The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

Coloured covers/
Couverture de couleur

## Covers damaged/

Couverture endommagéeCovers restored and/or laminated/
Couverture restauree et/ou pelliculiéCover title missing/
Le titre de couverture manque


Coloured maps/
Cartes géographiques en couleur

$\square$
Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Bound with other material/
Relié avec d'autres documents
Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whensver possible, these have been omitted from filming/
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages i'ont pas été filmées.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-étre uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.


Coloured pages/
Pages de couletir


Pages damaged/
Pages endommagées


Pages restored and/or laminated/
Pages restaurées et/ou pelliculées

$\square$
Pages discoloured. stained or foxed/
Pages décolorées, tachetées ou niquées

$\square$
Pages detached/
Pages détachées


Showthrough/
Transparence

$\square$
Quality of print varies/
Qualité inégale de l'impression
$\square$ Continuous pagination/
Pagination continue

$\square$
Includes index(es)/
Comprend un (des) index

Title on header taken from:/
Le titre de l'en-tete provient:


Title page of issue/
Page de titre de la livraison

$\square$
Caption of issue/
Titre de départ de la livraison

$\square$
Masthead/
Gėnèrique (périediques) de la livraison

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.

| $10 x$ | $14 x$ |
| ---: | :--- |

Nre sorios．
Whose No．NeTis．

##  <br> （Eanadian fournal

17
 Institilta rif •＂

<br>

Nimber IV．
（1）い111：11 I：
the editing committee of the canadian institute．

> JANNUARY, 1877.

## 小のにいNなO：



## CANADIAN INSTITUTE.

## EDITINC COMMITTEE.

# GENERAL EDITOR, • - REV. HENRY SCADDING, D.D. 

R. RAMSAY WRIGHT, M.A.. B Sc., tc.<br>Frof. of Naturnl Historv, Uutr. Coll., Torento.

W. R. PEARMAN, M.A.

Cluasienl Tutor and bean. l'nir. Endl, Torowde.

The Catadotax Jocural in printed exclusively for gratuitous distribution amorg the Members of the Camadran Institute, and such Institutions and Societies as the Council may determine; but Members may purchase extra copies at 50c. per number, and Provincial Literary and Scientific Societies may ohtain the Journal at the same rate, by an annual payment in advance.
** Cominumications for the Journal in be addressed to the General Editor, Rev. Dh. Scadorom, 10 Trinly Square, 'Roronto. Communications on general business of the Institute to be addressed to Prof. James Loudon, M.A., Corresponding Secretary ; T. Heys, Esq, Librarian and Assistant Secretary, Canadian Institute, Toronto.
*** A few sets of the Casabiay Jourxat, (unbound), and back numbers to complete sets, may be obtained at redaced prices, by application as above,

Mir Fowarb Alle:t, 12 Tavistock Sireet, Covent Garden, London. W.C., has been appointed the English Agent for the Institute. All European emmmonications are requested to be iorwarded through him.

# THE CANADIAN JOURNAL. 

NEW SERIES.
No. XCIII.-JANUARY, 1877.

## THE EASTERN ORIGIN OF THE CELTS.

 second paper.BY JOMN CAMPBELL, B.A., Professor of Church Mistory, Ircsbyterian College, Montread.

In my last paper on this subject I meationed an important Celtic family which did not trace its descent directly from Gilead, but which, nevertheless, sustained intimate relations with his line. Gael and Cymri, according to Niebuhr, were the two great components of the Celtic stock.' Josephus long before had been struck with the connection of the two names, and accounted for it by deriving the Galatians from the patriarch Gomer, in which he has been followed by a large number of writers coming down to the present day. ${ }^{3}$ It was, however, with no intention of tracing the family of Gomer or the origin of the Cymri that I commenced the researches in the departments of comparative geography and mythology that have resulted, as I believe, in fixing the relations of the latter. The result, entirely unexpected and cven astonishing to myself, was the consequence of a legitimate and full, but by no means exhaustive, ind action from geographical facts and mythological statements extending over a wide field. It rests to a great extent, although far from exclusively, upon the collocation of names in the topographical nomenclature and mythological gencalogies of many peoples. I do not claim that all the names mentioned by me refer to the personages whose descendants I seek to trace. These are so numerous that time has not permitted me to make that minute investigation into their history which would enable me to write with certainty. A few of them I have already brought forward in totally differeat connections,
and the present state of my knowledgo does not allow me to assert which of these connections, is the most worthy of confidence.' I may not oven have discovored tho precise relations in which the personages with whose bistory I deal stood to one another. Yet this, I think, will be found indisputable, that they were intionately related, and that their descendants constitutod an impartant element in tho great Celtic family of nations.

My starting point is the family to which Gilead belonged. This family I believe to have been that of Bethlohem. Howerer, this for the present is immaterial. We read that Gilead had a sistor, whose name was Hammoleketh, or, The Qucen. This remarkable lady, for such her name would indicate her to have been, has no husband assigned her in the Bible, but the names of her threo sons are given. Theso are Ishod or Ishchod, Abiczer, who is also called Ezer, and Diahalah. In secking for a fuller genealogy of the family of Hammoleketh, I found it impossible to associato any of the Fzers of Chronicles with her second son, and for the first no connections appear. A geographical trace is, however, afforded for the identification of the former in a place in Abiezer of Palestine, called Ophrah,s Now Ophrah is mentioned among the descendants of Othniel the Kenezite. His father is Moonothai, who seems to have marricd Hathath, the daughter and only child of Othniel. It is very probable, thereforo, that Meonothai was the son of Ezer or Abiczer. ${ }^{6}$ A more interesting connection has been found for Mahalah. His name is identical, not only with that of the place called Meholah or A.bel Meholah, which was Gileadite, as was also Ezer, Jazer or Abiezor, but also with Mahol, the name of a sage mentioned in the book of Kings. ${ }^{\text {. There his three sons are spoken of, their names being }}$ Heman, Chalcol and Darda. These sons of Mahol again appear in the book of Chronicles among the descendants of Judah with slight changes, Calcol and Dara presenting variations illustrative of the mutable character of early language. ${ }^{s}$ Heman, Calcol and Dara are in Chronicles called sons of Zerah, an honour which they sbared with

[^0]Zinri and Ethan. In Kings, however, Ethan is spoken of as tho son of Zomh or Ezra; Zimri is ignored; and Mahol is made tho Gather of the wise trixd. There can be no donbt that these aro tho same persons. My conclusion, the grounds of which will appear in the sequel, is that Zimri, the first mentioned among the sons of Zoruh, was the fathar of IIahol or Mahnlan; that Ereman, Chalcol and Darda woro his grandsons; and that Zimri accordingly was the husband of Hammoleketh. But who was Zimri himself? For many reasons I have beon led to regard him as the same person with Zimran, the eldest son of Abraham by Keturah. ${ }^{3}$ Why he is called the son of Zerah I cannot with absolute certainty say, but think it probable that his mother Keturah, after the death of Abraham, married Zerab, an Ethiopian. ${ }^{10}$ The above may soem a meret issue of hypotheses. I grant it, and do not ask belief in the alleged facts on a simple ipse dixil or plausible statement of theory. My own convictions did not ariso from any such arbitrory interpretation of scripture passages, nor did I upon these frame any theory whatever. The ovidence which constitutes the remainder of this paper, and which is intended not to trace the family of Zimran but the origin of the Cymri, will, I think, show that the forecoing necessary statement has at least strong probability on its side. Another connection of the family of Zimran may be mentioned here. His mother was Keturah, and his brothers, Jokshan, with a son Dedan and grandsons Asshurim, Letushifa, Jevummim ; Medan; Midian, with his sons Ephah, Epher, Hanoch, Abidah and Eldaah ; Ishbak ; ạnd Shuab. ${ }^{11}$ As for Keturih, I am inclind to believe that she was a sister or near relative of the Amorites, Aner, Eshool and Mamre, with whom Abraham was confederate. ${ }^{12}$ I have some light upon the story of Zerah, his son Ethan and grandson Azariah, but to set it forth here would involve unnecessary complications.

I purpose restricting myself in the main to the family of Fammoleketh, the sister of Gilead, uniting with her, as it seems to me I nust, a certain Zimri or Zimran. As part of this family I count Heman, Chalcol, and Darda, the sons of Mahol or Mahalah. For

[^1]lshod no other connections have yot been found; and the relations of Abiezer with Meonothai and Ophrah I shall only indicate in passing. In a similar curscry manner I intend referring to the brothers of Zimran and their descendants, as well as to their mother Keturah and her supposed relatives, Aner, Eshcol and Namre. The fullowing is the genealogy as I propose to restore it, the names in capitals being those which form the subject of geographical and mythological comparison:-


Out of thirty-two names, therefore, I at present, in order to avoid confusion and to guard against hypothetical connections, direct attention to eight only. The list is larger than that which formed the subject of my last paper, and is thus sufficiently large to enable one to predicato something from a mere geographical comparison. Unfortunately, however, there is a lack of determinateness in the character of the names which hinders their presenting that identity of form in different languages, which has appeared in those belonging to the family proper of Gilead. The Greek form of Zimran is Zambran, so that an adventitious $b$ or $p$ sound may be expected in the body of the word. The final $n$ of proper names in Hebrew is exceedingly inconstant, and generally disappears in patronymics. ${ }^{13}$ Even the initial $\sim$ may not only be replaced by $c, k, d, t$, or $s$, but may be seduced to an aspirate or even an open vowel. Ishod or Ishchod may be deprived of its initial $i$ and appear as Shochad, its root. Abiezer presents peculiar difficulties, the prefix Abi being unnecessary, and the word Ezer itself, as commencing with ayin, and containing the changeable letter zain, being liable to appear in such forms as acr, agr, $a d r, a t r, a s r, a z r$, or as the same preceded by $c, g$, or some equivalent, Gadr, Actr, \&c. Mahaiah may aspirate or altogether omit the

[^2]medial chelh, as in Machalah, Malla; it may admit $\AA$ prosthetic $a$, and, as in the case of Zimran, insert a $p$ or $b$ sound between the consonants, such as wo find in Amphiclea, Amphimle, de. Heman, commencing with a mere aspirate, may be found preceded by $d$ or $t$, Deman, Teman. Chalcol or Calcul can hardly be expected to retain its final $l$, which may bo nltoyether omitted or replaced by $r$ or $s$. Dara or Darla has two forms to begin with, ard the final letter being ayin, will be fomm to end with $c, g, s$, or ng. Our subject is thus encompassed with philological difficulties of no mean order, and for this reason $I$ have supplemented the geographical comparisons with others derived from mythology and tradition, which I trust may tend to confirm the evidence that geography supplies.

Palestine affords evidence that the children of IIammoleketh were counted as nart of the family of Gilead. Abiezer was situated near the land of Gilead, and Jazer, presenting another form of the name, constituted a region of it; Abel Meholah was in similar proximity, and Barzillai the Meholathite is also called a Gilcudite." The name Abel Meholah, if like $\Delta$ bel Mizraim it denotes "the mourning of Mahalah," may furnish the clue to a tragical story. It may, however, simply mean "the meadow." As such we may expect it to reappear in other parts of the world in some form like Philomelium. It is worthy of note that the family is not only represented as one of pre-eminent sages but also of musicians, so much so that the name of Meholah was applied in different forms to musical compositions, and the meaning of the root from which it is derived is singing. But the word Zimran itself means a song. A biezer or Ezer indicates the helper, and appears in a remarkable Greck word for which no root can be given, Epikouros, meaning the same thing. The etymology of Heman and Chalcol is obscure, unless the former, like Jamin, denote the right hand. Darda is supposed to signify the pearl of wisdom. A similar Celtic connection to that which comparative etymology afforded in the case of the descendants of Gilead is found for three of the names of his sistor's family. Zimran, the song, is the Erso Amhran, with the same meaning. Mahol or Mahalah is the Welsh Moli, to sing, Mawlganu, to chant, and the Erse Mal, a poet. But, still more remarkable, the obscure word Ishod or Ishchod, from the root Shochad, a gift or present, is reproduced in tho Erso Asccadh, bearing an identical signification. ${ }^{\text {s }}$ Were I sufficiently conversant

[^3]with the Coltic languages, I doubt not that similar agreements, of the Hebrew and the Coltic might be found in the case of the other names.

As, in tracing the wanderings of the Celts, Persia was my starting point, it is fitting that the Cymri shouid first meet us in the same ancient, bistoric land. It is there, between the Oxus and tho Indian Ocean, that Ptolemy and other geographers placed the Comerians. ${ }^{28}$ There, also, we find the Gimiri of the Persian inscriptions; and from the same region Pezron derived his Cymri, in which he has been followed by more recent and more scientific investigators. ${ }^{1 ;}$ Now, the Bible should shed some light upon this large portion of the population of a country which had important relations with Palestino. And so it does. In Jeremiah xxv. 25, wo find the people of Persia classified as Zimti, Elam and the Medes. Elam I have already identified with the Gileadite or Celtic line. I do not at present enter upon the origines of the MIedes, who, $I$ am convinced, were like Zimran of the so-called Midianite family, deriving their name, as Matieni itself indicates, from Medau and Midian, two of the sons of Abraham by Ketural. ${ }^{33}$ Zimri is identical with the name wo have already found in Cleronicles, and is the form in which we should naturally expett the Zimranites to appear. I have indicated that the word Zimran presents a varicty of modificatior, in transliteration. The initial $\approx$ may be represented by $c, g, d, t, c s$, and may even be replaced by a breathing or an open vowel. in illustration of the latter has been seen in the identity of the Hel, ow Zimran with the Erse Amliran. But a better illustration is aforded in the Arabian Homerite, who, acconding to the testimony of Philostorgius, were the descer lants of one of the sons of Abraham by Keturah; and this con can be none other than Zimran. ${ }^{3}$ Another form is that of the LXX., in which Zambran is the equivalent of the Hebrew word. Such a form meets us in the molern Persian name, Gombroon. In addition to this name, which belongs to Persis, we find Amarier in Media; Amarusa, Asmura, Samariana and Tambrax, in Hyrcania; Ambrodax in Parthia and Margiane; Somiramides Montes in Car-

[^4]mania; Tamorus in Gedrosia; Zimyra in Aria; Amares and Chomora in Bactriana. The eldest son of Hammoleketh was ${ }^{\text {shod }}$ a namo derived from the root Shochad. In his name wo discover the reason why Segistan, Segeste, and similar terms, so constantly accompanied the Celtic stock, as I set forth in my last paper. The Soxote and Systa of Persis ; the Astaceni and Socanda of Hyrcania; Issatis, Astasana and Tastache of Parthia; the Isatiche of Carmania; Asthea, south of Gedrosir ; Asta, Astauda, Astaveni, and Sacasteno of Aria; Astacana of Bactria; and Basistis of Sogdiana, are his Persinan record. The family of Ezer or Ablezer is exceedingly hard to trace; and it is with diffdence that I present Azara of Media with Tigrana and Tachasara; Agra of Susiana; Gadar of Parthia; Gedrosia itself; Casirota of Aria; and Icarus of Bactria. T..e names of Mahalah and his mother Hammoleketh or Alolebeth, seem to have been riequently associated, and it is hard to say when one and when the other is to be found commemorated in a geographical namo containing as its chief elements the letters M. L. Such are Amul and Maltai of Media, Melitena of Susiana, and Malana of Gedrosia. The paucity of Mahalah's geographical records may be accounted for by the superior fame of his children. These may bo found in Amana, Acola and Dariausa with the Derusici of Media; in Decra of Susiana ; the Darite of Hyrcunia; Dordomana of Parthin; ${ }^{\text {ar }}$ © Omcenus and Dara of Carmania; Cocala of Gedrosia; Dammana of Aria; and Dargidus of Bactria. The Darite must furnish us with the originals of the Caltic Druids, being the descendants of Darda or Dara, which, in the latter form, with the fall power of the Hebrew ayin is the Erse Darag, the oak. The Persian Dur, a pearl, agrees so far with the Hebrew. The Chaldeans and the Darite were the early Culdees and Druids; and with the latter the oak has ever bean connected, both in the matter of worship and of name. Aristotle, Diogenes Laertius, and other writers associate the Druids with the Persian Magi; and Pliny expressly says that the Druids of Britain so cultivated the maric art that they would appear to have taught it to the Persians. ${ }^{20}$

In regard to mythology, we find two early Persian names resembling that of Zimran. One of these is Kaiomers or Gayomers, who has often been idencified with Gomer; and the other is his

[^5]descendant, Tahmouras. ${ }^{21}$ Mirkhond speaks of the latter as the father of Fars, so that he is thus made to connect with a son of Gilead, for nothing is plainer than that Peresh was the namer of Fars or Persis: $=$ But the line of which Kaiomers was the first, was called the Pischdadian, and a son or grandson of that primitive king was Houcheng or Pischdad. The name Pischdad is sufficiently near, with the prefix of the Coptic articlo, to that of Ishod to make the connection of Kaiomers and Pischdad significante The statement of Mipkhond, that Houcheng or Pischdad was by some writers supposed to be the same as Makaleel, may point to an carly tradition which united his name with that of his brother Mahalah. ${ }^{2 s}$ It is somewhat remarkable that Pliny should mention among the inventors of magic the Median Apusorus and Zaratus. ${ }^{26}$ The namo Apusorus is so uncommon that it is pardonable to associate it with Abiezer, and to suggest the possibility that Zaratus may represent his nephew, Darda.

The ancient geography of India contained names that fitly set forth the whole family of Ziuman. Such are the Kamarupas, Kimpurushas, Tumburas, Mlechbas, Nishadas, Apsarasas, Mekhalas, Yamumas, Kulakas and Daradas.s Already we have found Amares in Bactria on the Indian borders; and farther north on the Jaxartes were Comari. The Moguls and Tartars may have claimed kindred with them, as the descendants of Machalah and Darda. During the classical period, the north-western part of India about tho Indus was peopled by the descendants of Zimmon. Such were the Astaceni and Malli; and such, in the time of Darius Hystaspes, the Abissares and the Darde. ${ }^{\text {.6 }}$ Near them dwelt the Glauce, while farther south the Jomanes or Jumna commemorated Heman, and Agra, situated upon it, was another record of Ezer. In the basin of the Indus we also find Nagara, representing Ezer, and the Soastus with Suatene as traces of Ishod. To the east, in the region of Patna, lay Miyulu or Mithila, the modern name of which, Tirhut, exhibits a replacement of Mahalah by his youngest but most distinguished son. One of the mouths of the Ganges was called Camboricum, and near at hand was Cocala. Above the lower range of the Himalayas, in a

[^6]direct line from Tirhut, flowed the Dyardanes, and near it dwelt the Arninaches. South of Amara or Ambra in Central India appeared Mesolia, with another Cocala and, better still, a Caliguris; while Hippocuria Regio seems a mere Hellenized form of the name Abiezer. Comaria and the Tamra river in the south would indicate that the descendants of Zimran had penctrated to the extremity of the peuinsula. Mr. Hyde Clarke's valuable Researches in Prehistoric and Protohistoric Comparative Plilology, (te., first drew my attention to the Sumerian or Zimrite character of Farther India, including Malaya and Cambodia. ${ }^{27}$ This distinguished philologist points out the interesting fact that the Cambodians call themselves Kammeron Khmer, and connects them with the great Sumerian family. He also holds that Malacea and not Britain furnished the supply of tin of which the Sumerians nade use from an early period. Samarade in Malaya is a mark of Zimrito occupatinn, and so are Pagrasa, Acadra, Thagom, which may be forms of Abiezer or Ezer; Malencolon, in which Mahalah or his mother may find a record; Calligicum, a reminiscence of Chalcol ; and Tharra, which commemorates Dara.

