at a distance (measuring on an airline) of, say, a quafter of a mile. Whether of not this remarkable. manmment be the iflentioal fom-altar of Manoah iJulfers siii, 19, 20), it$1 \times$ intence in such a sucestive situation cammot, I think, fail to ronse the interest of Bible readers.

I am, Sir, yours truly,
J. E. Hanauer.

## THE ORIGIN OF THE NAME RN ROGEL.

Sin,
Withont prosuming to expreas any opinion on the prolmble correctness uf C. I . ( $\because$ s streseation that the mane lin limyl means" the spring of the (hammel," I wi-h !n pmint ont that in writime the last twu lines of his
 ham modiling : for in making the statement that ${ }^{*}$ the name is evidently derivel from the famous ronk cht chand leading from the back of the are in whith the sping rises," C. R. (. has evilently owerlomed ther fart that all the prasames in which the name ocours relate for a time antwenkent th the earliest date hitherto assigned to the rexek-ent chanmel, antl two wf then mention the name En Rogel as existins in the time of Juskar. Or dows I: R. U. really mean to imply that "the famons rockeont chamnel " was in existence in Joshua's time?

If not, then the name cannot be derived from the underground channel.

Perhape it came from the surface chammel whase prior existence is son earnestly contended for by the Rev. W. F. Birch ?

H. B. S. W

## BETH HABBBCLIEREA, OR THE CHOSBN HOUSEcontinued.

## CHAPTER VI.

1. Turs whele sim thary wias nit on lexel gramme, lut on the risime of the mambtails. A prambentering at the eatorng gates of the mombtain of the
${ }^{1}$ Rashi commenting upon the passage " no man might indulge in any levity opposite the eastern gate," remarks that this gate was "outside the mountain of the house, in the low wall which was at the foot of the house, on the enst, because all the gates were set one opposite the other, the castern gate, the
homse went as far as the emb of the rampat (rfel) on a level, aml asemient from the efol the the emme of the women hy twelve strps, the height of eath step being half a cubit and the breadth half a cubit.
2. And he went along the whole court of the women on a level, and ascended from it to the court of Israel, which was the begiming of the
 lreadth half a cubit.
3. And he went along the whole court of Israel on a level and ascended from it to the court of the priests by a step a cubit high, and upon this was the dochan [or desk], and in it three steps, the height of each step, being half a cubit and the breadth half a cubit, so that the court of the priests was two and a half cubits higher than that of Israel.
4. And he went across the whole court of the priests, and past the


 were all on a level.
5. The foom of the Tomple was therefone twenty-1 wornhit hicher than the flew of the eastern gate of the momatain of the homse. Amb the height of the gate of the mountain of the house was twenty cubits, so that a person standing opposite the eastern gate could not see the door of the Temple, and on this account they made the wall which was above that gate low, in ander that the prieat stanting on the Memme of Olives might sere the dowe

6. There were there chambers under the court of Israel opening to the court of the women, and there the Levites placed the harps, psalteries, c.ymbals, aml all instruments of music. And upom the dowlum [pmipit], which went up from the court of Isracl to the court of the priests, the Levites stood when they recited songs at the time of the offering. ${ }^{2}$
7. The chambers that were built in the holy part and opened into the profane, if their roofs were even with the llow of the cont their introme
gate of the conat of the women, the gate of the eonm of Ismal, the demeray of the prome and the tomple S20ה, and the lloty of Ifolies in the doys of the firat
 partition wall of one culit (Berachoth it al). The que-tion whether there weme steps up to the eastern gate from the outside or from the gate to the mountain of the house on the inside is not touched by this aceount of Maimonides. IIe suppras a persen to start from the inher side of the catom gree, being alroat! on the paved floor of the mountain of the house.

2 The contents of these paragraphs are from Middoth i, 3; ii, 3, 4, 5, 6, and iii, G. The dochan, ¡コ17, suggestum, was a kind of bench with steps, upon which the Levites or priests stood to sing or read or pronounce the blessing ( $\mathrm{f} f$. Nehem. viii, 4; Escluas i, 9, 42; Eruchin ii, 6; Sotah 38 ל). In the modern synagogue the bench in front of the cupboard, where the rolls of the Law are degnated, upon whieh the priel sfamis fo say the hleange it still malled domena. (See Rubrie for the Daily Service and the Service of Rosh Hashshannuh.)
was profane and their roofs holy, and if not even with the conert their ronfs also were profane, because the moufs that were raised choce the comert were wot hallowed, and hence they might not eat the most holy offerings now slaughter the less holy upon those roofs.
8. If huilt in the profane part and opening to the holy, their interion was holy for eating the most holy things, hut they did not slanghter there the less holy, and the entering thore when in a state of ceremonial impurity was permittel, and their roofs were phofane for all purposes.
9. Gavitios [interions] opening to the cont were holy, and those जpening to the monntain of the house profane ${ }^{3}$. The windows and the thickness $[8.6$, the top $]$ of the wall were like the inside, both with reference to eating the most holy offerings and with reference to impurity.
10. If the consistorys desireal to add to the city of Jerusalem, or to add to the compt, they had power to do so. And they might extend the court as far as they chose within the monntain of the honse, and extend the wall of Jerusalem to any place they chose.
11. lies they might hat add to the cits or to the court, except with the anthority of the king, or of a pmophet, or by Urim and Thummim, or with the anthrity of the Sauhedrim of seventy-one elders, as it is said (Exonlus 885,9 ), "aceording to all that I show thee. . . . even so shall ye make it," for futmen generations, and Moses our master was a king..
12. And how did they adh to the city ?: The consistory made two
${ }^{3}$ The question of the holiness of the chambers, roofs, de.., is diseussed in Mranan Sheme iii, 8 ; Pesachim vii, 12 ; the Gammera of the latter ( $\$ 57,86$ a). and Zevachim $56 a$. See also Yomn $25 a$.

- This pmosenge is from the Mishan of Posachin vii, 12, where (according to Rashi and (uthess) it has reference to the wall of derusalom, but the Gamara comenets it with the cherl, and quotes lam. ii, S, "he mate the rampart and the wall to lnment." "The wall," says Maimonides, "was the wall of the court" ( eide supra, 5,3 ). The Tar Sumah, ארוּ 7 ב. "son of a wall," is explained by Rashit to have lieen "a little wall inside the great wall, and on a lesel with the court." This little wall wns doubtless that alluded to by R. Solomon, on Iam. ii, 8 , as comberted with the chat (lightifion 105!). The expression in the
 lemis support to the opinion exproased in a former mote that the chet may have had a vanypart and low wall outside the wall of the conts. The sulpeet has here weforence to the pules forthilding the mowt holy sacrifices, the less holy sacrifices. and the Pawhal lamb, to the caten if marrieal begond eertain prearibed limit. (vide infora, 15). "As nnything which should be eaten in Jerusalem beeame umbariml if taken ont of it, so anghing which should be caten in the convt berame unlawful if taken out of it " (Sheanoth 15 a).

${ }^{6}$ Sanhedrin i, 5, and $16 b$; Shevuoth ii, 2, and 16 b.
; Shevuoth ii, 2. "They added to the city in no other way thnn

 offerings). The inner thauk-offering was eaten, the outer burned." The
thank-offerings, and took the leavened lwead which belonged to them 1.es. vii, 13, athl walked in furoessiom, the consistory being hehind the two thankeofferings and the two thank-offorings one behint the other, and they stoml with haps, aml psalteries, and eymbals at evory comer, and at every lurge stome which was in Jertasalent, and dhanted "I will
 thes they went mitil they reacheal the emb of the phace which they consecrated, where they stood and ate the bread of one of the two thankwherings, and the other was bumed. Aml by the mouth of a prophet they burned the one, and ate the other. ${ }^{9}$

13. Likewise if they added to the court, they hallowed it with the remains of the meat-oftering. As the rity of Jernsalem was hallowed hy the thank-offering, which was eaten in it, so the cont was hallowed liy the remains of the meatoflerings, which conld wot be eatem eloewhere than in it, aml they ate them at the emb of the place whith they hallowed. ${ }^{\text {b }}$
14. Erery plame in the dedication of which all these things and this order were not olserved was not completely dedicated. And the two thank-offerings which Eara inade were motit a memonial, aml the place did but become hallowed hy what he did, becance there was neither king mo. Urim am! Thummim. Amd hy what dit it become hallowed? By the first dediation which Solommon made, beanme he consmatated the court (1 Kings viii, 64) and Jerusalem both for that time and for the time to come. ${ }^{13}$
15. Therefore they offered all the offerings, even though there was mo homse huilt there, aml they ate the most holy things in all the cont, eren thmagh it was destroyed amb mot sumommed by a wall, aml they ate the less holy things and the second tithes in all Jemusalem, even though there were tho walls there, hecanae the first, conseceration hallowed both for that time and for the time to come. ${ }^{12}$
16. And why do I say in reference to the Sametnary and Jomsalem, Hhat the first dedication hallowed for the time to come, and in refereme 10 the hallowing of the rest of the lame of Intal, for the purposes of the amangement of the procession is diecusat in the (iamara ( 1.5 b). It is doubted whether the thank-oflerings went side by sithe of one hehand the other: if side by side, the inser one was that nest the wall ; if ome behtind the other, the inmer one was that next the consistory.

* In Sheruoth 15 h, from which lhis pa-aue is taken, the word Bhta, lar:ge. coeves after stome, but is wanting in Maimosinkes, pmobly from an eroo of the transeribers.
${ }^{3}$ Ib. 16 a. R. Juclah said "by the mouth of a prophet one was eaten, and by the mouth of a prophet one was burned." The meaning is that a prophet instructed them which to eat and which to burn.
 were the eakes which were to be caten by the priests (Lev. ii, 3, 4, 10).
${ }^{11}$ Shevioth $16 a$.
1: Ih. Eainth 11 a; Meqillah 10 a: Zevach. 107 \%. The Rabhis disputed much as to the perpetuity of the first consecration.
swenth gears and tithes and things connected with them, if did mint hallow for the time to come? biew the hallowing of the simethary and of Jernsalem, was on aceomit of the Shekinah, and the Shekinah did
 (heov. Axvi. 31): and the wise men say hat motwithstanding that the: were drablated, yot in reater of their holiness they were get statuling. Fint the colligutions of the land in reference to the seventh years and the tithes were only hemose it had heon subjugated, and after the lame was tekon from their lamls the sulyugation ceased, and it became free from the law of tithes and seventh years, for 10 , it was no longer the land of Ismel. And whon Eara came up, and hallowed it, he did num hatlow is ly suljugation, lout hy the right of pos-ession, which they had in it. and therefone every place of which thue who came up from Balylon had prearssion, and whith was hallowed by the serond hallowing of Eara. that immuins hallowed to this days and notwithstanding that the land has been taken from them, it is still liable in respect of seventh years and tilhas, for the reasuns whith we haveexplained in the treatise "Termanal (offering).


## CHAPTER VII.

1. It is an affirmative command to reverence the Sanictuary, as it is said "ye shall reverence My Sanctuary" (Lev, xix, 30). And not the Ganctuary shalt thom reserence, lomt Him who gave commantmem that it should be reverenced. ${ }^{1}$
2. And what was the reverence due to it? A man might not enter the mountain of the honse ${ }^{2}$ with his staff, or with shoes upon his feet, onwith his givile," or with dust upmu his feet, of with money ponnd it his

## 13. Megillah iii, 3, 28 .

${ }^{1}$ Yevamoth, $6 a, b$.
2 Yevam. $6 a, b$; Jeracliotlı 5 and $62 b$; Yerusehal Bemeh xiii, $a, h, 1$.

 Talmad. In Shabbath $120 a$ it is enumerated amongst the eighteen garments which it is lawful to put on or off on the Sabbath. In the gloss on Kelim xxix, 1 (ef. Bartenora), it, is explained to be nu under garment worn next the skin to guard the other garments against the perspiration; and Bual Aruch says הדコロs was "an article of dress, a small shirt in which were sewn many phaces where they put anylhing they met with," and from Shabbath $x, 2$, it appears to have been either a bay or some piece of elothing furnished with one or more pockets. Rashi thought it was " $n$ hollow girdle in which they put money."

 on him outside," is suggestive of an outer garment of some kind. It may have bren a jacket, or spencer worn over the other clothing, or a girdle in which money and of her artichs were carriei, like the haman, -+5 , of the mothem inhahitant- if
limen．And it is manecessary to say，that it was malawful to spit in all the memntain of the homse，hat if mbe shomlat be whigen（1）spit，he must do so in his garment．And one might not make the mountain of the
 one in order to shorten the way，but go round on the outside，and not enter，except for religious purposes．

3．All who entered the mountain of the house entered on the right hand，and went round and passed out on the left，except one to whom an arvilont happened，whothmed to the heft．Wherefore they asked him， ＂what ails thee that thmoturne－t to the left ？＂＂Becamse I am mommines．＂ ＂May He who dwelleth in this house，comfort thee．＂＂Because I am excommumicated．＂＂May He whindwelleth in this hunse，pht intor thy heart，that thou mayest listen to the words of thy fellows，that may restore thee．${ }^{2}$

4．When a man had finished his service and was leaving，he did not （a）out with his back for the Tomple，but，walked backwarels slowly and went gently sideways，${ }^{6}$ mitil he issumi from the court，aml solikewise the wathers amd stamling men，and Levites from their pulpit，；J77，went ant from the simutnary like a prominstepping hackwards after prayers ； all which was to show reverence to the Sanctuary．${ }^{8}$

5．One might mot imblue in lerity opposite the eastern gratere of the court，which sias the ghte Nicamom，incoumse it was s．t olpmite the Holy ．if lloli，Ams every one who emtered the conte must walk gently in the place where it was lawful for him to enter，and demenn himself reveronlly as leeanne one stamding lofore lehovah，as is said＂mine eyos and $m$ ！heart shall be there propetmally＂（1 Kings is，3），and he went with

Pahistine．The word has been supponsed to be derived from etrenutys（Jolm $\mathrm{xxi}, 7$ ），translated in the A．V．a＂fisher＇s coat．＂The meaning of the passage which Mamomides lat here daken from Berarloth（forus．and Dah）．）is that t：o Worshipper might enter the monatain of the homee either with his girdle or other garment in which he carried his money upon him，or with his money tied in a anmer of his limen garmonts，a cu－f．m very common anungst the matises of the country at the present day．

The word for＂linen＂is ${ }^{\prime 90}$ ，translated in the A．V．（Isaiah iii，23）＂fine linen．＂The English word＂satin＂is derived from it．
－Megillah iii， 3 ，and the Famara 29 a，whem it is shil of a fynagrogue that ： ボクフコפק，a short way，may not be made through it．

5 Middoth ii， 2.
${ }^{6}$ That i－，he most walk differently from his omelimary mode of walking（i）． Abraham）．
i As the custom of the Jews now is．
8 Yoma $53 a$ ．
${ }^{9}$ Literally，might not raise his head in lightness．
：Bumadhoth is， 5. ．One might not mise his head lightly opposite the eatern gate，hemano it was ant oppo－ite．The Moly of Holies．＂Rashi remarhs that it was the eastern gate of the mountain of the house．See Note on vi， 1.
fear and reverence，aml trembling，as is sain，＂we walked in the honse of God in tumult＂（A．V．in company，Psalm lv，14）．

6．It was unlawful for anyone to sit in any part of the court．No one had the right of sitting in the court，exeept kings of the homse of 1 lavid only，＂as it is said＂and David the king came and sat hefore the Lord＂ （1 Chron．xvii，16）．And the Sanhedrim who sat in the chamber Gazith sat only in the profane half．${ }^{12}$

7．And although the Sanctuary is now desolated，on account of our sins，one is still bound to teverence it，as was the custom when it was yet standing．One may not enter except where it was then lawful for him to chter，and may not sit in the cont，nor raise his head lighty opposite the eastern gate，as is samil，＂ye shall keep my Sablaths and reveremee my Sinctuary＂（Lev．xix， 30 ：as the keepling of the Suhbath is perpetnal， so likewise the reserencing of the Sanctuary is ferpetual，${ }^{13}$ and not with－ standing that it has been desolated，in respect of its holiness it is still standing．

8．At the time when the Sanctuary was stamling ${ }^{n}$ it was unlawful for a man to mise his head lighly from the place called tsorm（which was ontside of derusalem），and inwards，and whoerer conhd see the Sanctuary with no wall intervening between him and it．${ }^{1 s}$

9．It was unlawful for a man ever cicumute utem，of to sleep bet weem
11 Tanid $27 a$ ；Sotuh $41 b$ ；Yoma 25 $a$ ；Kedushin 78 b；Sanhedrin 101 b． In the latter place it is＂Kings of the House of dutah．＂It was customany for the king to sit in a pulpit erected for him in the court of the women when reading a fontion of the Law to the people cowaris the end of the first holy day of the Fean of Tabermacles at the termination of the seventh year．It is related （Sotah vii，力）that King Agrippa＂read stanting，and the wise men patised him for so doinge and when he cance to＇thon matcet mot set a stranger over thee，＇his eyes owerflowed with tears（heemuse he was not a true lamalite），and they suid to him，＇far not Agrippa！theu art our brother！them art our hrother！＇＂（because his mother was of the seed of Isracl），cf．Sifri，ロיטפコン， 105 b．
${ }_{12}$ Yoma $25 a$ ．The elders sat in the western half which opened into the chel， $\zeta \pi$, and was consequently profane．
${ }^{13}$ Yevamoth 6 b；of．Megillah iii，3，and 28 b．
14 בנו，built．
25＂Tsufim was a place from which they could see the momentain of the honse． aud from heyond which they conld mot see it＂（Twatholh Berachoth bil is ef． Posarhimi iii，S）．＂A person who went out of derusalem and rememhered that hee had with him heoly thesh，if he hat passed tafim he humed it in the phace where he was．＂Rashi on this passage remarks that tsofim was the＂name of a village，าココロ゙・，from whith mee conld see the sametuar？＂＂What was foofim？ Sering with hothing interrening．Erery place around Jerusalem from whith （me conld see the sanctuary＂（Tosefoth l＇each．49 at）．The word is frem the
 The Greek orentry is its exact muivalent．Wouhtless the hill called Soppus，moth of Jerusalem，is one of the places here referred to．There was a place called Trofim famous for its honey（Sotah ix，12）．
east and west ; ${ }^{10}$ and it is unnecessary to say that they did not erect a privy between east and west in any place, hecanse the Temple was on the west. Therefore they did not ease nature with the fure to the west, or to the cast, hecanse that is inPmsite the wost, but they relieved nature and slept between morth and sonth. And every one passing water from the isefim and inwards, diel not sit with his face towards the Temple, but to the north or to the south, or placed the Temple at his side. ${ }^{17}$
10. And it was milawful for a man to make a honse after the pattern of the Temple, an edtedrafter the pattern of the porch, a court rescontlinge the conurt, a table of the finm of the table of shambiomt on a candlestiok of the form of the candlestick. But he might make a candlestick of five tranches, of of eight branches, or a candlestick of soten hranches, pmovided it was not of metal. ${ }^{18}$
11. There were three camps in the wilderness: the camp of Israel, which included four camps ; the camp of Levi, of whem it is said "they alall encamp, round about the tahernacle" (Numbers $i$, sin), and the camp, of the Divine Preance (Shekinah, הביש), which was from the doow of the conve of the tent of the comgregation inwards. And compergonding to them from the gate of Jerusatem to the monutain of the honse wers like the camp of Israel ; from the gate of the mountain of the house to the gate of the court, which was the gate Nicanor, woss like the comp, of Levi; aml from the gate of the comert and inwarls ants like the camp of the Tivine Presence. And the rampart (chel) and the court of the women were an additional excellence of the eternal house. ${ }^{10}$
12. The whole of the land of Israel was more holy than all other lands. And what was its luminess? That they hrought from it the sheat. and the two leaves, and the first frmits, which they did mot heing from other lands. ${ }^{20}$
13. There are ten holinesses to the land of Israel, the one higher than the ofler. Cities in it surrounded lyy walls were move holy than the rest of the lamt. heramse they sent away the lepers ont of thenn, and they did mot hury the dead in them unless seven good ment of the cits, of ail the men of the city, desired it. And if a corpme had heen carsied ont of the
${ }^{16}$ That is, with his face to the enst and his back to the west, or the reverse.
${ }_{17}$ Berachoth $62 a$; Berach.-Yerushal 13, $a$ 2, and 61 ( $60 a$ ).
${ }^{18}$ Arodah Zarah 43 a. It is doubtful whether it, was lawful to make a randlestick of seven branches, even though of woot. R. Jose har Jehudah suid it was not lawful, herause the Asamonemus had made ome of that material for the Tomple. Maimonides gives what he considens to hee the decision. His words
 "a candlestick which was not of metal even though there were in it seven branches." The Talmud allows a candlestick of six branches (loc, cit.).
${ }^{19}$ Zevachim 116 b; Tosefta Kelim 1; cf. R. Shimson in Kelim5 b. Also Maim. on the same paoage; Rushi in Sunhedrim 426 . The meaning of the last sentence is, that there was nothing in the camp in the wilderness corresponding to the rampart and court of the women in the Temple.
${ }^{20}$ Kelim i, 6 ; of. Lerit. xxiii, 10, 17.
city they might not take it lack agmin, even thomgh alf shmuld desire th take it lack. Should the inhaintants of the city desire to remore a tumb, (1) without the city, they might remove it, and all tomhs might be removed except the tomb of a prophet or a king. A tomb which the city survomulen, whether ou fime sides or itw sidus, me apposite to the wither, if there was between it and the city more than fifty cubits on this side and nfty culits on that side, they did not remose it mulem all deired its romomel ; if less than that they might remeve it withone the samention all. ${ }^{21}$
14. Jernsalem was mome holy than other walled cities, because they ate the lemer holy offerings and the secomi tithes within its walls. $=$ And them things are spoken of Jerusalem: they did not allow a dead bundy to remain all night in it, they did not earry hman bones throngh it, and did mot L.et out homses mon give a place to a sojouming promelyte in it. Also they did mot erect tombis in it, except the tombs of the house of Davil, and the tomb of Inaldah, which were there from the day of the former prophets. They did not phant gardens or orchards in it, mor was it sown of plonghes? loat it shomht stink. They did not raise trees in it extept the gardens of phese, which had heen there from the times of the former prophets, amb they did not place dunghills in it, om acemant of crepping thinge. Theey dial mot make heams on latunies projecting into the pmblic strouts on aceomm of the tont of defilement, and did not make furnaces in it on amomen of the -moke. 3 They did mot noterish conke in it on aceoment of the louly things
© Kelim, i, 7, and the motes of R. Shimeon ambl Mamonites; Jerus. Naaiv
 of hincsand pmopets mioht he remosed (ride infor). The Jerns. Talnmal and
 Iy the wity, tand the distance given in the former (Nazir, lem. eit.) is seremty cubits and twothirds of a cubit (Abal Rabathy 14). R. Abraham raises ans uhjout in to the upinim of Maimonitles that if sven grood men of the dity dusired it, a dead hady might be buried within the whlls, amb sust that ther dil
 and incerase the montuing, amit his latter opinion is supperted by the Alishas (loc.cit.),
${ }_{22}$ Kelim $i$, 8 , and the gloss of $R$. Shimson.
${ }^{2} 3$ Baba Kama 82 b ; Yoma 12 a ; Negaim xii, 4; Tosefta Negnim, 6; Megillah $26 a$. The reason why Jerusalem could nut become unclean from leprosey is that it was not dividet smong the trikes, amt was floceftme like citios
 finion, urging the tradition that prat of the momatain of the homse was in the tribe of Jmblah and part in Bonjmin. The tomis of the house of Davil ant of
 Tumeta Batan Bathra 271 , A moth Rabhi Vathan 35. R. Ahitah mid that there whe a hollow way of tumel, -hato, to theae tomble, by which the "untleamess" was conductel oit to the valles of Kenlon, and that bectuse of the mistence of this the tombs were allowed to remain in opposition to the general law, which, aworthing to him, permitted or required the repaonal of the tomits of hings and
amd also in all the lamd of lsmael the priests might mot monuish corels cm aceoment of purity ${ }^{28}$ Amithere was in it no homse for persons comblanmed as lepers, and it dil mot beomme undean from lepmos. It did not lewome a eity comsed fon idnlatry, and did mot furnish a heifer to be beheaded because it was not divided among the tribes.
15. The mountain of the house was more holy than it (Jerusalem), hecanse men and women that had fluxes, and women at the time of their sepration, amd after childhirh, conla mot cotco theres It was promittel to take a dead body itself into the mountain of the house, and it is therefore ummeresary to say that a peram iefileal bey contact with the dead might enter there. ${ }^{26}$
16. The rampart (chel) was more holy than the mountain of the House, because Gentiles and persons defiled by contact with the dead or to whom a certain impurity had happened ${ }^{29}$ might not enter there. ${ }^{28}$
17. The court of the women was more holy than the rampart because

 was awaiting the going down of the sun), might not enter there. ${ }^{29}$ And
 it was permitted to a tibbul youm to enter the camp of Levi.30 And if a person defiled by contact with the dead entered the court of the women, he was not obliged to offer a sin offering.
18. The court of Istael was more holy than the court of the women,
 after his cleanang from an mmeleanmess might not ontor there.a Ant an
propliets ont of the city. (Tunefta, lae at., Mageis Amalam apmemed to the
 the Jewish traditions in reference to these tombs appears to be-(1) that they remained and their locality was known up to the time of the destruction of Jerusalem by Titus (ef. Acts ii, 29) ; (2) that they were within the city ; and (3) that they were so siruat that a tumbel or gallery on pipe could past from them to the ralley of the Kedron. A garden of roses at Jerusalem is mentioned in Manseroth ii, 5, the owner of which would allow no one to enter lest the poess slowld be qroiled (Tusefoth), and who also gathered and sold some fige which grew in the garden, three or four for an asser, without paying tithe of bringing an offering from them.
et Baba Kama vii, 7.
${ }^{25}$ Kelim $\mathrm{i}, 8$.
${ }^{26}$ Pesachim $67 a$; Nazir $45 a$; Sotah $20 b$; Tosefta Kelim, 1.
27 בוּ 27 •
ss Kelim i, 8 ; Tosefta Kelim, 1.
${ }^{29}$ Kelim $\mathrm{i}, 8$.
${ }_{30} \mathrm{Cf}$. Yevamoth 7 .
${ }^{31}$ Kelim i, 8. The Mishna enumerates four classes of persons who might be
 childbirth, and lepers. R. Eleazer ben Jacob added two others (Ferithoth ii, 1).
nurlean person who should enter there was liable to the penaley of cuttine niff ${ }^{32}$
19. The court of the priests was more lowly than flat of Isicul, heranse the laity migh not enter there except when it was mecesary for themi io dosen to lay their hatads on a sacrifice which was to be slain, on to make atonement, or to slay a sacrifice, or to wave a part of it. ${ }^{33}$
20. Fetwern the porch and the altar was more hely than the confy of the
 whose garments were torn might not enter there.
21. The Temple, לynT, was mone holy than letween the poreh and the atont hemanere mone might enter there whe hat mot washed their hathis and their feet. ${ }^{35}$
22. The Holy of Holies was more holy than the rest of the T'emple, Gבצ7n, heeanse none might entur there exacpt the high prieat on the Day of Atonement at the time of his service. ${ }^{36}$
23. To the plawe in the upper chamber which was over the Holy of Holies they did thet enter except once in seven years to aseertain what o.pairs were repuitel! When the lmilders mitereal to buide or make mpairs in the Temple לコロT. of to remove themee the undeanmess it was -ommanded that the premons entering should be perteet priests ; if pelfect priests could not lee found, priests with hlemishes migh enter, and if there wore mo priests there, Levites might enter; if bevites conld not In fomul, laymen might enter. The commandment is that they be enemonially dean. If mone in a state of purity could be formed, unclenn might enter. If the choice lay loctween an undean person and a person with a lhemish, he with a hemiah enterent, and wot he that was unclean, for uncleamess unfits for service in the congregation." And all who
 Wrove ine hoses them, or if it was mot prosible for them to do the wonk in boxes, they entered by way of the doors. ${ }^{30}$

[^11]
## CHAP'TER VIIT.

1. The gravilige of the simbthary was an aflomative commatme, not with-
 it was only for its honour. A palace over which there is placed a guard is not like a palace over which there is no guard.
2. And this guarding was commanded for the whole night. And the watrhers whe the priests aml herites, as it is said " thom and thy sons with thee before the tabernacle of witness" (Num. xviii, 2), which is as if it were said "ye shall guard it," and lo, it is said " and ye shall keep the charge of the tahernarle of the congregration" (it). Aviii, 4) ; and it is satid
 the tabernatle of the congregation eastwads, slull be Moses, and Aaron, and his sons, keeping the charge of the Sanctuary " (ib. iii, 38).
3. Amd if they ceaked guanting, they transereased a megative eommand, as it is saill, "amd they shall keep the charge of the sametnary." Ame the
 mayest learn that its guading is an affimative command, and the neglect of its guarding a nergative command. ${ }^{3}$
4. The law of its guarding was that the priests should keep guard inside, amd the lavites ontale. And four amd twenty guanls watched it the whole night continually, in four and twenty places; the priests in three places, and the Levites in one and twenty places.
5. And where did they watch? The priests watched in the house Ahtinas, and in the honse Nitzus, and in the house Mriked. The homse Ahtinas ant the homec Nitzns were upper chambers hailt at the side of gates of the court, and the hoys wathed there. The house Mohed was arched, and it was a large room surrounded by stone benches, and the clders of the family whace lum of sumpere was on that dass slepte thepe and the keys of the court were in their charge. ${ }^{6}$
6. The priests who watched did not sleep in the priestly garments, but follead them up and pint them opposite their heads, and fint on their own gamments, and they slept upon the gromul, like all watchens in the courts of kings, who do not sleep upon beds.

- If an accident happremed to whe of them, he went ahoug the gallery which was umber the sufare of the conet (beranse the hollow phaces which opened to the mountain of the homse were not samotified), batheal and returnert, and sat heside his hrethren the prises, until the gates were opened in the morning, when he went out and departed.
${ }^{1}$ According to a rule of Talmudical interpretation. Cf. Menachoth 36 b ,
 the Sanctuary, is enumerated amony the 365 negative precepts.

2 Sons of the priests not yet thirteen yenrs of age.
a The ghard was lisided inth areen homaes of futhers (families) aceonling to the days of the week, one for each day (Bartenora in Tamid i, 1).
${ }^{4}$ Literally, in their hands.
8. And where did the Levies watch? At five gates of the monntain of the hones, and at its four cormers within, and at the four eonthes of the eonrt outside (beeanse it was forlidhen tosit in the contl, and at fire gates of the court mutside of the emurt, for lo, the pribsts wathel at the grate Moked, amb at the gate Nitzus. Lon, thear were eighteen plates.
9. Sml moreoser they watched at the chamber of the offerings, and at the chamber of the veil, and behind the house of atonement.
10. Aud they plated a prefeet orer all the guats who watcled. If. was called the man of the mombain of the honse, and went romme all night toevery suard in turn, with lighted turches before him, and twevery gname who was not standines, the man of the momotain of the homse satil "peace her upon thee." If it appeared that he slept, he heat him with his staff, and he had anthority to burn his cloak, so that they said in Jerusalem "what is the roice in the contrt It is the roice of the Levite heing heaten and his garments burned, because he slept in his watch."
11. In the morning, shortly before daybreak, ${ }^{3}$ the prefect of the Ganctuary came whl knocked wh the shom of the lonise Mokme, where the pinats were and they urened to him. He lomk the ke! amd "pened the
 from the homse Moked to the conut, and the priests entered behind him. There were two lighted torches in their hatals, :and they diribed into two companies, one guing towarls the east, and one towarls the west, atul they searched, and traressed the whale of the eourt, mat the two combpanies rearthea the plase of the house of the pancake-maker. Matring reathed it, huth complanies said "Is it peace?" ame thes placed the make. of the pancakes to make the pancakes.
12. Amending to this umber they did every night, except the night of Hhe salhath, when they hat mo ligh in their hamk, hut savelual hy the lithe if the lanterns which were lighted here, on the eve of the Aithath."



${ }^{6}$ For the contents of this chapter, consult Tamid i and Middoth i.

# YOMA, OR THE DAY OF ATONEMENT. 

## Witif the Commentary of Rabbi Obadiaif of Barttenora.

## CHAPTER I.

1. Seves days before the day of atowement, they soparated the high friest' from his homse, to the chamber Palhedrin." And they apmonted amother priest in his stemb, in case any defilememt should hapmen to him. Rahbi Julah said "alan they amminted fom him amother wife in case his wife should die,"4 as is said (Levit. xvi. 17), 'and have made an atonement for himself and for his homsehold:' his homsehohl, that is, his wife." They said to him, "if so, there would be no enid to the matter."
2. All the seven days, he sprinkled the blood, and humed the inmense. and dressed the lamps, ${ }^{\text {a }}$ and offered the head and the leg. And on all
${ }^{1}$ Because all the services of the day of atonement were not lawful unless performed by him, as is said, in reference to the day of atonement (Levit. xvi, 32), "and the priest, whom ye shall anoint shall make an atonement." And this separation we infer from what is written (Levit. viii, 33), "the seven clays of their consecration," and "ye shall not go out of the door of the tabernacle of the congregation in seven days," and what is written afterwards ( $\mathrm{v}, 34$ ) "as he hath done this day, so the Lord hath commanded to do, to make an atonement for you." And our rahhis have expounded " 10 do" as referring to the ceremonies conneded with the red heifer (N"umbers six) : and "to make an atonement for yon." as refering to the day of atonement, hecanse the priest who hurnt the red heifer, and the priest who ofliciated on the day of atonement, were both of Them ubliged to be separated from their homers seven days, as Aaron and his sons were obliged during the seven days of their consecration.

- The hing's oflicers were called piableditin, and beanuse the himh pric-ts of the oreond Temple, after Simeon the fush, gave money forserve in the hiph priesthood. and beeano they were wicken ment, they did not complete their yats, hut were changed every twelve months, like the offieers of the king, whom the hing changes every year, thewfore they called this chamber, the chamber palhedrin.
* They prepared amother priest to be high priest in his atead if tp, we other uncleanness, happened to him.