The regions inhabited by the Zimrites in India were at one time peculiarly Buddhist, especially Miyulu or Mithila. ${ }^{23}$ The musical dewe Timbara, pertaining to Budduist mythology, may have been Zimran. Ho must certainly have been the Sumuri or Sambara of the Brahminical mythology, which plainly betrays cnmity to the Buddhist families. He was slain by Indra. ${ }^{20}$ The queen Mallika answers to Hammoleketh, but she is wrongly made the wife of Ajasat or Ishod, instead of his mother. ${ }^{30}$ Ajasat, as a wicked king, may be the same as Chetiga, who built Astapura and Daddam. ${ }^{31}$ If so, he is improperly called the son of Upachara or his brother Albiceer, and the father of Muchala or Machalah, the youngest of the three sons of Hammoleketh. Mahali, a famous king of Buddhist story, is no donbt the same person as the latter. ${ }^{7}$ The ornament Mekhali, which Buddbist writers treat of, will yet be found to connect with similar

[^7]decorations in other lands. ${ }^{3}$ The Tirttakas, a religions sect, may have been Darda's descendants, and an early class of Druids. ${ }^{34}$ Certain it is that Druids and Buddhists alike held the doctrine of metempsychosis and other beliofs, which have led many writers to associate them equally with the philosopher Pythagoras. The leamed Datries has not hesitated to associate Druidism with what he knew of Buddhism. ${ }^{\text {ss }}$

Following the course adopted in the last paper, we return to the basin of the Tigris and Euphrates. In Chaldea, Zimran was represented by Camarina or Gomereek; his son Aliczer by Abn-Shahrein ; and his graudson Darda by Teredon or Diridotis. Babylonia furnishes Thamari, the Nalıar Malcha, Issedea, Sittace, Otris, Teredata and Dorista. Assyria is nore full, for it was the home of the Sumerians. There we find Sumere, Samaran, Gomara, Saccada or the Sakad of Ptolemy, Aturia, Meso-Pyle or Mosul, Calchas and Chalachene, Dartha and Dura. In Mesopotamia appear Himeria, Ombre, Semirnmidis, Saccada, Auxaris, the Mallii, Achaiakala, C'ocilium, Dura, Dadara, and Daradas. Turning from geographical to mythological and historical evidences, the great Sumerian family seems to exhibit its ancestry in the lists of Bar Hebreus and other chroniclers. ${ }^{36}$ There we discover among the eadiest monarchs, Nurud, Cambirus, Smirus or Smirm, Zmaus and Semiramis, setting forth Zimmn, unless Norud be a form of tho name of his uncle Mamre. These must represent the socalled Medians or Midianites, who at an early period ruled in Chaldea. In other lists appear such mames as Ascatades, Ephecheres, Mancaleus, replaced by Ascalins and preceded by Mamithus, who may have been Eskcol and Mamre, Mamylus and Amyntes, who, as Heman, properly succeeds Ascatades. ${ }^{37}$ Berosus seems to have known MLahalah in Amelon and Heman in Amenon, his successor, while Darda may have been his Eucdoreschus. ${ }^{3}$ The uncommon name Chalcol is preserved in full in Whalkhalla, a surname of Nin or Bar. ${ }^{39}$ Enyalius will yet appear as

[^8]a form of the word Mahalah. It is therefore interesting to fimd Hestixus saying that priests brought his worship into Semnaar of Babylonia. ${ }^{40}$ Molis or Mylitta, the great goddess connected with Semiramis, if not identical with her, was undoubtedly Moleketh, the queen and wife of Ziman. ${ }^{42}$ Her relations with the worship of Sacti and Vesta are explained by the fact that these names were derived from that of her son, Ishod.: The land of Milidia, mentioned in the cunciform inscriptions, and Milisihu, who appears in Mr. George Smith's list of Babylonian kings near Olam-Buryas, may easily represent Mahalah, the consin of the latter's father, Peresh. ${ }^{13}$ It is a little striking to find three brothers named MLuranu, Gatiya (the Indian Chetiya), and Musalimu, sold as slaves in the reigu of Simmasihu, who follows Kurigelzu, the supposed father of Milisihu." This may simply indicate that the names, being those of royal persouages, were common at the time, for such names do not belong to later Babylonian history. Usati, the name of the father of the three slaves, is nearer to that of Ishod than Gatiya. Aswad, the name of Akkerkuf, is probably a restored form of Ishod. There is every reason to believe that the Sumerians or Cymri, Chaldeans or Culdees, and Daradx or Druids, made their first home somewhere near the junction of the Tigris and Euphrates. Marmarus, the Babylonian whom Pliuy mentious along with the Medes Apusorus and Zaratus, as an inventor of magic, was probably Manare, the uncle of Zimran. ${ }^{\text {s }}$ I am not disposed to i.eed the unscientific modes of connecting sacred and profino history prevalent in last century. The connection which the Abbe Banier established between Druidical worship and the oaks of Mamre, however, I hold to be worthy of the most serious attention. ${ }^{66}$

If any part of the world possessed a Zimrite population before Chaldea, it was Arabia. Abmanm sent his sons by Keturah castward into the east country, which would embraco these two regions." The Katoornh were a famous people in Arabian history, whom Pliny

[^9]know in his day as the Katarei, and whose chief settlement was Katara, now called. Katura, appearing about midway on the eastern coast. ${ }^{4 s}$ Beginning at the north, however, we find certain features of Hyreanian geography reproduced, in the Zamareni, with a place Chamara, who appear a short distance south of the Saraceni, just as Samariane and-Syracene connect in Hyrenia. The Chanlothei, Bene Khalid or Gileadites, with the Agrai or Ezrites, are not far off while DIadiam, farther south, affords another proof of Midianite commection. On the Arabian Gulf of the Red Sca opposite Berenice were situated the Maliche, Darre, Ausara and Agra. Lower down on the same side wo meet with the Minai, Mamala, Nagara or Agra, and Amara. The $N$ of Nagara arises out of the nasal pronunciation of the initial ayin of Ezer, which is found in Arabic. But in the Persian Gulf about Katura, and in a direct line with the home of the Maliche and Darre, other Agreei or Gerrei appear, together with Asateni and Sata. In the south-east i galany of Zimmite names attest Midianite occupation. Such are Thamar, Sanbracata, Omanite, Darre and Acilla, to which may be added DIasthala. Coming further westward, but keeping to the southern coast, Hamirei in the Smyrnophoros Regio commemorate Zimran. The Ascite were the descendants of Ishod; the Ausarito of Ezer ; and Massala was a record of Mahalah. Omana Sinus, south of which Marmatha may have been a reminisceuce of Mamre, betrays Heman's posterity, and Cumacalum on the Sachalites Sinus may unite Chalcol with Esheol. This leads to the great region of the Homerite, whom iradition has already identified with the family of Keturah. Among them Theophanes found the Amanitie, to whom le attributed a similar descent." The rite of circumcision prevailing among these tribes tends to confirm their Abrahamic parentage. ${ }^{50}$ In the same region Burckhardt found traces of the Omman Arabs, although their principal settlement according to him was the northern tract in which we found the Zamareni. ${ }^{31}$ Omran is an Arabic form of Zimman, cxhibiting the same change as the Erse word Amhran has already presented. Sacatia, Mela Mons, Ocelis and Thutis in the land of the Fomerite,

[^10]among whom the Abideh or descendants of Abidah, the son of Midian, were found, set forth Ishod, Mahalah, Chalcol and Dara. The Camareni and Malichi Islands off the same coast were memorials of Zimran and his wife. If we suppose Chalcol to have been represented by the Chaulasii, who dwelt towards the northern extremity of the Persian Gulf, we shall find the whole family of Zimran appearing in Arabia as the eponyms of powerful tribes. Such were the Zamareni, Homerite or Omran, the Ascite, Agrei, Malichæ, Omanitx, Chaulasii and Darde. In Kasseem, south of Jebel Shammar, or in the land of the old Zamareni, Mr. Palgrave found a Druidical circle, identical in character with Stonehenge, the work of Emrys or Ambrosins, who gave its name to Ambresbury in Wiltshire. Concorning it he says: "There is little differenco between the stono wonder of Kasscem and that of Wiltshire, except that one is in Arabia and the other, more perfect, in England." ${ }^{32}$

If Strabo's statement, with which the accounts of Arabian historians seem to agree, be true, we cannot expect to find in the lists of early Arabian monarchs that hereditary descent which would enable us to speak positively of their Zimrite relationships. ${ }^{03}$ Himyar or Hamyer, however, the greatest of Arab sovereigns and the ancestor of the Homerite, like the Persian Kaiomers and the Chaldean Zmarus, must have been Zimran himself. Ho is called a son of Abd Shems or Saba, and his brothers were Amru, a repetition of his own name, Ashar or Ezer, and Amelah or Mahalah, his sons. ${ }^{\text {st }}$ Malik was an carly king of Oman ; and Shammir a descendant of Himyar.s The descendants of Amelah are said to have cmigrated to Damascus, and there the Trachones, a memorial of Darda, are found, together with a Gerra that may be a record of Ezer. ${ }^{3 *}$ Two modern names, Dummar and Aswad, in the same region may preserve the memory of Zimran and Ishod.

Unlike the family of Gilead, that of his brother-in-law Zimran seems at some remote epoch to have passed over from Arabia into Ethiopia, and to have dwelt for a time also in certain parts of Egypt. We find them in the Sembrita of the former country, who were

[^11]governed by a queen. ${ }^{\text {so }}$ These are the modern Amharas. There dwelt the Agrii, and thẹe we meet with Eisar, Tasitia, Mosylon or, Mossylicus, Eamenes, Acila, and Darada. Deire, which is said to liave denotel "the neek," and thus to have been a Greek word, may havo been originally derived from Dar, a pearl, a string of pearls forming an ornament for the neck, for it is the Torgues of the Celts, in whose langnage dore or torch signified a collar or necklace. Al Alhough generally of gold, the torques were somotimes composed of amber beads. The Indian ornament Mekhali, the necklace of Manlius Torquatus, the golden collar of the Irish Malachi, serve to unite Mahalah and his son Darda in the invention of this article of dress. ${ }^{53}$ Circumcision prevailed among some of these Ethiopian tribes. ${ }^{60}$

The Zimri passed into Lower Egypt, whether by way of Arabia Petrea or upwards from Ethiopia I camot tell. An early historical notice of the sons of Keturah is given by Josephus, in which he unites them with the Egyptian Hercules, and makes Epher, the second son of Midian, the namer of Africa. ${ }^{\omega}$ A part of Zinman's family must have entered the land of the Pharaohs in this migration. Milukhi, a kingdom mentioned in the Assyrian inscriptions, and which Lenormant at first identified with Meroe, the land of the Sembrite, was in the Delta. ${ }^{\text {at Metelis and Menelaus, which, according to Aristides, }}$ had its origin long bofore the time of the Lacedemonian hero, doubtless indicate tho position of this Mahalite kingdom.0 Schredia, near . at hand, is a perfect representation of Ishod; and two places named I':posiris, in the same region, are in all probability the memorials of Abiezer. Glaucus, near Libya, may unite Chalcol. There was a Deirut between SIetelis and Schsedia, and a Tarichea north of the latter city. It is worthy of note that the god Malouli was worshipped at Talmis, in Ethiopia. ${ }^{63}$

The old tradition that Northern Africa was in great part peopled by the Homerite is undoubtedly true. ${ }^{64}$ It is also true that Celts,

[^12]whom Pritchard calls Cumbrians, Trere found in the same region. ${ }^{*}$ These aro alike the Zimri, whose record in Cyrene, Semoros, conneets them with the Assyrian Sumerinns. A part of the Cymuri followed the course pursucd by the main body of the Celtic emigrants, and passed into Europe from Asia by the Black Sca, the Sea of Marmora, or the Ægean. But o very considerable ?ortion of this fatmily followed the route of the Trojan fugitives in Roman story, and of the Celts who peopled Britain and Ireland, according to their native traditions, that, namely, which lay along the northern coast of Africa from Egypt to Carthage, whence they set siil for Sicily; or to the pillars of Hercules, where they passed over into Spain. ${ }^{*}$ Three Cymric tides at different periods thus set in to Europe from Asia and Africa. That which traversed a Greek and Sarmatian area probably became Germanized, and developed the Cimbri of Juthand with other Germanio tribes. These were Asiatic Cymri. The first in point of time of the two African migrations, that which set out from the neighbourhood of Carthage, furnished the Cymric element in the Italian populations, and fused in part with the two other streams from the east and west in Rhoctia and Helvetia. The western migration filled Spain, occupied part of Gaul, and sent colonies into the British Islands. Still another stream, I believe in common with Mr. Hyde Clarke, visited the Azores, the Canary and Capo Verdo Islands, and moved westward into the New World. ${ }^{07}$ I propose devoting a separite paper to the Celts in America. To return, hovever, to the traces of the Cymri in Northern Africa. We have already found Semeros in Cyrene. In the same Libyan region we meet witls Auschite, as in Arabin, with Nausida, Aziris, Menelaus, Masadalis, Ampelus and Ampeliote. In Africa and Numidia appear Zamorn, Sidetani, Pisida, Azarath, Sizar or Usar, Sizara, Mascula, the Misulani and Machlyes, Amuncla, Damensii, Igilgilis, Culcua, Culucitanæ, Durga, Tarychix, Tritonis, and a host of similar names. There also the Mideni carry out the Midianite connection, that has more than once helped to attest the Keturite origin of the Zimri. Sallust, quoting from the library of Hiempsal, states that among the ancient iuhabitants of Africa and Nunudia there were Medes, Persians and Armenians, who had followed the fortunes of Hercules, and that the

[^13]name Mede becamo corrupted into that of Moor. ${ }^{\propto}$ Some ancient tradition must havo given rise to suoh a statement. The iledes of Sallust were no doult the Midianites, and his Persians the descendants of Peresh, the nephew of Zimran, some of whom I traced to Libya in my last paper. Mauretania was pre-eminently a Zimrite country. Thamarita, Tumarra and Camarata were records of Zimran. The great river Molochath, like the Nahar Malcha of Babylonia, commemorated his wife, whose name is identical with it in form and meaning. Usceta, Sigatha, Sitisi, set forth the relations of Ishod's descendants, and the Massxsylii, Malliana, Amilos and Empelusia, those of Mahalah's progeny to this African province. Asarth, Tigrisis and Tasagora might easily be reminiscences of Ezer. In Mina Heman's name may appear in an abbreviated form ; the Chalcorychii mountains should preserve that of Chalcol; and-Durdus Mons, the Drgite, Daradx and Dracones, and similar words, recall the name of Darda.

Having taken Palestine virtually as our starting point, and having explored the lands east and west, we now return to it, and pass northward into Phonicia and Syria. Already wo have made an excursus into the neighbourhood of Damascus, in connection with the history of the Banu Amelah. With them we have associated Dummar, Aswad, Gerra and Trachones. There was an Azar also in Syria; and Mahallib and Ampeloessa may have been traces of the Amelah. Amana and Haminea, Trieres and Daradax should relato to Homan and Darda. Turning to the Phonician history of Sanchoniatho, I am conscious of a wrong identification which I proposed in a former paper. It is that of the hero Demaroon. ${ }^{\text {a }}$ He was the son of a well beloved concubine of Ouranos, who had been taken from him by Ilus or Cronos. In him we must find Zimran once more appearing, as he has already appeared in the Persian, Chaldean and Arabian historics. The fact that the son of Demaroon was Melcartus, and that Adodus was associated with him, tends to prove this connection. ${ }^{0}$ Melcartus is Mahalah, and Adodus probably Ishod. In Melcartus we find an assumption by Mahalah of the name of his mother Moleketh. He is Moloch Mars, Enyalius and Miles, the soldier par excellence. The Tamyras river of Phenicia commemorated Demaroon or Zimran. The mughazils, or phallic monuments of Phœnicia,

[^14]probably retain a name once given in memory of the youngest son of Hammoleketh to rites chamateristic of her worship." The Phonician colonies indicate that the family of Zimran was once powerful there. Camirus in Rhodes, naned after Caminus, the son of the nymph Hegetoria, is undoubtedly a record of Zimran, tho son of Keturah.7 Milth, with its phallic monuments, receivel its designation from Moleketh or Mylitta. ${ }^{35}$ Cossura may heve retained the name of Ezer. Melos and Thera can hardly be dissnciated from Mahalah and Dexda. In Spain Abdera and Malaga, in connection with the Bastitani and Turdetani, also afford traces of Abiezer, Malalah, Ishod and Dardia.
In Armenia we find vestiges of the family of Zimran, as well as of that of Gilead. It contained Zimara, Astacana, Testis, Azora, Molchia and Acilicene. Darda appears to bave had no memorials there. The recion of Caucasus, besides the Cimmerii upon its borders, furnishes Sioda of Albania, Seumara and Vaseda of Iberia, Absarus and Mechlessus of Colchis. In the Glaucus river, the Cilici of Colchis, Colchis itself and the Thrsura, we may discover footprints of Chalcol and Darda. Nadia, like Motene of Armenia and similar names elsewhere, keeps us in mind of MLidian's relationship with Zim:an. ${ }^{334}$ Pontus, in Pimolisa, Megalopolis and Collucia, perhaps exlibits the mariss of occupation by Mahalah's and his son Chalcol's desce:adants. Cappadocia, so rich in Cileadite names, was not altogether destitute of the records of Zimran's line. There we find Imhants and Sinoria, the Scydices Mountains, Aziris, Melitene, two rivers named Melas, Eumeis, Gaolasera and ad Dracones. Cilicia was pre-eminently a Gileadite habitat. There Zimran's name survived in Coinmoris. Posidium, built, according to tradition, by Amphilochus, ind Mallus, which contained his oracie, together with Melania and Myle, show that Ishod and Mabalah went hand in hand.: The family of Heman appears prominently in the Amenides and Homonadenses. Amphilochus, as the namer of Mallus, was undoubtedly Mahalah, and his father Amphiaraus, Zimran. At Mallus Calchas was associated with Amphilochus, and he was his second son Char-

[^15]col.'5 Pococke has well set forth that the name Calchas and all the associations of that hero point him out as a Buddhist priest: The character for wisdom and the skill in gnomic poetry attributed to Amphiaraus, Amphilochus, Calchas and Tiresias, clearly indicate that in their history the Greek writers preserved part of the story of Zimran, Mahalah, Chalcol and Darda." In Paphlagonia, the same family appears. Gazora reproduces Ezer ; Timoleum, Mahalah ; Domanitis, 'Timonitis and the Amnias, Heman; and Callichorus, Chalcol. Galatia recalls Ishod in Vasada; and it will be remembered that Josephus unites Galatia with Gomer. Phrygia presents us with Thymbrium and Amorium, Isauria and Achara, Melissa, Nacoleia and Philomelium. which is Abel Meholah, Eumenia, Glaucus and Cillexuga, Trogitis and Tyriæum. Midæum once more connects the Midianites. Bithy nia, a settlement of Bedan, shows that Celt and Cymri rarely parted company. Thymb'rius and Smyrdiana, Astacenus, Astacus or Nico media, Posidcum, Aminias and Callica give Zimran, Ishod and thr two elder sons of Mahalah. Thymbrius in Pisidia and Chimæra in Lycia are alike memorials of Zimran. Pisidia, Isauria and Milyas in proximity, were tracts bearing the names of his three sons. ${ }^{7 *}$ A Herodotus informs us that the Pamphylians were the people of A mphilochus and Calchas, we must find in Pampbylia the name Mahalah, with the pretix of the Coptic article. ${ }^{78}$ Amblada in Pisidia and Melas in Pamphylia are other forms of the samo name. In ad dition to Pisidia itself, which precedes Ishod with the Coptic artict also, he was celebrated in Side of Pamphyiia and Isionda of Lycia. The Agrioteri palus of Pisidia may be added to Isamia as a record of Ezer. Hanona and Darsa in Pisidia, with the Gliaucus of Lycia, perfect the Zimrite record in Heman, Chalcol and Darda.

In Caria, Zimran, Ishod and Mahalah are found as Thymbria, Pystus, Posidium, Miletus and Mylasa. In Lydia, Smyrna, near which ran the BLeles and to the back of which rose Tmolus, has been identified by Mr. Hyde Clarke as a Sumerian city.:3 Ephesus als was called Samornia, deriving its chief name doubtless from Ephah,

[^16]tho eldest son of Midian. Thymbreo was another memorial of Zimran. Thero likewise appear Melæna, Mycale and Ampelus. Mysia contained a Cimmeris, a Thymbris and a Thymbrium. Mallus reproduces a feature in the nomenclature of Cilicia. Callicolona, Troas and Tragass set forth Chalcol and Darda. The Tragasman salt pan recalls the Taricheas of Palestine and Africa, which were pickling stations, and, taken together with the supposed meaning of Malaga as the town of salt and the occupation of its inhabitints, suggests an association of Mahalah and Darda. ${ }^{50}$ Lydian history affords valuable aid in the work of identification. In the time of Atys, the Lydians, compelled by famine, emigrated from Smyrna to Umbria, thus carrying with them their Zimrite name. ${ }^{81}$ Meles and Tmolus appear in different lists as Lydian kings. ${ }^{82}$ They are the same person, who is Mahalah. An obscure narration concerning Tmolus, taken in connection with similar stories that will yet meet us, confirm this statement. The Abbe Banier says: "Tmolus, King of Lydia, if we may credit Clytophon, was the son of the god DIars and the nymph Theogena, and, according to Eustathius, of Sipylus and Eptonia. Ono day as that prince was hunting, he perceived one of Diana's companions who was named Arriphe. The king, bent on gratifying his passions, cagorly pursued that young nymph, who, that she might not fall into his hands, thought to find a sanctuary in the temple of Diana. Arriphe was violated at the fect of the altar. So cruel an outrage plunged her into the deepest anguish, and she would not survivo the misery that had befallen her. The gods did not allow her death to be unpunished. Tmolus, carried off by a bull, fell upon stakes, whose points ran into him and made him expire in the most exquisite pain. Thus perished that prince, who was buried upon the mountain that went afterwards by his name." It is in Palestine, at Abel Mebolah, or in Chaldea, that we must find the scene of this tragical, and, as will yet appear, oft repeated story. The Lydian dynasty of the Mermnadx, and Ascalus, connected with the early history of that lingdom, illustrate the relations of Ziman with Eshcol and Mamre. ${ }^{\text {st }}$ Claros, in the same country, relates to the story of Amphilochus and Calchas.ss The most remarkable feature in Lydian listory, however, is that which

[^17]connects with tho poet Homer. Chios, lying off the coast of Iydiar possessed a class of men ealled Homeride.* Thoy were singers, and I cannot but think that their name is the old word Zimasn or Amhran, the soug. Ilgon gives such $\Omega$ meaning to the mamo Fomer itself. ${ }^{87}$ Smyma hid chaim to bo his birth-place, and undoubtedy Zimmen's descendants named that city. But tlie names of Zimran and his son Mahalak are constantly found in the genealogies of the blind noct. Thus he is called the son of the Smymean river god MEoles. His mother again is the daughter of Menapohes and a daughter of Omyretis, or of Theseus, the son of Eumeles, and a nymph Smyzna. Her name Critheis is like tho Scandinavian Gerda, the daughter of Gymir. In anothers me, Mreon of Lydia, whose namo may havo been the same as Heman, was his father. It is remariable that Hesiod is made a nephew of Mron, bearing, as the name does, such a close resemblance to Ishod. Perses also, the brother of Hesiod, is identical in form with Peresh, the cousin of Ishod. I do not by any means assert that JIomer was Zimran, or cven that Mahalah or Heman was his father, but these names must indicate that the great poet was a Zimate. It is also very probable that he never saw Asia Minor, and that the scencs and peoples he sang of were to bo found somewhero between Palestine and Arabia, Erypt and Babylonia, where all the manes he mentions may be discoverel in a truer Homerio order and of a more thoroughly Fomeric character than in Asia Minor and Greece. ${ }^{\text {w }}$ Ishod can hardly fail to have been the old Esyetes, whose

[^18]tomb was supposod to bo in the Troude. ${ }^{\text {P }}$ MIolion, the chariotece of the Trojna Thymbraus, presents an interesting union of Zimrite names; and Caria long retained a love for that of Mahalah." If the Cimmerians and Treres overran this part of Asin Minor during the historieal periol, it must have beon, like the Galations, to regain a former bonc.

Passing over into Europe, Thrace first ougnges one attontion. Ismarus, Fimarium and Compyra preserved the name of Zimman; Sestos, Satire and Astica that of Ishod; Abdera, Agora and the Agrimes that of Abiezer or Ezer; and Melas, Ampelas and Nanlochus thoso of Mahalah and Moleketh. Darda finds many memorials, as in the Dorssi, Treres, Dorisens, Drys, Tirizis, Tyrodizn, de. ; and it is possible that the very namo Thracia came from the form Darag. It is true that the name Zamolxis is not very tike Malalah, yet as ho is called the teacher of tmmsmigration to the Druids, and as a god of the 'fhracians, I incline to the belief that they are the samo person." Thamyris, the blind Thracian bard, unites the character of Zimman and the Homeribe with a name like that of the Phonician Demaroon or Baal-Thamar. ${ }^{3}$ Macedonia contained comparatively few Zimrito names, for Gileadites occupied a great part of the country. Still Combroa, Satis, Schiate, Pissantani and SEgestea, Abderites and Agrianes, Amonia and Derkis appear as records of Zimman, Ishod, Ezer; Feman and Dara. What is wanting in Macedonia, Thessaly supplies. Zimran lives in Amyrus, Ambrysus and Chimerium; Ishod in Elesticotis, Phostus and Sciathos of the Thessalian coast; Ezer in Azorus; Maholah in Melin, Mallea, Mile, Melas, Homolium and other places; EIeram in AEmonia; Chalcol in Cechalia, Iolcos, Ighiaco; and Darda in Tricca, Titarus, Titaresins, Dyzas and tho Dryopes. The Melian territory of Thessaly was possessed at an early period by

[^19]Eumelus, who is called the son of Admetus, but who is also made an ameestor of Homer. ${ }^{94}$ Melia and Meles indicate, as does Mathus inthe case of Amphilochus, something of the true form of his name. The Dryades, whose appellation has always been connected with the oak, aro called Meliadæ, and belonged to Melia of Trachis. ${ }^{\text {s }}$ Tho story of Thamyris the Thmoian relates to Echalia and Trica. Hestieotis was a fanous Doric region, and from it descended the Dymanes and Pamphylians. ${ }^{\circ}$ I can hardly think that the Dorians were of Darda, although the memorials of the Zimri are to be found largely in Doric areas, and the love of swine was common to Dorians and Druids. Dymanes and Pamphylians, representing Heman and Mahalah, are called descendants of Egimius, whom I have elsewhere identified with the early Persian Achemenes and with Ochime, the husband of Hegetoria, from whom came Camirus. ${ }^{\text {n }}$ This personage is Achumai the Horite, whom I have already mate the real head of the Dorian line. Ho was, I think, the father of Zemb, who married Keturah after the death of Abrabam. ${ }^{38}$ Zerah will thus be the head of the Zorathites or Dorians, of whom the mythic King Eximius was the ancestor. The Myrmidons of Emonia, like the Mermnadx of Lydia, connect the family of Mamre. As Asciamus, the Lydian king who sent Ascalus to found Ascalon, has been shown by me to be tho same as Achumai, Acheracnes, 死gimius and Ochime, we properly find him synchronizing with the family to which Zimran belonged. ${ }^{\infty}$ Epirus is far from deficient in traces of the Cymri. Such

[^20]about 1900 E3.C. Rcaiah or Ras
sbout 1520 B.C. Jathath of Actocs
sbout ISSO D.C. Achureai or Kames
sbout ISJ0 B.C. Zerach or Cherucheres =Keturah or Desctoris

The Arabian hisforians make Ascifus 2 man of Ludim Labad or I.jdus mis too bretber of Achumal. 2 Chron. ir. a
are Chimarium, the Chimerian promontory, Comarus, Tomarus, ${ }^{95 *}$ and, better still, Ambracia, a state founded loy Torgus. ${ }^{100}$ Posidiunt, Issoria, the Molossi and Omphalium were probably named after the threo sons of Zimman, and the Amynta after Heman. The story of Milo, who slew Laodamia in the temple of Diana, where she had taken refuge-through whom a curse fell upon the whole of Epirus; and who, seized with anguish, tore out his own bowels and died in extremo agony on the twelfth d.y after the murder-bears a very close resemblance to that already narrated concerning Tmolus. ${ }^{101}$ More light may thus bo shed on the meaning of Abel Meholah. Acarnumia contained an Astacus, which may have commemorated Ishod. Etolia is a supplement of Epirus. On the borders of Ambiacia, the land of Zimman, appears Amphiiochia, founded by Amphilochus or Mahalah. ${ }^{102}$ There also we find Thestia, the Agreei and Acre, the Dymei and Ochalia. The stories of Tmolus and Dilo are reproduced in that of Meilanion and Atalanta, the scene of which is laid in Calydon, the Gilead of Greece, unless wo are to transfer it to Arcadia, the home of Atalanta's father. Whiic Mrilanion and she were hunting together, they profaned the sacred enclosure of Jove with their love, and for this ofience were metamorphosed into lions. ${ }^{106}$ Mcilanion can hardly bo a different person from Meleager, whose history is more closely linked with that of Atalanta, and who was of Calydon. Meleager is made a son of Genens or of Mars; and Thireus his brother, like Dryas and Tereus, other sons of Mars, recalls the name of Dira, the son of Mahalah. He perished under a curse, that of his mother Althe:a, who may be Alitta or Mylitta. Amphiarans and Thestius comect with his history. ${ }^{104}$ Ino Lencother, the Colchian. goddess, w:fe of Athamas and mother of Melicerta, is more like a furm of Hammoleketh. ${ }^{\text {as }}$ Athamas I have associated with Etam or Abi-Etam, who named Ethan in Egypt and Arabia. ${ }^{108}$ As Abi-Etam

[^21]he furnishes the name Amphidamas, which is that of the father of Meilanion, and as Etam, Admetus, that of the father of Eumelus, who also is made Makalah. Eitam had no such son, his cldest born being Jeareel. Mrammoleketh was not of his family ; so 1 come to the conclusion that Mahalah was his connection by marriage, an hypothesis which another lergend, the seene of which is laid in Achaia, confirms. ${ }^{\text {10; }}$ In Locris, the geographical names Phrestris met Triteca probably refer to Ishod and Durda. There we find that eertain Theoi MIelichioi were worshipped, and these Bryant derives from the Semitic Melek. ${ }^{108}$ Phocis furnishes Ambrysus, Tegyre, Amphiclea, Myampolis, Calliehorus and 'fixtia. ${ }^{100 *}$ In Homer we ind Schedius as a Phocian name. ${ }^{10}$ The Phoman colonies also had Zimrite names, aud, in particular, Massilia in Gaul, which wes called after Mahalah. In Bootia, Amphiaraus had a phace delicated to his worship; and Agra, Mycalessus, Homon and Ocalea commemorated two of his sons and'en equal number of his grondsons.

In Attien, the descendants of Darda were prominent, exhibiting thoir taces in Thria, Thoree, Thoricus and Deriades. But Amphiaraus had a sanctuary there; Agre and Achare were memorials of Ezer; and Amphiale and Melænx of Mahalah. Zeus Meilichios was also worshipped in Attic. ${ }^{\text {no }}$ With Attica, Egina must be associated. Thence camo the NIyrmidons, whom I have already asserted to be the progeny of the Amosite Mame. Myrmidon himself is confounded with his nejhew Zimman, for Pisidice, a name derived from Ishod, is made his wife, and Actor or Ezer his son. ${ }^{141}$ Actor maried Molione, a name recalling Mahalah, and among his sons were Wencetins and Echeclus. ${ }^{\text {un* }}$ The Latter is phanly Chateol his nephe:i, and the former Meonothai, whom, in the commencement of this papar, I asserted to be the son of Ezec. Menoctins marred a cert:in Sthenele, who shoald be Mathath, the danghter of Othniel, with whom Meonothai is thus mited in the book of Chronicles. ${ }^{112}$ Argos

## 10: Visc Alote 115.

${ }_{205}$ Pausan. x. SS. Analysis of Ancicat Mythology, i. St.
 set forth Kiman, Johstann, the nets, 2nd Hidiar.
ics Hliau, ii. 31\%, 2v. 316.
110 Pausan. i. 37.
IIt Theso 3yrmilons wete conncetol olso rith rimosia In Thessals. 114* Actor is also made to bare cearried Fgina, thus kerjing up the nominal conecction.

1821 Chron. iv. 13, 17. Sthencius is the Greck form of O:hniel, the nist letter of whici, js an ayin. Hencetus is aiso nate the son of Ceuthon\}nucs, which is a compaption of the Sepiunaint hame for Othniel, Godonlel. For the geographical consections of 2leonothal and Opiarah his suin, sce the cad of thes praper.
exhibits few geographical traces of the Cymri. Zeus Meilichios, however, wis worshipped within its bordors; and Umbilicus, near Phlius, which contained a place sacred to Amphiaraus, may have beon a corruption of Araphilochus. ${ }^{13}$ Epidaurus may be a record of Abishur; the rivers Sythe of Ishod; and Thyrea of Dera. Argolis is famous as the supposed home of Amphiaraus. His reputed father Oicles may have been Esheol his uncle, and his son Amphilochus, as naming SIallus and similar places, should represent Mahalah. Alcmeon was made another son of Amphiaraus." This name must relate to the family of Hammoleketh, which I have alueady intimaterl was that of Beth-Lechem, o. the Arabian Lakm and Lokman and the Indian Lakshman. With it also the Etruscan Lucumo is connected. Tiresias and Calchas, intimately associated with Amphiaraus and Amphilochus, and, like them, famous soothsayers and poets, point to Cualeol and Durda, two wise men who were thought worthy of comparison with Solomon. ${ }^{15 *}$ Baton, the charioteer and relative of Amphiarnus, must be Bedan, the grandson of Peresh, the nephew of Zimma. ${ }^{15}$ His wifo Eriphyle seems to exhibit at confusion of Zimran with Mahalah, for he was the violator of Ariphe; and the famous necklace of Eriphyle is the Indian Mekbali, the collar of Malachi, the torque of Manlius Torquatus. ${ }^{215 *}$ A curse rests upon Alemeon, similar to that which fell upon Tmolus, Milo, Meilanion and Meleager. The relation of Meleager to CEneus may find an illustration in the fight of Alemxon to the Giniadx. The Zimrite names Megacles and Mippocrates, forms of Mrahalah and Abiczer; belonged to the Alemronide. It was Megacles that directed the slanghter of Cylon and his companions, who at Athens had risen in rebellion against the legal coile of Draco, and who, having fled for refuge to the sinnctuary of the Eumenides, were slain at the altars. ${ }^{116}$ The ume Megacles, the Alcmeonid connection, the profmation of the wompe, and the curse which followed it, seem to refer us to the ancicut story which already fivo times has appeared in relation to

[^22]persons who have links of union with Mahalah. Amphiaraus disappeared from view, we are told, at Oropus in Attica. ${ }^{137}$ I do not as yet uederstand why this name is associated with his, but have found similar geographieel terms accompanying the wanderings of Zimran's family.

On the Isthmus, Agosthene and Minoa of Megaris ; Amphiaraus, Yearia and Molychium of Corinth; and Derus of Sicyon may have been traces of the Cymri. ${ }^{118}$ \& Achaia contained Egira, a record of Ez3r, and Melas, with perhaps Megalopolis, commemorating Mahalah. I need not apologize for supposing that names thoroughly Greek in structure, and bearing well defined Greek meanings, may have been manufactured out of Zimrite materials. The rage for ctymologies prevailed anong the Greeks, and every proper name that was susceptible of a Hellenic form and signification was tortured into these. The same'process which fabricated Tarry Eut out of Jerre Haute, in Indiana, could casily, in more ancient days, transform Mahalah into Megale, and explain Mycale as Mygale, the sherewmouse. What renders this probable is, that a river Milichus or Ameilichos, reproducing the Malcha of Babylonia and the Molochath of Mruretania, flowed through part of Northern Achaia into the Corinthian Gulf. According to Pausanias, this river received its name from the adventure of Melanippus and Cometho in its neighbourhood. ${ }^{\text {ns }}$ Melanippus, the son of Mars and Tritia, and Cometho, the daughter of Plerelaus, who was a priestess of Diama, satisfied their love in the temple of that goddess. A curse accordingly fell upon the country, and the guilty parties were immolated at Diana's shrine. This is the third time that a similar act of sacrilege in connection with Diana's worship las come before us, associated with a name which more or less resembles that of Mahalah, and the seventh in which a similar name has been identified with sacrilege and a curse. Tmolus and Meleager, like Melonippus, were called sons of Mars, and Milo was one of the names of that god. Tritia also, as a form of Darda, is a Mahalite appellation. The fathers of this or of other Mrelanippi are given as $\lambda$ stacus, Hicetaon and Agrius, names which recall Ishod and Ezer. I have already

[^23]given reasons for supposing that Mahalah married into the family of Etam or Abi-Etam, whom I identifiod with Athamas and Amphidamas. The eldest son of Etam was Jeareel, or Jezregel if the power of the medial ayin is mado prominent. With the prefix of the Coptic article, Jezreel becomes Pterelans, and he was the father of Comotho. ${ }^{119}$ But, as I have stated in a previous paper, the Chaldean Jearegel was Kurigalzu, and he, by Mr. George Smith, is made the father of the Babylonian Milisihu. ${ }^{120}$ I am justified, therefore, in believing that, when the history of Milisihu is recovered from the tablets, the tragical story of Mabalah will appear to the world as the original of all the legends concerning Melcartus, Melicerta, Meleager, Meilanion, Milo, 'Lmolus, Megacles, Amphilochus and Melanippus. ${ }^{130 *}$ Glaucus and Tritox, in Achaia, add Chalcol and Darda to the otler Zimrite traces of that state. ${ }^{120}+$

Arcadia evidently at some time had a Cymric population. They left behind them Sciathus, Aseatis and Acidus, Agra, Amilus, Malea, Malona, Molossus and Megalopolis, AEmona, Aminius, Gechalia and Calliæ, Trachys and Thyreum. Thamyris was associated with the Gchalia of Arcadia as well as with that of Thessaly, or, in other words, both of these reproductions of an ancient seat of the Zimri in the East preserved the memory of the ancestral poet and sage. The name of Heman appeurs in Arcedia as Eurmon, who is called a son of Lycaon or Beth-Lechem. I have already drawn attention to the remerkable Greek word Epikouros, meaning, like Abieze:, the helper, while it bears to it a close resemblance in form. The Latin Ajutor presents also a perfect transliteration of Jaazer in Gilead. Apollo Epikouros was worshipped in the neighbourhood of Phigalia, and he was honoured with the sacrifice of a boar on Mount Lyceus. ${ }^{121}$ The Arcidian Orchomenos has many links to unite it with that of Bocotia, and the Actors who are associated with its history are Ezers of the Zimri. Elis contributes Pisatis, another Pisidia, Acidon, Omphalium and Amphidoli, Scollis and Dorium. Another CEchalia and another Dorium, with Thuria, in Messenia, illustrate the story of Thamyris. Jaconia, a Doric

[^24]state; affords some of the best exemplifications of the constancy of proper names. Such are Scotitas, Acrie. Mesola, Malea, Monelaus, Amycle, Ochalia, AEgila, Derrhium and Thyrides; while Cythera, of Malea, represents a memorial of Keturah. Laconia was the land of Leth-Lechem. Amyclas himself was MLahalah ; his brother Cleochavis should have been his son Chalcol; and Deritus, his son, is Darda. ${ }^{122}$ At Sparta Enyalius and Amphilochus had statues; and at Therapne there was a temple of Mars Therita. ${ }^{\text {: }}$ Amphiaraus also was worshipped at Sparta. Eumelus and Tyrtaus, as Spartan pocts, must have belonged to the Homeride. Mr. Cox has drawn attention to the parallel which the story of Agamemnon, the brother of Menclaus, presents to that of Amphiamus. ${ }^{124}$ The wife of the hero in either case was slain by his sons, and the rolation of Amphiarms to the Tyndaride seems to suggest, along with the appearance of such an Ishod-liko"name as Egisthus in the story, that a confusion of legends pertaining to the Zimrite family had taken place in the Spartan mythology. The family of Agrmemnon at least fell under a curse similar to that which has already so often been associated with a mame akir to that of Mabalah. Zaleucus, the Doric lawgiver, connecting with Draco, and who has been supposed to have relations with Pythagoras and Zamolxis, may have been Chalco?. Mr. Cox unites him with Horatius Cocles, the Cyclopes, Oxylus, and other one-eyed heroes. ${ }^{125}$ As he also connects them with the Scandinavian Mimir, I incline to the belief that Eshcol and Mamre are the originals of all the fables concerning these heroes.

Turning to the islands of the Levant, Cyprus, which had intimate relation with Phomicia, maintained a priestly class of Tamyrads; and its geographical names, Golgoi and Treta, may havo had for their originals Chalcol and Darda. ${ }^{126}$ Crete contained almost all the names; Cimarus, Camara, Phestus, Aptera, Metillum, Amycheum, Omphalia, A nupelus, perhaps Amphimalla, Minoa, Tarrha and Tityrus. In Crete lived the ancient king Melissens, whose dnughter, Amalthen, may easily have been a Mylitta or. Fammoleketh. ${ }^{127}$ Ifer horn,

[^25]according to Mr. Cox, connects with India in the cup of the Malee's wife. ${ }^{123}$ Eubca had Amarynthus, Hestixa, Damyne, EEchalia and Trycha. It was from Hostiea that Amphielus went to Chios, whero the is said to have reigned after Enopion. ${ }^{1=9}$ Amphiclea of Phocis contained an oraclo of Bacchus. The Amycleans claimed kindred with the poople of Imbros and Lemnos. The latter island, like Limure in Laconia, may have been an abode of the Fremanites, since Hitzig supposes that Eiamene is the root of the name. ${ }^{230}$ Lasharon and Leophrah, the Greek Laphriat and Lencophrys, aro two Palestinian forms illustmang such a prefix. ${ }^{131}$ Lemnos was famous for the extinct volcano Moschylus. Imbros, with its deity Imbramus and port Ňulochus, was a Zimrite island. Lesbos contained a Malea. Zimran and his son Mahalah were commemorated in Samos, which Tembrion colonized, and where Imbrasus, Ampelus and Amphilissus appeared. ${ }^{132}$ Melos and Thera I have already associated with Malalah and Darda. In Rhodes we find Camirus, and the person of that vame, as the grandson of Ochime and Elegetoria, I have identified with Ziman, the son of Keturah. His father, Cercaphus, must be Zerach or Kerak, whom I have supposed to be the son of Achumai and stepfather of Zimran. ${ }^{133}$

The great Sarmatian territory contained the Cimmerians, or early Cymri and Cimbri, who inhabite:l the Crimea and adjacent regions. Their sea, which was the sea of Azor, they called Temerinda, after Zinuan, and the Amalchian after their great mother Fammoleketh. Among them were found such geographical mames as Tamyraca, Sagastene, Sittaceni, Agri, Acria, Apaturium, Ambenus, Taman, Chalca, Treres and Tauri. Few traces of the Zimri appear in Moesia and Dacia. ${ }^{134}$ In Illyxia, however, we meet with Dxsitiates, Epicaria, Absozus, Metulum, Dimallum, Emonia, Amantes, Clausula, Cylices, Darrii, Daorisi and Turres. Etymologically Dimallum bears the same relation to Mahalah that Dyrrhaciam does to Rekem. Pamnonia I have shown in tho former paper to have been a great Celtic centre.

[^26]Comare or Komorn and Sumerein retain the name of Zimran; Segeste and Segedunum that of Ishod; Agria or Abieta that of Ezer in its two forms ; and Aemona and the Amanteni that of Freman. In Noricum we discover Ambilici, Ambisontii, Cuculle and Trigisamum. Vindelicia had an Ambre; and Rhætia. Isarus, Maletum and Oscola.

We bave thus arrived at the borders of Italy. In Venetia and Istria a few names appear, such as Atria, Motila, Malum, Aquilegia and Tergeste. ${ }^{131 *}$ Gallin Cisalpina is naturally much more full. There we meet with Umbranum, Sessites, Testona, Isarci, Acerrec, Edrum, Emilia, Mediolanum of the Insubres, Mutilum, Cameliomagus, Colicaria, Ocelum, Duria, Durix and Tarus. Tusculum is an indication that Eshcol's family was here represented; and Orobii reproduces the Oropus that accompanied the line of Amphiaraus. Liguria furnishes Asta, Cestie, Segeste, Ampelus and Monilia. Mr. Hyde Clarke, to whose important work I have so frequently had occasion to refer, unites the ancient Etrurians with the Sumevian stock. ${ }^{133}$ Among tneir geographical names wo find Umbro and Amerium, Hasta and Pisatx, Auser, Pistoria and Magliana or Manliana. Demaratus, the Lucumo, is Amphiaraus, the head of the Alcmæonida, and Zimran, united with the house of Lechem. He was the father of Tarchon, and the son of Etymon, who has already been before us as Athamas, Admetus, Amphidamas, \&c. ${ }^{130}$ Umbria was preeminently the land of the Cymari. ${ }^{137}$ Besides its own name, those of its cities Ameria, Camerte and Camarinum attest this fact. The Eginetre sent colonies to Umbria, aud there Myrmidones, or the posterity of Mamre, were found. ${ }^{1374}$ Asitia or Assisinm, probably Suasa, Pisaurum, Matilica, Meuaniola, Gallicana and Clusiolum set forth Ishod, Abiezer, Mahalah and Chalcol. Cumerium, Tris: and Tetricus of Picenum seem to indicate that Darda occupied the same position in that state as Chalcol occupied in Umbria.