4 If thou tahest the question of death into comsideration, there is no end of the matter; because this one alsu might die. But an uncleanness, which is of eonmom oecurence, we take into consileration, and therefore they appointed for him another prist : death, which is not of common oferrence (as dath happening suldenly and instantaneonsly) we do mot tahe into (omsideration, und therefore they did mot appoint for him another wife. The decision was according to tho wise men [not according to Rabbi Judalı].
${ }^{5}$ Of the eontimual sacsitices, in order that he might be accustomed to the servico.
${ }^{6}$ He cleansed them from the a-hes of the wieks which were extinguished.
other days，if he desired to make the wtiming，for the high priest hat the preference wibl respect to the part he might wish（o）ofler，${ }^{*}$ and the preference in taking a portion ${ }^{9}$ of the sacrifices for himself．

3．They set apart for him clders of the mlens of the homse of jutg． ment，Who reat before him ${ }^{\text {bh }}$ from the omer of the day，${ }^{11}$ and they said to him，＂ryy lord，＂high priest，read thou for thyself，lest thou mays＂have forgotten，of least thou hast unt learmeal．＂3 On the day premaling the day of atunement，at daybreak，they cansed him to stami at the eastem gate． and callsed to pass before him bulls，goats，and sheep，in omper that he might become acquainted with and accustomed ${ }^{14}$ to his service．

4．All the seven days they did not restrain him from eating and drinlinge，hat on the ese of the day of atomement at dusk，they did not let him eat much，${ }^{15}$ because eating induces sleep．

5．The elders of the beth－din，${ }^{10}$ delivered him to the elders of the presthond，${ }^{17}$ and they tomk him up to the upper chamber lieth Abtinas ${ }^{\text {w }}$ athl imposed an wath upon him，and departed and went their way：And

7 If he deared to make the offoring，he oftered every offering that he pleased： nor had the men of the watch power to stay his hand．
${ }^{8}$ He had the right to offer any part that he chose．
${ }^{3}$ In the dirision of the holly things，he took the promion which he selected as 1he beet．Thece womals mefor to the holy things of the altar（sanct nary），but the boly things of the comutry，buth the high priest and the ordinary priest divided equally．
${ }^{10}$ All the seren clays．
${ }^{11}$ In the section achare moth（Levit．xvi）．
12 リゼぶ＝927か，my lord．
13 In the second Temple thio was meedsanes，heeanse at the command of the hinge they appminted high priests who were wot fitted for the ofliee ；but those of the first Temple did not appoint as high priest any one who was not dis－ tinguished amonget，the priests for wistom，for beauty，for strengh，and for Piches；and if he was not rich，his bretloen the pricots made him so from their own means，as is said（Levit．xxi，10）＂the high priest among his brethren：＂ they made him great，from what belonged to his brethren．
is They cansed him to obsere the heasts which paseed before him in order to impress upon him the rules of the service of the day．
is Even of such kimels of food as do not proulue heat ；and they rostrained him Atogether from all foed which might pratuce heat of defilement，＂p pach as milk，erge，meat，oil，old wine，and the like．
${ }^{16}$ Who had read before him from the order of the day．
17 Toteach him how to fill his hands with the ineenos，as is said（Tevit．xvi，12） ＂and his hamls full of sweet incense，＂which was a dillioult part of the service．
${ }^{18}$ It was they who made the incense，and pounded it and mixed the gums．
 of the Temple amt then to enter．Fon they［the Sadducees］explain＂I will appear in the chond ufnon the merey seat＂（ib．zi），that in a clomit of smothe of the mopnse he should come，and then appear upen the merey seat．But the thing i．not so，for the Sirripture says（ib．1is）＂and he shall put the incense upon the fire before the Lord．＂
they saill to him，＂my lom high prines，we are the delegates of the liedhedin， and thon art our delegate，and the delegate of the hethectin，we aljure thee，ly Him whose name dwelleth in this hosuse，that thom change mothing of all that we have told thee．＂He retired and wept，${ }^{20}$ and they retired and．wept．${ }^{21}$

6．If he were a wise man，he expounded，${ }^{222}$ and if not，the disciples of the wise men expounded before him．If he were accustomed to read，he read ；and if not，they read before him．And in what did they read before him？In Job，or Ezra，${ }^{23}$ or Chronicles．Zachariah ben Kabutal said，＂many times I read before him in Daniel．＂

7．If he were inclined to fall asleep，the youths of the priesthood ${ }^{24}$ strock before him with the foredinger，s and said the him，＂my lowd high priest，stand uf，＂and conl thyself a litte＂pon the parcoment，＂and they


8．Every day they cleansed the altax ${ }^{27}$ at cock－crow，or near it，${ }^{23}$ either before or after．And on the day of atomement after midnight，a and at the Feasts after the first．watch．＂And conk－ceme dide not happern until the court was filled with people［lit．，Israel］．31
${ }^{20}$ Because they had suspected him of being a Sadducee．
${ }^{2}$ Because thoy had suspected him，for Mar said，whoever suspects the righteous is to be beaten in his body．

22 In things pertaining to the decisions of the law（הコラ）；all the night of the day of atomemont，so that he shall not sleep and defilement happen to him． and if he were a disciple，and not a wise man，and knew to hear and under－ stand the law，but not to expound，they expounded before him．

23 Because these attract the attention so that sleep did not overcome him．
24 Boung men，the hair of whose beards was beginning to grow， were called 9 ，pirchy $=$ young shoots，buds．

25 ת กัศ กภาร＂，＂near to it＂［Yoma 19 b］，that is to say，neur to the thumb which adjoins it．They joined the thmmb and the dinger next to it，and struck the palm of his hand and produed a sound，in order that he should wot sleep．

3．Upon thy fied and cool thyself a little upon the pavemant of martle to take away the heat，for cooline the feet takes away shepp，and 2 an has the signification

$\overline{5}$ He took some of the ashes（刀ロing，clocasiang，is the same as taking away）． either mors or less，in the censer，and put them on the east of the ascent to the altar，and they were swallowed up there in their place こコ フาフコ，miraculunaly？ This was the beginning of the morning service．

2s Nenr cock－crow，either before or after．
${ }^{29}$ On account of the weakness of the high priest．Because upon him alone was imposed the whole service of the day，it was necessary to rise very early．
${ }^{30}$ The multitude of Israel，and the multitudes of offerings，and the great amount of ashes in the place of the pile and the necessity of taking up the ashes from the pile to the place in the middle of the altar which was called tappacela［an apple］，in which place a great heap of ashes was collected and arrangel like an apple，made it necomary to rise very early；and they rose after the first watch，which was the third part of the night．
${ }^{31}$ At the feasts，cock－crow did not come until tho court was full of Isracl bringing the ir offerings，to offer them immediately after the moming sacrifice．

## CHAPTER II.

1. At first every priest who wished to remove the ashes from the altan, didso ; and when there were many, ${ }^{2}$ they ran and aseembed the incline ${ }^{3}$ and he whoget hefors his fellows, to within four culbits of the topsoblainel? the right to perform the service. If two were equal, the warden said to them, "extend the fingers." And how? They extended one, or two. ${ }^{6}$ And in the Sanctuary they did not extend the thumb.?
2. It onee happered, that two of them leing cughal. ran and ascembled the inctine, and ome of them pushed the other, so that he fell, and his leg
 this prowtions they ordained that they should not momere the ashes from
${ }^{2}$ Every priest who was of that house of the fathers and who wished to remove the ashes in the morning did so, and there was no lot cast in the matter.
"Of those who come to take away the ashes, this one said "I wish to take away the ashes," and the other said "I wish to take away the ashes." This was their custom. They ran and nsecented the sloping hascent of the altar, which was thirty-two cubits long.
${ }^{3}$ Ho who was the first to get within the four upper cubits of the ascent, which were neat the top of the altar, ohtainell the ripht to momore the whes. This was their lot.
' In getting within [these four cubits) meither of them obtaineed the right, but now they all came and cast lots. And how was the lot cast? The prefeet snid to them all, "hold up your fingers" [micate digitis], that is to say, "put fontis your fingers," and erery one shownd his finger. Becanse it was untawf ful to count the men of Israel, therefore it was necessary for them to put forth the fingers, in order that the fingers, and not the men, might be conuted. And how did they do it ? They stood round in a cirele, and the prefect came and took 1.he cap from the head of one of them, and from this cmen the tot hegan to conmt. Warlh one estentied his fingers, and the prefeet mentioned a mumber-a huncire.t. or sisty, sonne numher much highee than the mumber of the priests present-and said, "he at whem this mumber finishes shall have the right [ 10 ] perform this service]." And he now began to count from him, from whose head the had remased the eap., going round again and again, and combing the fingers mutil the came to the end of the number, and he at whom the number terminated whtained the office. And this was the manner of all the lots in the samel uary.
${ }^{3}$ One finger if he were a healthy man, and two if he were sickly. Becnuse n siek person is not athe to melrain his fingers, and when he extends one, that nex: to it comes out with it. But only one of the two was counted.
${ }^{6}$ Recanse of deecivers. Fur when the number eame near finishing, and they conld tell at whom it monld finish, he whostood hefore him might put ont two fingers in order that he might be counted as two perome, and thus the number might prematurely he completed at him. Atal the prefeet might not pereceive this, hemere a man enu stretoh the thamb, to a great distanme from the linger, so -hat they might appar like the fingers of two men, which it is impmesihhe io do with the other fingers.
the altar except by lot. ${ }^{7}$ Four lots were there, ${ }^{8}$ and this was the first lot.
 the hoond, who shomble take the ashes from the inner altar, who shombld take the ashes from the camllestick, whor should take wh, the piewes of the sontive to the indine, the head and the leg. ${ }^{10}$ and the two fore-liges. the end of the spine amb the hag, the hreast and the throat, and the two sithes, and the inwards, and the tine flome, and the pancakes and the wine. Thirteen priests whtainell it. The sum of 'I gai said hefore Rahhi Akilah, in the name of Rabbi Joshua, " as the animal walked, ${ }^{11}$ so it was offered."

7 That [lot] which we have explained.
${ }^{3}$ Four times a day they were assembled to east the lot. They did not enst the lots for all at one assembly, in ender to make it heard four times that there were many people in the court. And this was for the honour of the king, as is
 tumult of a large assembly].
${ }^{9}$ Who should slay the daily sacrifice, who should sprinkle the blood, \&e. All these offices were decided by one lot. He at whom the number terminated (as we have explained) obtained the right, and sprinkled the blood upon the altar nfter he had received it in the vessel for the purpose, for he who sprinkled the blood received the blood. The next priest to him killed the sacrifice, and this, notwithstanding that the slaying preceded the receiving of the blood, theemse the offiee of sprinkling was hieher than that of slosing, for the slaying was lawful if done by a stranger, which was not the case with the sprinkling. For from the receiving of the blond and afterwards it is commanded that all the service be performed by priests. And hence he to whom the first lot fell obtained the office of sprinkling, and the next to him that of slaying, and the next to him who slew the lamb clennsed the altar from the ashes, and the next to him who cleansed the altar from the ashes, removed the ashes from the candlestick, and so with all.

10 The head and right [hind] leg by the first priest; the two fore-legs by the second; the end of the spine (whieh is the tail) and the left [hind] leg by the third; the treest (that is the fat of the breast, the part lewhing towards the troumd, which thery divided on cither side withoat the cmis of the rithes) and the throat (the place where animals chew the cmil, that is the neek, and joined to it the wintpipe, with the liver and the heart), the hreas and the thront lig the fourth Irient; and the two sides lys the fifth priest; and the inwards by the sixth; and the fine flour, a tenth deal for the meat and drink-offering of the comtimual sacrifies (Exed. xxix, fiO) les the seventh; and the parahes, a half tenth deal for the meat ooflering of the high priest, which he offered every day with the duily gerrifees, as is shid (Levit. ni, 20), "hatf of it in the moming, aid himelf thereof at night," hy the eighth; ant the wine, theee logs for the drink-offoring of the daily samfice, by the nimth. Thidempriesto ohtained he this hat thitern priestly functions, numbered to them according to the order stated in the Mishma.
${ }^{11}$ As it walked during its life the continual sacrifice was offered. The first doctor thought the good and comely parts were offered first, and Ben 'Azai thought it was offered as it walked; the head and the hind-leg, the breast and fl:e Hlront, and the $t$ wo fore-legs, and the two siles, the end of the fpine and the (other) hind-leg. The decision was not according to Ben 'Azai.
4. The thirat lot aras "those who have never offered the incenses, cerme and cost loks."e And the fourth was for those who hand, and thome whe had not before preformed the function ${ }^{18}$ to dicite who shonld take up the pieces of the sacrifice from the incline to the altar. ${ }^{14}$

 Feast of Tabernacles, ${ }^{17}$ the vessel of water mos brought hy the hand of one. making ten. In the evenings ly cleven ; the lamh itself liy nine, and two with 1 wo pieces of wood in their hands. On a Sablath by eleven; the lamh itself by mine : and two with two ressels of frankincense for the shewlnead in their hants. And on a sablath which occurred in the midelle of the Feast of Tabernacles, a vessel of water, by the hand of one.
6. A 1 am was offeret by eleven priasts ; the flesh by five, ${ }^{\text {10 }}$ the inwards. and the flour ${ }^{20}$ and the wine by two and two.
7. A pome bullow whas offered bey twents-four prisats. The head and the lege: the hand lig one, and the leg hy two. The end of the spine and the leg: the end of the spine by two, and the leg by iwo. The hreast and the throat: the breast loy one, and the throat by three. The $t$ wo fore-legs by two. The two siles hy two. The inwards, the fine flomr, and the

[^12]wine, by three com there. To what do thene womls apply per To offerings of the congregation. But an offering of an individual if he wished to offer it" himmali, he might offer it. The skiming and eating um of hoth the one and the other were alike.

## CHAPTER III.

1. Tae prefect' said to them "go out and $\sec ^{2}$ whether the time for slaying the sumitue has arrived." If it had arvivel, the priest who mom out (1) see, said "it lightens." Matathiah ben Samnel said "it is becoming light along the whole east."s "As far as Hebron ?" and he said "yes."
2. And why did they find this necossary? Beanse it once happrened that the light of the mom asembed, and they thonght it was daylneak,? and slew the sacrifice and took it out to the place of burning. They conducted the high priest down to the hathing romm." This was a genelad rule in the sanctuary : whower "corered his feet "9 was sequirel to bat he his whole body afterutards, and whoever made water, was required to wash [lit. sanctify] his hands and his feet.
3. No man might enter the court for the service ${ }^{10}$ even though clean,
${ }^{21}$ In reference to all these priests for one beast, and in reference to the lot.
$\approx$ One priest might offer the whole and without casting a lot.
: The skiming and confing up of the hullock offered by an molividual, amt
 were lawful by a stranger, and did not require a priest.
${ }^{1}$ He was the sagan (or viear of the high priest).
a To a high place which thoy had in the Sanctuary.
${ }^{3}$ Because it was unlawful to slay the sacrifice by night, as it is said (Lerit. xix, 6), "on the day ye offer it."
${ }_{4}$ It is becoming light and the morning breaks.
5 This was after the lightening spolle of by the first dorctor. The kalachath was according to Matathiah ben Samuel.
${ }_{6}$ Thane standing helow asted him whet hew the light reached fo Hhbrom, and he replied yes. They mentioned Helmon in order to call to mimil the merits of the fathers.

F This is not said to have been on the day of atomement, for it is mot pus-ible for the light of the mom to ascend near the moming on the day of atomememt. because that is at the third part of the month, but at the end of one of the months, when the moon rose near the rising of the morning, this mistake occumed; and they were ancions leat on the day of atomement anothep mistake of the like kind might happen, and therefore considered all this necessary.

8 This [that is suid about the moon] is pamenthedical, and now the Mi-hna! returns to what we are taught above, "ns far ns Hebron?" and he eaid "Yes." And after that the priest who went out to look said "yes," they conducted the high pries down to the hathing-room, hecause he was required to bathe before he slew the continual sacrifice.
${ }^{9}$ An euphomism for the excrementa majora seu crassa.
${ }^{10}$ Or for any other purpose.
matil he hat bathed. ${ }^{11}$ On this day the high priast underwent in it five immersions and ten washines [lit. samelifying], aml was sumetifed, aml all of them wore in the holy part of the Tomple "pmen the house I'arvah, ${ }^{\text {a }}$ except this one only. ${ }^{13}$
4. They spread a linen cloth ${ }^{14}$ between him and the people. He atripmed, drsembled and immersed himself ; (anme up and wiped himself.ts Thes brought to him golden garments. He dresed and sametifed his hands and his foot ${ }^{16}$ They bromght to him the lamb for the sateritice. Which he party slanghternl, ${ }^{15}$ and amother ${ }^{1 s}$ piast completed the slaughering fon him.' He remived the homel and sprinkleal it. Me went in to wher the mmming inmense, aml to dress the lamps, amd to offio the heal and the pieces, and the pancakes, and the wine.
5. The inconse of the moming was offered lretween the spient?


${ }^{11}$ The mather is is fintion ; for as the high priest changing from holy to hotr: from corviee without the Temple italf] fosemtee within, and from service within tservice sithout, Was whligal to hombe heen one serviee and another, mueh mone as he mow came fiom his houre, which was profane, to the holy place, he was obliged to bathe.
${ }^{12}$ Upon the chamber of the house Parvah.

1. The first, which was in the profane pant of the temple, orer the water gate beside his chamber.
${ }^{18}$ To keep in mind that the service of the day was performed in linen Lraments, hecenae the high priest sats aceustomed fo serve all the sear in golden garments.
${ }^{15}$ Wiped clean.
${ }^{26}$ At the laver, because at erery change of the garments of the day it was nectanars th mantify at haling then off, and again at putting them ons, and this firs lathing, which was ont thaing off the pmone garment:, dich thet require sunctifying of the hands and feet at the taking off.

1: Hecouf the greater pard of the fwo "signs" [the grullet and wimipipe], which alune makes the slaughtering lawful.

 it.

10 7. לy, "on his account," or, perhaps, by the hand of another near to

${ }^{20}$ Not exactly so. For wo are taught above [i, 2] "he received the blood and
 tre hesuland the piects," sat that the incense was offiend between the sprinkling of the hoond and the dreming of the lampas, and not between the sprinkling of the howel and the offering of the piewes of the saceifece. But the doutor is not now *pathige of the onder if the offerings. that this one was after that, and an om, hat hee omly desives to say that the smonklinge of the how ame the offering of the pieces did not immediately follow the one after the other, for the incense came I.awern them, and aton the doresing of the lamps was hetween them, after the incense, and before the offering of the pieces.
drink-oflerings. If the high primet was wh or weak, they pheprat for him lan water, er and put it intw the cold cotar, in urder to take awayed its coldness.
6. They led him to the house of Parvah, ${ }^{23}$ which was in the holy part of iln Timples and spmeal a linen cloth between him aml the prople. Ble s:mbtilied [Washed] his hamds and his feet, and striphme. Rahbi Meyer
 down into the bath and immersed himself, came up, and wiped. They brought t., him white graments, he dressed and sanctilied his hands and his feet.
7. In the monine he put on garments of Pelnsimme manufacture, of the value of 1 welve mumim, and in the eveniner Indian warments, of the value of eight hundred zuzim. The words of Rabbi Meyer. And the wise men said" in the morning he pht on govements wouth eighteen mevim, and in the evening wortht welvementim; athe whole of these thinty menime were the property of the community, and if he wished to atd to then, he added from those belongring to himself. ${ }^{33}$
8. He came now to his bullock ; and his bullock stood between the porch and the altar, ${ }^{31}$ its head to the south and its face to the

21 So that his body was cold and frigid.
22 On the eve of the day of atonement.
23 On the day of atonement they put it into the pit built in his bathing-room.
$2 s$ 'I'o take away its coldness somewhat. ม"פת change or lose their taste " [Peachim $41 a]$.

25 A certain magician, whose name was Parvalh, built it, and it was called after his name.

20 Because this second immersion, with all the other immersions, except the first, must be in a holy place, as it is written (Levit. xri, 24), "and he shall wash his flesh with water in the holy place."
\# R. Mesersaid, he stripmel firat and afteewards san tifich. The derioion was not according to Rabbi Moyer.

28 The shirt, the brecelies, the girdle, and the turban, which are mentioned in Leviticus xvi, 4, for all the services which were within wero porformed in thom,
 sacrifices) were in golden garments, in which he ministered the whole year. And between each change of garments immersion and two sanctifyings of the hands and feet at the laver were required.

3 Fine and heaniful limen hrought from the lam of Ramse. In the Targhm Ierushalmy Ramses is l'elusa [Pelusium].
${ }^{30}$ From the land Ifodo [India].
${ }^{31}$ Those which he put on to bring out the kaf and the censer.
${ }^{32}$ He here repeats the aggregate value, and teaches us to understand that thirty manim were the sum of the whole; to tell thee that it was of no consequence if he diminished from those of the morning, and added to those of the erening [provided the whole was thirty manim].
${ }^{33}$ Only he must give those added as a gift to the Sanctuary.
${ }^{34}$ By law all the northern part of the court was fit for the bullock to stand in. for it was all "befure the Lord." And theg did not place the bullock between
west. ${ }^{5}$ And the priest sternd on the east, with his face to the west, ${ }^{\text {s }}$ amt laid his two hands upun it and confessed. And thms he said: () (iond: I have dmbe wrong, I hase transoressed, I have simed before Thee, I and my honse. Forgive now, O) (imbl, the wrons and the transgression and the sins which I have done, and transeressed and simed before Thee, I aml my house, acombling as it is written in the law of Moses, thy servant (Levit. xvi, Bu), "fon on that day shall the patest mate an atomement for yom," de., and they repeated after him, "Whessed he the glonious Name of His kingdom for ever and ever."
9. He now came to the east of the court, ${ }^{37}$ to the north of the altar, b'e sacrul lminet on his right haml and the chief of the house of the fothers on his left. And two goats were there, also a hox, in which were tive lots of boxwoul ; Ben (iamlat mate them of gehl, and they were accustomed to commemorate him with praise.
10. Ben Katin" made twelve corks ${ }^{\text {² }}$ to the laver, there having infore beroll only $t$ wo, and alan hemade a mathimes for the laser, that its water might not hecome detiled by remaining all night. Monbaz, the king. made all the hambles of the ressils of the day of atumement of gohl. Holema, his mother, marle a gulden lantem" for the dom of the Temple, alson she mate a gollen tallet upen which was written the section of the latw tie porchand the altar near to the Temple, but on account of the weakness of the high priest, that he shonld not be oppresed by the burden of canrying the vesact for sprinkling the blood to a distance.
${ }^{35}$ It was ordained by the law that its head should be towards the temple, which was on the west, and its hinder pard fowards the altar; hut lent it shonld drop its dung, and heranse it was a shame that its himder part, "ער הプב, should look to the side of the altar, its head was put towards the south and its tail townords the morth, which wat bery suitable, and the midtle of its bo iy between beporit and the altar, and its head was turned until its face was fomards the west.
${ }^{36}$ And his back to the enst.
F Beranse thes did not take the grats in to between the pereh and the altar when it was wi-hed to put the lots upon them, bot thes renained in the court till the time of slaying.
${ }^{3}$ A perforated vessel of wood.
${ }^{33}$ Buso [buxus] in Latin, a kind of wood. This is only a supposition.
${ }^{40}$ Joshua ben Gamla, when he was chosen to be high priest, made them of $\mathrm{g}, \mathrm{ld}$.
${ }^{41}$ He was a high priest.
E Th order that the forlse priesta fo whom the lots had fallen to furform the contintal satifie of the moming might sanctify all at one time, and motwithmambing that there were thirtwen priests emgaged in this servoce, as we hase said
 was luwful by a stranger.

43 A wherl to immerse it in the eistern [or well] that its waters might be mingle in the matem and not berome defiled by remaining all night in a maced ve isel].

4 Or candlestick [candelabrum].
 there happered miracless And him they commemenated with praise.
11. And these were commemorated with shame: the family of Camme, Whto, were mwilling to teach the way of making the shewinead ; the family of Ahtinas, who wore muwilling to teach the mamen of making: the incense: Hagris hen Levi, whon knew a portion of songem and would not teach it; Ben Kamtsar who was unwilling to teach his method of writing. ${ }^{51}$ In reference to the former, ${ }^{32}$ it was said "the memory of the just is hessef," and in reference to the latterm " the name of the wiokent shall rot."
${ }^{45}$ That it might not be necessary to bring [the roll of] the law, to write from it the section' referring to a suspected wife.
${ }^{46}$ The name of a man.
${ }^{17}$ He went to Alexandrin of Egypt to bring the doors. On his return there arowe a great storm at sea, which, thentered to sink them. They fork one of the doors and threw it into the sea, in order to lighten the ship, and when they sought to throw orerboard the other, he said to them, "throw me with it," and immediately the sen ceased its raging. When they arrived at the port of Acea the door which had been thrown overboard eame out from under the side of the ship.
is The other workmen did not know how to take it from the oven without breaking it, because it was made like a kind of open box.

49 They knew a certain herb whose name was "the nscencling of smoke," and when they mixed it with the aromatics of which the incense was composed, the smoke of the incense formed a column and ascended in the form of as staff without bending to one side or the other.
${ }_{50}$ An agreeable modulation of the voico.
${ }^{31}$ ITe hound four pens to four of his fingers, and wroto the nomen tetragram. meton तs if it were of one letter.
52. Ben Gamla, Ben Katin, Monbaz, and Melena his mother, and Nieanor.

58 The family of Garma, and the family of Ahtims, Hauros hen Levi, and Ben: Famtar. And although the family of (iarmu and the family of Ahtimas explaine-1 their words, "that they did not wish to tench," to mean that they would not, trach a peoson whom was not homet and might go andpratise itlolatry therelos; the wise men did not aceept their words.

## THE CITY OF DAVID.

## (Continued.)

## I. Zion, Soutir And not West of the Tearede.

 of David" fumthem west than Sir (hambes Wampen's site, and (1, 3.3:3) has "litule hesitation in ithentifying that hill (Amai) with the knoll of the prestht sipmuthe (humeth." He eombludes that the term, the City of David, was aphlieal (on hhis pat becanse (as he urges) Milin was in the ('ity of David, and Millo is rembered hy Acae in the LXX, and nest
 ("Ant.," VII, iii, 2), which he itentities with Aera ("Wars," V, vi, 1): amb, as alpealy stateal, (aptain Comler takes Joseplus to plam his Acma Weat of the Temple. It will be seen that the argument is this: Where Acra was, there was also the City of David. But it has been proved almone that lera was south, not west, of the Temple. Therefore the City
 Sepulchre.

Annther point may be noticed. As Captain Conder is rearly to
 "ity in the "Antiquities" with the Aera in the "Wiars," he canmot faifly ratise to indentify the Lower City and the Arat of the " Antipuities" with the Lawer City and Ama of the "Wars," while the expmession in ". Int." XII, r, 4, he "hilt the Acma in the lowere "ity." shoms that sometimes the Acra only means a part of the latter. Now in "Ant.," VIr, iii, 1,
 aptumed the whole of dematem. Now it is onterims that the Cifu" (ity on the sumth-westem hill muld not he either the lomer (ity of the Arat within it. Themefore, amonding to the "Antiquities," the "pret City was not the City of David.

Acomangly, when Captain Comier ("Itamplomk," 33G) wants to sln w that the Upper City was Zion, or the City of David, he appeals to "Wars," V, iv, 1, where Josephus says that the Upper City was called
 (Heh. Metral) of Zion, which was afterwatrls callent the (ity of hatid (2 Sam, v, 7).

Josephus wrote the "Antiquities" after the "Wars," and was of course at liberty to correct his own mistakes as far as he could. Since then, in his later amd fuller aromunt. Jowphos spoaks of Dasid takine the Lower (ity aml the Ara, aml aftom the expmlan of the Jelmates from the Acm, of his mbmilding Jerusalem and ealling it the City of David, it is whime that the manal remark in the "Wars" is set asite as worthles hy Josephus himself. After this exposme I hape no one will maintain that the alrambuned statement of "Wiass," V. ir, 1, proves that the CPrev ( ity was ever the strongholdi of Zion, wh the site of the (ity of David. For myself I decline to deprent on the conjecture in the "Waiss"
 where the Biblical account says nothing whatever about an Unpper or $^{\text {on }}$ Lover City, but simply mentions the fort of Zion.

Thrupp (Jerusalem, 56) thinks that Acra in "Ant.," VII, iii, 1, may and does mean the Upper City because (1) the Acra in that passage is "not to be identified with the Lower City, the Acra of later times," and (2) because Josephus in "Ant.," XII, x, 4, speaks of an Acra which Thrupp takes to have been in the Upper City.

The answer to (1) is, that the later Acra (as already pointed out) sometimes means only a part of the Lower City, and therefore, in "Ant.," VII, both the Acra and Lower City, whthot being identical, may bre nament. just as both are mentioned in "Ant.," XII, v, 4 ; and to (2) that the passage in Jusplus is contupt, mal that a reference to the parallel acemunt in 1 Macc. vii, 32, shows that the Acra named was not in the Upper City, but was the one commonly so called.

Further, in aftempting to prove that the Arra of Joapluss was weat of Whe Tomple, (: phtain ('ombler shows lut little pespert for the statements of his great authority.

In "Wars," V, iv, 1, 2, Josephus says, "Over against this (Acra) there was a thied hill (nhsomsly the Timple hill), hut natmally lower han A (ras. and formerly parted from it by another broad valley. . . . The Hasmomeans filled mp the ralley, wishing to join lhe City to the Tewphe: and they levelled the summit of Acra and reduced its elevation in order that the Temple might he seen above it in this direction, fourth hill which is called Bezetha (i.e., the new city)."


 filleal up hy the Hasmoneans. But if they hat wisheal on join the eity (Acma) th the Tomple. why slomht they have filled up the valley lintween: Araa amla different hill, Bezetha, north of the Tomple (33:3)? Aml, lastly. ('aptain Comber tells us that his Acta fomtraly for the statement of Jrapphins) is still whme (instead of lower than) the higheat print on the Temple ridge.
sir Chamles Warren's site at any rate satisfies this repuirement, and su, of course, does the true site for Acra south of the Temple.

It is one thing for Josephus to have made a mistake about a height bring lownod and a valley filled up two hmmedre reas hefore his day, when in his time neither existel to be seen; and quite a diffomenthins for him not to have houwn whinh of twa hills was the higher, when he hat prolably aloweral heoth of them daily during the siege. It seemsto me, homeret, that Josphths may have mant that the Cifm City wats joined to the Temple in the line of Wilson's Arch.

Haring thus chared of all otsfructions the grount nowh of the [pres City, the way is now open for me to attack the traditional site.

## If. Zion not on the South-Western Hifit.

The defenders of the Upper City are many and mights. They are further agreal that their site is the true one, hut homplessly at variance as to the way of proving it. Nehemiah ii, iii, and xii is to them a crucial test.

One (M1: Temz) hinks that the worls is.mpial 12?) "from the dung gate to the fomenain grate" give an order from cast to weat ; another (Captain (imuler) from weat to east : another changes his mind within ten pages
 it at all. He writes to me: "I won't consider it any longer, as I nearly went off my heal a dozen geass ago over it. Of all the suljeets I know. there is none mone bewildering. I cannot umderstand how Sion can be anywhere but on the western (i.a. S. IV.) hill, and yet your argunents are very strong."

Mr. Tonz, the constructor of a most interesting mondel of Jerusalem, objects to the Ophel site on parge 121 above, and thus defeuds the traditional one :-

1. He both says he "may justify the remarks made by Captain Comder acainst the Ophel site" (Yuaritory statement, 1583, p. 199, and adds that Josephins "is ret the most reliahle authority." Captain Comber there asks, "If David and Sohomon did not huild a wall romme the [ "pree ('ity, why does dosephous say ("Wars,' V. iv, 1) that the whed mall lmilt her fowid and Siolomon beyum on the memth ut llipprioss? Is this another falee statement, or is Hippicus on the Temple spur, and is the Upmer (ity past Herodian. And if they did, why should the 'City of David' he applicel to a hill which was ouly walleed in hy later kings!" I have no objeetion to the idea that Invid and solomon had to do with the wall here spoken of. I would, however, proint ont that while Captain Conder says Ophel "was omly wallent in by the luter kings," Juserghms himself in this proseage says that the old wall lmilf loy David and Solomon and the later kings

 Thus, according to Josephus, David and Solomem had as much to do with the wall in Ophel as that on the hill of the Cpper Cits, and so Captain Comder's motion ahout the later kings is wrong. Surely Mr. Temzas an admirer of Josephins, ought to have justified him and me and mot deserted both of us for Captain Conder.
2. Next, he thinks that the towers, hulwarks, palaces in I'salus slviii were too many to have been on Ophel, and that therefore Zion mus: mean the Upper City. The question, however, is not what Zion or Monmt Kion mas mean in the l'satms (where thes sumetimes seem to the equivalent to Jerusalem), hot what in historimel passages is meant hy Ziona and the City of David. (Quarterly Statement, 1881, p. 94.)
3. He thinks the Tpree City must have heen Ziom, herause the ralley of Himmom went up on the south side of it. I have shown, however, that the Tyroproon was the valley of Himmom, and as it is not somth of the

Hple City, this rery argument shums that the tiller City was mot the stronghold of Jebus, i.c., Zion.
4. He thinks Nehemiah went out near the Virgin's Fount, by the valley (ge) gate learling to the lonok (muchal) Kidrom, and that when he
 Himom. Here once more ge and nachal (see 101 supra) are confused, and so a hopeless chans ensues, as will be seen in the next point.
15. Bep pacing the valley gate near the Virgin's Fount, and Davids trmil at on rear the pereent traditional site, it will be sech on reference to Nehemiah iii, and xii, 31-40, that Mr. Tenz sends one fromerain almont romul Jernsalem, first south, then west, nest north, afterwands eash, and finally somblh, matil Gphel and the Horse Gate are passed in the emomy onder, a distane of alout 10,000 feet, and the other party mily march a tidicultusly shont distanes, about 500 feet, and into, this shent diantance he has further to cram the sheep' gate, the fish gate, the old grate, the Ephraim gate, and the valley gate-five gates in about five hombed feet. which is of course alsurch, but inevitable with his theory.