Virgil brings his Latins from Africa. ${ }^{133}$ Among them appear Semurium and Simbruinæ, Setia, A mycle and Trerus. Thymber and Tmarus are Rutulian names that Virgil did not create, but found doubtless

[^27]in ancient traditions. ${ }^{239}$ But Cimber was a distinctively Roman name, and appropriately it appears in connection with Metellus. The Metelli, however, were Cacilian, and thus add Chalcol to Mahalah and Zimran. It was Cæcilius Metellus that threw himself into the flames of the burning temple of the Vestals, and thus acquired immortal fame. ${ }^{100}$ The name Vestal, derived from Hestia and supposed to connect with the Persian Avesta, I have already associated with Ishod. A famous Vestal was AEmilia. Her virtue being doubted, she threw her veil into the sacred embers, and the fire kindled of its own accord. ${ }^{41}$ This fire, which was allowed to dio away on the last day of the year, is the fire in which the mother of Meleager consumed the fatal billet and thus terminated his life. At Festi in Latium the Sabine sacrifices called Ambarvia were offered, and these Strabo associates with the story of Romulus the son of a Vestal. ${ }^{132}$ Amulius, another form of Mahalah, who caused his nicce to become a Vestal, cannot be foreign to our subject. The Amilian gens, although distinct from that of the Metelli, may have descended through another branch of MLahalah's family. It was Sabine, and DIamercus, a name derived from Mamers the Sabine god of war, was its ancestor. ${ }^{1 / 3}$ Mamers or Mamercus is Mamre, the uncle of Zimran. Enyalius, Milo and Thurius were other names of the Sabine Mars, indicatinor that Mahalah and Darda kept up his martial character. ${ }^{14}$ The story of Manlius Torquatus I have already referred to as connecting verbally with other legends of a similar character. Manlius is a form of Mahalah, and Torquatus, of Darda. ${ }^{155}$ Dracon in Greek denoted a necklace as well as a dragon. The Drace or water sprites of Gervase of Tilbury, referred to by Mr. Cox as enticing children into their power by the semblance of gold rings floatiug upon the water, may relate to the same word as torque and dracon. ${ }^{\text {un }}$ Sabinum exhibited its Zimrite affinities in Simbruinx, Vestini, Adria, Mesula, Mandela and Cucullum. In Samnium we find Imbrivium, Fistonium: Meles, Aquilonis, Eculanum and Aquilonia.

[^28]Campania contaned a Cimmerian region with Plutonic associations, ${ }^{\text {n7 }}$ There also appear Sestia, Setium, Acerre, Megalia; Nola, Aminea, Gallicanus, Callicula and Tirata. The Lampadophoris of Niuples, recalling the adventure of Gideon of Ebal, tho present Nablons, were instituted by Eumoles. ${ }^{\text {is }}$ Diotimus, associated w th Tumeles, is a name like Etymon, Athamas, Scc. Basta, Matcola, Caleh, Drium, Turum and Tams are Apulia's contribution to Zimmite identitication. It contained Asculam, which, like many another similar Italian mane, related to Fsheol and Ascalon of Palestine. Peestum of Lucania was Doric like Hestieotis, and, together with Aciris, sets forth the sons of Zimran. Lucania was a western Laconia or home of the house of Lechom. Bruttium furnishes Esarus, Wallee and Thurii. Its town Crotona was founded by Myscellus, who is called an Achean by some, but by others a son of Alcmon of Argos. ${ }^{k y}$ Crotona nlso was famous for Milo tho athlete, who was a disciple of Pythagoras, and whose namo has already appeared in connection with a tragical story and as that of Mars. Milo himself had a tragical end; and, stiange coincidence, he was the son of Diotimus. ${ }^{\text {rin }}$ I do not insimuate that the whole story of Milo is a fable. It can easily be that facts relatiug to a much more ancient personage were confounded with the life of the Crotonian wrestler, just as incidents which plainly belong to the Nouchian Deluge were interpolated in many narratives of more recent and local floods. Scyllacium and the Mamertines of Bruttium again indicate the relations of Eshool and Mamre with their nephew Zimman and his line. Sicily, which was above all others the land of Eshcol, and whose Zancle was no doubt the Ziklag of Palestine, is full of Zimrite names. Such are Himera, Camerina, Damyrias, Thymbris, Agcota, ${ }^{\text {b00 }}$ Acithis, Acme, Imachara, Milichic, Myla, Macella, Mascalis, Nau-

[^29]lochus, Monalus, Amenanus, Mene, Callicum, Torus, Terios and Tiracia. Himera was said to have been founded by the Zanclxi of Myle; and Camarina, by Menecolus a Syracusan. ${ }^{131}$ In cither case a place named after Zimran is colonized by Mabalah, who on the one hand is connected with the family of Eshcol, and on the other with Sheresh of Giload. I cannot but think that the earliest population of Sicily came from Africa, for on the opposite coast of Carthaginia appear Sicilibus and Membresa, setting forth the migrations of the Amorite line of Esheol and Mamre. Melita, south of Sicily, I have already claimed for the posterity of Mylitta or Moleketh. Bastia in Corsica is a reminiscence of Ishod; and Ifctalla and Tanha of Sardimia, of Mahalah and Darda.

In Gaul we would naturally expect the Zimri to bo well represented. And so in fact they were. In Narbononsis, Ambrum, Ambrussum, Comaria and the Sambracitanus Sinas illustrate Zimran; and the Caturiges with Cotorissium, the Katoorah of Ambia, or those who took their name from his mother Ketural. Setius Segustero, Badera, Mantala, Calagorris, Salsule and Tarasco are traces of most of his descendants. But the best Zimrite record is Massilia or Marseilles, which appears in a thoroughly Cymric region, and which was said to be a Phocean colony. The Ephesium of this city seems to link its history with Samornia of Asia Minor and with the family of Midian, of whom Ephah was the eldest son. Thero was a famous collego of Druids near Marseilles in a sacred forest or grove of oaks, and this wood tho Abbe Banier does not scruple to associate with the oaks of the Amorite Mamre. ${ }^{132}$ Aquitania preserved few if any traces of Zimran himself, but his descendants were commemorated in the Vasates, Sociatum, Segodunum, Acitodunum, Atures, Segora, Meduli, Mediolanum, Tamnum and Limonum. The Caderci may have been a later Caturiges or Katooral. Pezron cites Eustathius, Jerome, Isidore of Seville, the Paschal Chronicle and Joseph Ben Gorion as authorities for deriving the Ganls proper from Gomer. ${ }^{135}$ It is exceedingly doubtful wiether ethnological researches will ever succeed in taking us back to the time of that ancient patriarch, and much more, whether any tradition but that of the Bible will ever be found making mention of the great men of the antediluvian world,

[^30]whom some writors have been so prone to discover on every page of ancient history. Ludgunensis contained the Ambarri, Semuren, Segus tani, Segossera, Meldi, Melodunum, Mediolanum, Salioclitn', Aquro Calidx, which I believe to havo been a Latin version of a word foreign to that language, Tricasses, Turones and Druide or Durocasses. Belgica was a great home of the Cymri. Samora, Samarobriva, Camaracum, Cambresis, the Ambrones of Helvetia, Sambre and Kemerland of Flanders, were records of Zimran. The Suessiones may have been the descendants of Ishod. The Isara commemorated Ezer ; and the Mosella, with Medialenum and Mechlin, Mahalah. The Ambiani of the modern Amiens and Ambiatinum were certainly of Heman. Galusiacum may set forth Chalcol ; and Turicum, Duroicoregum and the modern Dort, Darda. Time does not permit me to dwell upon the geographical propinquity of the various names mentioned, but this will be found important in establishing the connection of the different tribes with one another and with their common ancestors. ${ }^{13 *}$

Spain-received its Cymric population from Africa, and probably sent the stream into Gaul. In Batica, so closely associated with the memory of the Gileadite Bedan, thero was no record of Zimran, but Ishod was represented by Asta, Asito, Segida, Setia, Setida, Bastia, and the Bastitani ; Abishur by Abdera and Hactara; Hammoleketh by Malaca; and Darda by the Turdetani. Lusitania furnishes Tomar, Armbracia, Emerita, Egitania, Gerea, MLetallina, Eminium, Cxcilium and Durius. Tarraconensis was fuller. There we find Tamara, Sambroca, Ampurix, Melsus, Cesada, the Ausetani, Cosetani and Vescitani, Agiria, Nucaria (an occidental Nagara), Massilia, Amphilochia, Amallobriga, Amænum, Calagurris, Dertosa, Turias, and Tritium. Already I have supposed a Gallic Aque Caldensis to be a corruption of Chalcol. This receives probability from the fact that Amphilochia, which Amphilorhus, who was ever attended by Calchas, is said to have visited, was also called by that name. ${ }^{254}$ Orippo and Orubium of Spain are, like Aripa and Herpis of Mauretania, links to unite Zimran or Amphiamus with Oropos. ${ }^{\text {1s }}$

Cambria, and Cymri the name of the Welsh, are sufficient indica-

[^31]tions that the Zimri passed the sea and neopled the British Islands, along with their relatives the Celts or Gileadites. Cambria or Britannia Secunda does not, however, present us with many names illustrating Zimran's line. The Seteia may bo a reminiscence of Ishod, Mediolamm and Machynleth of Mahalah, and Mona of Heman. But Britannia Prima, or the region south of the Thames and the Bristel Channol, was, according to Richard of Cirencester and other writers, a home of the Cimbri. ${ }^{1 s}$ They left their namo in the Tamar and Tamara of Cornwall, in Somerset itself and in Ambrius and Ainbresbury of Wiltshire, where Stonehengo is a memorial of Druidical occupation. Ishod's namo may have been' shortoned to Iscn, and may appear in the modern Seaton. St. Michael's Mount probably had nothing to do with the archangel, but was a close imitation of Machalah. The Damnonii, whose citics were Tamara, Isca and Uxella, and among whose rivers appear tho Tamarus, Isca and Durius or Dart, were undoubtedly the descendants of Heman, associated with those of Ishod, Chalcol and Darda. ${ }^{157}$ Ischalis and Calcua may be added to the records of Chalcol; and Darda finds abundant representation in the Durotriges, Truro, Dorset, and a large number of similar names further east. Ocrinum, tho name of Lizard Point, was perhaps a disguised Ezer. It is interesting to find Termolus as one of the chief towns of these British Cimbri, as it recalls the Termilyæ of Lycia, whom, as Milyæ, I have already associated with Mahalah. Turmuli in Lasitania, and' Tremuli in Mauritania, are two connected names. Flavia Cæsariensis cannot have contained so large a Cymric population as Britannia Prima. Yet we find there Camborium, Combretonium, Mediolanum, Durocina, Durocobrive, de. Maxima Cessariensis, although in the Roman period destitute of names directly denoting its Cymric relationships, betrayed these at a later period in the Fumber on the East and Cumberland on the West, as well as in Deira. Segedunum, the Sistuntii, Isurium, Maglove, Amboglana, Galacum, Oxellum and Calcaria, are earlier vestiges. ${ }^{15 \% *}$ In Caledonia Dumbriton, Malua, Damnii and Uxellum, may have been outlying pickets of the family of Zimran.

[^32]In the Welsh legends, Emrys or Ambrosius was a famous name. ${ }^{30}$ It was this Aurelius Ambrosius who, with the aid of the magician, Ambrose Merlin, a fatherless personage, set up the megalithic structure called Stonehenge. The mother of Ambrose Merlin was a daughter of the king of Dimetia. ${ }^{139}$ Among the mythical British sovereigns, many seem to claim kindred with Zimran and his descendants. Besides Ambrosius, we meet with Kimarus, who is called the son of Sisilius, as Amphiaraus is termed the son of Oicles. The British and Greek names must equally denote Eshcol, the uncle of Zimran. The brother and successor of Kimarus was Danius, who may easily have been Dedan, the son of Jokshan, the brother of Zimran. Tangustela, the concubine of Danius, reminds us of the Etruscan Tanaquil or Caia Cxecilia, the wife of a Tarquin. But before the time of Kimarus appears Maddan, a Midian-like name. He was the father of Mempricius and Malim, who respectively recall Ifame and Mahalah. Among the children of Ebraucus (an Ophahi), the son of Mempricius, we find such names as Sisilius, Kambreda, Stadud, Assarach, Edra, Egron, Methahel, Gaul, Gloigni and Darden. 'This may indicate simply the Zimrite origin of those among whom the corresponding names appear. ${ }^{200}$ According to some ancient historians, the Cymri of Wales were the descendants of Briotan Maol, whose language was the original Irish. ${ }^{162}$ Maol is the important part of this name, and probably deuntes Mahalah. He, as the Celtic Mars, should be the primitive Mrile, the Latin Miles, a soldier. Fionn Macumbal, perhaps the same as Macuill, was the first to embody the famous Irish militia. His daughter, Sammir, bore a Zimrite name. ${ }^{167}$ But in Malachi, who won from the Dane Tomor the collar of gold, we discover, as I have already indicated, Mfankius Torquatus, and in the collar the necklace of Eriphyle. ${ }^{2 \omega}$ Tristram

[^33]of British story, the son of Meliodas, may possibly be Datda of Mahalah. ${ }^{2.4}$ The latter hero might also be the namer of the mistletoe, so intimately connected with the oaks of his son Darda. In the British and Yrish traditions equally, a migration along the African coast of the MIediterranean is recorded, agreeing so far with those of the latins. ${ }^{125}$

In my last paper, I illustrated the wide dispersion of the family of Gilead by well defined trices of its presence in Germany and Scandinavia. Within the same Teutonic area the Zimri may bo found. The Istrevones may have received their name from Ishod. Among them appear Sicambri and Gambrivii, Segodunum, Adrana, Mediolanium, Ambiatinum, and the Dructeri. Strabo mentions Melon as a leader of the Sicambri, and Segestes as chief of an allied tribe. ${ }^{\text {ces }}$ The Hermiones furnisi Sctovia, the Sudeti mountains, Setuacatum, the Mugilones, Meliodunum, Medoslanium, the Omanni, Galegia and the Teracotrice. The Chetuori may have been a German tribe of Katoorah, and the Diduni, descendants of Dedan the son of Midian. Abore the Hermiones and south of the Baltic, between the Elbe and Sarmatia, we meet with Estii, Setidara, Susudath, Obotrites, the modern name deceklenburg, and the Calucones. The Teutones reproduce the Diduni and Dedan. The Cimbric Chersonesus introduces us to Scandinavia and to another Amalchian sea. The Wagri of Holstein seem to indicate that Ezcr's family was in the ascendant there; and the Sitones, with Sigtuna of Sweden, that the descendants of Ishod lad peopled that country. ${ }^{107}$ The Danes themselves I believe to have been the posterity of Dedan. The Asiatic origin of the Germans and Scandinavians is so undoubted as to require no comment. ${ }^{1 \infty}$ The river Tamaquisl, whence the latter are said to have come, bears a suspicious resemblance to Tanaquil and Tangusteli, Etruscan and British names. ${ }^{1 \omega}$ The giant Ymir, who was the ancestor of the Teutonic family in their mytho-

[^34]logy, and another famous giant Gymir, must represent Zimran. The litter married Aurboda, a kind of Arriphe or Eriphyle, and, had a daughter Gerda, the Critheis of the Homeric legends. ${ }^{170}$ Still another Zimrite name appears in Hymir the fisherman, who should rather have been Jokshan the brother of Zimran, seeing that his name means "the nets," and is tho original, in as far as Hebrew is an original language in etymology, of the Greek Diktuon, meaning the same thing. ${ }^{172}$ Miolnir, a name of Thor, may possibly connect with Malalah. I do not know whether Tuisto, father of the German Mannus, designates Ishod or not. Eleman the son of Mahalah, or, better still, Meonothai son of Abiezer, may represent Mannus. Mimir, who deprived Odin of his eye, I have already associated through the legends of Cocles and others representing Eshcol, with Mamre, the uncle of Zimran. ${ }^{172}$ Oxylus, one of these one-eyed heroes, exhibits his Gileadite relationships in being called the son of Mars and Protogenia, the daughter of Calydon. ${ }^{333}$ Similarly Zimran, as Tmbrius, is the son of $E$ Egyptus and Caliande, and, as Ampheres, of Neptune and Clito. The Scandinavian Gladsheimer was in all probability a reminiscence of a Gileadite or Celtic region. Fortunately for the reception of the fact of a Germanic connection of Gileadites and Cymri, the character of the Cimmerians, as either distinctively Celtic or Germanic, has never been settled. ${ }^{1: 4}$ The explanation of this uncertainty is found in the Germanic education of a portion of the Cymric stock which entered Europe from Asia. We may naturally expect these Asiatic Zimri to reproduce in their mythology and language somo of the features chameteristic of Greek culture and tradition; while the African Zimri of Spain, Gaul and Britain, should possess cloments in common with the Latins and other Italian peoples.

Besides the three Cymric tides which overflowed Eurone, two of which came from Africa and one from Asia, there were at least two others that spread over parts of Asia and Africa respectively. One of these we have traced through Persia and India to the borders of Chins, and the other we left in Ethiopia. Both of these might

[^35]casily have been carried farther. The Asiatic, entering China, sent a stream doubtless into the New World from the east, which met with the corresponding stream that flowed from Western Africa or Spain into the Gulf of Mexico and the Caribbean Sea. The African made its way slowly into the centre of the continent, where $D_{j e b e l}$ Komri, Bornou, with its traditions of Himyaritic occupation, and, in the west, the Cameroons, retained the memory of Zimran. ${ }^{\text {ris }}$ This wide dispersion of a single family, and that not a primitive family of mankind, is surprising. Zimran himself must have lived about niseteen centuries before the Christian era, and not more than four gererations of historic men can have preceded him. For these four gencrations we find ample materials in the Bible, by the aid of which hisiory may be restored up to the very darm of national existeace. I an as yet but a pioneer in the unbroken tract and tangled forest of ancient tradition. Other writers will yet make plain and smooth the highway of the nations from their eastern dwelling place, and, redicing to order and harmony the fragments of mosaic which it has beei my labour of love to disinter at every stage in their progress, willpresent a picture of the far off past that shall be the delight and instuctor of fature ages.
The following tables exbibit the results obtained, as these bave bien set forth in the paper. I once more deem it necessary to state thit I do not vouch for all the connections set forth, nor do I consiler that the proof is vitiated by what may be found an unnecessary and in some cases an erroneous fulness of illustration. ${ }^{176}$

[^36]Asia Minor.-Mosynrici, Messena, Moson, Mygdones, Mosyne, Myndus, 3reander, Magaesia, Maonis, Myomesus. Sibora, Labrande.

Thrace.-Mrosynopolis, Apri, Euporia.
Maccionia.-3rsdones.
Grecte-Bragnesia, Cyphara and Sperchius of Thessaly; Mrandria of Epirus; Macjnia of Atolia; Mryonia of Locris; Cyparissus of Phocis; Eupyrida of Attica; Mlecone of Sicgor; Mgcenz of argolis; Messene, Hypresesia and Laphria of Achaia; Ephyra and Lepreum of Eiis: Mantinea, Cyparissia and Aliphera of Areadia; Cyparissia of Afessenia; and Csparissia of Lacomis.

Islands.-Mesine of Cyprus; Myconos; Myonessus; Iipparis: Ephyra; Sybarita of Creie; Leucophrys of Tenedos; and Csphareus of Euboca.

Mfasia, Ac--Appiaria of Mocsia : Monetum, Liburnia and Alporio of Hyria; Mogentian, Sabara, Sabaria and Labores of Pannonia; and Savaria of Noricum.

Italy.-3lantua, Eporedix and Libero of Gallia Cisalpina; Monoci Pontus and Libarna of Iiguria; Libumus of Samnium; Misenua, Eburi and Avernuq of Campania: Caprais, Sybaris, Sibarcna Aprustum and Louconctra of Bruttium; Xessana and Hypparis of Sicly; lantinoruma upp. of Corsica ; and Lipara.

Spain.-Massienus, Mantua, Mundus, Mentesia, Mpnesthei; Epora, Ebora, Ebarobritìm, Sioaris; дEbura, Libora or Talabrica; Lavara, Lacobriga.

Gaul.-Monesii, Mogontiacum, Nantuates, Nemetes, Namnctum; Arara, A arari :um, Eburges, Eburovices, Eburodunum, Eburobrig3, Gabris.

Britain, dt-3rasastum or Liroerick, Monsoida; Eboracam, Gabroscnum, Laberas.
Germany,-Munitium, Mromus, Misnia, Nuithoncs; Ebnoum, Eburodunum, Luppharam, Tuliphurdum.

Many of these names are intinately associatce with tho reconds of Ezcr. Thas in Idda, Supphara and Sippara are near Muziris and Magaris respectivels, and Abraganes near Agefns and Thagora. In Mesopntamia, Labbara, which lies in tho north of Messene, is not far frow IIatris; and the Clabosas divides Mggdonia from Ostoenc. Lalris of Arabia is in tho territoy of the Gerrex, and Obmea in that of the Anrxi. Sabrata and Assaria of Africa are near to cah other. In Syria, Capparex has 3egara to the north and Sizara to the south-wesh Siborair Pontus is among the Agrinnes; and Apri of Thrace is found among a people of the same uari. The Mygdones of Hisecionin cornect with Assurvs. Hyperesis in Achais bore also the naio Afyira. Appiaria of Socsia was near Tigra and the Iatrus. Sibarena of Bruttium las betson the-Nicxthus and the 正saruas. Ebora of Tarraconensis.ras also called Ixar. Eburobrigant Gallia Ingdunensis was not very far from Segessera; and Eboracum of Britain was still ncafr to Isurium. Many similar associations of names tend to prove the cotrectuess of the connictions of Neonotbai and Ophrah with the family of Ezer.

Before dismissing this family thero is a remarkablo Bible seference to Ezer himself whik cannot be allowed to pass without comment. In Jeremiah xlviti. 32, we read of the seiot Jazer, the name of which is fdentical with that o the resion in Gilcad called after Ezer. Fie chisdren of Moab are there spoken of as passiog the sea, and their settiements as reaclijg as far as the sci of Jazer. I cunnot donbt that sca of Jazer is the Adriatic, and that Atis and Edro of Venotia, ddria of the Vestini, rith Yadera of Illyria, and other similar names apn its shores, are memorials of Ezer. It is interesting to fied a legcod that Sorrento has foundà by Eiadkrezer of Syria, who lled before the arms of David. He may hare been confounded wh an carlicr Ezcr. Early Trarels in Palestinc, Bohn, 6, 0. at Atria in Veactia wo and to Fossiones Flulistinge It will not be a diffeult task to find the descendants of Moab in the neighbouthood of this sci 3ressapia doabtless was one of their colonics. There Ar appeas as Uria or Hyria. They may also have passed into Etruria, and given to its rirer Arnus th name of their Arnon The 3fopsopians of Greceo and Asia 3finor maik the Moabic wac: westirard.





| Prabia1. Modia | ZIMRI on Eimaras. Amarica | Isuop. |
| :---: | :---: | :---: |
| 2. Iusiana |  |  |
| 3. Pessls | Gombreon | SS5skn |
| 4. Eyrasnia | Samarianc | $\left\{\begin{array}{l}\text { Soxntos } \\ \text { Astacelif }\end{array}\right.$ |
| *. | $\left\{\begin{array}{l}\text { Tambraz }\end{array}\right.$ | $\left\{\begin{array}{l}\text { Socando }\end{array}\right.$ |
|  | $\left\{\begin{array}{l}\text { Amarbsa } \\ \text { Astura }\end{array}\right.$ |  |
| 8. Partidia | Ambrodax | $\left\{\begin{array}{l}\text { lisatis } \\ \text { Astactam }\end{array}\right.$ |
| 6. Carmania | Somimimides | Thasticha |
| 7. Sugdlaua | \{Cosnari | Inagiatis |
| 8, Bactria | (Samarcand |  |
| 8. Bactio | $\left\{\begin{array}{l} \text { Annares } \\ \text { Chonnira } \end{array}\right.$ | Astacana |
| 2. $\left\{\begin{array}{l}\text { Arla and } \\ \text { Margiaun }\end{array}\right.$ | $\left\{\begin{array}{l}\text { ambrodax } \\ \text { ziomyer }\end{array}\right.$ | Asta |
| - arargana | \{ elmyra | $\left\{\begin{array}{l}\text { Astainda } \\ \text { Astaveni }\end{array}\right.$ |
| 10. Gedrosla | Thmorus | Sircistcno Astirea |
| Indiam |  |  |
| 1. Ninfuern | Camboricuna | SAstaceni |
|  |  | $\left\{\begin{array}{l}\text { Soastus } \\ \text { Sinteno }\end{array}\right.$ |
| $\text { 2. }\left\{\begin{array}{l} \text { Contral } \\ \text { nnud } \\ \text { Southorn } \end{array}\right.$ | (Amara | Askacapra |
|  | Ambra |  |
|  | \{ Comnrla |  |
|  | Tamra |  |
|  | (iinnyrica |  |
| 8. $\left\{\begin{array}{l}\text { Farthor } \\ \text { India }\end{array}\right.$ | SSaminarido |  |
| - india | (Kamimorea |  |
| 4. Serica | Asmjrcat | Issclones |
| Cualder. | Camariag |  |

(





| Amonia |
| :---: |
| $\left\{\begin{array}{l}\text { Emonia } \\ \text { Limuxa }\end{array}\right.$ |
| Amyntis |
| $\left\{\begin{array}{l} \text { Drmei } \\ \text { Litunx } \end{array}\right.$ |
| Hxmon |
| Limno |
| Situon |
| $\left\{\begin{array}{l} \text { Emonia } \\ \text { Aminlas } \end{array}\right.$ |
| Limum |
| IMmno |



| $\left\{\begin{array}{l} \text { Abderites } \\ \Delta g_{\text {fianes }} \end{array}\right.$ |
| :---: |
| Azorus |
| Issoria |
| $\left\{\begin{array}{l}\text { Agrai } \\ \text { Acrio }\end{array}\right.$ |
| Tegyra |
| Agra |
| $\left\{\begin{array}{l} \text { Agra } \\ \text { Aclarix } \end{array}\right.$ |
| Icaria |
| Enidaurus |
| Egim |
| Agra |
| Koros |
| $\left\{\begin{array}{l} \text { Epfiaurus } \\ \text { Acrix } \end{array}\right.$ |


\(\left.$$
\begin{array}{l}\text { Combroas } \\
\left\{\begin{array}{l}\text { Amprus } \\
\text { Amirysus } \\
\text { Chimerium }\end{array}\right. \\
\left\{\begin{array}{l}\text { Chimerium } \\
\text { Comarus } \\
\text { Tomarus } \\
\text { Ambracia }\end{array}
$$\right. <br>
Ambrysus <br>

Amphiaraus\end{array}\right\}\)| Amphinraus |
| :--- |
| Lamprea |

Nacedoila
Macede.n.

3. $\left\{\begin{array}{l}\text { AEtolia and } \\ \text { Acarnanis }\end{array}\right.$

영
is
is

Limera

## sm!dus



|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { 忽 } \\ & \text { By } \\ & \text { B } \end{aligned}$ | $\begin{aligned} & \text { 感 } \end{aligned}$ |  |  |  |  |


| $\begin{aligned} & \text { 䔍品 } \\ & \text { 品 } \end{aligned}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { 틀 } \\ & \text { 总 } \\ & \text { 哥 } \end{aligned}$ |  |  |  | $\underbrace{\text { cters }}$ |  |
| $\begin{aligned} & \stackrel{E}{5} \\ & \stackrel{E}{5} \end{aligned}$ |  |  |  |  | $\begin{aligned} & \text { 䍛 } \end{aligned}$ | 品 |  |




[^37]





\[

$$
\begin{aligned}
& \text { 6. tatiam } \\
& \text { 7. Sabinum } \\
& \text { 8. Samnium } \\
& \text { 9. Gampania } \\
& \text { 10. }\left\{\begin{array}{l}
\text { Ajulia, } \\
\text { Lacanín and } \\
\text { Bruttium }
\end{array}\right. \\
& \text { 11. Sicily }
\end{aligned}
$$
\]



|  | $\begin{aligned} & \text { E } \\ & \text { E } \\ & \text { 券 } \\ & \text { B } \\ & \text { O } \end{aligned}$ |
| :---: | :---: |



|  | 気总 |  |  | － | 签品荡 | $\begin{aligned} & \text { E } \\ & \text { 空 } \\ & \text { 荷 } \end{aligned}$ | $\begin{aligned} & \text { 茄 } \\ & \text { E } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |


$\left\{\begin{array}{l}\text { Dardar } \\ \text { pearl of nisiom. }\end{array}\right.$
CONNECTIOXS.
AND PHILOLOGICAI
MYTHOLOGICAL
ADiezer.
Apusorus
总
$\left\{\begin{array}{l}\text { Amyncts } \\ \text { Amanon }\end{array}\right.$
1
8
3
0
0
至





ある


| ： |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | ． |  |  |
|  |  |  | $\begin{aligned} & \text { Ey } \\ & \text { Ey } \\ & \text { 范 } \end{aligned}$ |  |  |  |  |  |  |  |
|  |  |  | $\begin{aligned} & \text { 品 } \\ & \frac{\text { B }}{E} \\ & \frac{E}{E} \end{aligned}$ | 煦 E 言 E |  |  |  |  |  |  |


$\left\{\begin{array}{l}\text { Thurins } \\
\text { Torquatus }\end{array}\right.$
Druids

\{ Druids | Tristram |
| :--- |

$\left\{\begin{array}{l}\text { Turgesius } \\
\text { Darag, oal }\end{array}\right.$
$\left\{\begin{array}{l}\text { Thor of } \\
\text { Thrudrang }\end{array}\right.$

Cacilius



> I $\stackrel{1}{2}$

## 801809 V



$\left\{\begin{array}{l}\text { I, atlum } \\ \text { and } \\ \text { Gablum }\end{array}\right.$
$\left\{\begin{array}{c}\text { 3ingma Gracela } \\ \text { nind } \\ \text { slclly. }\end{array}\right.$
$\begin{aligned} & \text { Onul } \\ & \text { nnd } \\ & \text { Spala. }\end{aligned}$
Brtaln
Irclaud
$\left\{\begin{array}{l}\text { Germany } \\ \text { atd } \\ \text { Scandinavia }\end{array}\right.$

17 I have slready (note 158) mentioned the word amber in its connection with Zimran, the Cymri and saen tstoncs. The word amber is Celtic, and appars in most modern laneuages. Had we any doubt that Zimman is its onginal, it would be remored by the Grect word Electron. Electra I hold to be the name of Ketural, with the pretir of the Arabic article. An Electra is male the mother of Dedon, a Midian. Electra in Messenia connects with the story of Thamyris, and Ithome near recalls Etam. Paus. ir. 33. Electryone mas tho sister of the Rhodian IIeliades, among whom Ochime, Cencaphus and Camirus appear. The namo Keturah, as denotiogincense, may easily be associated with anber or anbergris. The Sciavonic langazes probably retained lece name as the term for this substance in jantar, gintaras and siliters, all of which may be corruplions of keturah I have, however, proved pretty deflaitely the connection of Keturaln with Eshcol and 3famre. Sacal is the Egyptian word for amber, and is doubtless the same as Eshcol. When wo wass beyoud the region of the language of necessity into that of luxury, art and science, historical ctymology must be our guide. As tantalise, damask and cabal carry us into mytholozy, geography and history respectively, so we shall and thát a large proportion of the words of any language can only bo explained by searching for them in smalar fields. Mythology is not so much a discase of languan: as tanguago is an cmbodiment of ancient facts of which what wo are pleased to call mytholegr retains tho only memorial. I do not know precisely why Liguria, a western Locris and uarly hone of the Celtic Loesrians, should give a name to amber. It was however a Zimrite region.

188 It is more probable that Cyracus denotes Zerich the second husiand of Keturah, who is referred to in note 95 . He is, as I have there stated, Zerach son of Achumai, Harks of Khem, Cherucheres of Amenemes and Cercestes of deyptus, who derived his name from Chemi or Coptos. He is also Cereson the son of Agameles. It sceas that he married before Keturah a daughter of Chareph, the son of Ashtari or the great Sesostris, Nisuthrus, \&c. and by this marriage had two sons, Ethan and Jobab. This explains the association of Cerberus abd Cercyon; of Agameles, his father, and Trophonius; of the union of Cercaphus with Cyrbic, Crius with Eurybin, Charaxus with Mhodope, Khem and Harka with Thriphis; aud the deseent of Cherscheres from Usecheres II. Triopas and other similar uames associated with unmistaliable traces of $Z$ trach, set forth the same fact. 1 am thus able to add to previous getealogies the fullowing:


Ccreasorus, opposite the Athribite nome, is a record of Zerach in connection mith iois wife Thriphis. Lifs tamile is Sabellian, Fillenic. Doriad, Achamenian. Eiomito monarchy, or rather the monarchy which arose upon the voriers or Palestine, Arabia and Egryt, daics trom but ore gencration before the time of Zerach's son Jousb, Bela the son of Beor being his predecessor and its founder. This Bela uras in all probability the Kiog of Zoar in the days of Abraharn, and the Efyptian Belus who is said to have fed from Satatis into Arabia. Merophile, whom I have already identified with Eriphyle, is mado a daughter of Lamia (Lechem), and is said to harc beca bora at Corycus (Zerach). Yaus. x. 12.

## A CALIFORNIA BORAX DEPOSIT.

BY W. HODGSON ELLIS, y.b.

Bexd before the Canadian Institute, February 19th, 1876.

The borax of commerce has long been derived almost exclusively from the boracic acid of the Tuscan soffoni; the discovery in California of a large deposit of native borax or "tincal" bids fair to modify in some measure the trade supply of this article.

In San Bernardinc County, California, is the bed of a dry lake, which is covered with a dirty gray deposit, consisting of borate of soda mixed with sulphate and carbonate of soda and chloride of sodium. In some places native borax or tincal is found nearly pure in large crystals.

Through the kindness of Mr. John Ledyard, formerly of Toronto, who has been employed at the works, I have received specimens of the crude borax and also of the purified products. To him I am also indebted for the following particulars:-

The crude material is carted to the works, dissolved in water, and hoiled down till the liquid has attained a density of $1 \cdot 16$. It is then run from the boiler into "settlers," where it is left for about eight hours. At the end of this time the clear liquid is run off and allowed to crystallize, either in tanks or in long, narrow, shallow vessels, called flumes. The product of this operation is called "concentrated borax," and sells at seven cents per pound. "Refined boras" is made by re-dissolving the "concentrated" borax and recrystallizing it in the tanks. It sells for nine cents per pound.

An analysis of Californian refined borax, given in the Cluemical Neics, December 1ith, 1875, is as follows:-

| Crystallized biborate of soda. | 99.75 |
| :---: | :---: |
| Chloride of sodium | 0.25 |
| 1. | 100.00 |

Mr. Ledyard's sample yielded to my analysis :-
Crystallized biborate of sod_.............................. 9970
Chloride of sodium ..................................... $0 \cdot 30$
An analysis of the crude borax gave me the following results:-
Sodium biborate ........................................ 39.23
Sodium sulphate . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 8446
Sodium carbonate. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $2 \cdot 77$
Sodium chloride . .................. . . . . . . . . . . . . . . . . . . . . . $14 \cdot 23$
Calcium carbonate ............................................. 3.57
Alumina and ferric oxide ................................... . 0.33
Silica and sand . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $23 \cdot 34$
Water. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . $8 \cdot 07$
100.00

## AN ADDITIONAL NOTE ON THE FUNCTION OF SALT IN SEA WATER.

BX E. J. Chaphan, Phid,
Professor of Mineralogy and Geotogy in Unitersity College, Toronto.

MIore tham twenty years ago, the author submitted to the Caxadian Listitute an original view respecting the function of the saline components of the sea. This view was to the effect that the essential funcion of the salinity of the sea is to regulate evajoration. Fresh water, it was shewn, evaporates far more rapidly than salt water; and, as regards the latier, the stronger the salinity the slower the evaporation-other conditions, of course, being equal.

In the natural evaporation of the waters of the sea, two antagomistic forces are at work: the absorbing power of the air, and the resisting power of the sea. If one of these powers increase or diminish in intensity, the intensity of the other increases or diminishes also.

If the absorbing power of the air (by increase of temperature or other cause) increase in strength, the effects of this increase become controlled and rapidly neutralized by the stronger resisting power imparted to tho water by its increased degree of saltness. If, on the other hand, the absorbent power of the air become weakened (by excess of rainfall, diminution of temperature, \&c.), evaporation becomes assisted by the weaker resistance of the water. These compensating effects, it is contended, are due essentially to the presence of saline matters in the waters of the sea.

The original experiments published on this subject in 1855although sufficiently exact to establish the striking difference which the evaporation of fresh water exhibits as compared with that of sea water-contained a source of error arising from the form of the vessels employed, and partly from the evaporating surface of the liquids not laving been kept constantly at the same level. As the surface of the fresb water soon occupied a lower level than that of the other liquid, it necessarily became protected to a greater degree from the action of the atmosphere: and thus the evaporation from it (although always greater than the evaporation from the silt water) was somewhat less than it should have been. Experiments of this kind can scarcely be rendered absolutely faultless, but in after trials these sources of error were remedied as far as possible. The annexed results are from one of these trials extending over seven comparatively warm days:-

| Periods of 24 hours. | Distilled Water. Loss per cent. | Sea Water. Loss per cent. | Diferences. |
| :---: | :---: | :---: | :---: |
| 1 | 14:52 | 13.96 | 0.56 |
| 2 | 13.64 | 13.05 | 0.99 |
| 3 | 11.86 | $11 \cdot 22$ | $0 \cdot 64$ |
| 4 | 15.43 | 14.71 | 0.72 |
| 5 | 15.78 | 14.97 | 0.81 |
| 6 | ${ }_{13} 13.53$ | ${ }_{12} 13.03$ | 0.90 |

The function of regulating evaporation, thus attributed to the saline condition of sea water, may not seem ais first thought to be a very important one; bun, in its results, it is probably the most important of all the natural phenomena of which the ocean is the stage. The moisture of the earth, it is well known, comes essentially from the s9a. The salt-free vapour, taken up by evaporation from the surface
of the sea, is wafted sooner or later to the land; and there becoming condensed by contact with the cold of mountain chains, by treecovered districts, and other recognized agencies, it falls in the form of rain, de.; and, finally, after fulfilling its manifold functions, it becomes returned, for the greater part, by the natural drainage channels of the earth—the brooks and streams and brimming rivers-to the sea from whence it came. If any prolonged cause of disturbance, therefore, affected the process of evaporation as carried on betwixt the air and sea, the earth throughout broad areas, if not throughout its whole extent, would necessarily suffer by the reaction-either from a want of rain, or a deficiency of moisture in the atmosphere; or from unripened harvests and inundations of the land occasioned by excess of rainfall. The saline condition of the sea evidently serves as the main controlling power to disturbances of this character.
'Teleology is terribly out of fashion, nowadays, in scientific thought. The author should perhaps apologize, therefore, for attempting to recall attention to a subject of this kind. But without being in any way an opponent of "advanced views" generally, one may still hesitate to regard the wonderful balance of natural forces, seen almost everywhere in the cosmic infinity around us, as nothing more than merely a fortuitous result.


# SOME CANADIAN NOMS-DE-PLUME IDENTIFIED: WITH SAMPLES OF THE WRITINGS TO WHICH THEy ARE APPENDED. 

BY HENRY SCADDING. D.D.

(Continued from page :376.)

We now come to our political noms-de-plume.
Canada, both in its French and its English portions, has had a troubled history. With a very mixed population, teeming with a variety of clashing prejudices, brought with them or inherited from the Old World, governors sent out by the parent state to guide their destinies, to amalgamate them into one mass, to mould their character into a national consistency, have found, especially in years bygoue, that their task was not an easy or a trifing one; and whatever their line of conduct, they were sure to be criticized with severity by one coterie or another in the community. Here, as elsewhere, the newspapers and other local periodicals have been vents for the spleen of individuals; and as at early periods in Canada, Upper and Lower, men in power held it to be proper to stand on their dignity more punctiliously than they do now, it was not quite safe for writers to come out with their strictures in propria persona. Consequently, the local periodicals of the day abound with objurgatory communications under the fictitious signatures usually adopted in the newspapers and periodicals of the same period in Great Britain and Ireland. And when I say in former days men in power were specially touchy, I include in the expression the Houses of Assembly themselves, which were very ready to summon offenders before them for verbal breaches of privilege. Thus Mr. Cary, editor of the Quebec Mercury, was sent for by the Lower Canadian House, in 1813, for publishing a communication signed "Juniolus Canadensis," an invective, in the style of Junius, against Mr. Stuart, a member of the House. Mr. Cary absented himself from the city during the remainder of the Session, and so eluded the search of the Serjeant-at-Aums. But the
day after the prorogation the following Card appeared in the Afercury: "The Editor's respects to a majority of the Elouse of Assembly. Being just arrived from a tour of business, he learns that the House had evinced much anxiety to see him during his absence. Unfortunately, his return has taken place a day too late for him to have the honour of waiting on the House. He is, however, rather at a loss to conceive how his presence could be in any manner useful in assisting them in their rocation r£ framing laws."

It would be, of course, an endless and unprofitable undertaking to trace the authorship of the great bulk of pseudonymous productions in early Canadian journals on political subjects. But one nom-deplume which appeared in the columns of the Arontreal Herall, in the years 1813-15, presents exceptional claims to consideration. The signature of Veritas has become historical. Moreover, it possessed for a time an additional degree of interest from the slight mystery and uncertainty which attached to it, the author having taken some pains, as I suppose, to maintain an incognito. As all persons concerned have long passed off the scene, no harm will be done now if I remove the veil, as. I shall do presently, and for the first time since an uncertainty on the subject sprang up.

Sir George Previst was the Governor-General of Canada and Com mander-in-Chief oi" the Forces in 1812, when the war broke out between Great Britain and the United States, and the letters of Veritas are devoted to an adverse criticism of Sir George's military tactics throughout the unnatural contest. In many of the subsequent accounts of the war of 1812, Veritas is quoted as an authority, but I do not observe anywhere that the real name of the writer is mentioned. It became, in fact, as we shall see, almost irretrievably lost. So late as 1855 , after all reason for secrecy had passed away, Auchinleck, in his "History of the War, '12, '13, '14," defends Sir Georgo Prevost against the strictures of the shadowy Veritas. "Veritas observes," he says, "that it is the acme of assurance to insinuate that the [British] Ministry were to blame for the insufficiency [of force in the two Provinces at the outbreak of the war], especially as they could only have a knowledge of our wants through Sir George's information. Now, how in justice," Auchinleck asks, "can Sir George be blamed for not informing Ministers of his requirements for a war which he was instructed [by that Ministry] by all the means in his power to avoid the promotion of? In his anxiety to attack the
movers of the address [to Sir George, on his departure from Quebec], in reference to the war, Veritas has suffered himself to go to the verge of injustice." Again, in Col. W. F. Coffin's admirable and eloquent work, entitled " 1812 ; or the War and its Moral : a Canadian Chronicle," it is observed, "If York (Toronto) had been left defenceless and unprotected; if a ship of war in the hands of the shipwright had been recklessly exposed to destruction, the fault was not with Sheaffe nor with his direct superior, Sir George Prevost, as charged by Veritas, but with the authorities in England, who trifled with the emergency until too late, and then spent treasures in life and money to repair an irreparable error."