The argument from military considerations, too hastily supposed to show that Zion was the Thper City, rally points to a comirary conclusim.

It is said that as the south-western hill was by nature the strongest pmaition, it must have been chasen for the site of the font of Zions. Bint when Antiochus Epiphanes had the whole of Jernsalem in his pmasession. fortifying the Upler (ity is just what he did mot do. He deliheratuly (1 Mare. i, 833) placed his garrimm in the City of basid, in the Acta, in the Lower City, where it held its own for twenty-six years, and was at last omly pednced hy famine. It is clear that what was taken tole the hast purition hy Antiochus migh well have lwen chasen ly mhems he fone him.

I have shown above how Captain Conder's defence of the Upper City fails, but 1 must alon show how his attack on my (Gherel site mads in smoke. He does not admit with Sir Charles Warren that Nehemiah antually places the stairs of the City of David, and the Fepuldures of Davin, and the Howne of David, on Ophel, ame so is put to great straits in order to avoid this concession.
(a) He draws ("Mandlowk," |1. 345) the staiss eithey (in the site of the Efple (ity or up the Tympor, thomy the natural conse for the frocession at the dedication of the wall womld he as at wher puins, along the wall, which confessedly was on Ophel.
(b) He admits that the sepmlefres of David are placed loy Nehemiah III ( The sons (or descendants) of Thavid whe were mot haried in the City of David.
(f) He also almits that "the Honse of lavill" is plawed liy Nelremiah ( $\mathrm{xii}, 37$ ) on Ophel, hout contembls that the expression means the sepuldire, \&c., as in (b).

This is certainly using the lucus a non lucendo principle with a
vengeance. But a new idea! Why not argue that the tomb was Saul's and that "the Honse of Davil" simply menns "the tomb of the fiounc-ime lavo (!) of David. For was not Saul buried in Zelah? and by some, I
 p. 147) with the eastern hill at Jerusalem.

I now claim to have disposed of the myth that the Upper City was Zion. Jerome motns to hare been the puldisher of this greatest work of fietion ever produced, for it has had a run of fifteen centuries, and is still in demand. It has not only imposed tow long on unsuspicions follk, like mysolf, of crampolt imgination, lmet it has also hewitched the writer of an inpussible ston'y whom 1 used to think fon shewd ever to mistake such tiction for fact. A few perhaps will be thankful for the disprelling of this patriotic concoction; most, however, will probably choose to haldeve an empor rather than weary themmeres in investigating the truth.

If any gene wianes to defend cither of the peeme-Zimes that I claim th have aunihilated, let him do so.

> "Vire, rale. Si quid noristi rectius istis Candidus imperti; si non his utere mecum."

W. F. Birci.

## THE DEAD SEA.

Shma ohservations which seemed to puint to one condusion claining my interest in the autumn of 1854, when I was twice at the southern end of the Dead Sea for the purposes of my Art, have since remained in my mind as indientions of peruliar features in its genligieal formation, and as I have never met with references to them, I will now beg your permission to invite the attention of Mr. Hull, or of any future investigator of the distriet, in order to have the truth on the point raised satisfactorily explained.

I will tell the facts as they came to my notice. My first joumey to the district was made from Jerusalem with Mr. W. Beamont, of Wartinglon, who wrote a vers interesting diary of his visit the the Holy Land, entitled "Journey in the East." A third friend was his son, the
 arrived and pitched our tent on the plain amid the trees, which, as the lake widens two miles or so northward of Usdim, are thick and about 20 feet or more in height. As there was still enough daylight remaining, we set off to the border of the sea for a bathe. On approaching the coast it was noticeable that the trees on the north-eastern curve of the bay stood closer to the margin of the water than they could have been whon lirst they encred from themil, and that into the wate itwo the whole of the once living forest of tamarisks, junipers, aeacias, \&c:,

been gradual, and promaty the work of some seatoms, the trees furthest away from the shore were still with hathehes runhorken, and iven with stems and upper fwies intact mutil the dephth hid them. It was a sight with immediate caution en the swimmer, amd we cook the himt to wo iwo or three hundred yards more to the north. None of us had bathed before in the waters.

I think we were all grood swimmers, but when I dashed in and threw myself forwate to get out of my depth, there whas emongh of do without observing my frioms. The mmanal deyree of limosamey in the briny
 abrasion on my skin, and I could searcely tell in what direction I was striking out until I fouml myself cartien loy a furront intor a mas. of stiff bumghs of trees fay off from and still demper engulfed than thom visibte from the land.

Making allowatce for decosase of height from the marsing antay by the waters of the upymer twigs, the depth here to the hottom im whish the treess stoml must hase heen about $2 \pi$ feet. The lame had therefone sumk thus much since the thees were flomishinge So far, the finet was but for the neighbouthoul a startling one. It was and momarhment of the seat mo the land by the sinking of the latter:

Two months lateT I came to the same meighbomrhomd again to paim at the spme chosen for my lamberape, which was two miles move th the south than the point where we had hathed. This time, for considerations of health, and being withont friembs with indepentent interest: I encamped under the rastle lmitt on the high evage letwem: the divided torrent bed in the Whaly Zatarahtahta. Before stmrise eanh momine I started with one Arab, Rilleiman, to emss the plain to the shome of the narrowest part of the sea. It was in a line drawn from the mombth of the wady to the north-eastern hase of I/schun, only deflectal dighty at this spot to escape the irregularities near the foot of the momm as it panat an somewhat more southwardly to the margin of the lake.
 midway hetween the whly and the momme, was anrested by a cirenlar opening in the earth, 7 or 8 feet in dimmeter. It was deanl! unt a wr.ll. its position fortade such idea; lout what would in an! aase have made this evilent was that the apreture was not vertical, but wbligue, elophuy from morth-west to somtheast. The pormation was su cleaty mate that
 were cleaty defined in the sectional sumface of the viremmferome. I asked shkiman what this apertme was. He anoweled unlositatimgly hat it had been catised by a falling star, and after the raw suspicion that he spoke thos with the omblinary love of the marvelloge for matters haysut Arab ken, I saw that no other theory could amount for the courlitions of the case. Time was too precious for me then to linger long, but on
 that the perforated earth was only a crust of upheaved sand of about in feet or an in thickness, and that below in all directions was a hollow
(ave abont 20) feet in depth withont walleq at the hotfom, where I (anthl are the didurs of the piemed alluvial ernst. Vifontmately, my task was tom dithioult a one to allow me tos spare the time for descemblers into the pit, and thas I emulil mot investigate it except from almote: hut what I saw of the eavity sugested that the whole phath, having leen formed hy alluvial washings, had heen raisal from the bed below ha voleanie forme: that it rematmed thus while underwonl and trees grew upme it ; that it pobahly was improvions to the water of the falt sea, hot that the weight of this was gradnally pressing it with its growith down, as 1 had fomme was alrealy dome at the spot whene my frimuls and I hathed iwo miles on so further north.

When I heft the melghburhoul I hat the intention of metorning there (6) paint mome of the extramdinary and glaml seemery of the Dean sea. but the Art, world are slow to exhibit interest in what is not "stale as
 found myself near enough to the beach of Usdnn to make further investigatimns into the facts piven above. It will he a great satisfaction th me mow if smme one compretent to determine their trme significance amt value will direct his attention to them.

Isonelon, Jume 1st, 1885.
Homas Hest.

## THE

# PALESTINE EXPLORATION FUND 

## NOTES AND NEWS.

Turn parket of papers and plans mentioned in the Juts Quarlorly Stulwont as having heen meeced from How Shbmacher has been placed in the hamb of the printers and engravers. The text has been carefully revised by Mr. Guy Le strange, wht in onder to add anything to it or to subtract anstlinge, but in order to anglicis : manuswipt writion in (ieman-Enclish. The rolume is mot get quite realy, bat may be experted in a few days. One coply will be forwar ind (6) every sulsariber whon has abeaty signitied, of who will on the reecigt of this Quarterly Statement signify his desiro to possess it. It will be sent, post free, in order of application. A closer examination of Nerr Schumacher's map and of his manuscript, together with an urgent request from the author, has made it necessary to change the title originally proposed. It will not be called "The Tamd of Janlan." beranse that title, it is now perteived, would ember an incomert impression of its contents, but "Across the Jordan," with a sub-tille explaining that it is a record of exploration in parts of the Hauran and the Jaulan.

As regaeds the map. it slomid he mentioned that How Schumacher executel at the same time another sumey of a di-n wict of equal estent to that dome for us. This map, ! img moth of our portion, he has sent to the Gemann society for the Exploration of Palestine.

These explomations were made posible to Here Schunacher by a permissiom to surver for a propneed railway, the oberrations, notes, drawinge, and mements being exceuted during the course of his work. The triangulation has been found by Mr. Armstrong to fit very well with that of our own Surreys, and there has been mo dificolly in laying down the map upon our sleeds. I retued map will he i-sued with the molume. The number of plans and dratrings wheh illustrate the volume amount to nearly a hundred and fifty. With the volume will the reprintel Mr. Oliphant 's and MLr. Guy Le Strange's pepers on the country east of Jordau.

The Committee enrnestly desire to draw attention to the very important Circular which has just been prepared and issued. It will be pereeired that an "ppontunit? is here presented for doing on a large and exhentive sembe what has
 (rastoms, loages, traditions, languages, legonds, and manner. It is an impuiry

Which will without douht prove fruiful in Biblieal illustmaion; the value ut the realts will depend entirely on the charader of the quetion propecent; and it is most earnestly hoped that every one interested in the subject, and able to assist, will help the Committee to make this inquiry thomonghly compmehersive. and, with that view, will forward suggestione for que- ioms. These -homhe embate exepthing, howewerapparent! trivial, which conterns daily life, religion, tradition, art- induatres, and chstoms. A sub-commiftee will reveive and arrange them umber their varions headinge, and a beginning will be mode as soon as pmathe. The results, if the Committee receive the support which they anticipate in this most important umtertaking, should be to pour light upon many puints which are at preacht ubscure. The expense of the work will mot, it is anticipated, he very great. On this hmath of inquirs, as of the sumes, it may be mant troly sail that the ohd thinge are fa-1 passing away, and that if they are not very som mollected and publinhal they may be forgoten amt hopelesaly lust. The foilowing is the Circular:-
"The Committee have long had under consideration the colleston of atl that has to do with the manners and customs of the present inhabitants of Palestine and other parts of Syria. Attempts have been made from time to time, by re-id 9 is of the country, to do this, especially by M. Clemmont-(iamment, the Kew. A. Klein, the Lier. James Niel, Mrs. Finn, Miss Liogers, and the ollecers of the Surver. These attempts have been nexearily incomplete, and hase dome little mare than indieate the extent and dopth of the treasumes which lie hidken among tho peasantry of these lands.

- Before a ferious attempt could he made t carry out this inquiry sucenofully. it was necessary first on fimd an organisel mobhinery of agents, who shoukd the directed by some competent persons in the conmery, miler the Commitee at home. If was mext mecesary that these agents shoubld speak the language of the natives prefectly, so as to note diflerences and peculiarities of itiom; that they should be able for command theif confidence, so then the women would consere with them and answew their que-tions ; and that they should be pertoms of traimed intelligence, who would know the questions that should be asked mal the reasons for asking them.
"This machiners, with a large lmdy of agents highly educated and intelligent. has now been placed at the disposition of the Committee.
"It momains, therfore, to draw up questions which thea agents will be invited to ask.
"If will the pussible to extend the inquiry aimultaneonsiy over the whole of the land covered by the Bible. That is to sny, we may carry on our inquiry at the same time orer Syria, Ekytt. Cypmus, A-ia Minor, the Hatuan, the Valle? of the Euphrates, and Armenia. It is, thereforo, desirable to draw up the questions with as much fulness and covering as wide an aren as possible.
"The subject divides itself into the following branches:-

1. Religion and Morals.
2. Land 'Ienure, the Village Commune, \&c.
3. Archnology.
4. Ethnology.

万. Health and Disease.
(i. Superstitions.
7. Legends and Traditions.
8. Latyinge.
9. Agriculture, including Botany, \&e.
10. The Daily Life.
11. Industries.
12. Arts and Architecture.
13. Amusements and Sports.
14. Birth and Marriage, Death and Burial Laws and Customs.
15. Usages still surviving, which illustrate the Bible.
16. Traces of the successive occupants of the Moly Land.
17. Modern and ancient Literature.
18. Proverbs.
19. Science.
20. Music.
21. Natural Histore.
22. Peculiar manners and customs not included under any of the above headings.
"The Committee, in the work of drawing up these questions, have resolved upon asking the assistance of tho following scholars and Societies :-

1. The Companies of Revision of the Old and New Testament.
2. The contributors to Smith's and Kitto's Bible Dictionaries.
3. The British and Noreign Bible Society.
4. The Scottish National Bible Society.
5. The American Bible Societ.y.
6. The Irinitarian Bible Society.
7. The Missionary Societies.
8. Zion College.
9. The Society of Biblical Archreology.
10. The Royal Geographical society:
11. The Society of Antiquaries.
12. The Archeological Institute and the Archeological Association.
13. The President of the late American Society for the Exploration of Palestine.
14. The Universities of Great Britain and Ireland and the Colonies.
15. The Heads of Departments in the British Muscum.
16. The Department of Science and Art, South Kensington.
17. The Royal Institute of Architects.
18. The Anthropological Institute.
19. The College of Physicims and the College of Surgeons.

2U. The Folk Lore Society.
21. The Crumbridge Plilological Society.
22. The Royal Agricultural Society.

2:3. The Royal Horticultural Society.
"To these will be added the Archbishops and Bishops of the Chureh of
 and the United States, the l'residents of the Established Chureh of Scotland the Free Clumeh, amd the United Ireslyterians, the Presidents of the Westeyan, Comereational, laplist, and ofher Voneonformist herlies in (ireat Britan, Iraland, the Colonies, and the Cnited States, and the Chief Rabli of Cireat

Britain, and, lastly, all sholors, areheologists, and Tiblieal students who may be willing and able to pender asoistance and alsiae, with other socicties, collowe. and institutions mot inclucled in the ahoue which may also be usefully approachent.
"We have, therefore, in communicating to you this peliminary annountement. (1) ask for your assi-t mate and co-opemation. We have also to call pour aftention to the masnitule of the enterprise, and to its great importance, whether considered from a Biblical or from any other point of view.
"We enclose a specimen page of questions. A form will be immediately prepared, and will be forwarded to you on applimation, and a sub-committee will be appointed for receiving, arranging, and tinally prepring the quest ions.
W. Enor, President.

James Glaismer, F.R.S., Chairman of the Executive Commillec. Walter Mormison, T'reasurer.
Walter Besant, Secretary."

Dr. Selah Merrill writes, on September 2nd :-

- The open space in front of the Meditemaman Iotel and the Barmacks, on Castle, has heen dug wer during the past summer for the purpose of reparing the stred, and some very intersting remains have been brought to light. The most intoroting of all, however, is what I consider to be the actual remains of the seeotul wall found between Huisburg's Store (formerly Spittler's) and the Jafta (iate, at a depth of 15 feet helow the surtace of the ground; the stones are similar to the large herelle stomes in the ('a-the opposite. I will send you a plan of these ruins in a fow days, perhaps by the next mail."

New elitions of "Tent work in Palustine" ant "Heth mad Moab," Captain Comber's popular womk, have been istued at iss. each. Professor Hull's " Mome Scir'" is also now ready at the same price.

Profenor Ilull's scientifie Memoir on the Ceology of Palestine is now in the press, and will bo shortly issucd. It will be uniform with the "Survey of Western Palestine."

Mr. II. Chiehester Mart's Memoir on the Flom and Fauna of the Wals Ambah will also bo issued as soon as possible in the same form and size.

A paper ly the Rev. W. F. Bish on Acra has heen unavoidably hept baw until January.

As resaris the eopies which ramain of the . 'survey of Wostern latestine." the frimels of the Socied $y$ bere urged to ged them plamed in publie lihmaries. The work will not be reprinted, and will nerer be sold by the Committee at a lower price; and as it becomes known, for the only scientific account of Western Pahatime, it will comainly acquire a searly inerewang rahes. Five hundred mow printed, and the type is now distributed.

The Paleatine Tilgrime Teat foncicty has now in hand-(1) A fanslatime of Procopius, that is to say, such parts as concern the buildings of Justinian. This has been annotated by Professor Hayter Lewis. It will also be illustrated hy numerous drawings. (2) The Bondeaus Pilgrim, which is peceiving motes from sir Chanles Wilom. (:3) The I'ilgrimage of the Ahbot Danied, which is tramslated and ready for the press. (t) The Travels of an ean! l'ersian Pilgrim, translated by Mr. Guy Le Strange.

The income of the Society, from Jume 17th to September alkt imelusive, was
 The expenditure during the same periond wats Elas 12s. 10d. On Oetober lst the balance in the Banks was $£ 167$ 16s. $7 d$.

It is suggested to subscribers that the safest and most convenient manner of paying subsoriptions is thruugh a Bank. Many fulseribers have adtepted this method, which vemoves the datger of lows on mivariage, and rembers ummene sary the acknowledgment by oflicial receipt and lettor.

Subseribers who do not recoise the ?uartorly stutment recularly, are arked to send a note to the Secretary. Great care is taken to forward ench number 10 all who are entitled to receive it, but changes of address and other causes give rise occasionally to omissions.

While desiring to give every publicity to propmeed iblentifications and uthop therovic- adranced hy oflicess of the Fund and contrilutors to the pages of the Quarterly Statement, the Committee wish it to be distinetly understood that. hy prublishing them in the Quarterly Shatement thes neither sanctivn mor atont them.

The only nuthorised lecturers for the Society are-
(1) The Rer. Menry Geary, Vicar of St. 'Thomas's, Portman Square. Mis lectures are on the following subjects:-
The Sursey of Western Palestine, as illustrating Bible History. P'alestine Liast of the Jordan.
The Jerusalem Excavations.
A Restoration of Anciont Jerusalem. Illustrated by original photographs shown as " dissolving views."
(2) The Rev. James King, Vicar of St. Dury's, Berwick. Wis subjects are as fullows:-
The Survey of Western Palestine.
Jerusalem.
The Mittites.
The Moabite Stone and other monuments.
(3) The Rev. James Neil, formerly Incumbent of Christ Church, Jerusalem.
(4) The Rev. George St. Clair, formerly Lecturer to the Society, is about to organise, by arrangement with the Committee, a course of lectures this winter on the work of the Society.

## PROFESSOR SOCIN ON THE SURVEY OF WESTERN PALESTINE.

Is the (Ootober number of the E:rpositor, Professer Socin, of Tiilingen, contributes a paper called a "(ritical Estimate of the Work of the Palestine Eisploration Fund." It is mot customary with nes to reply to eriticisms on our work, and in this case we should hase reftained from comment on Profussor Socin's remarks, except for the fact that certain ohservations of his, made in the most excellent spirit and with the hest intentions, will, if mot moted and answered, mislead his readers and our supporters. Professor Sociu hogins and ends his paper with a most emurteons and friendly acknowlealgment of the importance of the Siccietys work. "The Memons," he ssys, "hy reason of the new material which they afford, will comtinue for decades to be the standard work frous which Palestine research must set out."

Professor Socin's remarks deal first with the accuracy of the map; next with the Name Lists; thindly, with Chnon Tristram ; fourthly, with Captain Comer ; and lastly, with what he calls the Results of the Survey. $1!\mathrm{e}$ also tom ches on the disconssions carried on in the gumedy sutement.
(1.) As regands the accuracy of the map. It does not appear, when Professor socin compares our map with that of M. Guerin, as if he exactly understands the main lifference lotween our map and all other maps of Palestine. Ours is surveged by triagglation; all others are constructed by some system of "dead reckoning." Now a triangulation is sulijeet to an almost infalible test of accuracy. It is this. At the outset a base line is measured; at any part of the triangulation it is possible to measure by chain any of the lines the lengths of which have been oltained by calculation. The actual measured length showht comerpomed with the calculated length. This has been dome ly our survegons, and with mest satisfantory results. As a mater of faet M. Cuérin's lomk, which romtains a few details not noted hey our officers, hoes mot contain one-half Uhe number of names and places; white his map camot pretemt to smientific acouracy as to pmaition, and as to waterchuses, hills, and streams it is, and must be, practically useless. It is, in fact, imponsesible that one man working alone, and without scientifie methoul, shond produce a map in any way comparable to that surweyed hy Royal lingineers.
(2.) Next as to the Name Lists. Professor Socin states that the "members of the Surver, whe manifestly wore not Arahio sar halars, repeated the names which they had gathered to the seribe Kissatly, instead of his collecting them from the lips of the gnides and natives." This is not by miy means a cortuct way of describing the methoul followed, which was as follows:-The survegors, in the conrse of their day's work, collected and wrote down in their own way the gnide leming present-the names which they got from the natives. In the evening, on their return, each of them handed in to Captain Comder the day's list, which was gone through hy Knasatly, with the native guite, and written down by him, or by Captain Conder at his dictation. The surveyors, therefore, hat mothing to dos
with the spelling of the names, for which Kassatly and the guides are responsible.

Nest, as regarls the list of the common place appellatives, which. according to Professon Socin, "must have heen drawn up hy one who had no knowledge of A ralice grammar:" It was diden vp by I'rofissor I'elmer limself. It must, however, be understood that he set duwn, as was done in the map, not the literary Arahic at all, which was not wanted, hot the fellahin Arabic. Thus, to take in order each one of the cases mentioned by Professor Socin. It is true that the plural of "Bâb" is not "buwâb;" it is "- bawwab." But the natives of Paleatine, like the Einglish, are not gond at
 of the plumal of liritel: they do mot say berow, hut hevik, and the pmpular phural of tell is as stated in the liot, twlial. The ending oh is alson given on the map as it was pronounced, which accounts for an oceasional variation. And as regards the word shach, it is written, as nearly as pmasible. as pronounced. The literary way would have been to write it Shưaib, but in common speed the vowels at the begiming of a word are generalls slurred over. The surveyors, in fact, set down the names as the people pronounce them. Thus, to take the last of Professor Socin's instances,
 which in the rulgar speech hecomes Khurthet Ainat, amd when the word is usod by itself simply theorteh, and as a rough rule for travellers who are not Arahice scholars it is quite conrect to say that likewrla in Palestine becomes h"hurbet before a vowel.

A comreponding example has been sumeested to me. On the tratnance Survey of Osfordshire will be found a place called shmemer: It is so set down hecause the perphe call it shatome. Its original natme is supposed to have been Chateau vert. Yet surely the surveyors were right in setting down the poppular name. Again, on Dartmoor is a mombtain called on the Survey maps Ilrmitton Dmom. The prople call it Hamildom, or Hamiltom, and so misled the surveyors, because its real name is Hamil dun, i.c., I believe, the Black Down.

As regarls Profoson Socin's strictures on the etymulugies propmand by Profomor Palmer, the identifications propneed by Captain Comler on M. Ganneau, the Hebrew and Arabic of Canon Tristram, or the Tribe boundaries laid down by Mr. Trelawney Saunders, we have nothing at all to say. These gentlemen are, with one exception, quite able to defond themselves against any attacks which may be made on them. As regards that one esofption, Piofemor Palmer's dymolngies are on recom. as his opinion, and will stand or fall as they are right or wronge and as the common squech of the syrian natives heemoes hetter knowin. In his lifitime there was no better anthority on the modern Syrian dialeots. Profean Sucin, however, raises one other point which commands atemtion from us. It has been the custom of the Committee to open the pages of its Journal to the free discussion of all points connected with the topmgrayisy of the Boly Land, routes, itineraries, \&e, commeted with is history. The Journal has become the recugnisel-ahmost the only-argan
for the disenssion of these points. It themefore haprens that a sreat many praces may be desoted to the site, say, of Emmans. This pratice, P'mfesen Socin prints ont, may lead to the genemal artoption of a wrong theory, on at all events of sites and rontes which do not commend themselves to manys scholars aul students. This may possibly happen. But the liwat way to prevent it from happening is for every opinion to be repreanted. The gnurterty Stutoment is read by Palestine stulents over the whole world. If this is borne in mind by Profesom socin, he may himself perhaps be minded to prevent the spread of what he considers error.

The worle of the society, properly so-callen-all that the Gimmattee the alleal mon to defend - is the mass of ferts which it has been able to amass and is still amassing. A practically impregnable map, for instance ; an immense Name List, which may be adhed to and even revised: great disenveris in Jerusalem and elsewhere : a Ceological sumvey, hot yet pul)Lished: thonsands of ruins sketobed and survered, this comstitutes the work that has heem done. But theorics, efymulogics, illustrations, tribe bommaries, and spealation gernerally do not constitute the work of the Society, and must not be criticised under that name.
W. B.

## NEW DISCOVERIES IN JERUSALEM.

By Selait Merrill, D.D., LL.D.

Dering the past two or three momths some very intoresting tombls have been discovered in the western slope of the hill above deremiah's Cirutu. As these appear on have dieed eommection with the chureh in that vicinty
 mont for April, 1882, P1, 116-120, and further described by myself in the
 these tworticles for the previons history of excavations in this ghater:

On page 241 (as abrve) I stated that the ruins appeated to extemi moder Fround to the sonth-east and cast of the print where the Mosate flome (ove pace 23:3) was found, and spuke of the desimblenuss of the work of exeavation being extended in those directions. During the past year (18.84) this work has heendone to a certain degree, and my sulpmation has been confirmed by the new facts disclosed.

There was foumd a short. distance somth-cast of the Mosate thon, the therebold of a doore. This was si feet long and 4 feet ahme the level of the Mosaic flowe, and may have belonged to a later st meture, muleas it was a wiblow in the ulder sitruture, which does mot, seem prosible. Its size and the work upon it give the impnession that it formed an impentant part of some large building.

The wateroutse described on page 2:3!) was fouml to estemi much farther to the east, and in fact it dimpprears again in the mass of rubh,ish beyom the limit of the excavations in that direction. Before it distppears it tums ly nearly a right angle to the sonth, and at the angle there is a large hasin, or rather a small reservoir, still quite perfect.
sume 30 feet east of the Mossic floor, and heyond a thick wall which belonged to the later structure, the base of a column, in position, was foumd, and this, I should judge, evidently formed a part of the older of the t wo churches which $I$ have described.

Just honth of the point where this hase of a column was foumed, the large yoof of a later structure has fallen in, and above the centre of its arch, which in the collapse of the buidding was inverted, the deloris is fully 10 feet deep. This ruined louiding, whateser it was, now forms part of the mound which has yet to a large extent to be excavated.

Twenty feet sonth-east of this base of a column a deep dhannel or passage was found to have been cut in the solid rock, apparently coming from the nonth, and turning a right angle towards the east, in looth of which direetions it is covered hy the great momed of dethris just mentimed. This passage has been followed down 10 or more feet. The rock walls are rertical, and the passage, which is uniform in widh, is 2 feet wite. The rubhish or momil above the surface of the rock is 10 to 15 feet in depth. It will he very interesting to learn the ohject of this deep channel, and where it leads to. It will he molestond that as the bom thm of the channel hats not set heen reached, I report only the depth to which the clearing has ahready extended. Peahafos 1 ought thesy that excavations in this particular part of the ruin were suspended nearly a year ago.

Among wher things bronght to light is a section of a column 15 feet long, 33 inches in dianeter, and of the same character as those described on page 241.

The distance from the Musaic flom to the place where the newly discovered tumbs are fonm is about to yards in a som heeas direction. They were really diseovered loy accilent. To enchse this large phat of grommi, and thus separate it from the romil leading up the Jeremiah-Cirotto Hill, a high wall was built, and in digging for a foundation for this the wonkmen dug into the tombs in question. In fact, where the wall passes orer them they are very near the surface of the gromul, althomgh the detris on their west side was 10 feet deep.

The five accompanying plans will give a pretty correct idea of the character of these tombs.

Figure No. 1 is a ground plan of the tombs, of which there are two stomers. The lower storey was corered partly by a roof and partly lig the side tombs being cut under the overlying rock.

Figure No. 2 is a ground plan of the lower storey of tombs.
Figure No. 3 shows the rertical wall at the weat end of the lowe stomey of tombs, and how the roof was fitted into the rock.

Figure Ni. 4 slows the form of the sepmate roomk, a side, the tin), and the front of one of the rooms being removed for that purpose.

Figure No. 5 shows a curious device found in one or more of the tombs (lmit hot in all, namely, a kind of wreath in relief where the head wroid nat urally he phated. Singularly chunch, in tomb, No. ithey are fromet hoth at the head ame the foot. The tomhs heing of such unusual size it is pumbille that two bodies were laid on one side, or bench.


Forom No. 1, Fir. T, seems to have heen a large hall of chajul from which
 from 1 to 9, l"ig. I. Combernath these, of purtions of them, are other roums, represinfed hy dofted lines, which are mot mumbered. The floms of the different rooms are all on a level with the floor of the chapel, with the exception of 2, which is not certain, and No. 8. A person would leave room No. 1, enter the door of room No. 7, and after a few feet ascend four steps and enter room No. 8, which is on a higher level than the others. Room No. \& is the liturest of all the romes smmomblige No. I, or the chaprel.

Between rooms No. 3 and 4 there was a hole or passage, but it seems to have heen cansed hy a sulsequent breaking away of the rock rather than to have been a doorway in the original structure.

Underneath a portion of the structure there was a vault for thirteen bodies of sareonlagi, reprosented in F゙is. 1, partly hy salid and parly by dotted lines, and marked by the letters $A, B, C, D, E, H^{\prime}, G, I I, I, \dot{J}, \dot{K}$. This rault was an comstrumet that the portion li, $C, \%$, $l$, was towfol over ( $M M$, Fig. 3), while the parts $A, B, I, \mathcal{A}$, and $C, D, G, H$, were cut under the rock as seen on the right amd left in Fig. 3. These thirtuen graves were arranged in three rows, tive in the westom row and fond in each of the 4 wo othoms. On the right hand sile (siee Fig. II and Fig. 3), omly one tomb, $C, D, G, I I$, was cut under the rock. The reason doubtless was that the designers did mot wish to weaken the walls amil flom of rom No. 1, Fig. 1. The ronf stmes over $B, C, J, l i(F i g . i)$, were nicely tited into the mok as seen in Fig. 3.

At $L$ there was a large door, 3 feet wide and 6 feet high, with steps leading from the outside down upon the row ( $\mathrm{M} / \mathrm{M}$, Fig. 3) orer the vanlt $B, C, J, K$, Fig. I. This roof was on a level with the floor of room No. 1, Fig. 1. The dior at La and that of rom No. 1, were nealy opposite to each other: The row ower the vant heing now brohen in, we cannot say how one descended to it. This rouf was 6 feat on $6 \frac{1}{2}$ feet abowe the flow of the samlt.

In the vertical wall of the westerm end of the vault (Fig. 3), over the midale place of recplacle, there is a niche, amb a comerapmong miche in
 there being only four receptacles in the eastern row, the niche in the eastern wall must of comre hare one receptable on whe side of it and two receptacles on the other side.

The smuth wall of rom No. 2 has heen broken away, but bring somuth abere the level of the vanti, neither the rome of that mon ans protion of $C, D, G, I I$ were in any manner affected by it.

The large space on the west, $N, N, N, N$, appears like the bed of a quary, the gememal level of which being the same as that of the rowi over the vanlt. This heel slepres consiblerahly, howerer, towaris the sumb-west. The dihris over this pertion was 10 feet deep, and sloped upwards tuwarits the hill above Jeremiah's Grotto. These tombs were excavated in the western or nomb-western slope of the Jemembla-Grotth Hill, and the road liy whith one ordinarily asomels this hill pasaes orer tomens No. fi, T, and 8, Fig.I.

Thlerneath ronns No. 4, 5, fi, 7, and !, Eig. I, smaller roms are slown by doted lines. That under mom No. 9 is different in shape from the rest, and mot quite perfect. With this exception these rooms are 4 feet wile, 3 feet high, and of the same length as the rooms above them. They are in each case on the right hami of the persom entering the romems. They were enterol by doors $2 \frac{1}{2}$ fect high, and of nearly the same width, cut in the rertionl walls of the benches above them (Fig. 4). In the benches atove the shall rooms there was in cach case a large lowle marked by a circle in ronms Nos. 4, 5 , if, and 7 , Fig. I. The actual arrangement is hest seen in Fig. 4, which shows the interion of one of these rooms, the top, one sile, and the fromt being removed so that the three benches for houlies or saresophagi can be seen, also the passage into the romm, the dore in the vertical wall of the bench at the right hand leading to the small room and the hole in the hench alove the small rown. Rown No. 7 has two such holes. (Fow what were these holes designed! for ventilation? The Atahs say that they were made so that the dead could speak to each other.)

The walls in all the roms are vertical, and the ceilings honizontal. This remank is intended to imply that there are no arches lengthways of the roons, as are frount in some tombs, over the benches where the bodies on sarcophagi were placed.

Romn Xe. \& Fig. I, is noticeable ly its size, leing larger than any of the whers survomding the chapel. I have explained atove that it is on a higher level than the others. Moreover, the places for bodies in front amb (in) the right and left hand were not henches as in the case of the oflhe. vomus (see Fig. 4), hut open boxes like very large sareophagi. The lids had been removel, whether by the present workmen or in former times I cannot say. Shreophagi with their own proper lids may have been placed in these stone boxes.

It is reproted that crosses have heen found, lint I saw nome, and none were pointed omt to me. Likewise, that inseriptions were fombl in connection with the howken sareophagi. These had been removed and taken ont. of the combtry (so I was tolld). It may be, howeved, that, if they really existel, they were simply conceatel in Jerusalem, and jealously guardel by the latins to whom the place now belongs. I may say in presing that min visits, I felt, were looked unme with suapicion, hence I made my olseervations as quickly as possible and withdrew so as to avold giving offence.

Gireat quantities of bones were fond and carefilly preserved in boses, They may hereafter serve some priestly or churchly purpose when the place and time have been prepared for their use.

In the midale receptacle of the western row of graves, over which 1 have said that there existed a niche, there is a part, perhaps one-half, of a sareophagns still renaining, and it may be that sareophagi were phaced in all thee thirteen reeptactes. Periaps it will be understood without my saying it that what I have called receptacles are sumk in the solid mock.