In Tupper's "Life and Letters of Major-General Sir Isaac Brock," Veritas is also largely quoted, but in the same abstract way. The author of an article in the Quarterly Review of July, 1822, headed "Campaigns in the Canadas," evidently knew who Veritas was; but he refrains from naming him. "The Letiers of Veritas," the writer says, "were originally printed in a weekly paper published at Montreal, in Lower Canada, and subsequently collected in the little volume before us. Within a small compass," the reviewer continues, "these unpretending letters contain a greater body of useful information upon the campaigns in the Canadas than is anywhere else to be found. They are, we believe, the production of a gentleman in Montreal of known respectability. Though not a military man, he enjoyed the best opportunities for acquaintance with the circumstances of the war; and as these letters, which excited great attention in the Canadas, appeared in successive papers while Montreal was filled with almost all the officers of rank who had served in the country, it may reasonably be presumed chat his errors, had he committed any, would not have escaped witlout censure; yet no reply was ever attempted to his statements-no doubt ever expressed in the provinces of the correctness of his assertions." My curiosity, a few years since, having become aroused as to the identity of Veritas, it came to be with me, for a time, a lind of Junius-question which I sought to solve: for a long time, but not, finally, without success. I searched in vain in the useful works of Mr. II. J. Morgan, of Ottawar the compiler of "Sketches of Celebrated Canadians," and the Bibliotheca Canadensis; but I found no clue. I interrogated the late Rev. Dr. Richardson on the subject (he, in his younger days, lost an arm while actively serving in a naval capacity in one of the expedi-
tions ordered by Sir. George Prevost). I addressed notes to several gentlemen who had interested themselves in carly Canadian history, but without result. Amongst them, especially, I applied to Col. Coffin, above-named, but after inquiry instituted, he could afford me no help. Inquiries were also made for me of the present proprietors and publishers of the Montreal. Herall. I thought that possibly among the traditions of the office of that paper the name of its now historical contributor might be preserved. Mr. Penny, the present editor of the IIerald, kindly endeavoured to get the desired information from Mr. Archibald Ferguson, a gentlemañ now aged more than ninety years, formerly proprietor of Herald. Mr. Ferguson's reply, however, now lying before me, was as follows:-"In answer to your note of the 17 th instant, $I$ beg to inform you that $I$ do not know who wrote the articles signed Veritas and Nerva, in 1815. They were published nine years before I purchased the IIerall establishment, and the two former proprietors were dead before I purchased." (I had coupled my query about Veritas with one about a writer styling himself Nerva, also in the Herald; but Nerva I discovered afterwards by accident, while looking through the articles in Mr. Morgan's Bibliotheca Canadensis.) How I came at length to recover the all but totally forgotten authorship of the Veritas letters, I will detail concisely after I have given a sample or two of the productions themselves. I add the reflection: if in so short a period an uncertainty so decided could spring up in regard to writings whose authorship was probably notorious to contemporaries, how easy it must have been, in the days when printing was unknown, and when of many an important record no duplicate existed, for ambiguities toarise on such points; how easy it must have been, at the dictate of policy or ambition, to falsify and substitute, with small chance of explicit detection at the hands of posterity.
Veritas, throughout his letters, inveighs against Sir George Provost for an apparent lack of energy, decision, and dash. But we must bear in mind what Auchinleck has said, as quoted just now, that Sir George was probably under restraint from the instructions which he had received from the Ministry at home, who had no relish for the contest in which they found themselves engaged. "Towards spring, 1814, so inveterate," Veritas says, "was Sir George's rage for armistices, notwithstanding the injurious consequences of the former tothe military service, that a nerotiation for another was set on foot,
and defeated solely from the refusal of our admiral on the American Station to concur in it. The Americans gave out that the proposition cane from Sir George, which I believe, because otherwise he would have net it at once by a direct negative that would have ended all discussion on the subject. In January, 1814, whilst the Legislature was sitting at Quebec, Sir George made a trip to Montreal, from no military motive that has over been discovered or assigned, during which the then Assembly were active in preparing mischief. That Session was a stormy one, and ending in March, the Head-Quarters were retransferred to Montreal.
Soon after the navigation opened upon Lake Champlain, Capt. Pring, in the naval command there, sailed from Isle aux Noix with our flotilla, then superior to that of the enemy, which had wintered in: Otter Creek, where they had a ship-yard employed in constructing a force intended to surpass ours. Capt. Pring, in consequence, applied to Sir George for some troops to accompany him, with a view of attempting to destroy this establishment and the vessels in that creek, whether afloat or upon the stocks, which, next to Sackett's Harbour, was an object worth a trial at some risk. As usual, the application was refused. When Capt. Pring returned from his cruise up that creek, he reported to Sir George what might have been done by at joint attack, and then he was offered assistance, but the Captain replied that it was then too late, as the enemy had taken alarm and prepared accordingly. Sir George had the extraordinary fatality of cither never attenpting an active operation, or of thinking of it only when the time for practical execution was past."

Here is a passage which, for style, may remind us of Kinglake or Sir William Napier; the incidents referred to will also probably interest us. "As the season for action advanced," Veritas says, "tothe astonishment of evergone, there was formed at Chambly what is called a Camp of Instruction, comprising the greater part of the force above enumerated, and from which might and ought to have been detached a force for the attack of Sackett's Harbour, or for the reinforcement of the Niagara fronticr, seriously threatened as it then was (1814) with invasion, in the opinion of every person who had cyes to see or ears to hear. Had the first-mentioned object been attained, the enemy would not have ventured to cross into Upper Canada; or if Sir George was obstinately bent on letting Sackett's Harbour alone, the reinforcement of the Niagara frontier became the more imperiously
necessary to secure it against the enemy's accumulating force, which had been even seen by some of our officers in returning from captivity, but whose reports thereon were utterly disregarded. Thus the Camp above-said furnished the means of instruction to the enemy upon the said frontier, by allowing them to practise against our very inferior force; but of destruction to our troops there employed, who were thereby doomed to combat against fearful odds, as will be seen hereafter, which is quite inexcusable, seeing we had the means of prevention in our power; for so infatuated was Sir George that not a man was sent from Lower Camada to their aid until the 12th July, after our first disaster at Clippewa was known. * * * From the end of May, reinforcements from Great Britain, Ireland and the West Indies came in ; but the accursed Camp of Instruction continued; when to our astonishment, in June and July, such a numerous body of troops arrived from Bordeaus that it became evident Sir George was quite bewildered thereby. Piecemeal reinforeements were now despatched to Upper Canada, and a very large foree kept below to do something-but what it was remained doubtful, although a bustle of preparation began across the river, which was continued for months at infinite expense." I add one more passage: an indignant, Junius-like denunciation of certain speeches in the House of Commons, notably one by Mr. Whitbread, on the subject of the destruction of the public buildings at Washington by a British force, in which speeches more feeling was apparently shown for the loss experienced by the United States Government than for the sufferings of British subjects when violently deprived of their homes and property at York and Niagara, a few months previously, by an invading United States army. "Now, is it possible to conceive," Veritas asks, "that all these and former acts of conflagration and pillage could have happened without orders from the American Government? And yet if we had retaliated upon this principle in the Chesapeake, or elsewhere (which was completely in our power to have done), what an outcry would have been raised by Mr. Madison, and reechoed by the Opposition in the Imperial Parliament, who, on finding themselves beat from their grounds of censure against our Government and officers for the destruction of the public buildings at Washington, when proved to have been merely retaliatory, then took up a new position equally untenable, viz., that it would have been magnanimous not to have followed the example of the Amori-
cans in their conduct at York and Newark. Now, in common sense, what does such doctrine mean? Do these mock-patriots reserve all their sympathies for the enomies of their country, and regard with callous indifference the sufferings of their fellow-subjects? Are the latter not entitled to protection and consideration; and as means of that protection, was it not incumbent upon our officers, and a point of justice, to turn against the enemy their own weapons, and thereby make them feel the consequences of their own enormity of conduct, with a view to prevent their repeating the like in future? It is very magnanimous, to be sure, to speak with cold-blooded indifference about the infliction of ruin upon friends, at the distance of 3,000 miles, by fire and devastation in the most aggravated shapes; but I will venture to say that if Mr . Whitbread's brewery and his princely mansion, with ail their contents, had leen at York or Newarb, and shared the fate of the buildings there consigned to the flames by the enemy, we should never have heard of his lecture upon the virtue of marnanimity."

It was by the aid of Sir Francis Hincks, now resident in Montreal, that my curiosity in regard to Veritas was at length gratified. Sir Francis took much interest in the inquiry, when it chanced to be proposed to him ; and he kindly applied for me to the present authorities of the Herald office, with the result already mentioned. When now I supposed nothing further would come of the investigation, I unexpectedly received from Sir Francis the following communication, which sets the question at rest. The note is dated Montreal, 15 th July, 1873. "By a very singular accident," Sir Francis writes, "I obtained a few moments ago the infurmation which you wanted a few weeks since. Coming into town this morning, I met Mr. J. S. McKenzie, one of our oldest and wealthiest citizens, lately a Director of the Bank of Montreal, and senior partner of one of our principal tirms. He was talking of his age, and as having served in the war of 1812. It immediately occurred to me that he might know who Veritas was; but at the moment I had forgotten this signature, and was only able to ask if he recollected a criticism on Sir George Prevost's operations. 'Certainly,' he said, 'it was signed Veritas, and was.written by the Hon. John Richardson, with whom I was a clerk in the old house of Forsyth, Richardson \& Co.' Mr. Richardson was a very likely man to have written such an article," Sir Francis adds, "and Mr. McKenzie was quite clear on the point. I think,
therefore, you may bo satisfied. I had overlooked Mr. MrcKenzie, who is one of our octogenarians."
The most concise way in which I can explain who Mr. Richardson, the writer of the letters signed "Veritas" was, will be to copy the inscription on a marble tablet on the outer wall of the "Richardson Wing" of the General Hospital at Montreal. It reads as follows :"This building was erected A.D. 1852, to commemorate the public and private virtues of the Hon. John Richardson, a distinguished merchant of this City, and Momber of the Executive and Legislative Councils of the Province. He was the first President of this Hospital, and a liberal contributor to its foundation and support. He was born at Portsoy, North Britain, and died 18th May, 1831, aged 76 years."
Veritas closes his series of letters with this paragraph: "It was my intention to bave given also a sketch of Sir George's civil administration; but reflecting that it has been al. 'y so ably depicted by Nerva, in his adnirably written allegory, I shall for the present not prosecute that intention." The "allegory" of Nerva was contained in a series of letters, professedly on Irish affairs, addressed to the Herald, in which Canada was adumbrated by Ireland, Sir George Prevost by Earl Fitzwilliam, and Sir George's predecessor, Sir James Craig, by Lord Westmoreland. Sir George's marked policy of coirciliation as a civil governor is therein roundly condemned, but evidently from the point of view of a narrow conservatism : a poiicy, it must be remembered, enjoined by Sir George's mnetizio in England, with distinet reference to the immediate crisis, when Canada was about to be exposed to an invasion, and required for its safety a people, so far as possible, united. "Between two systems of government proposed for adoption," Nerva observes, "theorists may often find it difficult to determine the claims to preference; because the peculiar defects of each may be compensated by peculiar advantages; but where a system of government is already established, there are certain rules for its exercise from which the experience of practical politicians will pronounce all deviation to be improper and hazardous. Of these rules, the most universally admitted is, that all changes should be gradual, not abrupt; should be necessary, not experimental. But Earl Fitzwilliam began his innovations upon his entrance into office, without waiting to ascertain whether Lord Westmoreland's measures were adapted to the situation of the country; without in-
deed knowing what the situation of the country required, or whether a sudden change, even from what might originally have been improper, would not produce greater evii than that which it should be intended to correct. His proper path had indeed been marked out for him, and every obstruction and difficulty removed by Lord Westmoreland, whose labours, had they been turned to advantage, would have enabled his successor to pursue, with perfect ease and safety, a course at once consistent with his own honour and with the dignity of his government. Yet these advantages were overlooked or despised by the Earl, who, like some rulers in whom vanity has predominated over judgment, disdained to govern in any respect according to the prescription or example of another. In consequence, he was speedily surrounded by men of principles avowedly inimical to the just and long-established prerogativesiof the Crown, who were the objects of his peculiar notice, and most graciously received at.his table and his court. Situations of trust and power were accumulated upon individuals unknown before in departments of State, and incipable as well as regardless of the performance of their official duties; while their rapacity was so insatiable as to force from the unwilling Viceroy himself the observation, that if England and Ireland were given to them as estates, they would ask for the Isle of Man as a kitchen garden. A viceroy, with the assistance of associates, dependants and companions of so umusual a cast, it would be natural to expect would differ in principle and in action from most representatives of royalty. And the event fully justified the expectation. The conciliation of the worthless becane his primary object; and concession was considered the principal means."

Nerva, whose letters, like those of Veritas, were re-published in a collected form, after their appearance in the Merald, was Mr. Justice Gale, who died at Montreal in 1865. These productions thus acquired a more than temporary circulation and influence. In regard to the strictures of Veritas, we read among the miscellaneous editorial matter of the Ilerald of Augist 12th, 1815, the following item: "Persons living at a distance are informed that the whole of the impressions of 'Veritas Letters' are sold. We give this notice in order to save correspondents the expense of postage. We understand'an edition is now printing at Halifar. Veritas was uncommonly well received in that city."

The editor and printer of the Herald were both prosecuted by tho Government. In the number of that journal for March 11, 1815,
we have the announcement that "On Monday last [this would be March 5] the Grand Jury for this District found a bill of indictment against the printer of this paper for a libel on the Commander-inChief. On Wednesday [this would be the 7th], two bills were found against the Editor for the same offences. To all the charges contained in the indictments the defendants pleaded Not Guilty. They readily found security to appear in another term for trial." We have no notice given us in subsequent journals of the issue of the prosecution. It may have been dropped in consequence of the death of Sir George Prevost in Jauuary, 1816.

Mr. Mungo Kay, the editor, and Mr. W. Gray, the printer, did not betray the confidence placed in them by the pseudonymous writers in their journal, except in one instance. It happened that Mr. Sewell, the Solicitor-General, whose duty it became to conduct the proceedings against the alleged libellers, had himself on two occasions, under the nom-de-plume of Colonist, contributed articles to the Iferald which could be interpreted as censure on the Commander-in-Chief. As, in the opinion of the editor and printer, Mrr. Sewell exhibited an over-zeil in pressing the case against them, by summoning the employ's of the printing office to give evidence, they considered themselves at liberty io diselose to Sir George Prevest th authorship of the particular articles referred to, and this led to the removal of Mr. Sewell from the Solicitor-Generalship. The result of the prosecution was thus probably more serious to him than to any one else; his oficial advancement receiving on the occasion a fatal check.

Contemporary with Veritas and Nerva in the volumes of the Herald was a writer who signed himself Le Bon Fieur Temps. ILe was an exponent of the views of the loyally-disposed Frencl Canadians in regard to the politics of the day. I have not been able to trace satisfactorily the authorship of the letters thus subscribed. They have been attributed to a Viger and a Quesnel.

In 1843 Sir Charles Metcalfe succeeded Sir Charles Bagot in the Governor-Generalshir, of Camada. Responsible Government had not long been conceded; and the Governors themselves had not yet quite cordially come into the system. Their view of their own responsibility to the Crown and people of England conflicted in some degreewith the theory of Responsible Government as understood by Canadians. Sir Charles Dietealfe, though nominally accepting Responsiblo.

Government, found himself in antagonism with its warmest supporters. Possessed of a strong will, he wished to rule as well as reign; and, probably, could he have had, consistently with the new theory, his own way in the management of public affins, the common weal would not have suffered; for he was a highly-gifted, excellent, and most benevolent-minded man. But the amour propre of Cinnedian statesmen, just beginnirg to rejoice in the newly-acquired right of self government, was quickly offended by Sir Charles' too frequent interposition of his own individual judgment.

Legion's letters were a sharp attack upon Sir Charles Metcalfe's mode of administering the Canadian government, and a vindication of the view taken of the reformed Canadian constitution by the Liberal party. Nominally they were a reply to a series of leiters by Dr. Eyerton Ryerson, in defence of Sir Charles Metcalfe's ideas; and it was during the course of this discussion that Legion fastened on his opponent the curious soubriquet of Leonidas; not, as I have seen it alleged, because his antagonist had adopted that name as a nom-deplume, but simply because, when rushing to the protection of the Governor-General, he chanced to liken himself to the Spartan hero.* I need not go further into the particulars of this renowned encounter. I will simply give a specimen or two of Legion's flowing, oratorical style. I first quote a short passage, which disposes of the nom-deplume theory of the origin of "Leonidas" as a soubriquet, and also explains why Legion himself adopted the obviously objectionable signature which appears at the close of his letters: "Had he [his opponent] signed himself the Doctor, or Leonidas, or Three Hundred Spartans, or Wesley, or Fletcher, or Robert Hall, or Chalmers, I should have been spared the necessity for this letter," Legion says; " but he [his opponent] has placed his name and his former conduct before the public as bearing upon the matter at issue, and as adding weight to his arguments. I could not, therefore, as he says, pass it

[^38]over; nor would it have been courteous to treat his name and his inducements as nothing. I think it a piece of misjudged egotism to mix the name of a public writer up with his arguments; it always is calculated to mislead, and at the best is loss of time and of printing materials, which now bid fair to be too much in request to be wasted. The above are my sentiments, Sir," the writer says to the editor of the Examiner, the journal in which the letters first appeared, " but as they are also the opinion of hundreds of thousands as good loyal Canadians, I have no right to the monopoly. I therefore, Sir, with all deference to your readers, subscribe myself your and their humble servant, Leanos-for We are Many." I now quote an elaborate discrimination between despotism and constitutional government, with an ironical statement of the merits of the former under certain circumstances, and a repudiation of the doctrine that rulers in free countries can proceed safely and satisfactorily without having regard to public opinion and considerations of party. "A party may be defined for our present purpose," Legion observes. "as a number of persons professing an opinion or opinions in which they agree; opposite parties, as two parties each respectively agrecing amongst its own members, and opposing the opinion ox opinions of the other party. As the whole of a community is rarely of one opinion, the opinion of the majority, or of those forming the largest party, is, for the purpose of government, said to be public opinion; at least it is the opinion which for all practical purposes must be taken to be public opinion. What is just, and right, and good," Lesion goes on to say, "may be the object of a despotic as well as of a free government. No one dreams of alleging that absolite power in the ruler is inconsistent with good government. All I need maintain is, that absolute power in the ruler is inconsistent with all our notions of free institutions. An absolute ruler may, with the best intentions, look within his own breast for the rules of right and wrong-to his own reason for his policy; and if his mind be better constituted, and his means of information greater than that of all others, his government may be better and wiser than any government influenced by popular opinion. To such a potentate, it is true praise to say of him that he possessed an inflexible determination to administer his government without regard to party, because tho opinions which make parties are beneath his consideration. He judges, he thinks, he rules for himself; he puts down public opinion, for it is but an
impediment in his way; and he rules irrespective of party, because to him public opinion is as nothing. But just in proportion as the form of a government is removed from a despotism, disregard of public opinion becomes a crime in a ruler, and ceases to be a subject for culogy. And he who administers a Government free and popular in its form, without regard to public opinion or to party opinions, call it which we please, is a violator of the constitution he is bound to uphold, and insincere in his professions of attachment to that constitution. Swift, in ridiculing party divisions, describes the kingdom of Lillipat as divided into two parties, one of whom wore low heels to their shoes, the other high heels; and if Sir Charles Metcalfe had been made Goveinor of Lilliput, he might have governed its diminutive inhabitants without regard to their heels, and have chosen his councillors from both parties indifferently, caring nothing for their disputes, and despising their party differences ; but who would allege that he was influenced by public opinion, or that he was administering Responsible Government? It is, however, just as a pigmy people that Sir Charles has always regarded Canadians, and it is with this view that he takes to himself the praise of inflexible determination; but the inflexible determination of a ruler under the British Constitution is national determination; and personal determination which opposes this, is despotism. The threat to employ whatever force may be necessary to enforce it, is tyranny; and the pretence that it is consistent with Responsible Government is hypocrisy." On Sir Charles' alleged resolve to act officially without the concurrence of his Executive Council, Legion thus remarks: "Charity may once have ascribed his invasion of the Constitution of this country to ignorance of British constitutional usage; but time has removed the veil, and he must now be considered either as the originator, or the instrument of a design to defeat and put down Responsible Government in Canada. If Canadians value Responsible Government, they cannot give way. They must use every constitutional means of asserting their rights, till they obtain them fully. Tf ticy do not value British freedom, or if Dr. Rycrson has been able to frighten them with his bugbear of "Royal Proclamations and Military Provisions," let. them kneel down and ask pardon for the presumption of their Parliament, and let the reign of favouritism and intrigue continue. If Canadians have not the spirit of British subjects, let them be the servants of servants they deserve to be; but if thoy have any
wish for peace and quietness as the fruit of ignominious vassalage, let them petition for the abolition of the Provincial Parliament, which cannot exist without constantly reminding them of their degradation. There may be something noble in political slavery; but political slavery with the forms of freedom is, to all intents and purposes, wretched and utterly despicable."