Owing to a fact which 1 have alloded to above my measurements were not minuty y exant, but sufficiently so, I trnst, for all practical purposes, and I will give smme of them in detail. Room No. 1, which 1 have called a chapel,
is 14 fert hy 17 feet 6 inches, and 11 feet high. Room No. 2 is hroken, and the same is trute of rowm No. 3 , but the latler was 7 fuet finches be 8 feet. There was here also, as in some of the wher rooms, the small romm umter the right hand bench. This I have indicated by dotied lines beqanse the room was not ahsulutely perfect. Its eonstrution, howeror, was like the others. Rooms No. 4 and 5 were eacli 7 feet (i inclues by 8 feet, and if feet high. Liroms No. 6 and 7 were a little larger, heing 8 feet hy 8 foet (; inches, athl 8 feet high. Rexm No. 8 was 8 feet by 10 feet, and 9 feat high, being, as I have said, the most spacions of all those summumbing the chapel. The doors of these difierent remms were 6 feet high and about 3 feet wide. The width from wall to wall across the western row of receptacles (see Fig. 3) was it feet 6 inches. The entire lemgth of the three rows of regphacles I did mot get. The distance from the lowken western wall of room No. 3 to the westerth side of the space matked $N, V, N, N$, is 24 fect, and that from the month to the south side of the same space is 48 feet.

Since the Ist of July of the present rear the work of clearing away the rubbish has ceased, and forty or fifty workmen have hewn busily emphoyed in erecting sonue sont of a chapel or churehover the entire space marked in the plan. My plan, howerer, is of the ruin as I saw it hefore the buiddine was commened. Sonme parts will mecessaty be walled in, but doubthess the idea is to preserve the tombs intact as far as possible.

It may be that some of those who read this article will have seen the model of the Cinlgotha Hill prepmed by Gemeal Gombon, amt if so they will be interested to know that the tomb repmesented on the sine of that moulel is only ten yards distant from room No. s in my plan. Otherwise the tombs have no apparent connection.

These newly discovered tomls appear to be Christian and not Jewish. It is well known that after the reputed discovery of the bedy of St. Stephen a magnificent chmel was erected to his memory Ly the Emprese Eudneia, the wife of Theodesius the younger. The dhureh was dealicated in A.I. A(i), and the Empress herself was buried in it. This church was on the north of the city mot far from the present Damascus Gate, which for ten centuries suhserutent to this erent bore the name of Nt. Peter's Gate. The charch Wats huitt on the suppused plate of the manymom of stit. Stephen.

Jerusalem, August 18th, 1885.

## Postscript

Since exarations in this farticular quarter are assuming, as will he seen hy the foregoing artiele, preatial importance, I would like to add at note to my dearipition of the two churches which appeated in the genverty Shetiment for Oetwher, 1843: for the reason that on page 2to a singular mistake has somehow leen made. It is in commertion with the inseription Which 1 found in the tomb ne:ar the Monat flome. As printed, iwn herizontal hars apmear hefore, that is, on the loft hame of the inseription, which I errtainly did met place there. 'Two limes below the inseription I wrote: "extemis from the 'I' to the small chanater at the end;" and instend
of inserting the letter of chameter "S", the printer has sulatituted the Whal "cross," which makes a had mess with the sense I intembled to comver. Touset mattors right it will be necemary on reproduce the insemption and the left hamd bat of the cross as follows. It will be untherstome that the latge eross was on the right hand of the inscription to one ferving it.


## NOTES BY CAPTAIN CONDER.

I mare just get the Gumtedy stutment for July, and though very luse with boumlary and lame questions here, I should like tosemd you a note in two. It is a valuable mumber, and I am only sonry not to have seen the two preceding.

Gn page isa 7 should like to say that thought the propesed sites firm Gelan and Alema are promille, the snggestion of 'Arkitis or liculemale for Argob is inadmissible. It has only the $\mathcal{D}$, and the R in common, and 'Arkub is the
 Rujih, and such phates as Kicfr-Arjih, and the mothern Rujib are momsuitable. Argob was, however, cast of Giolan to the liest of my remembrance.

On pace 159, I think the hat springs near Pella were pmotatly some if thee further morth at Gadara. The whote of the paper hy Mr. Guy le suange is mot interesting. Pechapis he may have moticel whether there are any masont marhs on the masumry at Katat er Rubud, which wonlat soltle the Crmsading enfigin which I always attilhuted th this castle, which 1 have ouly seen in the distance, Lut which Aht. Tyrwhitu Drake visiteal and considered Crusading.

Tage 143. The sto-alled altar at \%orah termbles many rook contings familiar to explurers in Patestine, which result from the guary ing of stome. Manoah would hardly have used an altar of cut stone.

Page 1s 1 . - The ohijection as to En Rumed raias the question of the dates and amborship of ohd Testancont lmoks, which is evidently mitone to be discussed in the Quarterly Statement.

Page 181.-Mr. Drake and I, in 1873, found what we took to be an overturned Dohmen in Juden, near the village of Jolja (Gilseah of

Benjamin), and 1 have notieed prossible traces of others in " Heth and Moab."

I find some difficulty in lnidging the gap, which seems to me to oremr so often in Mr. Birch's arguments between the proposition and the "therefore." He says 1 ann wrong in saying that latep kines built a wall round Ophel, hut I think the Bible mentions these kines lyy name. He says he has pmoed Hinnom to the the Kemtrom, lut if he has chome so to his own satisfaction, he has not convinced other writers. Mr. Birch seems :o me to furget. how uften he has changed his own views when he is severe on orthers for inconsistency. He might, perhaps, mot think it worth while to read what I have recently said on the controversies, in the dernsalem volume, and in my Primer of Bille Congraphy. At any rate, Mr. Bian admits the impossibility of confining ancient Jerusalen to the shath area on Ophel, and if he agrees that David amd sulomm walled in the Uprow City, his views as to the limitation of the words Zion and City of David are of secombary importance. I hold Zion to be the pretiend name of Jerusalem, and the City of David to be the Jerusalem of David's time. All I am really interested in is the defeat of a new heresy which seems to me mischicrous and ahsurd, namely, that the Jemsalem of David and Eza was contined to the narrow ridge som th of the Temple sinch an idea camnot he reconciled with the Beok of Fira, of with earliee hiblical hooks. and represents the reductio ad absurdam of Jerusalem controversy.
C. R. Conder, Captain R.E.

> T'aunys, Bechuanaland, August 18th, 1885.

## NOTES.

1. Trincour the Lindues. of Profnsar Maspero I am athle to comper one
 of the important proint Eerothah or Berothai, on the monthem frontier of David's kingdom.

The name of the place No. 141 in the Karnak List, as given by M.
 phate) is imperfect in its lisst hieroglyphie sign, which aypmented to the to he $\int=h$. But M. Maspere has since read it on the IM lon at Kamak as $\rfloor$, ie., $f$, so that the name is not Buresu, hot Zuresu. This, however, does not affect m! propmeal to intentify Berothath with Brisa in the wally where M. Pognon found the rock-inscriptions of Nebuchadrezzar.
11. In my short anticle in the April Quarrarly on Explonation in the Nile Delta there are a few insignificant misprints which every reader will morrect for himasif: lmit one meals explivit notice. On page 115, for
 Henry George Tomiins.

I rasp week forwarded you tracings of plan of the recently disenverel Zomah altar．That it is＂strongly sugurestive＂of the passage Judges xiii， 19,20 ，is undeniable．

I wonld now merely call athention to the fact，that＂the great stome of Alel，＂which appears to have marked the limit of homdary bitween the Beth shemesh lands and the Philistine tertitory（ 1 Sam．vi，12－19）conld not have been far distant．The shrine of Aht Misar at Ain Shems （Beth Shemesh）is boldly visible from the altar，and alom thee－quarters of an hour＇s walk distant（at the furthest）in a somth－west direetion．

Standing on the hill－sides close to Zorah，with the altar and Ain Shems in full view，the two old narratives seem to assume new and living proportions，and lwend and dovetail wonderfully at the spot where stands the lately found sacrificial monument．

In cenclusion，I would mention that the German Explomation Serciety have excavated the altar，the total height of which is 2 metres．I believe that exeavations are still being carried on at Artouf for the same Society．

J．E．Hanauer．

A rew weeks ago I had to survey a part of the interior of Tiberias，and found by chanee a small column of white marble 1 foot 5 inches tong and ！inches in diameter，which was just dug ont in the gavden of the fireck convent in the extreme south of the town，and which hears the following Hebrew inscription：－

## ロกーコ N ィココロภNए  กロアกயงリภกリ

I ann now a Helowew schular，lout I was told that it bears the date 41 ．45． and was a gravestone．

I have also tooked with interest inte the large cireular vaults which horder Tiherias from the sea side，and are built close to the city wall of the east and smith．They are not huilt very carefully，lut are strong and very spacions．Their building area must he that of this last city wall and fontress．The city wall on the sea sife is generally to feet 2 inches thich．
 cormer，and the partly smak romed corner fowe there will he pestome

ILaifu，July 31st， 1885.
G．Schumacher．

## A NATURALIST'S JOURNEY TO STNAI, PETRA, AND SOUTH PALESTINE.

By H. Chichester Hart.

## CHAPTER I.

Introdectury.

 him as a volantem on a zenlogioal and surweyiner expedition to Rinai and the Dead Sea, of which he was about to take the leadership under the auspices of the Palestine Exploration Society.

With the main object of stulying the botany of this recimo. and as far as possible also other branches of its natural history, I accepted this
 from Profesen Oliver, of Kew, that, whatever our Cintincontal imediren maty have acomuplishen, few leritish botanists had as yet turnel their
 in the determination of my specimens upon my return-a promise since
 wrleone consideration which helpal to delermine me was that of a grant of money from the Scientific liund of the Royal Irish Academy.

I feel bound to take this earliest opportunity of expressing my grateful sense of the courtesy of the Rev. Canon Tristram, the well-
 with his advice before starting, and his scientific assistance since my return. 'Io him the determination of my species of birds, as well as of land and forshwatom mollusers, is ahmes emtim! due, and his sement work ren the "Fama ant Flora of Wistem I'aleatine " hats Leea combinually consulted in preparing the present accomnt.

To Dr. Gunther, F.R.S., and to Messrs. Waterhouse and Thomas, of the Dintiah Musemm, my thanks are due fin the naming of wher sumbleo cobllowthms of mammals, rephiles aml leeetes. Mr. Eilyar simith, of the Conchological Department, has also been grod enough to render me as muth amsistance as his duties womlel permit in searching for information on the Mollusc-fauna of the Red Sea.

 ledgments. He has very kindly determined for me some of the more
 herbarium enable him to deal with satisfactorily. Of Mons. Boissier's *Floma urientalis" I have comstantly availed myself in dealing with the flora of Sinai. Botanists whose inclinations turn, as mine do, to the geo-
 a perfect storehouse of information.

Reference must here be made to the Ordnance Survey of Sinai, pullished in 1809, where much valuahle information on the physival features and natural history of the Peninsula will be found, especially in the appeadices by Mr. Wyatt. An interesting paper by Mr. Lowne, on the Floma of Sinai, in the Journal of the Limnean Society for 1865, mas also be referred to ; his nomenclature, however, differs widely from that at present adopted. There is little other botanical literature availahle; Decaisne's Flomula, Sincrion, published in the "Anmales des Stimences Naturelles" in 1836, in which many new species are described, is difficult to obtain separately; it is, howeser, very valuable, lut the collections of Schimper and others, distributed throughont the herharia of Europe, and daly recurded in Boissier's "Flora Orientalis," have nearly doubled Decaisue's original total.

I dusire also to express my gratitude to Mr. A. G. More, the wellknown naturalist in charge of the Natmal History Department of the Muscum of science and Art in Dublin, who has heen always most goodnatured in rendering me adrice and assistance as far as lay in his power.

I must not unit to acknowledge the judicious and kindly gnidance by which (with the assistance of our most efficient interpreter and conductor, Bernard Heilpern) Professin Hull hrought our travels to a safe conclusion. In a whume recently publisheal by the Rociety, Professor Full has given the public: an areome of our experiences, and to it, and its Appendix hy Major Kituhenor, the realer may turn for fuller geolugical, gengraphical, and other information relative to our explorations. To the other members of our party, for their contimual kindness in obtaining specimens for one, I shall feel for ever grateful.

In these pares, which owe their appearance to the likerality of the same Society, I propose in the first place to give a ruming accomnt of the collections made in the order in which they were gathered, with such extracts from my joumal as may serve to illustrate them. Afterwards I will entmerate in detail the various species which I have identified, aml conclude with an endeavour to give a full accomt and analysis of the Fluma of Sinai, of rather of the Sinaitic peninsula of Arahia Petraa.

For the systematic list of plants, with their localities, I refor my readers to the Transactions of the Royal Trish A cademy, where descriputions of the new species with figures will be found. The specimens themselves are in the Herbaria of Kew and the British Museum.

## CHAPTER II.

## Ain Musa to Wâdy Lebweif.

Harty left Suez on Saturday, Norember 10th, 1883, we took up our quarters till Momlay at Ain Muss, the usual starting place for Sinai. A description of the gardens here, with the introduced plants frond almut them, has heen given by Mons. Barbey, in his recent volume " Herlorisations an Levant," Who risited then at a more auspicions season. His four did not elsewhere cover the ground we visited till reaching Bir es Seha.

At Ain Musa my hopes fell to a low elb. With the exception of a (o)uple of showy flowering shouls (Lontena comera Linin, and Cussin himpselaris Linm.) in the gardens of date palm, bomated by prickly pear, there appeared to be hardly a restige of unwithered regetable life. Closep inspection, however, giolded dead flowers and ripe seed capsules of several species, all of which were carefully preserved for comparison with sul)seefuent gatherings. One species, Corutophyfllum demersum $L$., fomml drifting in the gulf, and probally derived from the canal, was mot me: with again. A prostrate prickly grass in the sandy stony flat betwern the wells ( A in Mosa) of Mones and the gulf has been nameel for me hy Mons. Boissier, Sporobolus spicatus Vahl.

In these enclusures, and aromm their edges, were bushes of tamarisks
 tridentutu lesf. The latter is a prickly, fleshy-leaved shroh, with small omance herries, greedily eaten by camels. It helongs to the "bean-caper" family (Zygophyllace:e), well represented in the desert.

From one of the wells numerous univalves, all of me species, Molonis tulberaluta Mall, were ohtained. The net produced nothing clse except the larve of a guat. A chamaleon (Chumaton culgoris Lime.) and a small very nimble brown lizard (Eromias gutholinenta) were captured cluse liy. The former was pointed out to we by a Bedonin on a stunted palu-tree, Clse I should assuredly have passed it by, so chosely did it resemble the branch along which it clung.

The chief attraction at this oasis was in the hirds, of which several speeties were oldained. Amongst these were the white waytail and the willow-wren (Mutacilla alha Limn, and Ploghluscop pes rof ins Bentis') A huffhateked heron, Ardoola russuly Hagl, was seen hut int shot: this is the hird which does duty for the "white ihis" amougst visiturs. A little corcktailed warbler with a song and halit of a wren, Drquoma impuita Rupp, as well as the hifue-throated robin, Cymmonla orratocalus I'all. (the one with the entire blue throat), was shot here.

Across the sand to the shores of the gulf many kinds of sea shell were scathered. A detailed account of these, as well as of those ohtained at Akaha, will he given later on. Few specimens worth preserving were met with, but they were for the menst part identitiable. At the water's edge a stork gave me a long shot, and several innlins were flying alout.

At evening the air was filled with the attractive notes of species of cicadla, and the 'guaint call of an owl (Athome merilionalis litson.), the "boomey" of the Arabs, was for the first time heard.

Insect life was almist suspermhed, Dont a few small heetles (Acmemin, Acis. auts (cimpmotuss), and a spider or two, ats well as a forpidel scorpion, were captured about here, and between this and Wâdy Nusb.

Excepting at wells, met with at rare intervals, life of all kinds was very scarce in this lower desert portion of Sinai. The appearance of a hird within a quarter of a mile in these wastes was a signal for a genemal call to arms amongst the gumers, and the gurgling sound of the Dedouin cuncl-driver summoned his olstinate leant to kineel and tet
his rider dismome and stalk a distant Rexplian vulture or a maven.
 were frequently in sight, but rarely in rauge.

After a day or two, when my Bedouin lad, Khalîl, had discovered which of ns (wo was master, 1 gemeatly travelled on fum, letting ons camel-driver keep me in view till wanted. For this interesting and faithiful son of the desert I eonecived a great liking. This feeling thwamls the Arahes is sery fremently indulged in by inesperienced tavelless in the Least.

As fast as 1 made gatheringe, I was ahle to deposit them on the back of my alminable brast of buthen. Fon this purpuse 1 hat two sets of camel loges and drying bearde, as well as multifarious swinging gear :
 insect box, et hoe genus omne.

The muntry traverad was of grasel amd sand, with ceeosional mutomps of limestone. This limetome samb is sometimes finely amb regulaty Granulatel, as near Wady Sudr, a comdition not mheored loy us in onlee farts of Sinai. The siew of the Jebel Rahah mommains acoms the Gulf of Suez was superb.

Our divertion lay nearly parallel to this urm of the Tied Sea, grathally widenine the distance letween us and the coast-lime. The shy was of a brilliant blue, and the temprature rarely loot enough to make watlong disagreables. The fullowing plants were obser ed in Wads Sinir:- Zillo

 vermiculuris Linn. (R. palestina Boiss.), Pragonia cretica Linn., var.

 fruticosus Pers., I'aronychia desertorum Boiss., AErua jaranicu Juss.,
 deant species of emminnal omertente in the lower pars of the peninsuli,
 Tuerr. and Anubusis setiferce Boq. were also obtained.

The Citrullus bore its ripe frait, mangedolouvd and almette size of a billiard ball, trailing on the gravel and sand in many places. ${ }^{1}$ The folled dirma wak laten with tamels of woul, the remains of its withered inflorescence ; the variety, with narrower leaves and more rigid habit,
${ }^{1}$ The Arabs use this species (the colocynth) as a purgative. A fruit is split into halves, the seeds scooped out, and the two cavities filled with milk; after allowing it to stand for mone time. the liguit, whinh has ahoorthed some of the active principlo of the plant, is drunk off. I refer my readers for further valuable information of this mature to an article in the British Medical Jorrenal of $A_{\text {pril }} 11,1895$, by my friend and companion, Dr. Gordon 1Lull. I trust he will forgine me for converting an ervor into which I unfornumaty leathim. The
 common and used for sore cyes is not Zygopingllum hint Anahuais (Salsoin) articulata.
occurred later on. Acacia Seyal was a revelation of spinonsness whose
 bush, often only 4 or 5 feet high, but with a trunk of considerahle thickness.
 leaved sticky Hyoscyamus, II. muticus Linn., with showy yellow and purple veined flowers, was pointed out to me as the "Sekkaran" which the Arabs are said to inhale in their narghilis as an intoxicant.

The petty litte womlly licammmia, whith its densely imbriated leares. was, after much searching, found in blow at last. A wiry, nearly leafless Doverra was in full flower and seed, with a strong lmi mot umpleasment smell of femmel.

The marled chamaderisties of these desent phats somb beome familiar, They have mavally a whitemed apmeammee, which was prohaps sommehat heightemed at the seasm of my visit. This is due to womllinese, we sealime. or sombe other colmuring integument. amd is frequently atompanien hy heavy
 hairs are also Tharateristie, and the whale phant is mot mfrequenty found to be steeped in a strong viscid exudation. Noteworthy instances of the above peculiarities will be given farther on.

Of the Sinaitic mountains, no part was as yet visible; we were however gradually rising above sea-level, and with the cooler atmosphere there was a steady increase also in the quantity of vegetation. A very fragrant bushy Artemisia, A. sontolina Limn., had become frequent, and is subsequently one of the most characteristic plants of the flat witlies.

In Wâdy Sudr Cleome arabicu Linn., P'ennisetrum dichotomuen Del., and Elionums hirsutus Vahl. were secured in good condition, except the latter grass, which is so elosely eaten by camels that it is hard to obtain good specimens.

Aurabasis articulata Forsk: is a prevalent low-sized species; its dried

 sometimes equalling that of red heather at a distance. It is perhaps the commonest species throughout Sinai; (iymmocarpum fruticosus Forsk., however, is nearly as abundant. The Anabasis, whose slenderer twigs are, I believe, all lost and withered at this season, accumulates round its roots
 lizards, and burrowing ground for ants and the smaller rodents. The Bedouins called this plant "Erimth."

The vedretation is seattered in tufts amongst the sand and gravel; except in the occasionally moistened wady beds these tufts are usually isolated and often far apart.

On the 13th, at about 350 feet above sea-level, we entered a bed of chalk intermixed with white marls strewed with chert, fossils, and selenite. We reached Ghurumdel by moonlight. Thmarisks and jalms (Tamurix nilotica Pall., Phenis cuctyliferce Linno) form here a pleasant grove ; Zilla, Nitraria, and most of the species above mentionel, are plentiful.

At Wialy (ihnrundel ("Elim") I ohtained some fresh spectes of hirks. of these Sicuricule ismberline liopp (Mrmetrie' Wheatear) was serceal times
 striolated bunting (Eimberisu strintutu licke.) were obltained, only single *pecimens being as yet seen and seconed of each. Ravens and willowwrens tenanted this wâdy.

The first large quadroperl's tracks were pointed ont by the Arals ; the? exclaimed "dhaba"-that is to say, "hyena."

A nother lizard, Agma rudmata Riim, and a skink, Sphompls cof instretps Hienl, were captured here. The latter I found on kicking to pieces an anthill, the home of a species of Campomotus, C. pulmestons. This lizard was afterwarls very common throughout Sinai to the Dead Sea. He was casy 1. catch, and his comica! habit of standing at bay with his tail cocked and his dispropentionately large jaws wide open was instructive; no donht it torrified troopso of smaller foes. Like most the natives of the desert he was sand-coloured, thongh the tail has some dull hlackish rings. Amother lizard, Eiremius guttent, was most difficult. to catch; by pelting him with hamulfuls of sand, which confuses and stops his movenchis for an instant, combined with a sudden rush, it may be done.

The rock here is a white cretaccons limestome. The bed of the wady is (ant deeply intu, marly deposits, leaving sheer mud-hanks sometimes s feet hich. The beel of this perimacestram was mow perfectly dry. From the - Pprearance of these dequesits, and those in other places, Professor Bull considered there was evidence of a much greater rainfall in recent times.

On the tamarisk hranches a curions huffeolomed chrysalis-like apmendige was frequently observel. It was alwomt the consistency of tomph paper half an inch long, but move hittle, and powed to he the cgeg ease of a -p pecties of Mantis. A large hlack beetle, Priomenthera coromata (llie, was the only large insect found in Wady Ghurundel.

Seceral plants were here first met with ; the most conspimons were a shrubly mignionette, Ochroblomes bucomus 1).l., thenceforward charace1 -ristie of the lower dusert wadies, and sometimes, where protected by acacia trees from camels, 6 or 8 feet high.

Here or neare to Waidy I' seit I moticel for the first time a second species of acacia, A. tortilis Hrayne, less spiny and usually larger and more moticht than A. Sigul L. 1 met only these two acacins in the peninsula, Imt I fomm a thind and much finer one (A. letan R. Dif.) at the south eme of the Dead Sea. A. nilotica Del. also occurs in Siuai. A. tortilis is commoner in the Arabah than elsewhere.


a Thi- waty muth not be confounded with others of the same name in Sinai and Eikm. I motable instance of emblumion oreurs in the ninth chapter of the English tramalation of Labombe's "A rabia Petram," 1.436, where the framatator funtes several pages of description of the present whily from lurehbardt, to illuatrate Laborde's short and correct meation of Wady churumblel near P'tra.

 C., Cynodon dactylon Pers., Phoagmites communis Limn., var. gigantea. This latter species, which rearhes a height of 10 or 12 feet with its erect plume of florescence, is a truly handsome grass. It appears to have frequently done duty for Arundo Donax $L$. in Sinai.

Many withered Chempols oceured here, the identitiable species being
 Abubusis selifara Mor., and A. (Ȟalselie) mrtimhten Forik. At Wady Ukeit oceured a little grove of date palms, some of them at least to feet high. There is only whe wher speries, the domm paln (H!/phane thebuica Del.), in Sinai. It occurs near Akaba and at Tor.

From about Wady saal small burrows, from the size of a small rabbitLoble to the little perforation of a species of ant, Compmotiss compressa fiab., become numerous. These belong chefly to species of Acomys, Cerbillus and I'sammomys, but it was some time before I succeeled in capturins any of these animals. Onseveral neceasions I saw individuals of the Gerlitle geonus of samd-rats. These animals usually burmwed in the samb-hills aconmulated about the stumps of anahasis and tamarisk; their ahmodance lere was as nothing compared with their numbers in the Wrinly Arabrah later on. - Terboas were not seen in Sinai.

At night in the dimer tent our lights msually athact a few moturnal insects, which I capture from time to time.

A homet, lespue orintalis Linn., is the only insect frequently to lee seen in the day-time. Nature rests herself in the desert almost as thomothly as in an Arctio winter; in the latter case she sleeps during an exmesive roble, in the fonmer she exhathsts hew strength during an extreme heat. Nevertheless many late flowering phants still oncesionally hold their pretals and it will not le many days ere we gather the first hathingers of spring Possibly these latter shombl be called hybernal. A few species, as chemes errebien Linn., are in their prime at present for examination, being in full flower and fruit. This Cleome is one of the most viscid plants met with, takins many woeks te dry, and never shaking off the adhering samb. It has small deep purple flowers and longish pods.

A Wlack snake, probahly Zommen atrorirens shome, var. combomorins, wats killed here, but I was informed it was last seen with the conk. Whether it sulsequently passed umber examination in the dimer tont I cannot say, but I never succeeded in identifying it.

Desert larks representing three genera have been obtained; one of these, Certhiliuda, has heen already mentioned. Other iwo, Imanomemes
 is one of the most frequently met with of the true inhalitants of the desert. The Persian lank (Certhilaula desertorem Ruph), a bird alout the size of our song-thrush, has a low sweetsong, uttered while on the grommb, and nut much stronger than or unlike our rolsin's winter warble. A latre and hamdome hack and white ehat (Surionle monothe Tomn.) was shot in Wady Humur. Tracks of gazelles were here first observed.
 which has teplated the white and black weathered limestone. The hande amd white chats are mome conspinous amomest thee renks; when at rest on a chalky suface dotmed with fraguments of dhert these himls are mot
 to the soil. The females of some chats (e.g., S. monacha) are more protectively coloured than the males.

The samestome which we are mow traressing is the regular inscription row of the hesat, om which the Bedomins of all agos have delightey to air their milligmphy, and not unfreprenty impoee tpon thavellops with their rude tribe-marks.
()ur direotion is mainly south-east, and steadily rising. At the heal of
 View of the sinatie monmtains. Jehel serbal stond out, orvend and mugeed. straight ahoaid of n-, lomking almat me-half of his real listance from us. .a excessively clear was the atmosphere.

 flower.

Haring left Whly Humm, and entand Sambe el Jemel at a height of

 the lareut expanse of sand in Simai, and covers about thiry spuare miles. some bery intereting species were gathemed here. The two fmedes uf Polycarpuea already mentioned, with the Cleome, abound.

 Aristiclu plumosa Limn., and A. obtusa Del. These were all obtained in hower, and the white and perfect Pancmatiom was at its heot. It is a lovely flower, and I scomed many bulls bereand decwheme. No heares were yot
 shoss inge that the leaves are cevtain! mot sy namthose, thomeh apparimes som
 the remarkable wisting doserilual as charederising their laves. On this Panemtinm, which was lint disenverel by riekemherger near Cairo, some intomating rennarks will be fonnd in Barbey's "Hembntisttims" already mentioned. ${ }^{1}$

The Aristhle, small glancons grasoes with ling fathery awns, are amongst the prettiest of desert forms.
 foll flosor: It is visital by a sumall coprew huttrily, the first of it fomily mot with, which is promy representen in this dry terion. Fomaindae and


In Whaly Viab several freah s!metes omurmed. Unrecmmishble frach ments awoke my regrets at the season selected from time to time.

1 "Herboriations an Levout," Par C. and W. Danthey (Lausanne, G. Eridel, 1882).

 lanatus Tahl.

These Astracals weme quite withered, aml simply well-peoted humbles of
 the spines heing the hateded womly mil-rib of the pimate leares. The mbly evidente of their past mondition lay in the slimh cicatrices in the ghines marking the prints of attachnent of the fallem laf pimme. Wi the convolvulus, a handsmme, ervot, shouhly, folted speries, with grand-sizal reddish-purple petals, I obtained a couple of flowers.

Desert partridges were first heand hete, but not yet oltainet. Chats and larks appeared to be pairing. A shrike, Lamius fallax Finsch., was

 valent hied of Ninai, was: also first met with amd , hltained here. The hats were Sinsionla lompryin Bielme, aml Menetries' wheatear alrady men-
 here forme ly He: Iull, who, as well as Mr: liegimald laturemer, lomytit me specimens from time to time.

In Wady Nusb there is a well, and quite a grodly show of acacias, whenly of the spectics A. turtios Hogom, "hich was in flower sometimus ant ustally in leaf. The laif scgments of this spemes are lation ame fowe in number than in A. Seyal $L_{\text {L., }}$, the pods are twisted, and the tree attains a greater size. When old it is less and less spiny, while the reverse seems to be the case in A. Scyal.

In this wâdy I gathered Malva rotundifotia Linn. and Amarantus







 Lint Mr. ()liver refers it to the same plant, new dombt slighty altated amd improved by a rough system of cultivation.

 (8.) there are more remains of last sumumer's veretation lator in floneming perhaps, and less scorched than the same species below.

Sumb after having Wialy Nusb wo entered on plumbie formations, a wel
 a hage extent of country. The increased quantity of acacias since we lut: the linnedone, and equerially on the manite, is notewombly. Tehape it fermorins spines require an admisture of silicon.

A homst and a erieket weme taken in semi-tomind comdition. Senpions similarly hamless, have been caught from time to time.

A lamger species of lizaral, with a hamlsome hloe thont and jectomal, was
 was me repmomh upon the perfeet assimilation of its uppre parts with the desert sumly hues. This lizard hid himself amongst stomes, and it was with diffirulty I dislorged him from a hole which he filled with his body and fortified with his distenderl and savage little jaws.

Having chossed a high ridge of granite, Ras Suwig, at about 2,4 410 feet above seatlevel, from whenee Jebel Serbal looked magnificent, we descembad intu a whly which yiehted several new plants. Puncotium Sirkemberveri 1. \& $\because$. was found in flower here also. A small bull, apparently aut Allium, was brought to me ly some Berlouins, perhaps I. simitionm Binss. It is growing now under Mr. Bublidgè care at the College Butanic Gardens, but has not yet flowered. These two bulles and a Cropetalum $L$. Whthontm Indu.) are, I ledieve, the only ones which support life in this desert. A few others oceur, hut at sufficient heights, usually very considerable, to bring them into a different zone of plant life.

At the height of 2,200 to 2,410 feet above seatevel the following speries
 fotid species, liute turnerulutu Forsti., was here first obtained with its yellow flowers.

Major Kitchener brought me branches here of the first Capparis 1 had seen, C. galeata Irvesen.

Tichens of two species at least ocourred, one on the hark of acacia, and the other on saudstone.

In Whaly Khamileh desert partridges, Ciwatis IVani Tomn., were frequent, anil sume were shot. Two desert plants ocanred in some quatuty, Lotononis Leobordea Linn., and Pulicaria undulata D.C

## CHAPTER III.

## Wady Lebwert to Mount Sinai.

Still ascending gradually, up Wady Lebweh, from 2,500 to 3,500 feet, many interesting Sinai plants were gathered. Most of these are trme desert species, which reach about thms far, hut they are mixed with others of an intermediate clevation about correspouding to the Meditemanean







 uspurat iffi, Aspombles Jistelusens Linn. and others, the specinnens too hat
to name. The lahiates in the ahove group are characteristic of the midale and upper zones of Sinai.

On the summit of Zibl) el Baheir, at 3, s.90 feet, a point which all travellers should climb for the salke of the really splendid siew, (ifflsorphel
 I. simmina St. (?), were gathered. A Psomalea occurs here also, not fombin a recognisable state. It may have been 1 . plicata Del.

Of the phants just enmmerated several are peculiar to Sinai. Others, believed endemic, I found later on Mount Hor in Edom.

In ablition to the alove it is to be remembered that the majority of the earlice species met with oceur throughout. The chicef failures are Come uratione Lion, aud Salsolacese (except Anatrasis), which are mostly confined to the lower plain. The variable lint always prety little Fagonia is continually arresting the attention by some new deviation. Sometimes it is glabrous, sometimes riscid, sometimes rery leafy, at others a hunch of twigs of thome, tmiling or sub-erect, while the fluwers rary much in size. In one form or another it is a very widespreal desert firm which hats received a number of segregational names. The almormal lieroulu prownlens, with its curious flat prickly-edged capsule nealy an inch in diameter, was in groed combition, but scarce. Gomph) haraty,us was in full flower and fruit; like Domia cordata, alrealy gatheren, and now common, it has a sticky, staining, milky juice, very poisonons aceording to the Bedonins. These two Aselepiais, and about five others mecturing in Sinai, pinint to the tropieal element in its flora. Artemisiec herturallur Asso., in several well-marked forms, is henceforth one of the mot almulant and highly aromatic plants.

From Zible el Baheir, which I ascented with Dr: Hull om Sumbay, the 16ith November, we had a grand siew of the whole mass of Jehel Musa (Mount Simai) and Jeleel Cathuriue on the south-east, and of Serbal nearer ns to the southwarl. Down Wady. Peraht the foregning laliates and composites were prevaleut in many places. A little further on is a comtinuous grove of retem loushes, the first hit of ahmest lusuriant thongh limited regetation I had seen except close to the wells. This wally, like must oithers, is flat, and alsout half a mile wide, with a slight chamel Wambering from side to sile, and marked ly a line of grey green growth, no doult fresh and delightful after the rain which is ahmost due.

Hares have been seen once on twice. I saw one here firs, a very longearoll and long-legred whitey-grey cuimal with a little huily (lopus simuritions Itomp, and Eler.). He was a perfect fiend to travel: mothing living except a hird ever got out of my sight son quichly. The linte smethern owl hoverel around our canp one of two erenings. A splemblid pair of griffon vultures afforded a neaver view here than elsewhere. The Egrptian species is more appronchahle. Orows and ravens (C. comas and ( $\because$ undrimus) are also tamer in this less frequently traversel rome. Imloed the large birds generally seem fully aware of the harmlosk nature of Cairo powder. The loak, Almata isatullion Pion., is the commentest of the shatler species. White wagtails, Motmille allon Limme, are abo rery
frequent, montinnally hopping about our tents amb camels quite fearlowe of man.

The iwo lizards of the Agoma genns already mentioned, esperially the smaller (A. ruleratu), are common. I kept some of these alive as far as to Constantinmple thee months later, bin the cold weather there killed the last of them.

The mountains are of red porphyry intersected by numerous dykes of trap. This is sumbly the proper comery for a genlegrist to come to: no ambering mantles of soil of regctation conceal the rock masses ; all is lare and clear, and a gend siew rereals as much as a shive full of well-horiugs and railway enttings.

The fomperature has hecome murh colder, falling to within five on sis degrees of freezing point at night, and we find it dithicult to keep warm enough in our tents.

Acacia bushes become rare or absent at about 3,500 feet elevation. A cancias may lee saill to mark the vertical limits of the desert floma, as the date palm domes its horizontal gengraphieat distrimmion. The desert phants which esceed this range upwards will lie fromed to be mostly. Mcserpotamian of Sy rian spmeies, and not contined to that belt which estends from the Cape Verdes to Scinde.
 ahme is feet in height. This phant has about the same upwayd limit as that of the acacia. On these tamarishs were two buttefties, one of which, Procomes candui Lima., was ohtained: the other apmeared to be a fritillary (Argynnys).

The Wady es Sheikh is of ennsiderable length, upwards of twenty miles ruming enat at first, and then somth to the hase of the Jehmel Mluat group. It lies high, 3,000 to 4,000 feet, and the chief plants in it are Aftemisis. Sammina, and Killa, escept on the momhern sides at the hase of whatever shelter from the sun there may be. Here most of the plants lately enumerated occur still. Some appear which are less common, as Zygophallhem album Linn., Nitraria tridentata Desf., Alhagi Maurorum D.C., Crozophora obliqua Fahl., P'ancrutium Sichembergeri A. and S., and

 of hair, ready in whink the attacheal meds atont the pemingular plains with every breath that blows. I'hagnulon nitidum Fres., Ancubasis setifera Moq., and Atriplex lencoclada Boiss, occurred in Wady Solaf, so that the Salsolacee only require favourable circumstances to appear in the upper commery. In Hahy sulaf, a smaller arm of the Wady Sherikh, remartahte soctionis if manh alepunito many feet in thieknes, were examined. Thuser no
 streams which once contained a steady supply. Examination of evidence of this uature will fom an interesting protion of Proficin Hulls results.

At Jebel Watamh a fime granitic pascoments the eastern amol southern prolungation of Whaly shoikh. The summit of this 1 estimated at 4,150 foet abope sea-level. On it 1 oltained Dhimehus Simations Biness, Bugfonia
multiceps Dene., Arenaria graveolens Schreb., Crategus sinaica Boiss., Cotyledon umbilicus? Limn., Poot sinaicu, ? St., and most of the species of Zibhed Bahwir. The withered Pmoralea (ap. ? ) wermed also. The firat two of these are peculiar to simai. There was a well-marked diference lece in the flugas of the month and somth side of the prak, the Cotyleton and graws cor-urving only on the borth site, while the Artemisie, Anataris, and other ubiquitons desert species prevailed on the other or southern face.
 rearombling exactly the withered straw-colonred iwigs and sand in which he lived.
 Centarrect eryngoides Lam., Alkannu orientatis Boiss., Lithospermum temui-

 Coss. Anarrhinum pubescens Fres., Primula Boveana Done., and Tencrium sincticum lioiss.

It was interesting to notice a form of Cotyledon umbilizus Linn., the only appromity native British fientyledun I mef with in Simed. It has heens gathered here previonsly ly Rové, semonding th Hemaisme, whom momed it under the present name. Unfortunately my specimens are in too bad a condition to determine, consisting only of young leaves and a withered stem. The root was tuberous. It is plentiful on Mount Hor, and is not. mulikely to. lee identical with the new form Ire. Solweinfurth gnthered on mountains between the Red Sea and the Nile Valley. ${ }^{1}$

Retemer Retem Forsk: is very common in these high-lying wadies. It quite takes the place of acacia, and was now laden with its one-seeded capsules. It is very pretty and sweet when in flower. The varieties of Amblusis inficulath, whome lnacts wither a showy rel and rich clamot montur, are common here. This species is quite ahmanal at this setmon, hat ing sheal all itw mowe lemer twigs, aml having mowe the habit of a Zygophyllm. It was not till I reached Wady Arabah that it occurred in its natural form.

Lepidopterous insects were more numerous in these cooler stations, diefly antracted hy the tent lights at night. Of the cartied itsent plants Reaumaria and Gymmocarpum are still abundant.

Several grasses, Cucurbitacee and Zygophyllacees belong to lower districts, but Fagonia ranges everywhere so far. liuta tuberculata, with its disgusting smell, is still to be met with.

At Ain Zuweireyeh, where we camped for the ascent of Mount Simai,

 well. It is one of the most remarkable species in Sinai.

I made the ascent of Jebel Musa and Jebel Catharine on the 20th November: On the way to the convent of Mount Sinai occurred Centurrea seoparia Sieb., Celsia parviftora Done., and Alkanna orientalis Boiss. At the comvent garden, where we dimined our camels, are eyphes, oramge,

[^13]fics, olives, dates, and vines in cultivation. These I mly saw orer the garden wall, for the delay in the convent was irksome since the whole thing was to be done in a day. On the garden gate were suspemben several dead Tgyptian vultures, which surprised me, as I thought the bird was too much valued as a scavenger to be destroyed. Ciomphowarpus occurred again a little above the convent which stamds at 5,1224 feet above sea-level. The following were first met with here:-Asporato

 Lomendulacen Boiss., Teurrium polium L., var. sincsioum., Origanum murw LimR., B simuirum, Ficus pseedorycomore os Dene., and Adiontum copillusकrmis Lima. A single tree stands near the spring, hot I mefortunately lost my leaves of it. It was, I believe, Salix safsaf Forsk.

At this height, ahout 5,500 feet, a couple of palms (amonss the valley). Phuenise dutulyeru Limu, and a tall egrness, Cuprossus semporvions Liman.. var. pyremidalis, oweur. The latter, which is not native, orems a little higher in a conspicuous place familiar to all travellers.
 Linn., Pegumam harimula Linn., E.hinops glalucrimuss D.C., Acunthonliwn squicitum , Mi-h, and sereral mosses were gathered on the asecht. On such oncomions as these the Bedouins made wild gestures and how lo as I esemped from them integullies and up cliffs. One reason of this I found to be their horror of hoots, which they think most dangerons to the climber. At the secomd pyramid, that of Cephren, at Caire, where I stole a march and reached the summit alone, the Bedonins who pursued me made frantic efforts to deprive me of my howts ere the dessent hegan. I need havily say I valued the skin of my feet too highly to obey.

In spite of the Bedonins I followed the hent of my own hotanical inclimations. The mosses were the result of a detour from the heaten track to a less open gully looking north. On or close to the summit, 7,320 f feet,


 Eyhembee whe C. A. Mogh, and whers not recognisable. The ascent to the summit from the convent occupied about two hours.

The most striking feature in the aspect of the floma of the upper parts of Tehel Musa, from the convent upwards, is the prevalence of the Lahiate and Sorophulariaceons families. Several fresh spectins had appeared, some of these peculiar to Sinai, and others met hefore were very ahomdant here. As these orders increase, the Compusitee, abundant at intermediate heights, diminish towards the upper zone. The feru and the mosess illustrate the comber atmesphere of the elevated region, thungh their immediate existence depends on the mufailing springe of water. Having left our party here I descended rapidly to the comvent of Deir A Arlain, about 1,704 feet heluw, in the bothon of the gogee het ween Jehel Musa aml Catharine. With a mimble Arah, as gride we did this in half-an homu. At the consent I was transferred to mother mative. There was harcly
daylight left in which to acemplish Jehel Catharine. I had arranged that my camel should be in readiness here to bring me lack to camp, at A in Zuweiriyeh at night. A quarter of an hour after my arrival the faithful Khalin appeared, and I started at once, 1.30 p.m., for the summit.

At the monastery, or near it, were Baplonrum linenfifulium I.C., var.

 , Dedic sufacf Forak. owcurs here. During the ascent most of the lahiates and the haw horn of Mount Sinat, were met with ; lut this montain wore a far mone wintry aspect than its lower neighbour. A lack of ruming water renders it at all seasons more barren. At the spoing Mayan eah shunnâr, "fountain of the partridge," I made another little gathering of mosses, in all from the two momtains ten species, is: Crimmaic upocarpa Limen,
 inermis Mont., Euculypta euligaris Medur., Entowethontom tmpletoni Scheveq.,
 These are all British species with the exception of Tortula inermis, which becurs also on the Moroceo mountain at 8,000 to 10,000 feet, and mo doulit elsewhere round the Mediterrancan. One only in the list, Giymonostomaun rupestre, is sub-alpine in Great Britain. There are two other mosses alon common British species recorded from Mount Sinai by Dearisne.

The remaimer of the ascent was over barren and perfectly unvegetafed rock. Nevertheless, within a few hundred feet of the summit I was rewarded by finding the exquisite little Collfitiom, Strami? Fth., of a delicate pale lilac colour, sometimes white. It lad mo leaves, and hore either one, two, or three flowers on the scapre; usually only one. It oceurted agrain on the extreme summit, and I secured several Inilhs. Colchiowm siomeni was gathered afterwards on Mount Hor, where the flowers were very decidedty smaller. The deled Catharine plant may prove to be specifically distinct. This Colchicum has been recorded fron the Palestine coast as far south as Joppa.

On the summit there was hardly any life. I obtained Bueffonia
 Giqpeophilla hirsuta Lod, and B.alpina Poiss, and fragments of an Astraynl, perhaps A. chimus D.C. On the ascent 1 gathered the ront and leaves of a sedge looking like $C$. distans Lim.

The summit of Jebel Catharine, $\varepsilon, 536$ feet, the highest in the peninsula, was rery cold, barely above freesing point. Its mean anmal temperature would perhaps about correspond with that of Edinhungh, while dehel Musa would be nearer that of Lomblom. It is a solid hump of syenite with a lower shoulder joining it to a similar prominemee atont half a mile away. The view was magnifient, incluling the whole conet-line of Simai from suez to Akaba, except the portion intervepted ly the Umm Shaumer range to the sonth, whose summit almost equals that of Jebel Catharine. Telmil Musa looks a mere trifle, one of a fierce seat of red pointed atul serrated peaks and ridges.

The summit was remblat at 3.15, left at A, ant the convent of Dein at Arbain regained at 5. A long camel ride through a wild gorge by moonlight brought a memorable day to a close.

In the gorge I heard a deep clear strange note which my Bedouin called "hōadoū." It seemed to proceed from an owl, and may have been Bubo asculephus, the Egypian cagle owl, but, mowh as my cortiony was aroused, there was no means of gratifying it.
 S. lugens Licht.), and the Egyptian vulture, no birds were seen. A single coney (Hypux Sypicens II. \& Lillo:.) showed himself for a few secon on the summit of Jebel Musa.

## CHAPTER IV.

## Mount Sinal to Akaba.

Qus jombrey inge from Momm Simai loy east of morth to Akalm, al: … and occasionally crossing corners of the Tih plateau.

Hares were occasionally seen of the little long-eared Sinaitic kind gazelle tracks were very numerous in Waidy Zelegah (Zolakah). ne
 were captured, which proved to be of two species. A suake, Zumenis ventrimaculutus, was safely lodged in my spirit cylinder.

Wady Zelegah is a noble valley plain about half a mile wide for
 Several detons were made into the Tîh cliffis on the left of our line of march. The chief plants were-Gilauciun arabicum lires, Capparis galeata Fres., Cleome arabica Linn., liata tuberculate Forsk:, Odontospermum greceolens S. Bip., Artemisia herba-alba Asso, and vars., Sonchus spinosus Forsk:, F'erbuseum sinaiticum Bth., and for the first time Moricendia chumosa Boiss., C'apparris spinosa Linn., Iplhiona scabra Del., and Imperata oylinetrica Beans.

Frequent bars of fossils were obtained in situ for the assistance of the Geological Survey.

In limes, the white wagtsil and the litte cotk-taited wom-tike wather
 scattered intervals. A very small warbler, Sylvia nana, was shot amongst tamarisk bushes. The song of the Drymoca is quite wren-like, but less piercing.

The flom is that of the western side ; Tamarix, Caylusen, Retama,

 Sinai groups of labiates are for the present missing, as also are two or three of the Iphiona group of composites. The larger Capparis is very frequent, growing on the most arid rocks above the wady flats, where

sxist. Cempueris gutemed is sometimes an erect shrub (i) or s feet high, of a bright green, differing from the slember trailing hlue-folianed smedes. C. spinosa, which often grows with it. The former is now in fruit, the latter barren.

Camels delight in the larger grasses, in Ochradenus, Zilla, Nitraria, Anabasis, and tamarisks.

At the head of Wady Elain, a grove of tamarisks was plentifully imbuel with an exaresence or exmbation of greyinh-white pillules of a viscid substance, with a faint taste of nucatine. This is the so-called "\# innat of Sinai," which is, I helieve, mone plentifully whained from Ilwigi maurorum D.C. This gum is said to be due to the puncture of a small insect.
tife became more plentiful. Three hotterflies were ohserved: a pale
 amd a long-tadied insed dartal ahont in a broiling suns. I obtained all these except the sulphur-yellow butterfly.

In plants Sunedu monoica Fres., and for the first time the rare Linaria menizentu Un.m. This spring species was in flower, but the fugatems corvila falls at the slightest touch. Cleome droserifolia Del. was also hem tirst obtaimert. A spring supported a strean that muisthent the suil for bumt a mile ere it gradually died a natural death. It leal us the way into ato thexperted and magnificent fissure in the red granite, the Wialy Elain. Fon tive or sis miles the gorge passes hedween sheer clitls of this ribhly colonten rock, with a height raying from son (w sim feet, and from 10 to 50 yards wide. It is in some ways the most impressive matural feature I have ever beheld. The floor is hard and level, and as the sun
 dition than daewhere and some new ratieties were fosmd. I will mention the less conmmon species prommed in this rematkahle sik, of cleft, whid
 droserifolia Del., Capparis galeata Fres., Abutilon fruticosum G. \& P., Zygophyllum coccineum Linn., T'epherosia purpurea P'ers., Pulicaria

 Linaria macilenta Dcne., Lyeium arabicum Schw., IIyoscyamus aureus

 Typha angustata $\mathcal{B}^{\circ}$ \& $C$, Cyperus lavigatus Linn., et var. junciformis
 Beauv., and forms of Reseda pruinosa Del., Fagonia oretica L., as well as other imberminalile remains. Several of the above are prealiar to sinai, and some mentioned here and elsewhere are now first included in its flora.

It was with misgivings we camped in this wâdy. Had a "seil" like the lies. F. Hullami's memoralile me at Feiman viated us, we would have assuredly had a bad time. But the expected rain did not yet arrive.

While we were encamped here we received notice of the arrival of
sisitoms for whonn our ever conterns chief prapared onfee. The party, consistimg of bugineers, Golonel Colvile, I believe, aml others, phased us at speed on the opposite side of the narrow valley without a greeting. Snspecting that this impretuous haste, and alsence of that courtesy for which
 T'mofesem Hull summoned a commeil of war, which resulfed in despatehinz anf able conductor, beqmard Heil]mon, with orders to secure our entitled primity to the Akabat sheikhs camels and services. Bernard pasace the fugitives in the night, and was entirely successful.

It was long eve we got chat of this exor widenings slowly rising Whly of Tilyeh, which womm through granite hils and lifted us out of Whly Elain. Onw height above seatlewel raried letween 2, कо0 and 3,000 foet. Acacias ate mumombs, chicfly A. syat. This small tree, when mot too flatthplect, as is conmmomly the case, has at a little distance a close resomblance (t) olll hawthom, with its ghalled and twisted stem and rugged hark. The eranite hills, matally eapped with a strathm of samlstome, are harten in the extreme. Demia cordatat and Tephrosia purpurea are the only noteworthy species.

Heys sand partridges are frequent, and good to eat. All seron as ret are of the ome speries. They ravely fly motil ahmost walled on, thmsting for esapre th their chase resemblance in colour to the shingle and roks they inhahit. Cintil they run, which they do with rapility, they wonle be most difticult to ubserve. Nevertheless they often hetray themselves hy their shatpery of alam. The Bedumin them, swift, stealthy, and harefonted, gets easily amomest them, for they semm mone alamed hy a mise than hy the hmman figure. The Bedonin flint lock is, howerer, show and dignified in its perfomanme, amb ustally affords ahmulant time for cocapre from its uncertain discharge.
fimk-jigeons and martins ( (inlember sithimperi Bpo, Gutyle ruptatries Scop.) were seen in Wady Elain.

All abmet the caper is freapent. The Amhes eat the rijue red fruit amb seenls. I tasted it but did nom comtinue to eat it. The skin is like mustam, and the seeds like black pepper.

In a manshy place at the hearl of Whaly Elain, amongst palms and tamarisks. Typha angustata was I2 to 14 feet high; Erigeron bovei (ior Tfent high, well hanched and with many flowers, and Phaymites gigantea was fully 15 feet high.

The pricklier plants, Acarias, Acanthodinm, (iymmonapum, \&e., are conmmoner in a genemal sense on the granite and sandstone than on the limestone.

In a very dirty well, Bires Sowrah, near the hae of Telnel Amoth,
 palms and capers.

On the shmmit of Jebel Aradeh there was no rogetation, and in the limestme now !ying above the sandstome mumerous cetacents fussils were whatmed. A single white hutterfy (Pieris sp.) was the only living thing. I estimated the height of this momitain 3,400 feet. It is about 1,3010 feet
athove the plain, and forms a most conspicmons ohject. Tike others, except those of granite, in this region, it is ermbling away and thring to duat on all sides. The beds of chalk and flints are meli disintegrated, while all the outer surface of the lower limestone is on the move.

The only plants were (iymmomapum, Reammia, Capparis, Acanthodium, and Lavaudula of the usual kinds.

We are here in a little known and unsurveyed region. Consequently there is abundant work for the engineering section of our party. Very few travellers have pasmed this way since Lahometes time, and 1 was somely disappointed to find on the tableland we were now entering there was liftle living regetation, although almulant withered evidence of a spatse lut varied flora.

This tableland is called hore Jobel Hitteh, and is, properly greakines a prortion of the Tils phatem which heeomes indetinite at its sonth-eatem homer. A fine oval plain, Warty Hessih, about three to five miles lormal, literally abomuled in lizands, and here I killed amother Zamenis, a sandcolonved suake about a feet loug. A large-hembel Arachuid (Gparacis sp.) is aloo mery atmulant, and seems to form foul for some of the mumernus chats and latks. Small flowks of sparrows, Posser hispmomistonsis Ti.ma, occurred here, while there is usually a raven or a vulture in sight.

This wady, now clad with withered scraps, is a favourite pasturing phace later on for the Pedmins flocks. 1 gatheme here Tributus in .reme

 floribunda Boiss., Verbascum sinuatum Linn., IIeliotropium undulutum Tahl., Mieromeria myrtifolia Boiss., Plantago oratc Forsk:, Panicum Tenerifice 1R. Br., and Aristida carulescens Desf. These had not been previously met with. Other interesting species not recently seen were F'arsetice cegyptiaca Turr., Resedu pruinosa Turr., Podycarpea prostrata
 album Lien., and others of commoner sorts.

In these depressions of the plateau, where water and soil are of more frequent oecorrence, there is an ahundanee of gresish servh, shomt, thin
 Salsolat, Articulata, Ephedra alte and Atriplices, Nitrarm, Villa, Rimem, and sometimes tamarisk.

Sonclous muticuetis Linn., Demia cordata Br., Gomphocarpus and Lindenbergia still occur.

I endeavoured to obtain the Arabic names of the commoner species, and to confirm them from the months of two or more Bedouins. These names so obtained rarely agree with those I find quoted in Forskahl, Inissier, Tristram, and others. It is pmonalle that ereey tribe has its nwo plant-names.

An Arab informs me that "boothum," a tree growing on Jebel Serbal and nowhere else, with a stony fruit, is used, its leaves being boiled as a cure for rheumatism, an infirmity to which the Arabs are martyrs. I sus-


I'opmus mullection Lima.) is the womed in demand for chareoal to colour their E-14pmwater. This they obtain in the valley between Tebel Musa and Jehel Catharine as well as on the latter monntain. The proportins of their çmpowier are-one part sulphur, fome parts saltpetie, and a litile charcoal to colour.

Amuatution herrochuntin. Liun., "Kaf Marram," or Jase of Tericho. Wals fint seom here, and becomes (o)mmon to Akala and worthwark 10 the (ihore sestielo. Ephematrate is the most characteristie amb almutant preeies. Acamias are abumat absent. We are on a lime-tome tahlelatul with oecotsonal outemps of samdatome. Once on suth an onterop
 hoshes, formed like a table with its simgle legs much nearer onte side than the middle, point with their overhanging gat in the direction of the gevaline wind. On reaching the granite pass into Akaba the anacias again hemme ahmolant, but thein ahsonce above may he partly explaned by the exposed situation.

Camelo eat even the milky asclepials, as Darmia, which is salil to be highly puisumbles. Ileliotropium urhmimose lies. was finst met with hy the Maj route from Cairo to Akaba, which we were now close to.
 frepuent. The sumell of the former is like that of our homml's tongue, the lattor remimbed me of sune kind of woml-hag, which I eolleceted in an evil monnent in the sadfulding of the Milan Gathedral. FIomme dromerivit


(In the e!th November we dusemded a magniticent gonge hetween granite aml linestome by the Haj roml to Akaba, which take its matme (Akaha, "sterp destent") fron this motrance. The ever saryins pecpe of the gorgeonaly blue gulf of Akaha shining in an intense smalight were a anost refteshing change from the desert. The sioh purple colouring of the lofty mountains of Midian formed a noble background.

## CHAPTER V.

## Araba.

At Aknha we remainelf from Nosember 29th (o) Demember sth. I in-
 spectes. Bial life was mom phentifl, and a large collection of shells was
 thuse firm sinez, I hase had A-twminel by Mr. L. B. Sowerly, and ammert them are many which do mot appear fo have been atmiteal as inhabitants of the Red Sea.

Akala, even at this season, was oppressively hot. A swim in the sea, (1) 1ather a rawl amongot the emmal rouf, alomit: : foet helow the surtace, was ilelightful. Farther out sharks abound.

The intraghing Alah village lies at the solth-eastern comber of the
plain which forms at once the head of the gulf and the southern emi of the Wally Aralsa. This is the narpowest part of the wady, leing not more than five or six miles across.

A very fine tree of Acacia tortilis Hayne stands close by. On the monat are many clmmpis of the date palm, interaposed with a very fow thes of the domm falm (Ityphene thaturion 7). .), alrealy moticed here loy Mr. Redhead. The doum palm, a native of tropical Africa, Nulim, and Abyssinia, finds its northern limit at Akaba.

In the enclosures here I noticed mubl (Zizyplme), hema (Lawsomia),
 figs, and several kinds of gourds. Most esculents were still incisible or in a seedling state.

There is but one loat at Akaba. Laurence and I suceeded in hiring this with a native fishorman, with two Arabs, nets and lines. There were many flying fish (Exoco-tns) ahont. We tirst rowed across the comer of the gulf and landed on the sandy heach, where the fwo A rahs landed and with a circular casting met captured some small fish ". Akadi" ant "Suhadan") for hait. Wiath these and some lovese stones, ahout a pormel weight each, we rowed ont a few miles. The lait fish, broken in three, is aftixed to the hook and ome of these stones is hitched to the line a litite alove with a slip-knot. Un reaching the bentom a confle of violent jelis dismiss the sinker and let the line swing free. We canght fish tapidly, "heeljib," at Suez callen " jar," "gamar" (a sprecies of Clretodon !), and one "phemidid red fish they called "Losssiah," without states, and rery giond th eat. We also howked a shark, "Zitani," abont 5 foet long, who annseal us for a time and then carried off the line.

Before dimmissing omr Towarah Bedonins I hand endeavoured to pump them of what little infurmation they !msomsed abome the foral inhalnitants of Sinai. They knew of leopards on Sertal and timm Shaumer ; wotves in Wanly Lebweh amb meighbourhool; lyywas, ibeses, graelles, haves, jertmons, pats, and mice mate up their total. Their sheep they say were imponted from Arahiaa ; they have a few tomkeys ami camels: their goats are a distinct loweed which they are especially prome of. Five kimis of smakes they admitteal, all of which were poisonmens ! The ome I cancht in Whas $Z$ ulegah, Zumemis remtrimucellutus, at tains a full size of 5 or 6 feet. These remarks I set down to be taken for what they are worth.

Ir. Hull caphured a handsome little snake heve, and hambed it over in me; it poved to lee Zumemis claynatissimas, and is now in the Pritish Museum.

The bivils ontained at Akala were-Comomela melonam Tann..




 in arevel. Vultures and Einghish swallows were frepuently to be seen, the fornuer usually of the Egyptian species.

Not many identifiahle plants oncomped here which had mot been previously seen. These are-Cassia acutifolia D.C., C. oborate Coll.,
 sperma Del., Statice pruinosa Linn., Salvia deserti Dene., Boerharia



 Dene., Trichodesma africamum, R. Br., IIeliotropium arbsinense Fres. Forskahlua, Andrachne, Panicum, and others. Alone the shome in sinme
 A. halimus Linn., Juncus maritimus Limn., var. arabica and others. rimesnomen is a characteristie speries along the shome on the saline flats.

Gathering shells where such an abundance of, to me, novel forms (hemured was enthusiastivally pursued. I shatl mot here deal with this suhjeet in any detail, hot merely mention the principal genera met with. These were mostly univalves, bivalves being scarcer in species, and infinitely fewer in individuals. Cireat mumhers of operenla of a Turtu. proty polished little hemispherical hoolies retaining the spiral lines of structure, prens of calamaries, and the delicate sitrems wingshells if pheropols inewred, as well as a large variety of fragments of comal. Gomes, Gerithium, Sitrombins, Cypraa, Mitra, Tritom amongst mivalves: Area, Peotmonlus, 'Tridacna, Chama, and Vems amongst livalres, were the luest mperented gemera. Drift shells are rarely disturleed, the tide being apparently not above a foot in range at Akaba.

## CHAPTER VI.

## Araba to Mount Hor.

AT Akala we have left the Sinaitio peninoula; from here we turned nom hwards up the Wady Arabah. Happily we had oecasion heneeforth the travel mone showly, in onder to give the sinvering party time to keep paip with us. I was thus enableal to make wide detomers east and west mut of the Arakah, but my inclinatim lay chiefly cest wands into the preajpituns borderland of Edom.

In the Waily Aralah I suw gazelles several times; Wady Menaiyeh. on the west, may te mentioned as a gend humting gromud. These grameful animals seemeal more at home on the west side, ahounding on the . Daderan wilderness, and all over the Tilh platean. Tbexes, on the other hand, appeared more frequently on the higher mombain healivities of Edom to the east. Hyamas, judging from their tracks, must he plomifol ; one I hat a grond view of one, and quickened his lolloping pare with a fusilate from revolver and fowling-piece. At E1 Taba, on the east side, about twenty-five miles north of Akaba, a fruifful, mashy place with a deep
spring, I saw perfectly fresh tracks of "nimr," or lempard, and sulsequently, at Ain Abuweirideh, Laureuce came on fresh remains of some beast which had served apparently a meal for these animals. A hare, the Sinaitic species, was killed a few miles morth of Akaka. A mmelh larger hare, L. myphtiecoms, was seen several times on the eastem deedivity of the Tih. My fregnent failure in bringing down gane and specimens I attributed partly to my having been mable to land English cartridges or powder in ligyt, and being dependent on very worthless and very expensive ones procured in Cairo. I would recommend all sporting travellers to run anyrisk in smusgling somer than let this oredr th them.

The Waly Aratiah abounds in rolents. These anmals appear to hee chiefly noctumal in their halsits, and are rery seldem seen. The number of holes amb the alomblace of their tracks is tmoly astomishing. Their colours are usuadly instrict harmony with the desert, for the Wady Arabah is some ten to thimeon miles actoss, and mone correctly called a desent than must parts of Sinai. Jemons were seen a few times, and Gemblles, of which I trapped one, appear to be most numerous.

Birds have increased in numbers and variety. Fron El Taba northwards, about twenty-five miles from Akaba, a grove of acacias (chiofly A. twritis Hoymm), and a little Zizyphos, stretches about ten mike along the eastern edge of the Arabah. A smaller grove occurs nearer Akaba at the mouth of Wady el Ithm, where I first met with the
 Zuce. abounds.
seseral times I endeavoured to get a shon at a small hired here which uttered a sharp, little note, new to me, but I was unsuccessful: Mr. Armastrong, when was with me that hay, and is well skilled in Paleatine bieds, reengnised it, having alson seen the hird, as the little Smulhid, Cimnyris Osec. Subsequently, when I reached the Ghôr, I obtained several specimens and reangnised the inote at once. This sprecies has mot beem detected somth of the Ghìr, where it was first made known, like the hopping-thrush, by Canon Tristram.

The Sunbird probably follows the Loranthus, to whose flowers it appears attachect. His long hill seathes the hase of the tulmhar flower.
 One was shot in the Ghor in the act of doing so, its hill being envered with the pollen of the Loranthus. ${ }^{1}$

The hopping-thrush (Argya Ayumimpois is a remarkably weak flier. havaly leaving the ground except in trememhons jumps, which cause his latge fan-shapeal tail to overbalance and almont overturn him as he makis a panse. He is a most grotespue bird ; nevertheless the mon miful eries if one when I hat shot his mate impressed me with a differemf fredinc.

Palestine bulbuls were occasionally seen here also. Hooded chats,
1 Since writing the above f find that. Burton has seed the Sumbind, alme-t empainly this specirs, about five degrees from this sonthwards, in Midian. " Land of Midian," rol. ii.

Tersian larks, and desent larks were frequent, and large flocks of sparmows assembled about us in several places.

The floor of the whaly is sometimes alive with geekns, lizands, and ants. as well as numbers of long-winged males of a Persian species of white ant, IVreetermes ratyoms Hay., not set able to fly, oree which the hoppingthrushes fall into inconceivable excitement.

The finst hee I met with was captured here, and small beetles are often sacrificeal to the grom of seience. I spare the reader the enumeration of their scientific names, which will be given fully at the close.

At El Talah oecurred a greensward of Cymodon deetylom Limo. In or near

 Forsli, fircumostis cgmosmomides lide, and commoner sonts. In the opren


 Pancratinn, Danthonia, Trichedesma, Andrachne, Furskahtea, Analmasis, and Tamarisk form almost the whole vegetation.

In some places the wady is spanned by rolling wastes of sand dunes 10 to 12 feet high. These appear to have been formed around the lomees of clumps of tamarisk and anabasis, which is here very tall, if to \& feet high or more.

Ochradenus baccatus is very ahumdant, often overtopping the acacins by whose protection from camels it thrives. Lycium enmpan and one IT two grases escape being cropped in the same manner, and grow to an unwonted size.

On the 7 th December a long day's climhing with Laurence brought us to the head of Wady Churumdel in Edom. This was at a height of alout 1,400 feet above seat-level, six mikes east from the Arabah. The scenery on the way was superb. Huge hlowks of red sambstone, soo to 1,000 feet high, towered above ns, sometimes sheer and tottering in intoken masess from the man cliffs hehime. We passed a spring wih a few datepalus, and a little higher a large hulb with hroad leaves (Crginen selle steint?) first appeared and soon heowne ahumbant. It was not yet in



 for the first time. The Ofontompermum (Asterims), which ocenmel at a monsiderahle height, was a liftle woody button representing the hardeneal flower head, which was usually solitary and chose to the groumb. This phant, like Anastatica, has hygrometric propeties, and has been put forward by Miclon as the trme Rese of Jericho of the travellets of the middle ages. Amestatice hierochowina will not, however, be readily deprived of its claims.

Besides the above, which were all gathered farther on, some phants


 Fres., and others already met with.

Jndging from the abmalance of its bur-like carpels lying in the dry waterconrses, Calligonum comosum is the most abmadant shonb; it is mow in a withered comblition. Several other bulbous speecies which necurred here are as yet undetermined. A stiff seramble hronght me back to the Arabah hy a mone nothem valleg. Amongst land shells, heliees of fonm species were gathered in Wâdy Ghurundel.

## CHAPTER VII.

## Putra and Moest Mor; Wades Harocs (Abot Koemmem), and Musa; Jebel Abou Kosheibei.

Tus last valley has shown us some characteristic Sinaitic species extending thecir ratige north-east wards acrons the great valley of the Aratah. Several more will appear in the group of localities now to be comsitereal. Were 1 (6) hazatd a sumgestion here, it would he that these plants, formerty considered peculiar to sinai, have had their origin more camwards, and have spread, like many other Arabian plants, in a westerly direction.

Owing to the greater mosisture fomd in the upper prat of some of the valleys of the Edmatic essarpment, there is a greater varicty of species and a sprinkling of ferns, moses, and lichens. These are mustly mure northern forms, spreading southwards at high levels.

We are now entering a district which Canom Tristram has somewhat liberally incluted in Palestine. The floma has its own preculiar plants as well as a large proportion of southem or Sinaitic species, and thes it adds many to the Palestine floma. I will tirst speak of the wadies, and then of Alomit How and Peda. The latter places, I think, have not leeen botanised previonsly to my visit, and are visited only with dithiculty anm expernee, owinge to the compidity and lawlosshess of the study beygats on Bedouins who dwell there.