The letters of Legion were from the pen of Robert Baldwin Sullivan, afterwards one of the juidges of the Queen's Bench, and previously a member of successive Governments before and after the union of the Canadas. The author of the letters of Legion was wont in his younger days to contribute papers of a humorous and playful character to the literary periodicals of the day. In Sibbald's Canadian Afagazine, published at York (Toronto) in 1833, are to be seen communications of his under the nom-de-plume of "Cimma." I select a passage from an amusing "Essay on Roads," by Cinna.* "This being an introductory essay," the writer says, "it is fit that I explain that my remarks will not be confined to mere terrestrial roads; they will, indeed, be principally directed to those mental highways along which the glorious march of intellect is conducted, or rather driven with such steam-engine impetuosity. The schoolmaster is abroad, they say; and, indeed, for any use he is of, may so remain; learning is acquired nowadays without his assistance. The road to the temple of Fame has been levelled and macadamized; and there are rumours of a railway and a canal. This last, to be sure, is opposed by some old sober-sided fools, who think that the ancient institutions at the top of the hill, and which have been erected with so much labour, will slide into the deep cut which would be necessary to bring the canal down to ditch-water level ; but suppose they do, who cares? Is it not better to go on a tow-path over their ruins, than be threatened with a hempen one, into the other worid, for trying to undermine them? When $I$ was a little boy, my grandmother thought me a youth of talents rare when I learned ny letters; and to say the truth, my talons were often made to look as rare as an Abyssinian beefsteak before I acquired so much learning. I then stuck so long in orthography, that one would think I was spellbound. Oh! if I had only waited till now, when grown up gentlemen and ladies are taught writing in six short lessons. I might in a

[^39]week have been a literato person, and so branded by Act of Parliament. I might thon, indeed, have served my friends, who now say I am a burden to them, with writs of care and fiery faces, like Mr. Underhill ; or perhaps I might have been an attorney and then my clients would give mo instructions, and pay besides; and no one could say my education would not be finished some time or other, unless, indeed, it is possible that my aforesaid instructions might happen to be never dun! which is, it must be acknowledged, very unlikely." In the same Canadian Mragazine are some poetic pieces from the hand of Cinna, humorous and serious, which I shall presently notice. He explains in the following manner, in one of his papers, how he first came to send the editor a communication in prose:-"I was sitting," he says, "one evening with my friend 'Sae Bald' (so the editor Sibbald resolved his name on the covers of the Magazine), who everybody knows to be the proprietor of the Magazine, and I was reciting to him, as I thought most beautifully, somecantos of my great epic poem, in which I flatter myself I have excelled most poets in making the sound agree with the sense. The canto contained a sublime and musical description of the baying of a kennel full of hounds by moonlight; and of course the verse seemed to echo the voices of the interesting animals who thus sang in concert with the music of the spheres. The passage I was reading, notwithstanding the splendour of the lunar orb, was a dark one; and I was indulging myself in the hope that I had excelled even my companion 'Sae Bald' in the obscurity of his style, when I was awakened from my pleasing dream by his suddenly interrupting me. Laying down his glass, ' Cinna, mon,' says he, 'will ye just hand me the nutmeg?' This spicy gale quite shipwrecked the bark of my dogs, and oh ! how that cinnamon and nutmeg grated on my feelings? But think not, reader, that my friend does not understand and feel poetry, particularly such as mine. The truth was, I had chosen my time badly. The printer's imp stood behind his chair. 'Cinna,' said Sae Bald, 'what for do ye no gie us some prose for the Mogazeen? Yon deevil of a printer is in an unco hurry for matter, an' he says, nae matter how I get it, it maun be furnishet directly.' 'And I suppose,' said I, snappishly, ' you cannot furnish it directly if your materials are inverse.'" I close Cinna's prose with two anecdotes which he contrives to bring in. (The "Red Lion" is still in being in Yorkville; it used to be known, from the name of the well-known proprietor and manager, as Tiers' Tavern. It should have been mentioned above
that the Underhill there named was a well-known local bailiff.) "An old acquaintance of mine," Cimma writes, "the landlord of the Red Lion, who was $n$ jolly fellow, although his nume was Tiers (what his wife's was before marriage is now forgotten, for Tiers dropped upon the word and—blotted it out for ever!), puzzled a gentleman sorely in my presence, by telling him that he, Tiers, was tired of public life, and must retire from the bar. And I myself," Cinna adds, "was once canvassing for a seat in Parliament, and applied to an Irish friend to let me have some wild land, that being considered the only qualification necessary in a member. I began by telling my friend, in the elevated and patriotic style which the election time produces, that I was desirous of having a stake in the country. 'Then,' says he, ' you had better go to old Ireland for that same, for the never a steak you'll get in this country fit to ait, for love or money.'" Outrageous puns, it will be observed, form the staple of theso papers. Some playful verses from the same hand, in the manner of Hood, and similarly characterized, are to be seen also in Sibball's Magazine. As a specimen, I give a few lines from a ballad of thirty-two stanzas. Tom Scalpel, a medical student, abstracts from a dissecting-room the head and arms of a dead body. The deed is thus described:-
> " Says Tom, although the sky don't fall I think I'll have a lark ; This kind of lark, they fly by night; So Tom got out of bed, And took his steel and stole two arms, Aud bagged the subject's head; Like other folks that hake to arms, He took to legs and run, Although he heard no shot, ere half His heavy task was done."

The grotesque consequences of the action are then detailed at leagth, in language ingeniously tortured. I observe also some graceful songs by Cinna, in the Haynes Bayly style. I select one verse:-
> " The worm the rose's petals fold, Guaws at its inmost core; And love that never must be told Consumes the heart the more."

To these extracts I subjoin one passage, in which the writer of the Letters of Iregion, and of the productions subscribed "Cinna," speaks in his own proper person. It is from an "Address on Inmigration.
and Colonization," delivered in the Mechanics' Institute, Toronto, 18.47. It will be seen that in 18.47 he had a very clear view of the capabilities of the then almost wholly undeveloped North-West. "I dare say by this time," Mr. Sullivan said, in the course of his address, "I have established my character for being visionary and over-ardent, and impatient; but I have to lead you yet farther. Just take the map of Canada-but no! that will not do ; take the map of North America, and look to the westward of that glorious inland sea, Lake Superior. I say nothing of the mineral treasures of its northern shores, or those of our own Lake Huron, but I ask you to go with me to the head of Lake Superior, to the boundary line. You will say it is a cold journey; but I tell you the climate still improves as you go westward. At the hend of Lake Superior we surmount a height of land, and then descend into the real garden of the British possessions, of which so few know anything. Books tell you little of the country, and what they do say will deceive and mislead you. I tell you what I have heard directly from your townsman, Mr. Angus Bethune, and indirectly from Mr. Ermatinger, very lately from that country:-A little to the westward of Lake Superior is Lake Winnipeg, and into Lake Winniper runs the Saskatchewan River. It takes its rise in the Rocky Mountains, and the Lake Winnipeg discharges its waters towards and into Fudson's Bay. This river runs from west to east fifteen hundred miles without an obstruction; it is navigable for bonts carrying ten or twelve tons. It runs through a country diversified with prairie, rich grass, clumps of forest, and on one of the branches of the river are coal-beds, out of which coal can be obtained by any one with a spate in his hand or, without; and the plains are covered with the wild buffalo of America. I am told that you may drive a waggon from one end to the other of the country of the Saskatchewan; and I am told, moreover, that it is superior in soil and equal in climate to any part of Canada, and that it produces wheat, barley, oats. potatoes-in short, all the crops of temperate climates-in abundance." Now that Manitota has been organized, and a beneficent civilization is beginning to spread itself thence far out over the broad Saskatchewan valleys, destined soon to meet influences of a similar kind emanating from British Columbia, the forecasts of a thoughtful, ardent mind in regard to these regions some thirty years ago are inkresting to read; and they may help as to realize and measure the progress-material, social, and moralwhich has been made in that interval of time.

# SYNOPSIS OF THE FLORA OF THE VALLEY OF THE ST. LAWRENCE AND GREAT LAKES, 

WITH DESCRIptions of the rarer plants.

BY JOHN MACOUN, M.A , Botanist to the Geological Survey.
AND
JOHN GIBSON,* is A., F.G S., F.B.S.E.
(Continued from page 17C.)

## GERANIACEE.

## Geranium, L. Cranesbill.

G. maculatum, L. Wild Cranesbill.

Indigenous. Open woods and fields. Vicinity of Prescott(Billings). County Lanark (Gibson). Common in Central Canada (Macoun). Hamilton, Ont. (Logic). Near London, Ont. (Saunders). Western Ontario, on Lake Muron; Chippawa and Malden, Ont. (Maclagan). New Brunswick (Dr. Fowler). West of the Saskatchewan? (Bourgeau).

## G. Carolinianum, L. Carolina Cranesbill.

Indigenous. Barren soil and waste places. Presentt (Billings). Quebec and Saguenay (Brunet). On gneiss rocks, River Rouge (D'Urban). Western Ontario, on Lake Huron (Gibson). Saskatchewan plains (Bourgeau). Owen Sound; Thunder Bay; Islands in Lake of the Woods; Fort Edmonton, on the Saskatchewan ; Peace River, Dunיegan ; Telegraph Trail, Upper British Columbia; Vancouver Island (Macoun). New Brunswick (Dr. Forter).

G. Robertianum, L. Herb Robert.

Indigenous. Moist woods and shaded rocky ravines. New Brunswick (G.F. Mathews). Isle aux Hurons, Quebee (Molmes' Herb. McGill College). Chippawa, Malden (Maclagan). Common in Central Canada (Maccun). Mountain near Hamilton (Logie). Western Ontario (Saunders, Gibson). Whiskey and Cockburn Islauds and Bruce Mines, Lake Huron (Dr. Bell). Head of Goulais Bay, Lake Superior (Prof. Bell). Prince Arihur's Landing, Islands, Lake of the Woods (Macoun).

[^40]Erodius, 'LiHer. Storksbill.
E. cicutarium, L'Her. Annual Storksbill.

Introduced from Europe. Escaped from gardens. Lake Lemab, Hastings County, Ont. (Macoun). Vicinity of Hamilton, Ont. (Logie). Vancouver Island (Macoun).

Flerkea, Willd. Falso Mcrmaid.
1F. proserpinacoides, Willd. False DIermaid.
Indigenous. Marshes and river banks. Amherstburg, Ont. (Maclagan).
Impatiens, L. Balsam. Jewel-weed.
I. pallida, Nutt. P le Touch-me-not.

Indigenous. Cedar swamps, along rills, and by springs. Niagara Falls (Macoum). Buriington Bay (Logie). St. Catharines, Ont. (Maclagain). Western Ontario, on Lake Huron (Gibson). Montreal Mountain (Dr. Holmes). Plains of the Saskatchewan? (Bourgeau). St. John's, Peace liver (Macoun).
I. fulva, Nutt. Spotted Touch-me-not.

Indigenous. Cedar swamps, along rills, and by streams. New Brunswick (Dr. Forrler.) Quebec, St. Joachim (Brunet). Montreal Ishand (Dr. Holmes). Nicolet, Montreal, Chippawa, Niagara, Malden (Maclagaun). Riviere du Loup (Dr. Thomas). River Rouge (D'Urban). Common in Central and Western Outario (Macoun, Gibson, Logie, Saunders). Kaministiquia River, Lake Superior; Dawson Route; Elmonton, Saskatchewan River; Fort Assimaboine on the Athabasca (Macoun). Saskatchewan Plains (Bourgeau). British America, lat. $66^{\circ}$ and Newfoundland (Hooker).

## Oxalis, L. Wood-sorrel.

O. acetosella, L. Common Wood-sorrel.

Indigenous. Deep cold woods. New Brunswick (G. F. Mathews). Montreal, Yort St. Francis (Maclagan). Riviere du Loup (Dr. Thomas). River Rouge (D'Urban). Quebee and Island of Anticosti (Brunet). Woods near Montreal ; Portages of Black River, Three Rivers (Dr. Holnes). Northern portions of Central Canada, and Owen Sound (Macoun). Grand Island, Lake Superior (Prof. Bell). North-east coast of Lake Superior (Macoum). Malme River, Dawson Route (Macoun).
O. stricta, L. Yellow Wood-sorrel.

Indigenous. Copses, cultivated grounds, anil river banks. New Brunswick (Dr. Fowler). Vicinity of Quebec (Brunet). River Rouge (D'Urban). Common in Central Canada iMacomn). Common in Western Ontario (Logie, Saunders, Gibson). Lake of the Woods (Macoun).
O. coaniculata, L .

Indigenous. In cultivated grounds. Is distinguished from 0 . stricta by the presence of stipules at the base of the petioles, and its pubescent leaflets and sequals. Vicmity of Montreal (Brunet). Lake Huron (Dr. Todd, vide Hooker).

RUTACEE.
Zanthoxylus, Colden. Prickly Ash.

## Z. Americanum, Mill. Northern Prickly Ash.

Indigenous. Water-courses, shores and low rich woodlands. Vicinity of Montreal ; Isle aux Noix (Brunet). Viciuity of Ottawa (Billings). Common
in Central Canada (Macoun). Common in Western Ontario (Gibson, Saunders, Logic). Clippawa, Navy Island, Thorold, Malden (Maclagan).

## ANACARDIACEd.

Ruus, L. Sumach.
R. typhina, L. Staghorn Sumach.

Indigenous. Hillsides, thickets. New Brunswick (Dr. Fowler). Temiscouta, Quebec, Three Rivers, Canada West (Maclagan). Vicinity of Grenville (D'Urban). Village of Beaupré, Quebec (Brunet). Common in Central Ganada and Owen Sound (Macoun). Vicinity of Loudon (Saunders). Hamilton (Logie). County Huron (Gibson). North shore of Lake Huron (Prof. Bell). Cape Smyth, Manitoulin Island; Whiskey, Cockburn and Mississagui Ishands, Lake Huron (Dr. Bell).
R. glabra, L. Smooth Sumach.

Indigenous. Barren grounds, rocks. Vicinity of London (Saunders). Amherstburg (Maclagan). Abundant near Belleville, Ont.; Lake Nemikin, Dawson Route (Macoun). Saskatchewan Plains (Bourgeau).
R. copallina, L. Dwarf Sumach.

Indigenous. Rocky places. The Thousand Islands, River St. Lawrence (Rev. J. K. MeMorine). Barren places, Canada (Torrey and Gray).

## R. Toxicodendron, L. Poison Ivy. Poison Oak.

Indigenous. Thickets and low grounds. New Brunswick (Dr. Fowler). River Kouge, abundant (D'Urban). Quebec, St. Joachim (Brunet). St. Johns, Nicolet; Chippawa, Malden (Maclagan). Abundant in Western Ontario (Logie, Saunders, Gibson). Eastern Ontario (Billings). Abundant north shore of take Huron, and cast coast of Lake Superior (Prof. Bell). Abundant in Central Canada; Owen Sound; Sturgeon Lake, Dawsom Route; Fort Edmonton, on the Saskatcheran (Macoun). Saskatchewan Plains (Bourgeau). Cape Smyth, Grand Manitoulin ; Whiskey, Cockburn and Mississagui Islands, Lake Huron (Dr. Bell). Montreal Islaud (Dr. Holmes).
R. aromatica, Ait. Fragrant Sumach.

Indigenous. Dry, rocky soil. Abundant along the Rivers Moira and Trent, Ont. (Macoun). Banks of Niagara and Detroit Rivers (Maclagan). Wolfe Island, opposite Kireston ; Whiskey Island, Lake Huron (Dr. Bell). Saskatchewan River (Hooker). Maline River, Dawson Route (Macoun.)

VITACEEE.
Viris, Tourn. Grape.
V. cordifolia, Michx. Winter Grape. Frost Grape.

Indigenous. Thickets and river banks. Quebec, Isle of Orleans (Dr. Thomas). Lake St. John (Brunet). Nicolet, Quebec ; Nalden (Maclagan). Common in Easteru Ontario (Bill:ngs). Common in Central Canada (Macoun). Common in Western Ontario (Logie, Saunders, Gibson). Island of Montreal (Dr. Holmes). Dufferin, Mantoba (Dawson).
V. cordifolia, Michx. Var. riparia, Gray.

Indigenous. Thickets and river banks. Vicinity of Collingwood, Ont. (Macoun). Vicinity of Hamilton (J. M. Buchan). Riviére aux Sables, Western Ontario (Gibson).

## Aapelopsis, Michx. Virginian Creeper.

A. quinquefolia, Michs. American Ivy. Woodbine. Virginian Creeper.

Indigenous. Low, rich grounds. Rocks at Gross Isle, Quebee (Brunet). Abundant, River Rouge (D Urban). Common in Eastern Ontario (Billings). Abundant in Western Ontario (Gibson, Logic, Saunders). Niagara District (Maclagan). Common in Central Canada; Owen Sound ; 15 miles up the Kaministiquia, Lake Superior; New Portage, Dawsor Route (Macoun). Montreal lsland (Dr. Holmes). Lake of the Woods (Dawson).

## RHAALNACEE.

Rhabinus, Tourn. Buckthorn.

## R. catharticus, L. Common Buckthorn.

Introduced. Cultivated grounds.' Castleton, and vicinity of Belleville, Ont. (Macoun).

## R. alnifolius, L'Her. Alder-leaved Buckthorn.

Indigenous. Cold swamps and meadows. St. Croix, Quebee (Brunet). New Brunswick (Dr. Fowler). Riviére du Loup (Dr. Thomas). Wolfe Island and Niagara Falls (Maclagan). Common in northern portions of Eastern. Ontario (Billings). Frequent in Western Ontario (Logie, Saunders, Gibson). Common in Central Canada; Owen Sound; Woods near Pic River, Lake Superior (Macoun). Cockburn Island, Lake Hurou (Dr. Bell). Montreal Island (Dr. Holmes). Saskatchewan Plains (Bourgeau). Koolanie Pass (Dawson).

> Ceanotius, L. New Jersey Tea. Red-root.

## C. Americanus, L. New Jersey Tea.

Indigenous. Dry wood lands. Vicinity of Prescott (Billings). Kingston, Niagara, Malden (Maclagan). Abundant near London, Ont. (Saunders). East Flamboro, Ont. (Logie). Dry soils, Hastings and Northumberland Counties (Macoun). Saskatchewan Plains (Bourgeau).

## C. ovalis, Bigelow. Oval-leaved Ceanothus.

Indigenous. Dry.rocks. Rocky places, Canada (Torrey \& Gray). Near Shannonville station, Ont.; St. Norah's Island, Peterborough County; very abundant twenty miles up the Kaministiquia River, Lake Snperior ; Sturgeon lake, Dawson Route (Macoun). Gore Bay, Grand Manitoulin Islaud, Lake Huron (Dr. Bell).

CELASTRACEA.
Celastrus, L. Stafi-Tree. Shrubby Bitter-sweet.
C. scandens, L. Wax-work.

Indigenous. Along strcams and thickets. Borders of rivers, Quebec (Brunet). Montreal Island, Chippawa, Malden (Maclazan). Vicinity of London, uncommon (Saunders). Mountain side, Hamilton (Logic). Common near Prescott (Billings). Frequent along rivers and in ficlds, Central Canada; also at Owen Sound (Macoun). Mamainse, east coast of Lake Superior (Prof. Bell).

## Euonysus, Tourn. Spindle-Trec.

E. atropurpurens, Jacq. Burning-Bush. Waahoo.

Indigenous. Shady woods. Upper Canada (Torrey \& Gray). Malden, Ont. (Maclagan).
E. Americanus, L. Strawberry Bush.

Indigenous. Wooded river banks. Vicinity of London (Saunders). Hills around Niagara (Maclagan). Banks of Lake St. Clair (Douglas).
E. Americanus, L. Var. obovatus, Torrey \& Gray.

Indigenous. Low or wet places. Vicinity of Hamilton, Ont. (Judge Iogie.)

SAPINDACERE.
Staphylea, L. Bladder-Nut.
S. trifolia, L. American Bladder-Nut.

Indigenous. Thickets, river banks. Vicinity of Prescott (Billings). Local in Central Canada (Macoun). Mountain side west of Hamilton (Logie). Vicinity of London (Saunders). Wolfo Islar 1, opposite Kingston, and Malden, Ont. (Maclagan).

Asculus, I. Horse Chestnat. Buckeye.
. . Hippocastanum, and $\nrightarrow$. glabra are only found in cultivation.
Acer, Tourn. Maple.
A. Pennsylvanicum, L. Striped Maple. Moose-wood.

Indigenous. Rich, damp woods. New Brunswick (G. Э. Mathews). River Rouge (D'Urban). Common in Quebec (Brunct). Common at Riviére du Loup (Dr. Thomas). Nicolet (Maclagan). Common near Prescott (Billings). Abundant in northern parts of Central Canada (Macoun). Island east of Mississagui River, Lake Huron (Prof. Bell). Cockburn Island, Lake Huron (Dr. Bell). Goulais Point, Lake Superior; Red Bay, Lake Huron (Macoun). County Huron, Ont. (Gibson). British America, Lat. $51^{\circ}$ N. (Torr. \& (iray).
A. spicatum, L. Mountain Maple.

Indigenous. Wet woods and cedar swamps. New Brunswick (Dr. Fowler). County of Gaspé (Brunct). Nicolet, Montreal, Bel'œil, Niagara (Maclagan). Common all along the St. Lawrence (Dr. Thomas). Vicinity of Familtom (Logie). London (Saunders). County Huron, Ont. (Gibson). Common in Central Canada; Owen Sound, Michipicotin Island and Thunder Bay, Lake Superior; Dawson Route (Macoun). Saskatchewan Plains (Bourgeau). Hilton and Cockburn Islands, Lake Huron; west coast of Newfoundland (Dr. Bell). To lat. $51^{\circ} \mathrm{N}$. (Torrey \& Gray).
A. saccharinum, Wang. Sugar Maple.

Indigenous. • Rich woods. Abundant throughout Ontario, Quebec and the Maritime Provinces. South-east coast of Lake Superior, and Thunder Bay (alacoun).
A. saccharinum, Wang. Var. nigrum, Gray. Black Sugar Maple.

Indigenous. Rich woods. Mirivin's troods, near Prescott (Billings). Nicolet (Brunet). Malden, Ont. (Maclagan).
A. dasycar um, Ehrhart. White or Silyer Maple.

Indigenous. River valleys and hanks. Common in the valleys of the Trent and Morra Rivers, and Prince Fimard County ; Mud Portage, Dawson Route (Macoun). Rare along the Liver St. Francis (Brunet). New Brunswick (G. F. Mathews).

## A. rubrum, L. Red or Swamp Maple.

Indigenous. Swamps and wet woods. New Brunswick (Dr. Fowler). Throughout the Province (Maclagan). Riviére du Loup (Thomas). River IRouge (D'Urban). Common in Quebec (Bruaet). Common in Eastern Ontario (Billings). Common in Western Ontario (Logie, Saunders, Gibsou). Common in Central Canada (Macoun). Goulais Point, Lake Superior ; Maline Rapids, Dawson Ronte (Macoun). Saskatchewan Plains (Bourgeau). West coast of Newfoundand (Dr. Bell). Centre'of St. Joseph's Islinl, Lake Huron (Dr. Bell).

Nequndo, Mœnch. Box-Elder.
N. aceroides, Mœnch. Ash-leaved Maple.

Indigenous. River inanks. Interior of Canada (Hooker). Eleven miles up the Kaministiquia, Lake Superior (Macoun). Saskatchewan Plains (Bourgeail). Island on Lale oi the Woods (Micoun.) Carleton (Macoun).

POLYGALACETE
Polygaha, Tourn. Milkwort.
P. incarnata, L.

Indigenous. Dry soil. Ontario (Brunct).
P. sanguinea, I.

Indigenous. Barren grounds. Sandwich, Ont. (Maclagan).

## P. fastigiata, Nutt.

Indigenous. Dry grounds. Vicinity of Hamilton (Judge Logic).

## P. Nuttalii, Torrey \& Gray.

Indigenous. Princé's Yshand, Ont. (Logie).
P. verticillata, L.