Lrty and Mangles, Commanders in the Roryal Navy, travelling in 1416tred, were the first Enropreans who risited these regims in motem times. Fiuther on I will quate a few remarks from their most imterating volume. sime 1 find $m$ on other allnsions to the regetation of the ancient capital of the Nabatheans.

The fonlowing plants not precionsiy seen were gathered in Whaly A hou Kohteitheh (Waly Harom ), and on the dehel or peaked mountain which
 Laq., Erodium hirtum Forsk:, Poterium verrucosum ? Ehr., Anvilleea G'arcini D.C., Carthamus glanca M.B., C. Lanatus Linn., G. arabica, J. de S. Podonosma syriaea Lab., Nerium Oleander Linn., P'entatropus spiralis,



 Jimiperns, and the two ferns were ohtained alove the wally amongst the Cliffs of Jebel Ahou Kosheiheh, from ahout 3,000 to 3,500 feet abore sealevel.

The Gilubulatia is a pretty compact little shrul, with hue heals of flowers and small entire leaves; the species here is the Atabian form,
 ranean.

The two Asclepiarls, Boucernsia and Pentatmpis, are buth frequent: the latter is pmolnally $I^{\prime}$ '. apirolis, lmi as it was not in flower, Mr: Oliver would not speak positively. It oeconted again at the fihor, trailing ower acacias.

The Boncerosia may be 13. nowforimal Deme, an insufliciently described Hant from Mnat in Aimulh-Eist Arahia, which is also the nearest known habitat for the Pentratropis.
 Boiss, Gomphocarpus sinaiticus Boiss,, Heliunthenum Lippii Pers.,
 Linn., Phlomis curea Done, and Boerharea verticillata, Poir.

Many desent speries of Reammuria, Ochmatemas, Kygophyllum, Muret ia. Zilla, Acacia, Rectama, Ruta, Itoga, Lescium, Trichondesma, Forskahlea, Asphonlelus, Anahasis, Ephedra, and grames ahready memtionol, weem also in Waity Harom, the name which the Bedonins invariably give this wâdy.

It will thus he seen that there is no approcinhle hook as yet in the continuity of the sinaitic floma as we travel up the Winly Aralmh, but an increase of species from eastwards and northwards.

The Wady Haroun is at first wide and arid, but after a few miles Furetation tapidly incerases with moister conditions. The flanhs of the Edomitic limestone phatean are better supplied with moisture than the Sinaitic granite. Banks hy the elge of this valley at a moderate eleration, 1,(11) to 1,506 feet alme sea-lewel, hat a sparse continge of moses and other cryptogams. The mosses were chiefly of the Tortula genus, of which five species were collected. Side by side with these grow the desert sprovies ahove memtionel in great Insuriance. Demia contata, firp instance, climbed to a height of 10 or 12 feet in retem bushes; the suppont heing as well developmal as the dimhing plam. In the opron deart, Dernia, as mentioned by Mr. Redhead, lies sprawling on thr groumb, its seremal stems sometimes clusely iwisted intor a homg howants their estremity, so that all cirentation is stopped, and the fonig shoms are strangled. This is prolmbly due to changed comblitions having depriven it of its mormal suppont, which it ravely finds in the desert, and cen seems there to have lowt the fower of utilising. For 1 have seen it strangling itwolf site loy side with lmshes of the very sont which here gave it so muth assintance. The desert plant was more plentifully milky, and
we have here secen at work agencied which are giving rise to a modified form, in better harmony with its environment.

From the smmit of Jebel Abon Komheireh, which I climbed with Dr. Hull, an musual sight was observel: a stream, shuall in size, but (o) matning a gond body of water, rushing down the eliffs about haff a mile to the sonth-eastward. I conhd distinguish with my spy-glass the growth of armodos and oleanders that fringed its hanks, hot mufortunately there was no time to examine it more closely. Rumning water was once seen before on Jelel Musa.

The jumiper is a well-shapeed hush or small tree, with a truak sometimes a foot in diameter. It gives a considemable area of shade with its dark chree foliage. A large specincon oerurs immediately below the summit, and I could see it on all the highlamlsaromd, even at the summit of Mount Hor, which looked but a little distance off.

On the toth of December we made the ascent of Aloment Hor, retuming to camp the same day ly Petra. Our camp was fixeal near the month of Wady Haroun. Although having made an early stant it a.m., the visit was necessarily a rery hurried one. While waiting for a dond to lift from the summit of Mount Hor for the lenefit of the theondalite party, I had time, howerer, to make a good gathering of the hullows plants, now just showing the ir leaves, with which the upper part of this momatan ahmmes.

The riew from Mount Hor, whose height 1 estinated by aneroid at $4,40 \cdot$ feet, is a distypminting une, and hears no sort of camprisum with these from the stinai peaks. This defeet is due to the adjoining high and momotomons tahleland of Ehmm, which whecones me side of the horizom. This tableland averages perhaps 5,000 feet in lheight in the enstern moightemehood of Nombt Hor, and is composed of the unvarying ambl mipictureaphe white cretaceons limestone. It lowers monthwards, amd I afterwards reached its onter enge. In some places it has quite a forest of vegetation.

With regard to Mount How, Hhy and Mangles write: "Mach juniper grows on the monntain, almost the cory summit, and many flowering flamts, which we hat not ohserved elsewhere ; most of them are themy and some are very beautiful."

As Monnt Sinai is a mometain of labiates, so Momet Itor is a momtan of bultes. The mumber of speries and individuals of these orders respectively vivilly colmured my impression of the hemanival features of eath of these sameal preaks. Af the same time many of the Momm sinai plants. Latriates included, oecur on Monnt How: On Monut Sinai 1 prowred
 Hor I gathered at lenst twenty sorts.

In the upper 1,000 feet of Mount Hor a considerable accession of Meditmranem or more mothern forms appear. A more interating gronp is that of plants whieh have heen considered alsolutely peculiar to simai. Both thome lists, which I here gipmot, would no doultt bee swelled hy observations at a more seasonable visit.

Northern species ranging south to Mount Hor :-
Dianthus multipunctatus Ser.
?Geranium tuberosum Limn.
Pistacia palrestina Boiss.
Rhamnus punctata Boiss., var., barren (sp. nov. ?).
Paronychia argentea Lam.
Bryonia syriaca Boiss.
Galium canum Reg.
Scrophularia heterophylla Willd.
Sternbergia macrantha Giay.
Colchicum montanum Lim.
C. Steveni Kunth. (also on Mount Sinai).

Urginea scilla Sternih.
Bellevalia flexuosa Boiss.
Asphodelus fistulosa Limn.
Asparagus aphyllus Linn.
A. acutifolius Linn.

Arum, spo?
Carex stenophylla Vahl.
No douht many of these vecur on the Edomitic plateith, whone lmathy is practically unknown.

Sinaitic species discovered on Mount Hor:-

> Moricandia dumosa Boiss. Pterocephalus sanctus Dene.
> Echinops glaberrinus D.C.
> Vartlamia montana Vahl. Celsia parviflora Dene. Origanum maru Linn., $\beta$ sinaicum. Phlomis aurea Dene.
> Teucrium sinaicum Boiss.

These have heen considered prouliar to sinai. They may now the included in the flora of Palestine.

A cambiteration of the latter group is eprecially interesting when consiblering the ancestmal origin of the mome lomal or endemie pertion of the Sinai flora; ablit alongives us a slight due to the poblable nature of the flom of the little known region east amd somth-east of Mont Ihom: Jules ing from an appentix of species of plants onllectad ly Burton's experlitimu 1. "The Jami of Midian," the floma of the "Ipror regions of sinai is move mearly allied to that of Edom to the nomth of east, than to that of Midian in the somth-east. The Gimf of Akaba hats formed a barrier in the latter calse.
(If the bilhmos speois, here as elsewhere, I ean only enmmerate a protion. The halls of those gathered were in loaf, and were brought home to Mr. Bumhilge, of the Collewe Botanic Gardens in Dublin, umber whose care many are now growing, but have not flowered.

The arlomeal regetation of Momt Bor was contined to the summit, and oonsisted of a bladder-sema, Cilutom ulfpuican Lom.., a turpentine tree, Pistrivin palnstiun Bowiss, and a juniper, Jumperus phamiom Lime. Wach of these was about 10 or 12 feet high. The Rhannus already mentioned was very much stunted.

At Petratwo new speries were disenvered, which will he deseribed in another place. One was a Galinn allied to $\bar{A}$. junymomumimus Bivise, and fronouncel new by Mons. Borissier. It is a low strageling mattel species, with the habit of our Aspernla eynanchica. It necurvel in the "Sik." The nther new speecies was a Daplune, an ereet shath 6 or 7 feet high, with long linear leaves, reddish-lorown bertics, and small ereamcoloned flowers. The fibre is remakably stringes and tough. The Daphme is allied to $D$. acominuta and $D$. matoronto, lent differs materially from both these species. It occurred, in flower and fruit, on the slopres of Mount Efor, about a mile from Petra, aud again at intervals lower: down. The Boucerosia, already mentioned as being perhaps an undescribed species, was found on Monnt Hor in flower in sereral places.

Many unrecugnisable fragments of Umbellifers, serophulariaceous plants, grasses, and others were noticed at Petra, and the botany will yieht a good harvest to any one arriving at a proper seasom, and with sufticient leisure. My time in Petra was somewhat under an hour!

The following plants not previously met with, were gathered at Petra



 ceterach Linn., Andropogon hirtus Linn., in addition to those already mentioned as reaching here a southern limit, and the Atron Kosheineh lants, which also, as a rule, occur on Mount Hor.

The majority of these additions oeeurred from ahout 3,000 feet to the summit. I extract a few notes from my journal on this subject.

At 3,000 feet.Oleander and tamarisk cease, Scilla almment ; at 3, 450 feet Thymelan (Passorina) tirst necurs ; at 3,750 feet numerons sfecies necur, as Iterocephalus, Giloholaria, Gmasma, Juniperus, Ceterach, Cheilanthes, Facomia, Cotrledon, Capparis spincosa, Varthamia montana, Phlomis, Ononis, Deverra, Moricandia dumusa, Whamnus as I asemed; at or near. the summit ( 4,400 feet ahout) are Geranium, Colutea, Pistacia. Pemisen um cenchroides, 11 yoscyanus aurens, Nuaa, Poterium spinosum, Scilla, Malsa, Carex, Ephedra, Zollikoferia, Echinops, Verbasemm simuatum, Origanum A juga tridactyltes, Arum sp., Bryonia, Stembergin, and Colchicmm, of species already mentioned.

Of Whals Mua, in which Petra is situatel, Trly and Mangles write: "Following this defile farther down, the river reapluars, flowing with consideratile rapidity. Thongh the water is plentifnl, it is with difficulty that its conrse ean he followed from the lusuriance of the shrubs that surround it ohstructing every track. Besides the coleanter, which is common to all the watercourses in the country, one may
reeognise among the plants which choke this valley, some which are probally the descomdants of these that adorned the gardens and supplied the market of the capital of Aralia: the camol, fig, mullemery, vine and pomegranate line the river side ; "ciay hetotitinl species of aloe also grows in this valles, leming a flower of an ormme hame shatlat to semblat: in some instances it had upwards of one humdred hlossoms in a honch." seeveral of these were not ulserved by us. Of the aloe I can give mo information.

At Petra, 2.900 feet above sea-level by my aneroid, many of these and others oceured; the most prominent were Phomis, Ononis, Thymelaa, Rulnia, Rhammus, Pistacia, Inula, Stembergia, Bellevallia, Rimmes romects, Verbascum simaiticum, Ficus sycamorns, and a stumted pinmate-leaved shrub, or small tree, perhaps a Fraxinus. The Ononis, rery viswd, with pretty yellow and claret colonred reined flowers, was sery abmulant. So alsu was Thymelea. Siternhergia (Colehicum) macrantha was glutums with flowers of golden yellow, as large as a lemon.

Few olservations on animal life were oltained in this hurried risit, but these were all of interest.

Ibexes and gazelles were scen on Mount Hor, and a hare of the Eexptian variety fled from Wally llamon at our appmach. Anmera: seen at Petra, much lighter in colour, may have leem the Nulian form.

Whon climhing Jehel Abou Kisheibeh, a clear lowd flute-like whisle attracted my attention. The first few times I heard it I was fully persuadel it was a signal to wam those raseally. Petra Bedonins that hated Christians were invading their domain. But I presently saw the whistle belonged to a bird, which prosed th le Tristranis cirakle. This species, originally disoovered hy Tristram ahont the Dead Sea, has since loen found in sinai at Wady Feiran by Wratt, who also met it at Petra. All the time we were on this momatain several of these hirds kept flying aromed us, often displaying the onange spot on the wing as they hovered close log. Their flight is very graveful, sometimes hovering Intterfly-like, sometimes swift and undulating in large curves like the chongh. (irakles were seen afterwards a little above Petra, and a flock of a dozen or therealouts circled roumd the summit of Mhnot Hort, disappoaring and reappearing from the corners of the red samlstone cliffs, and giving motice of their presence with their melodions whistle. This is probatly a farourite breeding place with these hirds. It was not mutil 1 reached the Dead Sea that I obtained a speeimen.

At Petra also oceurred the Patestine hulhul, and the rich musical ery of the fantail raven, cimous cufimis liufp., was almost incessant while we were there. Neverthetes this hid hardly came nearer than two or three hondred yarts, and would lee difficult to obtain. Pis its mote and loy its size, and liy its lomad expanded tail seen on the wing. I was assured of the species on referting to Camon Tristram's work. This raven and the grakle are two of that anthor's chameteristie hirds of the Dead siea lowin.

Hey's sami-partridge, shrikes, and desert lanks are also not mifrertuent, the later lower down towards the Arabalh.

To Lanrence's sharp sight I was indebted for two suakes, Zummis
 spercies was helieved peculiar tor the Jordan Valler, where it was fumbl hy Tristram, and forms as yet the single mpresentative of the gemus fommal for it by Dr. Gunther. The former has wot hitherto been foum ouside the African continent.

A cemtipede (Soolopendra) and a black millipele (Spirnstreptus) four or five inches long hat fortunately turpid, were capmed hore. The latter seemed to be very common.

Wells, which I iften searched with a met, givhl, as a role, no life except small leeches and the larve of gnats. Some handsome insects of the grasshopper and cricket sorts were captured from time to time.

Up to this very few mollusea have been collected. Heliv seetzeni Hooh and II . comotidiasima Drap. were foumt in one or two places in Sinai. The latter was again met with in Waidy Chumblel in Edom, where I found also II. propheturum Boneq!., II. fition Mhass., and the handorome speecies II. spriviploma Ollic: On Mount 日or this last was frequemt, amd amother fine shell, IBulimus carnous I'fr., was here first found. Most of these lecame commoner down to the Ghor. At Petra, and in the Arabah, I collected aloo I/dis compitam Drop, a rare species. This scarcity of land shells is paralleted on the castern side of the Gulf of Akaha in the land of Midian, where Captain Burton speaks of them as very rare, and mentions that he only met with two species in four months. In its natumal hisfory this little known combry appears to be (judging from Captain Burton's work) almost identical with Sinai.

## CHAPTER VIII.

## Wâdy Haroux to the Dead Sea.

Tum month of Waily Harmun into the Arahah is somewhat mome than halfway from Akaha to the Dead sea. The watershed hetween the I ead sima and the Gulf of Akala is nearer to Akala. We entimatent its luwest proint at gifo feet ahome sea-level. It lies on the west side of the A malvah. At the month of Wally Haroun the Arabah is at its widest, heing alomit thinteen miles across. The total distance from Akala to the I ead Sea is 112 miles.

My chief detour in this part of the Arabah was on the east side, up a long valley to the Ellomitic platean with Mr. Armatrong. On this nceasion we returned to the Arabah liy a more northern valleg, Waily Ghuweir, which, from the ummerous renains of encanpments, tribe marks ("Wasum"), ant the well-wom tracks, appreared to be a leading thomoghfare into the Shobek country.

In this whidy are several springs, appearing, as is freguently the cmon, at the union of the sandstone and limestone formations. One of these springs supported a jungle of reeds with jalms and some intereating
composite species of luxuriant growth. Tamarisks, acacias, and mulk trees (Zizyphus) were in some profusion, and on each of these three trees the handsome prarasite, Lomentlows moncie Zowe., with its hamlsome red flowers, was a conspicnous ornament. It was seen only two or three times on the tamarisk, oftener on the nubk, but moch more usually on the acacia. Clinging to the reenls was an Asclepianl, Comumchem coutum Limu., whose range is more Mediterranem than the others met
 a shrulhly compmoite, Pluchea dimentichis $D . C$, reached a height of 15 fert. Its tlowers were insignificant. A red-harked osier, Sidlix curmonthylla Buass., and a poplar, Popoulus enpliratica Linn., which is perhaps the willow of Babylon, oceurred along the margin of the short-lived stream. Other species collected were-Eiturarin alfopiea Linn., Trithulus tomestris Limion., Fieus chrive Limm., Sinlsulat tetraymon Dil., and others less moteworthy. A very fragrant savory, Suturcias cumejolia Ton, and our carly acquaintance the "sekkaran," Hyoscyamus muticus Linn., occurred.

At the head of this valley Juniperus phenicea was found to be the tree vivible from the Arabah on the white chalky platean of Edom, and growing abmedanty. Burton found this tree luxuriant and abmulant at considerable heights in Midian three degrees farther south.

In this wady I gathered maiden-hair fern, the first I had seen since leaving Jeleel Musa. Caper (Copparis spumsu), I fyrium arahiaw, and Bowhthaid w-ticillota also oreurred. Bushes of nubk were somet imes canmpied with this latter trailing phant, with its pretty panictes of hlueish small flowers.

The Bedouns fold me that with the juniper trees on Edom oereme also
 fruit. This was, I believe, Rhens ofyemomethonites Limin., which the abovementioned traveller fomed almudandy in Midian. I met it sulseequenty in the Ghôr.

In Wady Chhweir I captured the first Batrachian I met with, Bucio vividis Limin ; roming water, the rarest and pleasantest of sights in these regions, was the source of this increased variety of life.

At the Ambah, alreast of the above valley, I examined some large bushes of Culligomum comosum L. Hor., a desolate, leafless, whitened; serubby species which often grows in shifting sand. Its ronts are heantifully adapted to secture its pmsition. These are woody, springy, and fough, very different from the bittle hanches, and almot a guarter of an inch in diammer. Some of these are seren or eight gards in length, perhaps much more, and beset with knobs at intervals, which are serviceable in giving them a hether grip. These excreatones may have leen due to inserts, for I afterwards noticed that this plant was much sulject tugalls ; lut whatever their origin, they servel the purpuse of the flukes of an anchor to hold the bush in a sea of shifting sand.

There appears to he a great rariety of gall-proflucing inseets in the demort. Almost every wooly species is liable to kmols and swollings. One of the most emivis of these apprendages was that frequently attached
(5) the common Salsola- a shapely lifte spurved and eoloured excreseonce like a solidified flower of one of our commoner wild orchids.

A minte crnciferms annual, half an inch high, leafless and with a siliele which formed almost the entire plant, was so fragile that it failed to reath home. The silicle valves had sepratatel, delisecing from the base upwards, one at either side of the septum.

In this part of the Arahah Pemerotion Sielbemberyert was frepuently gathered. At the spring of $A$ in Abom Weiridel, a little sonth of Waty chuweir, I obtained many old friemels. Populus emphration attains here food dimensions. No less than three romning streams maintain a brief but productive existence across the sands. I gathered here l'maspis stephaniana Willd,, Pulicaria arabica D.C., Statice pruinosa Linn.,
 and many more.

Several tmulhous species were obtained here. One of these which has floweren sinee my return has beon determized by Mr. Baker, Cigtimen undulata Desf.

 Astragalus Forskaltii Boiss,, A. acinaciferus Boiss., Rhamnus sp.?, Carthamus glaucus M.B., Androcymbium palestinum Balier, Allium Sinaiticum Boiss., Aristida viliata Desf., A. plumosa Linn., P'anicum trugidum Forsh:, with the usual desert species.

The mont noticenble foature in the animal life in the nomthem half of the Arabali has been alrealy mentioned. I allude to the extamontinars aloundance of small lowles and horrows in stome and gravelly sand. The vidultal surface reminhal me foreihly of the lemming hamis of Diseovery Bay, in lat. $81^{\circ} 45^{\prime \prime}$ north, where, however, all were due to one species with the exception of those of a larger rotemt, the stomt, who presed ufoun the lemminges. One would espect to timda camivonous motemf anlsisting on the ahumdant supplies herealso, lom nowe sull has heen as fet dismereed. The holes in Wady A mabah vary from small ant holes and lizand carhes to those of rabbit-holes, and one or two fox-holes (?) were also observed.
 and sami-rats (Psammomys) are the groupe representen, of which it is rery diffienlf to seme specimens during a huried march like ours. Conn Tristram, howerer, entmematus a considerable variety. One which 1 traphed here, Cietriltus aythomens Gif., was smul-coloured and the size of a large rat, and is now in the British Museum. It does not appear in Canon Tristram's work. This gerbille is a wide-spread desert form, from Candahar to Algiers. The holes of this species, and some others, are
 of chopped fragments of plants, leaves, seeds, and other remmants of vegetation. Ant-roads are also conspicuous, about an inch wide, and firmly and smonthly pressed down.
t'oreupine quills and deempused remains of heige-hngs were averab times picked up in the north end of the Arabah.

At A in Abou Weirideh sulh-fossil shells were ohtained in matl depats at ahout $1,4(0)$ feet alnove the level of the lead sata, of abuut loo feet
 Simeni Bontrg. hase been figureal hy Profesoor Hull at page 110 in his wonk already referted to. I gathered besides these Mdempisis Chemimenidar 0liis, atud M. ormita Trist. These are fluviatile or lamentrine species, and are all found still living round the Dead Sua in varimes streams and springs. The last-mentioncol species is very dare, and i did mot find it alive, but fanm Tristram diacovered it at the sonth-western Ghio: There marls, in the opinion of geolugists, are remaining deposits of an ancient lake or inland sea, of which the Dead Sea is all that now existi. From where we nows stomb to near the somee of the dorilan, abour 225 miles morthwaris, must have heen a continuous sheet of water in (geologically speaking) tolerably recent times.

Lower marls are very characteristic at an average level of 600 feet above the present level of the Dead sea. I searrded these marls for similar remains in many plates, hut always fomm them alsolutely hamen in recomds of the gast, and reyy ramely inhabited by any existing life. Feretahle of amimal. Tromks of palms, floated to, and then embedded in these marls at the hase of Thlel Uslum, form mo exception ; sime these may hate heen dhifted thither in times which are as yesterday compared with the "midule marls." The upper marls are fairly regetater with the existing flom. The natual comelnsion wonld be that the ancient sea, at first harhoming fresh-water inhabitants, lecame reduced hy a long process of evapmotion, on some other caluse, th about a mean height between its present aml its earliest level, and that it was already so salt that it was almost if not quite uninhabitable.

At this height, judging foom the extent of the middle marls, the waters must have remained stationaly for a very comsiderable perionl, white mos of the "मper mats became converted inten the lower formation by a lone promess of denulation. Prom the latterelevation to the present the subsidente has mo doulat been very recent, and is still continuing. The most recent deposits of the Deal seat are of comse porfectly barren, execph of mixed drift, or where thes have been converted into marshes or fertilised by the few small fresh-water streams.

But I autiequate in my anxiety to get down to the fertile (ihores Satieh.
At Ain Almon Weirideh a small thok of pintail gromse circled round the wells, but I failed to obtain a specimon. Subseduently I recomised the note and obtained the birl, Preromes semgalensis limen, at Bir es Getra. Its call is very peculiar, recalling the strange utterance of the Manx Shearwater.

On the night of the $14 t h$ we were risited with a thmmderstorm and a tremendons downpent of rain. Lain hat alon fallen on the Bra December, the day we left Akaba; this was our total from Cairo to the Thead Sea. The thander on the lath was gramd and eontinuous for about threequarters of an hour. Lightning flashed at abont every five seconds.

## CHAPTER IX.

## Soutir end of the Dead Sea.

On the 16 ith of December we obtained our first view of the Dhead sia anof desemblel to the plain at its somelhen extremity. The whole depressions in which the Dead fiea lies, 1,30 feet brelow ser-level at its surfice, is called the "Ghor," or "Hollow." On the first night we camped in the Ghir el Feifelh, and from the 17 th to the trath inclusive we were detained at the Ghor es Safich while wating for means of transport from Jerusalem.

This cuterced delay in so unique a locality was to me a must fortumate cireumstance. Previons visitors do mot appear to have obtained mote than a huried prep at the (ihor es Safich. The difficulties arise from the lumete character of the adjoining triles of Arals, who are constantly engaged in predatory warfare, the Ghoir es Safieh leang very frequently the seene of their comflicts. Our imaginations were kept excited hy continmal repmers and warnings of those fervilhe Korak Sheikhs, Huwaytats, and others who were about to demolish us. I had also read and heard much of the improsibility of doing any gond exploring work where an semot is always mocessary, ant whete the Bedonins were bent on phanlering unwary strangers. However, day after day I followed the bent of my inclinations frequently alone, climhing the eastern hitls, searching the jum_low and marshes, and collecting hirds and plants withont ever receiving the smallest annoyance.

The Chhor es Safieh, where we spent ten days, lies at the sumb-castern emol of the 1 ead sea, ahout 1,250 feat helow the level wit the Meditertaneas: It is watered by the Carahi river as the Feifeh is by the Tufienh, both dio. asembing from the eastern highlamds. Between these two mases there is a ship of desert. Both these streans were well supplied with water during our visit, and I mulerstiond from the Ambe that the dimati at least was unfailing. The latter is called also El Ahsi, Hessi, and Safi, and the Nahr el Hussein. Smith's Ancient A las calls it the Browk Zered. It is disstiSutel into numerons smaller watercouses for purpuses of irrigation les the cultivating Chawarnihech Arals, hy whose tented village we weote eneamped. There is anom her smaller village, callen, I believe, E1 Feifel. of which we obtained a passing view.

The whole distance from the base of the sudden descent from the harren white marls into the plain is aloout ton miles to the Dead tiva. The Ghor es Safich is about three to four miles wide. The upher cilat of El Fuifeh is, as I have sail, cut off from the lower hy astrip of desert, an mawaterel pateh of sand-dunes and Salsolaceas. On the cast the thit is fromdent by the highlamds of Atrab, and on the west by the bring, muldis, Larmen bei of the Tufith. Sitepp marl hauks, a comple of humbed fee: high, encluse it on the somh, while northwarals it gratually hecomes salter and swampier, with a diminishing vegetation to the lifeless mangin of the Dead Sea.

On the Moab cliffs, as also on the Judean to the west, the lower
declivities are flankel in many places with saline white mats to an uymer limit of cono feet. These marls are alsenlutely lawen in situs, but they are fant loine washed drown lig aquenns demmiations, and thus purified they are scattered by irrigation over the Ghôr. A minute beetle, of the [goms cochumb, whe a Alight exception to this harmentes, which is of outren intermpted in the bodsand hy the margins of the occasional wateremnes. This now species, when dersiphion will suheatuenty be given, is mot nearly allied to G. beccari Gest of Abyssinia.

The uppor thin is by me means an fertile as that watered by the larger aml mone nort hem stream. The laffer iswes with a sonth-weterly dirertion from a narmow Moft, of "sik," in the red sambetone by which I penetrated for a few miles into that desolate country. The river is here confined to the base nf the shapply eit cleft, amel confers uo fertility on the unaliened marls abeve. This eleft is 50 to 1.50 foet in depth of mome, and the perimal reprimal for its formation must place the manls ahose at a high antiquits. It shombla he home in mind, however, that the water stiphly is pmbalis now at its minimum, and the means of orosion were formerly now greater. The heal of this atream was in places ahsohtute dangerons from a curions cause. The side being vertical there was no upward escape, and the bed of the stream wak so deeply rthaged with the soft moving mass of silted tine bund that, at hough there was mot more than iA indhes of water, 1 was -ompellel, and with difficulty, to retrane my course. As usual when anything risky is attempten, my nadive deserteil me. At its cminoulhure from the cheft this remarkahle mream panass thongh the lower gravel and shingle deposits which form the hasement of the marls.

On this occasion, when crossing the marls aloove, I came suddenly
 11: hail cartrilge from my fowling piees, hut mined them. My shote atthactel mone wild and vilhinons-looking momtatumes, who followed me to camp that night, where I first became aware of their existence. They
 they hunt the "bedeu." Almost immediately after I lost sight of the Ihexe 1 eame acmas some very intervang and rather extensive mins of apparently great antipuits. I homght the whate of ow party to the gran the following day. The ruins will he foumd phaned and described in Pro-
 the batue at pace 216. 1 lease it to futme exphoress to itlentify this site with the ancient Gomorrah.

The following olmerations were ohtuined from Sheikh Seyd, of the Ghawarniheh, with regard to the Ghor: :-
"Rain generally falls on about ten or twelve days of the year, usually during December and January. Some years there is none. Nuch more is seen on the highlands on either side, which does not reach the Ghôr.
"They grow wheat, harles, Dats, thonrm (Borghma), imtign (one sont). tobaceo, and Indian corn.
"Wheat, barley, and dhourra are sown in January; Indian corn in Mawh. Tollam is aown in Jamary. Indign is mown in Mlarch. They grow
some white grapes on trellises. They do not know henna (Lawsonia) Zukkum (Balanites) is common, but made no use of. Nallow is boilea and eaten. Osher (Calotropis) is given to women when barren, or to procure milk, the mills of the bush loing taken. Waw-melons and cummiers are cultisated. Of the fruit of the Salvatura farak) they thake a som of treacle or sweet mixture. Never heard it called 'Khardal;' Khardal is mustard, but they have none.

- They (the Ghawarmileh) mosty leave the (iber ame go up to the hill comntry in the hotlest weather. Snakes and insects are very bad and very numerous in the Ghor at that season."

Ms inquiries abom salralufa were mate melative fo its elaims to laing the tree of the rand:Av-seed prable. I conlil get me compohoration from these Beatonins of this riew, tirst put forwand by Tothy and Manules, whus are mot, herwever, responsible for the statement that it is callen "Kharlal" (bumatard, now do they say, as has hown misegmoted, that they fromet the "Ghorneys" using it as mustard. The theory has not, in fact, "a leg to stand on."

Mr: Merrill, C.S. Consul at Jemsalem, has limully mate impuiries fos me as to the origin of the seed sown by the Arabs. He informs me they save it from year to year, but if they should run short they obtain supplies from Jerusalem. It is to the Mediterranean sea-board westwards, therefore, we must look for the home of any suspicious weeds of cultivation in the Ghor; and those which are not natives of this region
 the Ghôr.

No sooner has the river Hessi issued from its unfruitful ravine than the scene changes as if by magic. As it moistens the plain, an extensive growth of bushy, low-sized trees almost covers the district.

In the upper Ghor these are densely tangled and matted, almost to the excluaion of oher growth, and afford sheleer for multitules of homs. In the lower Ghor the trees are more scattered; often no doubt in the
 prowturage and cultivatiom. These treme are chiefly Acacias (Hhee sonto), Salvadoza, Zizyphus, and Balanites. There is also a Rhammus not un:frequent, and Mr. Lowne mentions Moringa aptera. This latter writer mimpuntes the anthons floty and Mangles, whom hee eriticines, when he ascribes to them the remakk that the oasis contained "an almost infinite variety of shrubs and bushes." Their words are: "the variety of bushes and wild plants became very great," a phrase which is well within the bounds of the reality. ${ }^{1}$
of thase trees the salvalona is the most ahmolant, and usaalty ermplice a slightly lower region than the Acacias. It grows in clumps, several stems arising together, branching at once, and all combining to form a single tree. It is very leafy above, with small entire leathery leaves; hadow is displass a laherrinth of gresish handies. The flowers and fruis
${ }^{1}$ I quote from Murray's ellition in the Colonial and Home Library, vol iv, p. 108, ed. 1884.
are small and mumerons. It attains a heicht of about 20 feet, a stmy hanch reaching to 25 or 30 feet. The Balanites (Zukkum) is usually a smaller tree, and is now in full frnit. Its fruit is green and wrinkled, somewhat like that of a walnut. Its leaves are few and small. The Zizyphos is the well-known side of thom of the Arahs, the dom when reachines a lange size. Its branches, strewed in lines along the gromad, form the fences to protect the grain from cattle.

Is the platin slowly lowers to the Dead sea, beeominges at the same time eradually movister, the regedation changes. The above speries deorease in the number of indivituals. Tamarisks, Osher, Salsolits, Prosophis, and Atriplices take their place in almodance of these, the Wher (Chatropis procera) is the most remarkahle. It is somewhat like a gicantic small-leaved cabhatre bush, with a stome infusion of catctus homet and the bark of a cork-tree-uttoly strange-lowking to Eumprean eyes. Its fruit, the size of a large aphle, is full of silk and air, and is pmothly the he ithentified with the "aplles of the Dead Sea." The drawing of these "trees that heren fulle faire apples, and faire of colour to beholde," by Sir John Mammeville, is by mo means malike the Osher. If the early thareller's figme stands for any real thing it is probatbly for this hush, which here athains a remarkable size. Of it the writers abredy quoted :ay: "We were here (Ghor es Satieh) surprised to see for the fint time the () shar plant, grown to the statme of a tree, its trunk measuming in many instances - feet or nome in ciromberenme, and the broughs at hast 15 feet in length, a size which far exceeded any we saw in Nuhia; the froit also was larger and in greater quantity." This remark is interenting in conmection with Capuain Burtoris, that the Oshow in Gouth Midian is "a tree, not a shrub," ("Land of Midian," ii, 206i), as though the plant was mome at home in the Eastern untinent. ('astor-vil (Ricimus commmais) is also sery emspichous and large ( 20 to 25 fent ), chefly in the same localities as the Osher: Other buthes are the leatless Leptadenia pryotechnica, and the pmplar, Populus emphatiea. All these were seen in the (ihor el Feifely alsu. A free of the lather, about no feet high, near the Dead Sea, is, I think, the largent tree in the whole Ghor: Oleambers amb Osiors are contined to the embouchares of the stream frem the momatains or farther up.

Is we approach the Deal Sea, oreasional swampls proluce jungles of
 Evianthus Ravenace $P$. de B., and Imperata cylindrica 1 . de B., mixed with seremal lyperacese, of which the most interesting were C. Amsimoites

 arabica) was from 4 to 7 feet high. Tamarisks, Sumedas, Salsolas, salicomia, aml Atripliees ate the last to fail. Tamarisk, Salicomia Lerhacea, aml a limppia mot in flower, probably li. spimbis, Lillog., were the very last ; the former all along the imer margin, the latter iwn where the mand of the sea is in union with that of the Thfileh estury. The latter two encroteh downwards upon the fonhidden area here, from
salt swamus to those which are ton salt, as they do upwats in onm own
 are too fresh.

A brief space, fifty yards or more, varying with the slope and the fulmoss of the hasin, is hamen saline mud or soml. This forehore is at other seasoms mater water, amd all which is liable to be summerget is Lasmen, except in the two instames abose mentioned on the Tufileh mud.

An interesting assemblage of sea plants is congregated around the Dead Sea. These are Sonchus maritimus Limn., Inula crithmoides Linn.,
 Limn., Sulsole, Suadee, Atriplices, Scirpus maritimus Linn., Fimbristylis dichotoma, Rottb., Juncus maritimus Linn., and Ruppia spo? (R. spiralis l: $/$ er. ? ). Gome of these at first sight will hardly fail to impress the solsenver with the idea that the regetation must recently have maler-:- one distinct maritime conditions: lut a little reflection will show that the visits of arpatic Lirds, and the prement suitability of the ciremmstances. suflice to explain their presence. Monenser, the must conspiemms are of the easily diffused pappus-bearing composita.

Findral of the moss interesting species were oltained ly pronetrating into the jungles in all dirertions. In the sery heart of these, Cymmelnm arontum was abmulant, bailing comvolvolus-like almote the reats. These jungles, and along the banks of the stream, were my best hunting grounds.

The Insuriance of some familiar Dritish aquatic plants may loe allubed to. The sea rush, as already mentioned, reaches 7 feet in height, Inula - rithmoides 4 in 7 feet, and Lympus cumparas, 5 to 6 feet in lheight, while "ricantic plants of Lythrum salicatia had rearhed a height of 14 feet:

One of my most interesting "finds" was that of a handsome acacia, A. Zeta Br., in the Ghôr. This species has not been recorded north of
 were sermeal trees of this very distinct spectes, which is much latger amb hetter furnished than the other acacias met with. An Arab to whom I silently prointed ont one of this sperties at once extlatmed ". sont." and promeded to show me the difformee in its leares amb frmit from that of a -..eral, its ne.jghomr. At Akalm an Aral, called a latge A. tortilis "sumt." It is an Egyptian name, but never applied to the "Seyal."

A few other remarkable species not noticed by previous botanists in


 spirutis R. Br. Salsoluceer (several), Digera arvensis Fiorsk:, Boerhavia verticillata Poir., B3. repens Limn., Eiuphorbia agyptiaca Boiss., Cyperus eleusinoides Kuuth., and some others. Several of these are distinctly tmporal, and ard to that most interesting gromp of them plants ahredy known to inhabit the "sultry Ghôr."

I gathered altogether at the southern end of the Dead Sea alout 22.5 infontifiable sjecies of flowering plants. The total there may reach 300 .

Many annmals and Meditertanean spring plants, especially of the Lectrminous and Cruciferous orders, were still in a young condition.

I hifer a fuller analysis for the present, merely remarhing that the floma of the Char, a mique locality, is even more interesting, and that in no mean degree, than it has hitherto been shown to be.

The chior has heen visited by two compritent botanists, Mears. B. T. Lowne in 1s64, and W. Amherst 日ayue in 1ste, hoth in Canon Tristram's compring. These gentlemen have, howeser, hardly deah with the casis of Es satioch. Mr. Hayne's essay, appented to Camom Tristranis "Tand of Moab," is only enough to make a botanist wish for more of it, while Mr. Lownés valuahle paper, pultished liy the Limenem Suciets, deale with the somh-western estremity of the Gihor, two dis derert wadies whase flora is the northern wave from Sinai and the Araball.

Althongh deenid of life, the sandy bearh of the Dead Sea mentioneal above was full of interest. On it were strewed salted remnants of a variety of insects, beetles, spiders, locusts, and seeds which had been thented from the (ihnir hy the rivers and promply kilted and case ashore. Sistoral of these were incmatiable, although of wo value as precimens. A better collection in the same place was that of shells. In some places these were thickly strewn, and I went throngh these natural musembs with the greatest care, obtaining thus several varieties not previously found in Palestine. Amongst these are Planorbis albus Mall., Limneou
 Firrander thommothita fourg, and a new species of thutimus.

The tamarisks near this were inhabited by a species of ant. These make their home, in parties of 20 or 30 , in a sort of purse of vegetable

 tropical, chiefly Indian, genus. Multitudes of little fishes, ('ypminoden disper liumh, as mentioned ly Triatram, Were seen in the sall ponds eleae by.

Although my visit was too early for many species of plants, yet on my sibst day in the Feifeh I found at once numerons limise not seen in Simat, of which a good mauy were both in flower and fruit. These must flower
 Mediterranean species, were rapidly advancing to the flowering slange during our sojourn in the Ghôr.

A good number of Sinai species occur in the Ghor. An effect of the moister climate on some of the woolly desert plants was noticeable. These becane very peroeqtilly les so in the (ihor: Policaria undulata, P. arabica, Tribulus terrestris, Verbascum sinuatum, may be instanced. Piosibly the salinity of the atmonhmere amists in this: the tembency of flauts tos lemome glatomus loy the seaside is familiar. On the wher hatrot esce-ive dryness appars to prowno pultusence in plants, as well as wher striking qualities of pungent ollons, gumny exudations, and conversimu of leaves to spines, all of which we may expmet to fime diminished if the species can accommodate itself to moister conditions.
 as great intwost in othey haumbes of matmal history. ('amon Triatmanis varions work have mate this fact faniliar. My pmondeed stay at an
 has made so peculiarly his own.
 which, with two or three exceptions, specimens were obtained. Some, esprovally doves of two sproies, and hullolls of the sot alrealy met, were extumblinarily abumdant. The deves were the Imdian ofllated furtle,
 lensia Lima.

On the Dean sica mul, redshanks, lapwings, ami samppipers flitted and fed, hut they were contine to these patse of the matgin which wete thulpered ly fresh wator. Suipe, water-mails, aml lueks of British soms were frepurntly met with. Marsh spartows in great flocks ahen keph hear the shore. Buntings and larks of tlree sorts were in vast numbers
 on the margins of the (ihnir, where alow the thichace was shot. Shites, "boomey" owls, marsh harriers, buzzards, sparrowhawks, and kestrels
 anncht the ear, as did also the excessindy diacomatat crahking tome of the Fimyma kingfishe: The hamiful litale smaliod amd the gamis hluethroated smbin were ahont eqpally common, the fommer wally mequenting those acacias which gave support to the handsome Loranthus. Several other warblers were observed, but for most of these, as well as the swifts and others, the season was too early. On the upper ground at the edge of the thor several pairs of dimet dhats of two of thee himb might he always
 spmeses of Palestine who mught to travel somth fom the deveralem flatean in wimtor fomml here a combeniently cloce and sulficienty watm retreat which they utilise in vast numbers.

Burrowing animals still give evidence of their abundance. Traps set
 rediscover them. The traps were strong, and I trust they snapped on their meddlesome fingers. Jackals kept up their high-pitched scream thromglont the night. Bedonins, hantams, jarkats, ahti jawhemes hase all probliarly hifh motes in the (ihme. They hend tugether in a shrill minem key chiefly when they ought to be asleep.

Fresh boar tracks were always visible; on one or two occasions I heand the animals cmalimg in the jumgle chase ahead of me. Hreses note seen in the ravines close by.

There are many cattle scattered through the Ghôr. These are chiefly
 breed, while goat-like sheep and sheep-like goats with eais hanging 6 inches below their snouts, are herded evening and morning. Donkeys are more numerons than ponies ; there are very few of the latter in the possession of the much molested and peaceful Ghawarniheh.

The Bedonins supplied us with poor milk and very small eggs.
Insect life had as yet hardly awakened. About half-a-dozen species of hutterfles were uhserved, of which some were Ethiopian forms. N."npions were still topplat. Mollusts, exept flutiatile, were sampe while Botranhians and lieptilia might have loen almost mon-exintent with the exception of the Lacertide.

I very nimble fresh-water of rather marsh cath was very ahmmlant. Ton this animal was due the multitule of homows amonges the bufts of Innens maritimus near the Thead sea. Twice I simw them disappeat with imeredihleswifthess into these holes, which were of varions sizes, amd of su —ुeat a depth of lemeth I could mot manally dig them out. Sesmal that I did dir ont were hlind of empty, ame at first these lontes pazaled me lofoml measure. 'The total absence of tracks on pats leading to them artested my attention, while their widely different sizes, both in lemfth amb diameter, surgested somethines altogether new. Those crabs 1 whtamed were hy means of the Bedomin lats. The carapace of the biggest was ahout is inches by :3. They are grey in the gmong state, Lut attain a redlish tint when full grown. The sprecies is Tifflemse (I'atommphition) fluciutilis Serfign. One was killed in our camp, showing that they ramble at night away from water on marsly places. This cralu extemets through Eegpt to Mgiors, and necurs also, I believe, farther east than Palestime.

At the time of our visit the mean diumal temperature was about $50^{\circ}$ Fallr: There is momisersal theck to regetation in the lihor. Acacias.
 Dalanites were learing fruit and flower now in the coldest season in the tropical fishion.

Before we left, the sun was just beginning to "braird the lea," and there was a deliwate hate of green preveptible arvoss the ill-tilled soril.

The river, Suil Garahi, alias Ilessi, was well tilled with water, and on several occasions we enjoyed a swim down the swift deep rushes at the immer elge of the plain. Ihty and Mangles, I think, fomml this riser dry on their return journey from Petra.

Befone hidding farewell th the Ghor I shond mention one strikins permliarity in its floma. I allmhe to the great number of speries eompareal with the number of imtiviluals. If those few gregarions kimis (chiefly trees, grasses, and shruhs) alreaty mentioned be eliminatel, the remaining sorts would very often depend on a few plants for their claim to a place in the list. Hence a brief visit may give rise to many omissions.

## CHAPTER X.

## Gioor fes Safieit to Gaza.

 the Ghor es rafich. As we pressed westward near the somth end of the

Dead hea some interesting features were onserved. The waters vary in their surfare level ahomt :3 feet loetween the lninf wet promat and the minimum level. During our visit they stomel at a low level, and the drift of timber and terrestrial shelis showed an mper margin at a miform height in several places. Wheme the shome slopes rery gradually, as in most places roumd the sonthern end, this variation in depth is sufficient to leave a wide space of foreshore meovered. This was very noticeable during our journey along the base of Jehel एshlum, at the semth-west conner of the Dead Saa. The water was there abont fino pards from the line of drift. [naide this was the nsually travemad track along the hase of Jebrel I'solum, :and ahore, about 7 vertical feet higher than the present high-water drift, Was an ohler well-matked margin looking rery reemt and puinting to a still continuing evaporation of its waters in excess of the supply.

Lugs of palm-trees frequently marked these margins, and these were sern embedded in a drifted position in the marls of . Jehel l'slum as murh as 27 feet above the highest level now attained by the waters of the sea. Palm-tree trunks were also secn along the river Tutiteh in the (ihor ed Feifeh and lower about its estuary. These were poohahly, from their afymarance, forn out of its hed during a flome in a semi-fossilised momditims. Thus the subsidence of this spa has comtimued amd is cont imbing, and earlier deposits ate heing continually carried down to form mone recont omes and (o) fill up) the (atvity. Most parts of the theal Seas smoth of the Lixan are rery shallow. In two plates, when looking for a swim, abreast of Jebel I silum aml moth from the Ghore es Satieh, I wated out several humded sarals without getting water above my lanees, and the water, like that at the momth of the Joman at the other entl, is matally tmbit. The work of realamation stemlily pooments, and as the seat is known to he of very considemallo theth (200) fatlmms) in wher places there is ahmolath romb for the inflowing sediment.
of Jehel Cadum I have given adeariphtom to Professon Hull whidh has apprated in his aceonnt of onf expedition. It jmoved, as it lowked, to the of little Intanical interest, and I shonld not have climbed it hat I mot seen it staterl in several phaces that it was inacessible. The plants fomme on
 beinge a have flat with a slight central rifge of harpen marl-the cap of The rentral ene of rock-salt. A comple of solitary tamarisksocurred and several Salsolaceæ. The latter were Nocea spinosissime Moq., Atriplex
 S. foetida Del., and S. inermis Forsk. The "mountain of salt" is, in fact, well charanterised hy this onder. Several of the almee are additions to the flora of Palestine. On the western slope a few desert species of the ordinary and familiar types were onllertend, amd these gradually incteased (e) the base at the Mahauwat Whaly, whose floma has heen atready the sul,ject of a special paper ly Mr. Iowne. This writer gathered here, and in the meighburing Whay of Zaweimh, eighty-two flowering precies chiefly of the deant sorts. These are all, of almust all, either sinatio of enewr in the Wâdy Arabah.
 a large size here. The latter was about is freet high, close to the thad Sen, at the conllumee of these two wadies. Zilla mgogroilis Forshl was here in flower, hearing a prefty liftle blossom like our Cakile maritima.

Thuring the ascent of Whly Zuweirah to the plain of somuth Judea



 A large hull, Crgineme Seille Soain.?, now only in leat, marks well the transition stage from the Cihor flom to that of the Julaman witherness. Besert speries, as Fagmin, Zygophylla, Retama, Acacien, Ressedaces,
 for the mos part taken leave of. These aseended perhaps a thisal part of the dimb, sereat ceasing at abont the oid sinacenic Fort. Tpwands, and (17) the Julam phain, a great change takes phace. We found ontantes ere long on rich lamd arousing itaif to a spring growih, ahhomgh the most inclement season was not yet reached. The need of water is of course everyshere appment. Withened remains are scareer than in the desert, aut the groment is often hare for considerable spaces, of with a fow cerls patches of species to bee presently mentioned. It heromes dififonlt (6) recall the existence of the camtigums (Ghor floma with its peremial Inxuriance. Itardly a lmah and no trees are whered to hreak the mometony. Travelling still west wards, evidenees of culcivation, that is 1.0 any of the snil being "scratched" and sown, appear. Soon after Bir" es Seba,
 conerel with sowers and phoughers, hut werwise monotomons in arpect, as the cretaceous limestone formation usually is.

The बlocies firan almont at the heat of Waily Zuweitah and upwards to Bir es Sela were numerous, many of them spring Mediterranean specien just ofrening their flowers. The fultuwing were conapionous:-


 Linn., Senceio coronopifolius Dcl., Scorzonera lanata M. IB., Calendula arvensis Linn., Achillea santolina Linn., Anchusa Milleri Willd., Cyclamen
 alysson Linn., Salvia verbenace Linn., S. controverse T'en., S. "egyptieca Linn., Eremostachys laciniata Linn. (in leaf only), P'aronychia urgentea
 bright-flowered yellow and blue annuals.

We were now travelling on horseback, and I had no longer the same facilities for bertanising. The pore was nenally toon fast. My metheal was to heop well aheal till I reached some inviting point, and hien dimmonat and botanise, usually holding a rein across my arm. The result was that 1 sus hamally left far behmet, or in hot pursuit of the garty. Sinnetinnes 1 lowt my way aftoge here. It would have needed a botanical circus
rikler to gat on and off his horse with comfort as fast as new flowers occurred.

Several mosars and lichens were gat hered on this march. The mesens were Tortula muralis Linn., Bryum atropurpureum W. and M., and a

 Pscummomys obesus Rupp., appeared to be the most abundant. I emparad examples of the latier two, which are now in the British Muscum.

The mole-at, the A -iatie represcmative of the English mote, thongh of a very difierent family, is a strangely ugly lithe mimal with long frotuberant teedh. Mr. A irmstrong showed me a ready way of ohtaining sparimens, which at tirst sicht appeared to he hopeless. Itis plan was to watch the freshly up. lifted heape of suil which are raised in line at shont intervals, and motice the directions the animal is lourowing in liy the relative fresmess of the heaps. Som a slight movement will ine oherved in the freshest heap or leyond it, and on firing a charge into the gromel It unwe, the grum about a foot from a point a few inches aheal of the moving place, the animal will be stamed and may be at onee dug out, probably alive. I tried this plan twice successfully.

A luff-moloured suake, about 3 feet long. Zmanis atrocives Giveg, Wur killed in the meightourlinod of Tel Ahou Mereireh. Ciewos and touls were also caphured. A lown and grey fox (Volpes nilotion!) was
 Propp.) in a gulley near Tel Alou Hereireh. It measured 2 feed 4 inches from the 1ip of the mase to the tip of the tail, the tail itself lming 1 foot. It was of a greyish-hrown colour, brindled with samly hrown aemoss the lack amb down the sides. The tip of the tail was ringed with black. This is smpposed to the the cat found embatmed in Eegptian monumente. It is fommetalong the Nite, and as for south is Alyyssinia.

I spont as umblh time as I could in diyping up louths. Of these there
 swout iris, with large flowers in tints of haff and French grey. Cubhimen monneuman Lian oecorred in the greatest aboulatee, white or pale
 rumusus Limn. were must aloudant, inereasing westwaris in Unas.
 frequently appeared.

Alont Tir es Sela the hirds olservel were crause, hacks and white Eorice, buzzards and kites, trmopeter hullimedues, pintail grouse, (itee k Partriilge, hatack-heaved gulls and lapwinge, as well as several desert lankennt hats. The terdmioal names of threse species will suliempently to emmonatel. The competing of the crane was hemed frequents, umally at night.
A) Tel el Milh, in a swamp, a flock of teal was flueleel, amd a number of the harke or Sardinian starlings came to roust in the ru-hes. Their these is different from that of our species. A snipe hambenmely markel
with white, as seen in flight, with a rich hown hack, amb showing visit green tints also on the "मりrer surfare, was mufontmately missal. It uthered a peouliar quacking ary, aml I hat several growl riews of it, There were thee or four hirds in the marsh, and I have mo doult it was the painted suiper, Rligucher omponsis himn., which has mot previou-ly been known to inlablat Palestine. It is a witely sprad speceies in Africa.

The ('ylamen amd the Chldicum are constantly exciting our ahmina-
 lomigus Limu, and C: lucigutus lionn, var. jumiformis, were collected.

A fature noticed ly all travellers is the abomdance of snails on the small shruls, chiofly on Anabasis articulata Boiss. The commomest of

 Conrad., II. candidisszma Drap., II. Boissieri. Charp., and H. cavata Monss. H. cavata and H. Boisnieri are the finest of these spectiss in size, the latter boing a heary solid-shelled smot. H. tuloweulosa is trochiform. or (op)-shaped. This spedes and his flathemed hother, $/ 1$. Loderei IP: gathered het ween Gaza and Jafla, are both satace. They are the prettiont. being delicately mitred and foliated at the whorls.

The hack-headeal gulls, and nu dombe whers of the birds, suhsiat on these molluses.

Guntinual evidence of will boars ocelored, and some of mur barty had the groml luck to whtain a sight of a "soumber," or famils party. They seten to feed chiefly on the hulls, of which some large kimhs are mar-vellou-ly plentiful. An Urginea (pobably $U$. wmlulutu) was smbht after esperially, so that it was with difliculty roots which they hat not mashed were obtatined to bring bome. It has since flowered, and in the absence of leaves is douloffully referred to this species hy Mr. Daker. L'rimea Sidla covers the ground for miles, and grows sometimes to the exclusim of everything else. It appears to be a scomege to the fellahin. Great heaps of its hulbs, the size of a melom, are often met with, and lines of its grow hat oombumly left to mank off cach cultivator's allot ted spare. Asphodetra remosus limes is nearly as common. The brilliant antmone (A. curtancria Lima.), the "lity of the fied," was pieked in flower on the last day of the gear: 'The curions stringy Thamina hirsuta, whase ace quantance I tiest mate on the shores of Imintisi on the out ward journey. is profusely common. Fetween Bir es Sicbat and Ciaza the species man in growth are almost altogether of the Meditemanean type A fuw deant species vecur; but chiefly of a Symian of Mesopotamian chatacter, as Caylusra cancecons, Deverta tortuosa, Alhagi matuormu, P'y, mum harmala, Citrullus enlocyuthis, Artemisia herbatalh, and Anabas articulata.

The miveral "rimth" (Analmasis or Salsola) of the Simai Pedonin is called by the Dulneriyeh Arahs "shegrat." It may be that the Arabs put off impuiries from one whom they poreive to be untearmed in their banguage with trivial and unmeaning terms; lut the results of my shom experience would tend to show that little importance can be attached to
these locel mames. Different trihes and phaces yiedded different terms, so that on omplating my collection of Amh phat-names with thase given hy several other writers, hardly two were identical, or even alike. In the Serbal district of simai, Widy limuthi takes its name from the Amabasis.

The suft mote of the trompeter bullimeh, rising and falling as if bene on the wint, while the hied is comedeal on the semmul smmewhere duse hy, often arrested my attention. It was impossible to tell whether it was ten yards or ten times that distance away.

Travelling west past Tel Alou Hemeirehto (iaza, the following phants

 Erucaria microcarpa Boiss., Capsella Byrsa-pastoris Linn., Polycarpon
 Ononis serrata Forsk:, Irypericum tetrapterum Freso, forma., Erodium hirtum $F^{r}$., Bupleurum linearifolium D.C.?, Carthamues glaucus M.B., Thoincia tuberosa D.C., Tolpis altissima Pers., Scorzonera alevandrinu




## CHAPTER XI.

## Gaza to Taffa.

At Raza we were kept a few days in quarantine hy the Turkish anthorities. This was not hecanse we were deemed infections (the itea was ahourd), but to lesy a tax on our puses. By the prompt interference of Lombl Dufferin, British Ambassulon at Cinstantimple, to whon we celographed, we were released in four days insteal of heing contined for a fortnight.

This delay was to me most valuable, as it enabled me to sort my rapidly made collections of the last few days.

On our last day, haring litemy on leave quarantine gromm, I gathered a grome many spreies smuth of Gaza which I had not seen hefore. Many of these belonge to well-known Meditematmean types, but there is still an impontant admixture of dosert and Exyptian forms, belonerins to a somewhat more southern group.

Gardens of fruit trees, olive groves, and enclosures hedged by the miekly prat (ofumtion mulgaris hima.) reacheal our samp fiom the inland side. On the leewand we were hemmed in by high samilhills, the van-
 winds, which is gradually swallowing up Gaza, old and new, as well as a long belt of coast north and south of it.

Some laborious journeys across this belt of sand, often three or fonr miles hroat, impress them vivilly on my memory. They yieleded exceedingly few species, being as a rule completely baren. i may
mention Sitene succulenta Forsk:, Scroplularia wanthoglossa Boiss., Euphorlia terracina Linn., which grew well out on the dunes.

Thoner smbls are effecting a steady and enomons change along the const. It is diflionle to reach what is left of Ascalon, which remains on an insulateit patels of rowsy ground by the sea completely cont off intand. Little of it is loft unsmotherent. Asluden is undergonig the same fate. Gaza retreats inland in front of the arenaceous sea, and it is only at interrals, of loy ascending some eminence which is ravely met with, that one obtains even a view of the Mediterranean. This was to me a keen disappointment, and I sighed for the reality for a cliff-gint mast like that of north-western Donegal.

In and atront the finsa olive groves several hiods familiar at home abomeded. Others onemped on the plain hard ley. It was refrolhing in hear theif wril-known wices in this sfrange and inhospitahle lathe. There were English spamonss, swallows, humtings, goldfinches, hack reblants. chaflinches, stommothats, willuw-wrens, and chiffichaffs, Dlackhimls, and hombed crows. Oh hee hinds seen were Egyptian kites, Inzzards feommen speries: "homey" or little somthern owl, red-hreasted Cairo swallows. pelicans, dumlins, calamhat and cresten larke, bulhuls, frien chats, and MEnetries' wheatenr.

At an estuary about four miles south of Gaza, and up a flat wâdy leading to it, I ohtained several goond phans. This would be eapital gromul to lootanise at a later season. The following are the most in-










 comblomitess liath. Some of these as the castor-nil, the little ammalous desert Neurada, and the toppical Boerhavia, print to the great heat of Gaza.

The trees alomit Gama are chiefly date-palus, wives, syamome fige caroub (Ceratonia) or locust-tree, and fig; a very handsome tamarisk ( $T$ : articeluata lahl.) reaches a height of 30 or 4n foet, and has lonighe green foliage very refrelaing and trome-like aftew the dull grey on lifeless green of the desert. The olives are of enormons age. They newally hase unluantued trumks. 2 of 3 feet in height, then pertapes divided, and at 7 of $\&$ feet the leafy cunope, lnowzed lielow tha level height by cattle, hecins. The average hoight of the thee is 20) tw 25 or 30 feet. Old treas have ofton mere shells of their trumks memainine. I mentured the iwo larges I saw, a few miles north of Gama the ir right

Was 15 and 21 feet respectively at 2 feet from the ground, a size which was maintained, or very nearly so, till the trunk forked.

At Ascatou, which Lamrence and I visited at a gallop just hefore dark, 1 gathered Culpontome villosa Lim. in the sands, a pretty gellow shrublyy ! ma-flower. Ascalon is a wilderness of shifting sands. The small space of remaining earth is inhahited by a few Arabs, from whom 1 got my first Tewish coins. Several pillars of marble and hlack granite lie ahomt the ruins of the crusading fort, but none are in position.

Frequently dogs with mumistakable traces of jackal parentage were seen along here. I was assured it is by no means uncommon for these animals io intertereed along this part of the Meliterranean seabeard.

The chief crop showing is of lentils. I saw bean-stalks a foot and a half high in the first week of January.
A. few of the comumonest Fritish phants, as Capsella Bursapastoris. Silene inflata, Convolvulus arvensis, and Rumes uhtusifolius, oemr atong here.

A handsome tree infroduced from the East is very common. It is the Melia azelerach, or Pride of India. It is decidums, and mily hearing frmit, as I saw it, along the enclosures or by the villages. Lyyium europerum
 fimis., atul I. crutifutions limed, are the larger plames, which help to stop up the gaps in the prickly pear fences.

At Yeledne, and thene to Jafla, A Comissus Theathe Lime was in flower: Anme damplaw lying patches were white with it. Ofher sprectes wore


 gremetan limiss. The Lictem hrom was in flower, very pmaty, white amsegated with-purple I fonmi it onee previonsly in hlow in the desert. ${ }^{1}$ Larosonia alba Limn. (homma) was seen several times, but usually here (as at Akalat) either in or on the rerge of enclusares. No dmbla is remains from ancient gatens at Engedi, where it is, 1 helieve, almudant. It is native much farther east.

In the gardens next the hotel at Jaffia were some very interesting plants. I did not learn their history, or who made the collection. Fimme of the Rinaitio sand Dead sica plants were there-the hamdsome
 vatiol plant in lom aomotries, hot perhapes originally intioduced from Larlia. The sinaitic (Emmphomarpos, a milky asolephiad with pods full of Eilk, inne of the mont remarkahle species in the peninsula, was here alson: is dillomal, hawever, from the Sinatic plamt in heing shothlly amb ahout
" This is the Hebrew "rothem" or " rotem," translated juniper in the old Thatememt. The shme name (Retuma) is applied to a speries of a cluerly allied combs, the Spartocytisus nubigenus, of the middle zone of regetation of the Prak of Temrifice as 1 learn fiom Mr. Musele's "Not.s by a Aaturalist on the - Thethemer.'" p. 5.

If feat high, while the desent plant averaged from a foot to a font amb a half.
 handanme parple woilly lavender just mentioned), and quite a coillertion of Acreins and Minosas, with oranges, banamas, intliarubbeer trees, fonpalus, Eucalspus, Mesembryanthemums, and many mhers made up a tropical garden which will well repay the traveller's visit. I was preculiarly interesteal to see my Boncernia from Mont Thor here, a cautus. like plant, which seems to be a new species. Can it be, like the Dolidhes, an ancient weed of cnltivation? When we lei ihe mind an hack to times of ancient civilismtion, to the traftie and morchamlise of pilgrims, monke, and Bedonins, of Tamelites and Phomicians, Pharabls and Ptolemys, (iveeks and Romans, Turks and Crusaders, caravans aut ships laten with fromb, with gums, spices, fruits, and wares during the whole history of mankiml, we must refleat that many plants we new view as inhathitants, coperially those of any eemomic nes, may have hailed oriminally from remme sources. Speculations of this kind, at once so metertain and so mupalatable, had hetter perfanps not be indulgen in. They can only lead to doubt and discussion. Granted that the "osher" is knewn by the Bedonin "Doetrine of Signatures" as a plant of domestic value, may we not theorise as to whether wandering tribes have not entied it from Midian or Nubsia to Sinai? from Simai to ite fer northern home in the Ghor? and so with many others. This line of thought, which these gaviens naturally produced, may, I thinfe, esectit in rare instances, be better dispensed with.

The gardens at Jaffa were fully supplied with its owu brand of most excellent oranges.

## CHAPTER XII.

## Jrersatem.

Butwers Rambleh (a few miles from Jaftin) and Jernmatem, durines sum ascent of over 2,000 feet, many fresh species orentme. The chief chanyes in plant life lay in the great increte of low shrubly regetation in the limestone hills and terraces. I havl little time to hotanise, hut with ham galloping to make up, for delays 1 secmol sermal sorts in comblition to be studied. An oak, Quercus coccifera Linn., and a handsome large-
 frees or lmakis chatacteristio of the meky regions alove the plain of Ramleh. A large daisy, Bellis sylvestris Cyr., similar except in size to our own Bellis perennis, was in flower. The handsome locust-tree, nsually here of only the thathre of a luash form teme cut for firing like the onthers, is sers frogment. Its rich dark grean pimmate foliage is well Known to fravellers in somthem Eumper, where its pods are much used t. feel cattle. This is supmed to be the "lucust" of St. John. At kirgath.
jesrim a solitary date-paln owems, and I was infirmed at Jernsilem the: near this a clump of native pines, Pimus halepensis Linn., exists. Maiden-hair, ceterach, and the sweet Cheilanthes, were the ferns gathered, thiefly amongst the limestune clefta atove Babel Wat. A handsome sege. Cecteintritobe I., was in flower, and seremal other laliates, as Ihlomis af??
 Teucrium polium Linn. were collected. A bryony, B. sypiaca" Boiss., and a beautiful clematis with dull purple flowers, C. Aishimad Limm. traileilalong the roadside walls near the villages. The leatless Epheedra athd Asparagns still help to increase the variety. The sping-thanched
 dirube, are not uncommon. Other less improtant plants me-licocie


 O,masmen syriem Lab. Most of these are common about Jernsalenn and Bethlehem.

The hirds noted were almost emtirely British flecies. Of these the wheatear had mot heen seen before. Naxicola Loyms Laikt., and I think 8. finsehii llewgh., were eastern chats mot seen since leaving the Ghir, but here not unfrequent.

While at Jerusalem we came in for an unusually heary fall of show, lasting from 20th to 25 th of January. There was therefore little to io done in botany around the Boly Cits. Fortunately we had amomplished our pilurimage to Jericho before the snow sef in, which gave me an oppontunity of comparing the northern with the sombern cihbr; or hollow of the Dead Sea.

A bout Jerusalem, but especially along the tiny aqualuet het ween the Pools of kolomon and Bethlehem, sone phants were in thwer. Lionlimen







 verticillata Willd,, and Avena sterilis Linn. ; as well as some common Britial plants, as Nosturtiom oflivinule li. Br., Ciruarium glomenesm Thuill., G'eranium molle Linn., T'orilis nodosa Gert., Rubus discolor W. \& N., Veronica anagallis Linn., \&o V. Beccabunga Linn., will serve to give botanists an idea of the species occurring at this season.

Jerveatem, 2,400 feet ahovesen-Level, falls within Bussier 's "Plateans sumtivision of the Oriental region. His "Floma Orientalis" deals with the commerices from Gisece for halia in a with of alsomt twenty dyerees of latitnde morth of the toppiss : and he divides these into (1) Meditemanean. (2) Midule Eurntw, (3) Oriental, and (1) Liegim du Dattier [ow Dewot

The Uriental is subdivided to Plateanx, Aralo-Caspian, amd Mesopntamian: In the first of these sulnlivisions of the Oriental region, Jemsalem amb Damaspus amd the districts aroumd and above each of these cities ate placed.

The elimate of Jernsalem is milder and mome Mediteranean than most parts of this suh-region. The date-palm, thomgh not mation mot able to ripen its frnit, can exist, and grows to gootly dimensions, at aridenced by one well-known tree. Ohers ocatr a little lower towarils Rombleh. Bere and at Damaseus, as I subsequenty saw, the prickly pat is natmaliset. A "pipi" tree, Cisatpumin rialliasio, a highlaml species from Bumbs Ayres, was amongst the few onltivated species noticed in a meoginathe combion. It was in flower bemeath the windows of the Mediterranean Hotel.

From an intelligent tesitent at Jevasalem I ohtaineal some infomat tion of the rigetahle problucts of its meighbourhood which may, I thinh. be deemed reliable, and gives an idea of the climate.
"Frost, though ervoring ammally for some nights usmally at the embl of damary, rarely lants thronghomt the day, amel hardy prenetmate the soil [where there is any].
"The sveanme fig, orange, mandarin mange, and lemon, which rifua their fruit so well at Jaffa, will not do so at Jerusalem.

Jaffa. Pomegranates and nectarines do fairly well at Jerusalem.
" Bread molons [Artoearpus integrifolia ? and water melons, whichs attian a weight of 20 to (3) promels at Jafla, will wot ripen at Jernas lem.
"A small plum, like a greengage, succeeds better at the elevated ation ; but strawlomies, apples, and pears have all heen masuctosinll? tried.

- ()libes bear well about .Jemtealem, esperially after a winter of smens
 sometimes damages the fruit much.
 for comking purpuses [and I supprese for alulterating the dive oill. The
 after wheat and barley."

Cupressus sempervirens Linn., var. pyramidatis, the funereal cypress, attains a groat size in the eptanale botwern the muspues of Omar ant El Shkat, hut far finer tras were seen later at Simyma. The "Pritie of Wales tree," Pioms hertaponsis Vill., pminted out lyy this name is the tren Hhe Prime campod mater, is the linest tree near Jomsatem. It is ahmi 50feet high, and well fumishat. Smallew whes metur at the Ammenian eonvent.
 cruciatum Limn., parasitic on olive-trees, and known elsewhere only in somh hom Apain. Mr. Amustrong, whomas altays willing (when his dutios fromitted lo ave me a helphig haml, bronght me spmimens from the Valley of Jehoshaphat.

During the snow at Jerusalem a gazelle was shot within a mile or two of the city. This was, I believe, a very unusual occurrence. I saw the animal immediately after its death.

## CHAPTER XIII.

## Jemicio and Nortmern Gitôr.

Os the 14th of January we went down to the Jordan Valley. Immealiately aftor leaving Momot ()livet. I foumd ahmolatue of Ambiot....
 abreve tiof fihm: It is a stemless white-flowered plant, small hut leafy. and with mather large flowers of mat patiolar beaty. It lwelome to the
 that leoth formul this plant clome to Jerusalem, lut that after careind search he (Barbey) was unable to rediscover it. I am thus able to confinm linth's remme. Mons. Barbey's risit (Apil B! was prothas fon late for the species.

On descending even a slight distance to the east the climate at once impmoves. Bethlehem and the meightmmheod of solomonis Ponls ane distimety milder than olomsalem. Wiegradually travel from mid-winter into spring. Several plants med with leforeas we climbed ont of the fihor ley Waly Zuweirah, are again in floweras we desemd. Fomaria, (arrifh-


 Astragalus cullichrous Boiss., A. sanctus Boiss, var., Trigonella arabica


 and others. These ate montly small bightooloured spming flowers.
 ..ll.am Limn. (in flower), Prosopis Stephaniana Willd., Reseda pruinosa
 Lions. var., athl a fow mote of the swhthern (ihor plants.

We are again amongsi the matls, and befome long thase of the goofeet
 - dodes, lee traceal, hat evidently far mome ommpletely denmiated in thi moister and more fluviatile district. Lower marl-terraces occur, but various searches failed to bring any more sub-fossil shells to light. Cammi Tristram has gathered at ent feet in the marls near here shells anatical with those obtained by us at Ain Buwerrideh.

The finta of this prat of the Jomlan Valle! is for a certain extent a metition of that of the southem Ghor, but many of the interesting - p....in are missing, and others of more familiar types take their place. Widespread European species are much more numerous. Common

British speries of Draba, Capsella, Thlaspi, Nasturtimm, Rulos, Helusiadium, Malsa, Cialinm, Vemonica, Mtentha, Solanum, Lythmun, C'ichorimu, Vertrena, Emphorbia being all met. with, in ahout the total of tive species in the northern Ghonr to one in the southern. Nor did the season at . Tericho appear to be more advanced than that at Es Safich.

Jericho and its meighmorhod have heen amply descmibed by many ahle writers, and its butany has been well illustratel hy Mhns. Garbey in his work already referred to. This latter visitor has not, however, enrected one statement repeaterlly made hy barions thavellets, that of the anciout palm zrose, extending for sempal miks around Jwithe, there is lun existing representative. Thome is one date-palm, 20 feet high, at Gilgal.

 nueuie Zucc., Calotropis procera Willd., and Populus cuphentica Oliv., the lattor being abombant atomg the Jomlan. This poplar is remathabe for the extramblany variety of shapes in its leaves, especially in fonme the amb spplings. In full-whwn trees, like the one desoribed at the (ihos es Salioh, they become more uniform ; ovate aml slightly incised sometimes at the base, or faintly lobed in a wary fashion. No trees were seen near Bericho in a mature condition. 'Lamarisk and the "zukkum," or false balm of Gilead (Balanites), are very abundant here. An acacia near
 It was a stunted bush, and our old friends the acacias of Sinai and Es $\therefore$ \&heh have all disapreated exeppt the P'mophi stephania, a small megect linte shmb. This little ill-farmued ana ia, whieh thribes hest on saline
 the a gall or deformity of same kint that it vas nom until npening it and obtaining its seeds I could believe it to be a natural growth.

Bananas, oranges, and a few sugar-canes are cultivated in the Arab, gardens at Gilgal, the modern Jericho.

The omitholag? of the Jerieln distriet runs in parallel lines with the botany. The European sorts are much commoner than in the Ghor es Safieh, and the tropical and Asiatic forms grenerally less so. Only one couple of sumbirds, and but a few of the "hopping-thrushes" (Argya squamiceps) were seen. Shrikes wore few. The palm-dove and the collared turtle were not scarce, but they were not as one to twenty here compared with those of the more southern oasis. A few bulbuls (Pycnonotus renthopygus II. \& Ehro), pied chats, Saxicola lugens Licht., and desert blackstarts, Cercomela melanura Temn., occurred.

On the other hand, English robins, jays, chaftinches and wheatears

 bolwins, Tombes ilimens Lime, was shot at Ain es sultan. This hirel has mot previonsts haen ohtaimed in Palestime. hat it is likely that the ware of unusually severe weather, abont to be felt by us at Jerusalem, drove many of its companions into the country.

The river Jordan was considerably swollen, and so muddy that a Mhnee in its waters did not look inviting. Howerer, Laurence and I swam it and :at foot on the other side of Jordan. It was alomet thirty yards arrose, with a strong current, about enongh to give equal drift and healway to a swimmer. The water was tom turbid for me to learm much anour its inhalntants ; however I picked up two molluses, a livalve and a
 muddy edge of the stream.

We returned to Jerusalem by Marsaba, where we camped on the aficht of the $16 h_{1}$-muhappily our last experience of "tenting." the must -ujosable kimd of Castom life. Our intended expeltions ly Tiberins and Mferom through northern Palestine ending in Feymut was put a stop to hoy hoavy show. Before dismissing Jerichn I have to mention the spee cies Qut heroul which were not previonsly met with:-Ranmoulas usimtious Linh., Morehiola meveras D.C., Sipmontia mamaria Limb., Sillme pulustima Bimess., Arenaria picta Sibth., Rhus oxyacanthoides Dum., Ammi majus Linn.,





 was a lovely hright blue species, and the lhins a prefty reel-hertied thom swry like the hawthom, but with hattened bervies and minute flowers. This them has heon fomblas far south as latitude $26^{\circ}$ in Midian at ahout s,000 feet ahove sea-lewel hy Captain Burtm. The Ommis was an erect dhoul, about of of if fact high, with a fow slemter long sping lomathes and abme seatherel flowers like those of our own reatharmw. The Rammentus is so like Anemone coronaria (which occurred) that it was not at first Aliefinguiahen from it. Both are of a germenas siarlet. The Vites was one of the very few northern representatives of the tropical Verbenaces. It is a mogagling shrob, with dull hlue flomens of mo leants, amb, like mans other Jericho plants, found all round the Mediterranean.

Vong fragments, chiefly of Crucifere, 1.guminuas, and Tmbelliferte. wore iffen piched, but for these onders the seasom was fon litule alvanced.

Grasses and bulbous plants were also often too young.
On the way to Marsaba, a rough ride across many deep ravines, an imtorebting effent of aspeot was moticeable. A slight greeni-hi hue showed phinly on the hillsides with a nurthern aspect, while the others were as Sot emmpletels harren. In thuse places where the heary devs of nicht are less rapidly dried up by the noonday sun, vegetation is no doubt aimant more almmant, the effee of shate also leeing to ansist the early conwth. An analogous effect was still more sharply defined in a different way in steep slopus looking somblwards. These presomted the usuat monotmons haven chalky white appearance on riding uptavids, where the $\cdot \mathrm{g}$ e only caught the ontatanding hosess and pmoninemees of rock and wit in the wady leel. It was difticult to reerll this om looking lack from
alove in a commanding proition. The mumemus litule depressions and shaded hollows with the finst symptoms of incipient regetation gave a faint green tint to the whole. The one rested the sight, the ot her was a painful glare. It was about the difference broween timed and plain glass spectacles.

At Marsala there is a date-palm tied up and suppertel in the contgard of the convent, which the monks relate was plameel by st. Sala (A.D. A90). Without romehing for the trmh of this statement, I was interested tor leam that it shways bears a stmmeless fruit. Of the tinth of the latter information I believe there is no doubt. This convent is interesting to ornifhologints as the place of the disemvery of Tristrma's Grakle, where aupuaintance 1 had first made at Mount Hor. There were several about the convent during our visit.

On the 15h we reachod Jerusalem. A week later we hifl for Pegment, where cur party divided itself, Profossor Hull and his smm rotuming homewards. Lantence and 1, however, faced the show and snereeted in
 visitmg Baalbeek on the way. As I am mot writing a molume of travels I will lning this part of my suljowt to a cluse. The snow lay many feet deep on these monntains reaching to Damasens and Paallicek, so that I was mathle to make any eollections or ohsorvations of consequence on the natural history of this comblry, which is, moreover, fairly well made hnown by the researches of several eminent naturalists.

## YOMA, OR THE DAY OF ATONEMENT,

## With the Commentary of Rabbi Obadiaf of Bartenora.

## CHAPTER IV.

1. He show. dhe hose violenty and took ont the hots. T"pon ome was written "for the Name." And on the other was written "for Azazel." The sugan was on his right and the chief of the homse of the fathers on
${ }^{1}$ He seized, snatehed, the box and took the lots suddenly with violence.
2 (As we learn above "and a box was there." And why was it opened with violence and haste?) In order that he might not endeavour to find out by Welay which was the lot for the Name, and to take it out in his right hand, :are it was a happy sign when it came up in his right hand.
${ }^{3}$ One in his right hand, and one in his left. And the goats were slanding one on his right haml and one on his left, and he put the lot which came up in his right hand upm the goat on his right hand, and the lot which came up in his left hand upon the goat on his left hand.
his left. If the lot for the Name came up in lis right hand, the sagan arid th him, "1ny lord high priest, lift up thy right hand." and if the lot fon the Niame came up in his left hand, the chicef of the homse of the fathers sail to him, "1uy low high priest, lith up thy left hame." He put thent

 Ame they repeated after him, ${ }^{5}$ blessed bee the ghtomis name of llis kingdom for ever and ever.'"
2. He tied a crimson band ${ }^{\text { }}$ upon the head of the goat which was to be sent away, and caused it to stand opposite the place whence it was to be sent away, amt the !fout whith was to he slain oplmsite the place wi its
 handsugon it and confused. And thus hesabl, "() (iml, I havedome iniquits. I have transgressen, I have simed be bore Thee, I and my homse, and the suns of A:1\%on, the people of Thy holiness. () (iond, forgive the iniquitios amd the thansgressions, and the sins which I have dome, and trans-rtesed, and simmel before Thee, I and my lemse and the sons of Sarm the people of 'Thy holiness, as is whtten in the Law of Moses Thy servant (Levit. xri, 30 ), for on that day shall the priest make an atomement for som, to - leanse you that se may he clean from all your sins before the Jame" ami
 ever and ever."
3. He. slew the grent, reeciseal the heme in the sprinkling-hasin, amb

4 The Shem Hamphoresh (which was the name spelt with yod he) was mounounced as it is written.

5 The decision was not according to Rabbi Ishmael.
${ }^{6}$ When he pronounced The Name.
7 Wool dyed red.
s Opposite the gate by which they caused it to go out.

- The band of crimson was fied "pposite the phate of its slas ing, that is to say its neck ; so that it might nut be changed for the goat which was to be sent away, for this had the band tied to its head and that to its neek; and meithor of them were likely to be changed for amother groat, for these hat a erimeon bamb tied to them, and other goats had not a crimson band tied to them.
in The Mislma is that of Roblbi Meyer which he lemms from the Seript ure, as if is written (Levit. xri, 21), "aml ionfoss orer him all the iniquities of the -hithern of Ispael, and all their transyremions in all their sins." But the wise sum di-puted about it, and said "iniquities," they are sins of pide; "transgressions," they are rebellions; "sins," they are unintentional faults. That sfleor confossing sins of pride and of rehellion, he should return and comfes unistentional faults would be astonishing; hut he said, "I have sinned, I have done iniquity, I hare transgressed; " and so with David, who said, "we hare sinned with cour fathers, we have eommitted iniquits, we have done wirke.il!'" (PB. cvi, 6) ; the decision was according to the opinion of the wise men. And what was that which Moses spalse (Exud. xaxir, 7); "forgising iniquity anal srankeression and sin?" Moses said thus before the holy place at the time when I-ram inmed and repented, and he made their sins of pride like unintentional fauls..
gave it to him who stirred it" (upmen the formth row of stomes in the pavement's of the Temple) in (order that it might mot congulate. He took the censer, went up to the thp of the altar, thmed the coals this way and that way, and tork" from the inner consumed portions and hescended and put it upon the fourth row of stones in the pavement of the court.

4. On all other days ${ }^{14}$ he took the coals in $\alpha$ censer of silver, and emptied thom into one of gold, "5 and on this day he took them in a coman of gilld, and entereal with it. On all other days he fook them in a cimas heldiant four cals, and emptied them into ome of thee ealds, and on this day he trok the coals in a censer of three cahs and entered with it. Rabbi Jose said "on every other day he took the couls in a censer containing a seal, and emptied thom into one containing three cahs, and on this day he tooks them in a censer containing three cabs and entered with it." On every wher day the conser was heavy ${ }^{17}$ and on this day lighti" On every uther day is handle was slont, and on this day long. ${ }^{19}$ On every other day the gold of which it was made was yellow (קור) and on this day red.s The words of Rabbi Menahem. On every other day a paras? was offered in the moming, and a paras in the erening, and on this day he added his hands full of incense. On every other day the incense was finely powdered, and on this day as finely as possible. ${ }^{2 z}$
"Ifehtew, ant shook, and mixed it in order that it might not be cougulated if he lont it until he fthe high pries , had performed the erepice of the incense.

12 Each row of the stones of the parement was called robad, 7בוב. And it is nut promble to axplain "the fourth row in the Temple" as the fourlt row in the interion of the Tomple (from the doon of the Temple inwards), for" it is writen (Levit. xri, 17) "and there shall bo no man in the tabernacle of the congrega(i.m.," A.: But the temehing "the fommthroloud of the Tomple" is the same as to sary the fourth row in the court as one goes out of the Temple into the court. Ife comed the rows. and left it uphen the forth row, and there he whot otred it stood. It is not possible that those in the interior of the Temple are meant.
${ }^{13}$ He took the coals and left tho censor until ho had taken a handful of incense and put it into the leaf (cf. Levit. xvi, 12), and afterwards he took the kaf and the censer into the 'Iemple.
${ }^{14}$ When he took coals from the second pile [on the altar, which was the pile] for the incense, to carry in to the imer altar for the morning and evening incense.
${ }_{15}$ They did not take them with the golden one, because taking the coals bruises the instrument and wastes it, and the law is sparing of the riches of Israel.
${ }^{16}$ In omathe that the high prian mieht not he fatigned by having to emply from one ressel to another.
${ }_{17}$ Beeause its sides were thick.
18 Because its sides were thin.
${ }^{13}$ In order that the arm of the high priest might be helped by it.
20 It was of that kind of gold called zahab parvim, resembled [in colour] the blood of bulls parim, פרים.
$\because 1$ Inlf a maneh.
${ }^{22} \Lambda_{s}$ it is written (Levit. xri, 12), "and this hauds full of sweet incense
$\therefore$. On every other day the priest went up on the east of the ascentes to the altar, and went down on the west, and on this day the high priest ${ }^{26}$ went up in the midfle and down in the midnle. Rahhi Jwlah sait "the high priest always went up in the middle and went duwn in the mildle." ()n every other day, the high priest sanctitied [washed] his hands and his feer from the larer, and on this day from the gnhden pitcher. Rahbi Judah said "the high prieat always sanctitial his hamband feat from the golden pitcher:"
6. On every other day there were four piles there, ${ }^{25}$ and on this day five : the words of Rabbi Meyer. Rabbi Jose said "on every other day thate, and on this day four." Rabbi Judah said on every athe day two. and on this day three.
beaten small." And what does this teach us? That it is said before (Exod. $x \times x, 36)$ "and thou shalt bent some of it very small," only to tell thee that the incense of the day of atonement should be as fine as possible.
${ }^{*}$ As Mar said, "every turn that thou makest must be only to the right hand," which is the east (Yoma 17 b ), for the ascent to the altar was on the south, and therefore they went up on the east of it, in order to turn to the right.
${ }^{24}$ On account of his hnnour, to show his clignity, that he was as a son of the house and might go in whatever place he wished, which the other priests had not the right to do.
${ }^{25}$ On the outer altar were four מערכות (arrangemente-piles) of wood upon which they lighted the fires; one large pile, on which they offered the continual sucrifice : a second pile from which they took fire for the altar of incense; and one pile for keeping up the fire, that fire should newer fail there; and one pile for the members and fat of the continual sacrifice of the evening which had not neen consumed in the evening, and were not burned during the night, which they burned upon this pile. And on the day of atomement they added another pile from which to take coals for the incense before and within the rail.
${ }_{26}$ For three passages are written (Levit. vi, 9), "because of the burning upon the altar all night until the morning," this was the great pile: and the fire of the altar shall be burning in it:" this was the sceond pile for the incense ; and ( $\mathrm{v}, 12$ ) "and the fire upon the altar shall be burning in it, it shall not be put wht: " this was the third pile for keeping up the fire. And Rabbi Jose did not hold that there was a fourth fire for the members and fat which had not been contamod, hut thought that the memhers and fat whith had mot heen consumad were burned by the side of the great pile.
${ }_{7} 7$ Rabbi Jchudah did not hold that there was a third pile for keeping up the fire ; and the third seripture, "and the fire shall be burning uponit, it shall not. be put out," he explained to mean that he who set on fire little fragments of suod in order to light the great pile did mot sat fire to them upon the pavemant, :min (b) up ta the altar with them lomange bot lighted them upon the top of the altar. The decision was according to Rabbi Jose.

## CHAPTER V.

1. Triner herough out to him the haf [spom, A. T. ] and the censer, and he took his hands full of incense and put it into the kaf. If his hand was laree the hamfinl was large if small, the hamblul was small, and thos wats its measure. ${ }^{2}$ He tow the censer in his right hand, ${ }^{8}$ and the kof in his left hamb, and weut in the huly place lignal matil he came to the space between the two vails which divided between the holy place and the most holy. The space between them was a cubit. Rabbi Jose said "there was only one vail there, as is said (Exodus xxvi, 33), 'and the vail slall divide unto yon lemwem the lroly plam and the mast hats:" The onter one was hookell up from the sontla sides, and the innew one from the noethe side. He went between them until he canne to the monthe wille he turned his face to the sombth, and went to his left with the raib umil hee came to the ark. ${ }^{\text {to }}$ When he came to the ark he put the censer hetween the two staves, heaped up the incense upon the coals, and the whole house became filled with smoke. He went out in the same way and
${ }^{1}$ From the chamber of the vessels.
${ }^{2}$ As was the mode of measurement without the most holy places, so was the mode of measurement within. As without he took it by landfuls and not by a vessel, an also within, when he emptied the ineense Trom the ky int his ham? he dit mot empty hy means of a reasel made aceording to the measmee of his hand, but into his hand itself.
${ }^{3}$ Because it was heary and hot, and the Kaf of incense lighter than it, he took the censer in his right hand and the kaf in his left.

* He entered and went in the interior of the Temple towards tho west to between the two rails. Beeause they doubted in the second house whether the wall which divided between the holy place and the most holy, which was in the first house and was a cubit thick, was holy, as within the veil or as without the vail, therefore they made two vails, an outer and an inner, and between them a space of a cubit to receive between them the space of the partition wall.
${ }^{5}$ The Rabbis who say this dispute with R. Jose about it, und say that, "and

${ }^{6}$ The end was folded towards the outer side and held by a golden clasp, so as to be open on the south.

7 He entered where it was hooked up on the south, and went between them until he came to where it was hooked up on the north.

8 When he entered into the most holy placo he turned his face towards the south, in order to go as far as the space between the staves, which was in the middle of the chamber. For the staves were long, and reached as far as the rnil, one end boing towards the west, and the other towards the east, and one was at the northern end of the ark, and the other at its southern end.

4s he was going from north to south his left side was towards the east, and the rail being on the east, his left side was "with the vail."
in Ton the phate of the aid and not the ark itself, for in the second howse there was no ark.

Hace ${ }^{11}$ as he entered, and prayed a shom prayent in the outer honser: He did mot prolong his prayer lest the preprle slowhld be anximus ahout him. ${ }^{14}$
2. After the ark was removed a stone was theme from the time of the former prophets, and it was called shemomh, 15 fromblation. It was thee fingerbrealths high alnve the ground, and upon it he put the comse:
3. He tork the blowl from him whon had hern stiming it, entered to the place where he had before enterel, ${ }^{\text {wh }}$ and stoml in the place where he had before stoml, ${ }^{10}$ and sprinkled from it once alme and seven times lielow. He did not intentianally sprinkle eithee above on below, hat sprinkled like a person striking. And thus he comited :-mene ; one ant one : one and two ; one and three ; one and four ; one and five ; one and six ; one :and seren. He went out and put it upon a golden stand which was in the Temple.
4. They brought to him the groat. He slanghtered it and received its bhood in the spriukling-hasin. He entereal to the place where he had before entered, and stood in the place where he had before stood, and sprinkled from it once above and seven times below. And he did not intentionally sprinkle either above or below, but sprinkled like is person striking. And thus he counted:-one; one and one; one and two, \&c. He went out and put it upon the second stand that

11 ITe did not turn his face to go out, but went out backwards with his face towards the ark.

12 This was the prayer, "Mny it be Thy will, O Lord God, that if this year be hot, it may be rainy; and let not the exercise of dominion pass from the house of Judah; and let it not be necessary for Thy peoplo Israel to be fed the one by the other [i.e., by charity], or by another people ; and let not the prayer of travellems enter hefore Thee." (Ghom, beembe they pmy that rail may net fall.)
${ }^{13}$ In the holy place, ביהל.
${ }^{14}$ Lest they should say, " he is dead."
15 Beeause from it the world was founded, תמשׂ ; from it the Holy One, blessed be $\Pi e$, founded tho world. היה, sheteyah, is "foundation."

16 The holy of holies.
17 Between the stares.
in That there should tre one sprinkling akove on the ulper homer of the memer
 the mercy sent, but fell upon the ground.
${ }_{13}$ He sprinkled like a person inflicting blows [upon the back], who begins between the shoulders and goes downwards. Thus he endeavoured that these eight sprinklings should be upon the ground in order, one under the other.
${ }^{20}$ In order that he might not count the first sprinkling which was above by itself with all the seven which were below. Sometimes he might make a mistake and cormt the firs sprinkling with the seren, and at the first sprinkline belom count two. And it dons not say that he should count the sprinkling which was ahove with the seven which were below, and reckon as far as eighto It is ins-reled to sa! that the command is to finith the prinhlings which were belem within seven, and not within eight.
was in the Temple. Rabbi Judah said, "there was only one stand there." He took the blood of the bullock and put the blood of the
 was opposite to the ark on the outer side, once above and seven times below. And he did not intentionally, \&c. And thus he counted, \&c. He took the. blood of the goat and put the blood of the bullock ${ }^{23}$ where it had stood, and sprinkled from it upon the vail which was opposite to the ark on the outer side, once above and seven times below, \&c. He poured the blood of the bullock into the blood of the groat, and put the full vessel into the empty one. ${ }^{21}$
5. He now went out to the altar which was before the Lord, that is, the golden altar, and hegan in purify it from alove downwards. ${ }^{3}$ Fima where did he login? From the month-eastern worner, the moth-westem. the south-western, the south-eastem: the place where he began with a sin-offering on the guter altar was that where he tinished with the immer altar. Rahbi Elieger said, "he stood in his plave and purified, and mpmo all the corners he put the blood from below upwards, except that one which was before him, upon which he put the blood from above downwards."
(6. He sprinkled upon the clean surfitue of the altar sesen times, ${ }^{3}$ and
${ }^{21}$ Me agrees with the words of R. Judah, who said that there was only one stand there, and it was necessary to take away the blood of the bullock first in order to prat the hlood of the goat upm the stand upen whith the hlond of the bullock had been. The decision was not according to Rabbi Judah.
$=$ As it is written (Levit. xri, 16), "and so shall he do for the tabernacle of the congregation."
3. Is it is written in reference to putting the homel upon the altar (I.mit. Asi. 15), "and shall take of the blood of the bullock, and of the hlood of the grat : " of the blood of both of them together.
${ }^{2}$ Again he poured the full sprinhling-basin into the empty one, in order that the bloods might be thoroughly mixed.
 that eadispminling was upon the cornep which wats before him, and mar to him,
 thet he mate the sprinkling from ahove to helow ; for if hee thonkl sprinkle from below upwards at tho corner which was before him, the blood might flow down into the midule of his limm, and soil his chothes. Ambliab bil Elicae thought that the priest atow at one comoer, and fomm the mate the spmaklings upua all the corners; for the whole altar was only a cubit square, and since three of the corners were not near to him, he could put the blood upon them from below upwards without soiling his clothes, except that corner near which he was standing, for ho could not turn the tips of his fingers downwards but upwards; for if the shoulit tum the thes of his lingers downwards and made the spriakling. from below upward, the hland wodll how down into the slewe of his slint. The decision was not according to Rubbi Eliezer.

* After he had completed all the spman ings of the comers, besprinhled ufost it seven times, as it is written (Lerit. xvi, 19), "and he shall sprinkle of the blood upon it." |רהט, "the clean surface," was the uncovered spuce upon the altar",
the remainder of the haod he proured unon the weatom fommation of the outer altar, ${ }^{27}$ and the blood of the outer altar he poured upon the southern foundation. Both ${ }^{28}$ became minglesl in the canal and went out to the Kedron valley, and were sald th the gardenens for manure. And they vendered themselves guilty of false dealing in reference to it. m

7. All the work of the day of atonement which is pmeseribeci in orter,* if he wromenty made one prart to precele its fellow, it was as if he had mos performed it at all [literally, as if he had done nothing]. For example:if the hloond of the goat preceded the hlond of the hatlowh, he must meturn and squinkle of the hatod of the grat after the hiven of the liullowk: if the blood was poureal out hefore he had completent the spminklings which were within the holy of holios he must loring ohther hond and ref urn and sprinkle afresh within the holy of haline, and likewise in the holy place, aml on the golden altar, Ineanee all the sprinklings made their nwn partionlar atopi... mewt." Rablif lileazer and Rabbi Simeon said, "he hegan again from the place ${ }^{35}$ where he had broken off."
for he turned the asthes and cools to either site, and sprinkleal upon the gold of the altar.
$\Rightarrow$ The remainder of the blood of the outer sin offerings was pourat upon the southern foundation.
${ }_{28}$ The outer and the inner bloods [i.e, the blood sprinkled upon the outer altar, and that. spriulled upon the inner altar! which were poured upon the ather of burnt-nffering thowed down and fell from the foundation of the altar) to the parement [of the court ] and heame mingleit in the camal-the conluit in the court which went out to the Kedron valley.
${ }^{29}$ The owners of gardens.
${ }^{30}$ It was unlawful to make use of it before the price land been paid.
${ }^{31}$ All the services which he performed in the white garments in the holy of holies and in the holy place.
${ }_{32} \mathrm{In}$ our mishna.
 blood was poured out, he must bring another bullock and begin again the
 of holies.
${ }^{34}$ Therefore the atonoment that was completed was completed.
${ }_{36}$ And although that particular atonement was not complete, it was not necessary to return and do what he had already done. The deeision was not Fin....nting to Reabl,i Elezzer mad Rabthi Simeon.

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1885.
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[^0]:    a) Few dewish whsereamees have heen held to be of greater importance than the uod of a very shang linife for slanghtermes. Whonere slanghtered withont
     fion (Cholin 18 a) . One of seromal methods of examining the haife is by drawing it celye orer the fincer mail (ilid. 17 b, where the suljent is djecusced at longth). "And what constituted a flaw in the altar?" As much unevenness uf sucfere as mreested the finger-mail. Whey reprat, what constintufed at flaw in
    
     opinions of R . Simeon amd R . . liteob) refors to the lime, and that (the opinions first expressed) to the stones (Cholin 18 a).
    of That the same rule applied to thesloping a-cont as to the altar appous from Midcloth iii, 4.

[^1]:    10 These measurements are eacontially the smme as those given in Middeth iv, 7. but by rechoming the thickmes of the wals weat of the Holy of Holies as - paces, and eath face of a wall as a di-tined wall, obsonpity has been oceaviomed.
    "Middothir, 7 . Sce the lat mote. The aceotant in Midduth gives unly the hrealth of the house belind the proveh. Acomding to M:amonides the rown for the slanghtering instrumems meanured ten cubits by elesen, intemal mensurement.

    12 Middentir, 2: Tamid iii, 7. In the Mi-hna it is said that the priest, after opening the litle door, entered the dhamber and thence passed inter the temple. Maimmides does not agree with Rabhi Judah's opinion that the priest went in the theknes of the wall until he found himseif standing bet ween the $t$ wo gites.
    ${ }_{13}$ Middoth iv, 1.
    "Tosefonh Isombh Zamh 5; a. "The pureh was open along its whole caster"l side."
    ${ }^{15}$ Mideloth iii, 7.

[^2]:    1 The Rus. Dr. Stubhs, of Trinity College, Dublin, has kindly verified the originals for me.
    ${ }^{2}$ Kalaat el Nakhl, with its fort and wells, has been frequently mentioned
    

[^3]:    ${ }^{1} 1 \mathrm{am}$ glat to find that M. Naville agrees with me in an interesting point: "Rev. II. G. Tomkins has peinted ont that we have the Ascyrian franseription of Suecoth in the Iskhut of E-arhadion. Acoudeny, Mardh :3, 15s3." Mem. 1 . 6 , note.

[^4]:    ${ }^{1}$ Edited in Arabic by de Gooje (Leyden, 18i7), p. 162.
    2 Op. cit., p. 161. A few stunted palms are, however, still to be scen at Kufr Argib and elsewhere on the shores of the Lake (see J. Mnegregor, "Rob Roy on the Jordan," 1869, pp. 325,329 ; also, "Recovery of Jerusalem," p. 367 , in Capt. Wilson's article on the Sea of Galilee).

[^5]:    1 "Kitâb-al-Buldân," ed. Juynboll, p. 115.

[^6]:    ${ }^{1}$ Op. cit., 357, 445.

[^7]:    ${ }^{1}$ I find no mention of the place in the works of Yakubi, Ibn Maukal, I-takiluri, Mokaldasi, or Takut, neither does the mame occur in Ibn-al-Athir's

[^8]:    1 "Land of Gileat," p. 227, et seq.

    "East of the Jordan," p. 273, et seq.

[^9]:    ${ }^{1}$ Mokaddasi, op cit., p. 1ヶ5.

[^10]:    5 Op. cit., II, 934.
    क丂 "Meracid-el-Ittilâ," I, 514.

[^11]:    a Tumfla Kelim 1. There were hinty-ix offences by which the penalty of cutting ofl' was incurred (Kerithoth i, 1).
    ${ }^{33}$ Kelim i, 8.
    ${ }^{3 .}$ Kelim i, 9.
    ${ }^{35}$ Kelim i, 9.
    ${ }^{36}$ Kelim i, 9; Pesachim 86 a.
    ${ }_{37}$ Tosefta Kelim 1; Pesuchim $86 a$, whore it is disputed whether these chambers were visited once in seven yenss (in the year of release, Rashi), or I wice in seven yeurs, or once in the year of Jubilec.
    ${ }^{5} 8$ Erubin 105; Tosefta Kelim 1; Yoma $6 b$.

    - Middeth iii, 5 , whee it is onid that the wowhen were let down from ahore Into the Holy of Holiss in heoses. In Towfta Kelim 1, this rule appears to to applimit to the holy place as well as the Holy of Holies isee mote to the works of Maimonides, in loc.). "To make repairs," ipת, aptare, proparare, stabilire. The word sometimes corresponds to in Hebrew, and is used here in contradistinction to בנה, to build. Porhaps it should be rendered to "ormament."

[^12]:    ${ }^{12}$ Thus they cried out in the court. That is to say, he who has never jet whataned the office of offering the incense come and eat lots. And they dith not whlow one whon hat once oltanine that oflice to repreat it, heeranse it mate rieh. for" it is writem (Dem1, xssiii, 10, 11), "they shall put ineense befine thee" . . . "bless, Lord, his substance," and because every priest who oflered incernse herame wich sul was blessed therehy, therefore they did not allow any the to de it a second time, in order that all might become rich and be blessed by it.
    ts "New and clit." He who had chtained this lot on other oceasions, and he who had never obtained it, come and cast lots.

    14 When thes fook the pieees from the slaying place they did not take them (6) the atrar, hint put them on the mildle of the imeline helow on the cant, and cant amother lof who showld take them up, from the phace where they had heen placed on the incline to the altar; and they did so because "in the multitule of people is the king's hononr" [Prov. xiv, 28].

    15 He rechons from the time of taking the pieces of the sacrifiee and onward.
    Is Six for the prieces and the inwards, as we have swid above, and one for the llour, one for the pancakes, and one for the wine.
    ${ }^{15}$ Becenuse 1 wo drink-oflerings were repuired, one of wine and one of water. The vessel of water was brought by the hand of a priest.
    is The daily evening servifice. Two carried in their hands two pieces of wood to add to the wowe of the prite, for it is written (lerit. i, $\overline{5}$ ), "and they shall lay the nood in owder upom the five." This dowes not refer to the morning saerifice. for it is written in Levit. vi, 12, "and the priests shall burn wood on it every moming." whinh teaches that it wefoss to the evening sacrifice when two pieces of wood were added.
    ${ }^{13}$ As the pieces of a lamb, so the pieces of a ram.
    ${ }^{2}$ Two tenth deuls were offered by two priests.

[^13]:    ${ }^{1}$ Barbey, op. cit., p. 134.