Indigenous. Dry soil. Amherstuarg, Ont. (Maclagan). Plains of the Saskatchersay (Bourgeau). Boucherville Island, River St. Lawrence (Dr. ELIOImes).

## P. Senega, L. Seneca Snake-root.

Indigenous. Rocky soil and sandy plains. Abundant on sandy plains in Central Canada (Macoun). Frequent in vicinity of Jondon (Saunders). Ilains of the Rirer aux Sables, south, Lake Huron (Gibson). Prince's Island (Logie). Kingston, Niagara, Nary Island, and Malden (Maclagan). Drummond Island, Lake Huron (Dr. Bell). Saskatcherwan Plaing (Bourgeau).
P. polygama, Walt.

Indigenous. Dry sandy soil. Sandy plains, local, Central Canada (Macoun). English's woods, vicinity of Londou (Saunders). Lake of the Woods (Dawson).
P. pancifolia, Willd.

Indigenous. Ligit samly soil and pine barrens. Sandy phains, common, Contral Camada (Macoun). Vienity of Kingston (Maclagan). Near Loke Medad, Ont. (Logie). Near White Fish Point, in sand aroumd red pines (Prof. Bell). Lake Hurm (Brunct). Lake Ontario (Mlichaux). Cockburn Island, Lake Huron (Dr. Bell). Kaministiquia River, Lake Superior (Macoun). S.skatchewan Plains (Bourgeau). Islam? of Montreal (Dr. Holmes).

## LEGUMNOSA.

Lupinus, Tomn. Lupine.

## L. perennis, L. Wild Lupine.

Indigenous. Sandy soil. Scarce at Castleton, Peterborough Co. (Macoun). Very common, G. W. R. track, vicinity of London (Saunders). Ylains of the River aux Sables, south, Lake Huron (Gibson). Sandwich, Ont. (Maclagan).

## Thifolius, L. Clover. Trefoil.

T. arvense, L. Stone Clover.

Naturalized from Europe. Old fickls. Necropolis, Toronto (Macoun). Near Dundurn, Ont. (Logie) Brockville Road, near Conway's Creek (Billings). Comuon, Fiviére du Loup (Dr. Thomas).
T. pratense, L. Red Clover.

Introduced from Europe. Ficlds and meadows. Common throughout Eastern and Central Canadi.
T. reflexum, L. Buffalo Clover.

Indigenous. Light dry grounds. Islands in Detroit River (Maclagan).
T. repens, L. White Clover.

Indigenous. Fields and copses, everywhere. Both indigenous and introduced.
T. agrarium L. Yellow or Hop-Clover.

Introduced. Sandy fiches. Between Trentou and the Carrying place, Ont., 1863 (Macoun).
T. procumbens, L. Low Hop Clover.

Introduced. Sandy fields and roadsides. Vicinity of Qucbec (Brunct). Fields, Hamilton (Logie). Ner Brunswick (Dr. Fowler). Kingston (Morden).
T. hybridum, Alsick.

Introduced. Cultivated fields, and along fences. Is being extensively cultivated in the west instead of $T$ 'p pratense.

Melilotus, Tourn: Melilot. Sweet Clover.
M. officinalis, Willd. Yellow Melilót.

Introduced. Waste or cultivated grounds. River side, near Belleville, Oat. (Macoun). Near the Citadel, Quebec. (Brunet). Montreal (Maclagan). New Brimswick (Dr. Fowler). Toronto (Buchan).
M. alba, Lam. White Melilotus.

Introduced. Waste or cultivated grounds. A weed or flower in gardens, Belleville (Macoun). Bank of the St. Lawrence, near Prescott (Billings). New Brunswick (Dr. Fowler).

Medicago, L. Medick.
M. sativa, L. Lucern.

Introduced. Sandy fields. Northumberland County, rare, and Owen Sound (Macoun.)
M. hupulina, L. Black Medick.

Introduced Waste places. Abundant in Central Canada. Common in Eastern Ontario (Billings). Frequent in Western Ontarto (Logie, Gibson). New J̇ranswick (Dr. Fowler).

Robinia, I. Locust Tree.
R. Pseudacacia, L. Common Locust or False Acacia.

Introduced. Cultivated as an ornamental tree.
R. viscosa, Veint. Clammy Locust.

Introduced. Cultivated as an ornamental tree. Scarce. This is much smaller than the $R$. Pseudacacia.

Astragalus, L. Milk-Vetch.

## A. Canadensis, L. Canadian Milk-Vetch.

Indigenous. River banks. New Brunswick (Dr. Fowler). Borders of rivers near Quebec (Brumet). Montreal Island (Dr. Molnes). Prescott and Brockville (Billings). Rice Lake, Belleville on the Moira, banks of Trent (Macoun). Near Cove, vicinity of London (Saunders). Burlington Heights (Iogic). River aux Sables, south, Lake Huron (Gibson). Kingston, Wolfe Island, Goat Island, Navy Island, Malden (Machagan). Michipicotin Island, Kaministiquia River, and New Portage, Dawson Route (Macoun). Plains of Saskatchewan (Lourgeau).

## A. Cooperi, Gray.

Indigenous. Rocky grounds. Meycrsburg and vicinity of Marmera Village; Bruce Peninsula, Ont, (Macoun). La Cloche Ishand and Whiskey Island, Lake Huron (Dr. Bell). Hamilton (Logic). Montreal Island (Maclagan).
A. Robbinsii, Gray.

Indigenous. Rocky ledges. Acadia, valley of the St. Lawrence (G. F. Mather.)

## A. alpinus, I .

Indigenous. Rocks and banks. Northern parts of Canada-A. secundus(Michaux). Labrador coast (Butler). Island of Anticosti (Dr. Thomas). East Greenland (Hooker). Montrcal Island (Dr. Holmes, vide Torr. \& Gray). Near Quebec (Mrs. Percival). Macleod's Lake, Lat. $55^{\circ}$ (Macoun).

Oxytropis, DC. Oxytropis.
0. campestris, DC.

Indigenous. Dry rocky ground. Isle of Orleans; Cosst of Labrador (Brunct). Baffin's Bay (Hooker). Saskatchewan Plains; Pence River Valley (Macoun). This is undoubtedly the 0 . Lamberli reported from Quebec by Sirs. lecrcival.
O. podocarpa, Gray, Proc. Am. Acad. 1868.

Indigenous. On rocky ground. Suuth coast of Labrador (Gray). O. arctica, Hook. Fl. Bor.-Am. 1, y. 146, pro parte, non R. Brown. Astragalus bijlorus, Schweinitz in herb. Nearly stembess, silky; leaflets opposite and alternate, oval-ublung; heads, few flowered, the flowers somewhat umbellate; legumes erect, oblong, acuminate, and clothed with black hairs.

## Hedysiarus, Tomm. Hedysarum.

ㅍ. boreale, Nuti. Nocthern Hedysarum.
Indigenous. Gravelly or rocky soil. Borders of Lake St. John (Brunet). North shore of Lake Superior (Agassiz). Labrador (Butler). From Fort Ellis to Furt Eldmontou, on the Saskatchewan; Portage between Little Slave Lake and Peace River ; Plains betreen Duncgan and St. John's, on Peace River, abundant (Macoun). Northeru C.mala (Michaux). Arctic Circle (Richardson). Kotzebue's Sound (Beechey). Rocky Mountains, lat. $\mathrm{y}^{\circ}$ M. (Drummond).

## Glycyrriziza, Tourn. Liquorice.

## G. lepidota, Nutt.

Indigenous. Santy banks. Fort Eric, Ont., opposite Buffalo (G.W.Clinton). Mouth of Rainy River, Lake of the Wocds, and westward (Macoun). Lake Athabasca (Macoun).

Desmodius, DC. Tick-Trefoil.
D. nudiflorum, DC.

Indigenous. Dry wools. Samdy wools, Br'ghton, Ont.; Oak Hills, Silacy, Ont. (Macuun). Rare in Eastern Ontirio ( $\mathrm{Bi}^{\prime}$ 'Igs). Niagara River (Maclagan). Vicinity of Mamilton (Logic). Papincau Wood, Montreal (Dr. Holmes).
D. acuminatum, DC.

Indigenous. Rich woods. Common in rich moods, Central Canada (Aincoun). Abunilant in Easçcru Ontario (Bilhngs). Near Dundas, Ont. (Logic). Nicolet; Chippawa, St. Catharines, Maldru (Alaclagan). Rich roods, Bosanquet, Seaforth, Bayficld, Ont. (Gibson). St. Joachinn; Foot of Little Cape, common (Brunct). Mountain of Montreal (Dr. Molmes).
D. pauciflorum, DC.

Indigenous. Dry sandy woods. Sandy moods, Castleton, Northumberiand County (Macoun). Prescott, rarc (Billings). Vicinity of Hamilton (Logic).
D. canescens, BC .

Indigenous. Moist grounds. Malden, Ont. (Maclagan).
D. cuspidatum, Torrey and Gray.

Indigenous. Thickets. Myersburgh, Northumberland Caunty (Macoun). Vicinity of Hamilton (Buchan). Cayuga, St. Catharines and Malden (Maclagan).

## D. Dillenii, Darlingt.

Indigenous. Open woodlands. Vicinity of Hamilton (Judge Logie).
D. paniculatum, DC.

Indigenous. Copses. Vicinity of London (Saunders). Hamilton (Logie). St. Catharines, Malden (Maclagan).
D. Canadense, DC.

Indigenous. Dry rich woods. Vicinity of Quebec; River Restigouche (Brunct). Huckleberry Rapids, River Ruage (D'Crban!. Enstern Ontario, common (Billings). Niculet, Niagara, Cayuga, Malden (Maclagan). Cummun in Central Canada (Macoun). Stanley Tlownship, Lake Huron (Gibson). Island of Montreal (Dr. Holmes).

## Lespedeza, Michx. Bush Clover.

L. repens, Torr. and Gray.

Indigenous. Dry sandy soil. Upper Canada (Douglas). The Dell, Ancaster, Ont. (Judge Logic).

## L. violacea, Pers.

Indigenous. Dry copses and borders of woods. Malden, Ont. (Maclagan). The Dell, Ancaster, Ont. (Judge Logic).
L. hirta, Ell.

Indigenous. Dry hillsides. Oak Hills, Sidney, Ont. (Macoun). Prescott (Billings). Prince's Island, Lake Medad, Ont. (Logie). St. Catharines, Thorold, and Quecnston, Ont. (Maclagan).
L. capitata, Michx.

Indigenous. Dry and sandy soil. Rice Lake Plains; Oak Fiills, Siducy, Ont. (Macoun). Yicinity of London, common (S̃aunders). County Huron, Lake Huron (Gibson). Eastern Ontario, along the bauks of the St. Lawrence (Billings). Prince's Island, Lake Medad (Logie). Malden, Ont. (Maslagan).
L. capitata, DIx. Var. augustifolia, Gray.

Vicia, Tourn. Vetch. Tare.
V. sativa, I. Common Vetch or Tare.

Introduced. Cultivated fields and waste places. Along G. T. R. track, Belleville (Macoun). Clay banks, cast of Prescott (Billings). Vicinity of Quebec (Brunet). Nerr Brunswick (G. F. Mathews). Common at liviére du Loup (Dr. Thomas). Malden, Ont. (Maclagan).

## V. tetraspcima, L.

Introduced. Waste places near the coast. Isle of Orleans (Brunet). Longeuil, Quebec (Maclagan).
V. hirsuta, Koch.

Introduced. Waste places. Quebec (Brunet). Common at Riviére du Loap (Dr. 'Thomas). Viciuity of Hamiltou (Logic).
V. Cracea, L.

Indigenous. Fields and wastes. Rocky field near Bellerille (Macoun). Common near Prescott (Billings). Common at Quebec (Brunet). New Irunswick (Dr. Fowler). Montreal Isiaud (Holmes, Maclayan). Common at Rivere du Loup (Dr. Thomas). Fifteen miles up the Kaministiquia, Lake Superior (Macoun). Fort Garry and Fort Carleton, on the Saskatehewan (Alacoun).
V. Caroliniana, Walt.

Indigenous. River banks and lake shores, \&c. Bay of Quinte, Prince Edward Cuunty (Macuan). CLipyawa, Navy Island and Malden (Maclarana.
V. Americana, Muhl.

Indigenous. River banks and moist soil. Paris (Logie). Chippawa, Navy Island, Cayuga, and Malden (Maclagan). North shore of Lake Superior (Agassic). Twenty miles up the Kaministiquia River and on Pie Island, Lake Superior; Shebandewan Lake, Dawson Route. Abundant all the way from Fort Garry westward to Peace River, and through the Rocky Mountains and Upper British Columbia to Quesnelle (Macoun). North to Bear Lake (Hooker).

## V. Americana, Muhl. Var. Sylvatica, Mac. \& Gib.

Leaflets elliptical-lanceolate, somewhat rigid, strongly reticulated; peciancles 2.5 flowered. Climbing over bushes on the banks of the Kaministiquia, 20 miles from its mouth (Macoun). Saskatchewan and westward (Hooker).

## Lathyrus, L. Vetchling.

## L. maritimus, Bigelow.

Indigenous. Lake and river beaches from the Gulf of St. Lawrence to Lake Superior. New Brunswick (Mathews). Riviere du Loup, Anticosti, Labrador (Brunet). West const of Newfoundland ; and Mississagui Island, Lake Huron (Dr. Bell). Presqu'ile Point, Lake Ontario, and very abundant along the shores of Lake Superior (Macoun). Hamilton (Logic). Mouth of the River aux Sables, south (Gibson). Saskatchewan Valley (Eurgeau). Kotzebuc's Sound and Arctic Aunerica (Richard).
L. venosus, MIuhl.

Indigonous. Shady river banks and thickets. Whirlpool, Niagara Falls (Maclayan). Very abundant 15 miles up the Kaministiquia River, and along Rainy River, Lake of the Woods, extending westward to the Athabasca (Macian). River St. Pierre (Dr. Holmes). West to Pacific (Macoun).
V. ochroleucus, Hook.

Indigenous. Rocky hill sides and thickets. Kingston and Chippawa (Maclagan). Hamilton (Logic). Rocky woods near Belloville; North shore of Lake Superior and Kaninistiquia River; abundant on the Dawson Route;
thickets Saskatchewan Plains; and throughout the partially wooded country;to Peace River, and west of the Rocky Mountains to the Upper Frazer (Macoun). North to Bear Lako (Rich.)
L. palustris, L.

Indigenous. Marshy mendows and along river banks. Abundant from Labrador and New Brunswick to the head of Lake Superior, and westward to Edmonton on the Saskatchewan (Macoun).
L. palustris, L. Var. myrtifolius, Gray.

Indigenons. Rocky banks of rivers. New Brunswick (Fowler). Lotbiniere (Brunct). Moutreal Ishand (Dr. Holmes). Carol's Point (Logic). Chippawa (Maclagan). Bayfield River (Gibson). Banks of the Rivers 'lrent and Moira throughout their whole length. Colpoy's Bay, Georgian Bay (Macoun). Cockburn Island, Lake Haron (Dr. Bell).

## Apios, Boarhaave. Ground Nut.

A. tuberosa, Monch.

Indigenous. Low gravelly banks of rivers. St. Nicholas, and Lotbiniere (Brunet). Montreal (sland (Dr. Holmos). Marsh near Prescott (Billings). Heely Falls, River Trent, Northumberland County; near Smithville, on the Moira, Hastings County (Macoun). Vicinity of London (Saunders). Hamilton (Logie). Baytield River (Gibson).

## Puaseolus, L. Kidney Bean.

P. diversifolius, Pers.

Indigenous. Sandy fields and banks. Montreal, Malden (Mraclagan).
P. helvolus, L .

Indigenous. Sandy fields and thickets. G. W. R. track one mile east of Londou (Suunders). Hamilton (Logic).

## Ampuicarpea, Ell. Hog Pea Nut.

A. monoica, Nuti.

Indigenous. Rich woodlands and moist thickets. Common at St. Croix and Quebec (Brunet). Along the banks of the Rouge, Quebec (D'Urban). Woods and thickets, Prescott (Billings). Common in Central Canada; 15 miles up the Kaninistiquia River, Lake Superior (Macoun). Montreal Island (Dr. Holmes). Owen Sound (Dr. Bell). Prince's Ishad (Logie). Niagara District, and Malden (Maclagan).

## Birtisla, Vent. False Indigo.

B. tinctoria, R. Br. Wild Indigo.

Indigenons. Sandy dry soil. Vicinity of Eamilton (Logic). Colchester, Sandwich, Ont. (Maclagau.)
B. leucantha, Torr. \& Gray.

Indigenons. Rich allavial soil. Provines of Ontario, near Lake Erie (Torr. \& Gray).
B. alba, R. Br.

Iudigenous. Dry soil. Camadian shore of Lake Erio (Goldie).

> Gymrocladus, Lam. Kentucky Coffee Tree.
G. Canadensis, Lam.

Introluced. Rich woods along rivers. Cultivated as an ornamental tree, Island of Moutreal (Brunct).

Gleditsciila, L. Honey Locust.
G. triacanthos, L. Honey Locust.

Introduced. Rich wools. Cultivated as an ornamental tree. Belleville (Macoun). Xsland of Montreal (Brunct).

> ROSACELE.

Prunus, Tourn. Plum, Cherry, de.

## P. Americana, Marshall. Wild Yellow or Red Plum.

Indigenous. Woodlands and river banks. Common in Central Canada Macoun). Island of Montreal; along the Ottawa (Brunct). Common in Eastern Ontario (Billings). Comum in Western Ontario (Lagie, Ellis). Chippawa and Malden (Maclagan). County Huron, Jake Muron (Gibson). Opposite Gros Cap, Lake Supcrior (Prof. Bell). Whiskey Island, Lake Muron (Ir. Bell). Owen Sound; wheds at Kakabeka Falls, Kaminist:quia River; Island Portage, Dawson Route (Mazoun). Saskatcheway Plains (Bourgeau).
P. maritima, Wang. Peach Plum.

Indigenous. Sandy barrens in the vieinity of the sea coast. Quebec (Brunet).
P. pumila, L. Dwarf Cherry.

Indigenous. Sandy barrens. New Brunswiok (Mathews). Isle of Orleans, Restigouc ${ }^{\circ}$, River Nistassini (Brunet). River Rouge (D'Urban). Montreal, Point du Lac (Maclagan). Sandy flats of the River aux Sables, south, Lake Huron (Gibson). Rice Lake Pains; Wellington Bennh Lake Ontario; Red Bay, Lake Huron ; beaches around Lake Superior ; Bruille ievetage, Dawson Route (Alacoun). Whiskey and Cockburn Islands, Lake Huron (Dx. [2onll). Saskatchewan Valley (Bourgeau). Lake Athabasca (ALacoun).

## P. Ponnsylvanica, L. Wild Red Cherry.

Indigenous. Rocky woods and thickets. New Brunswick (Mathews). liver Rouge ( $D^{\prime}$ Urban). Vicinity of Quebec ; Lake Mistassini (Brunet). Riviére du Loup (Dr. Thomas). Common in Eastern Ontario (Billiugs). Common in Western Ontario (Logie, Saunders, Gibson, Ellis). Nicolet, Navy Island (Naclagan). Common in Central Canada; Thunder Bay, Sake Superior; St. Ignace Island, Lake Superior; Dawson Route, and west to Little Slave Lake (Macoun). Montreal Island (Dr. Holmes). West coast Newfoundland (Dr. Bell).

## P. Virginiana, L. Choke Cherry.

Indigenous. River banks and thickets. Nem Brunswick (Dr. Fowler). Sparingly at River Rouge (D'Urban). Quebee and Charlesburgh (Brunct).

Not common, Riviéro du Loup (Dr. Thomas). Common in Eastern Ontario (Billings). Common in Western Ontario (Logic, Saunders, Gibsou, Ellis). Chippawa and Malden, Ont. (Maclagan). Central Canada; Kaministiquia River, Lake Superior; Mud Portage, Dawson Route; Fort Edmonton, Fort Assinaboine, Little Slave Lake, Dunvegan on Peace River (Macoun). To the Arctic Circle (FIooker). Islands in Lake Huron ; Newfoundland (Dr. Bell).

## P. serotina, Elthhart. Wild Black Cherry.

Indigenous. Woods. New Brunswick (Dr. Fowler). Island of Montreak (Dr. Holmes). Eastem Townships (Brunct). Prescott (Billings). Hamilton (Logie). London (Saunders). Niagara, Malden (Maclagan). Bayfield River, Lake Huron (Gibson). Central Canada; Owen Sound; Kaministiquia River ; Lake Superior (Macoun). Mudson's Bay ; Great Slave Lake (Hichardson).

## Spiriea, L. Meadow Sweet.

## S. opulifolia, L. Nine Bark

Indigenrms. Rocky river banks. Common near Quebec (Brunet). Island of Orlears (Dr. Thomas). Island of Montreal (Dr. Holmes). St. Thomas (Miss Crooks). Rather rare, Lonion (Saunders). Niagara, Malden (Maclagan). Stanky 'Lowaship, Lake Muron (Gibsor). Owen Sound and Red Bay, Lake Huron; abundant around Lake Superior, and 30 miles up the Kamiaistiquia River (Macoun). Islands in Lake Huroa (Dr. Bel!). Red River (Richardson). Rainy River, Dawson Route (Macoun). Thousand Islands (Macoun).
S. salicifolia, L. Common Meadow Sweet.

Indigenous. Wet or low grounds. Widely diffused through Eastern and Central Canada, the Western Peninsula, and westward to Fort Edmonton on the Saskatchewan.
S. tomentosa, I. Hardhack. Steeple Bush.

Indigenous. Low grounds. Niew Brunswick (Dr. Fowler). Three Rivers, Nicolet and Montreal Island (Maclagan). River Rouge (D'Urban). Common, Prescott (Billings). Lakes Paztridge and Mooper, LIastings County; Addington County (IIacoun).

## Gillenia, Mœench. Indian Physic.

G. trifoliata, Mœnch. Bowman's Root.

Indigenous. Rich woods. Prince's Island, Lake Medad, Ont. (Judge Logic).

## Poterius, L. Burnet.

## P. Canadense, Gray. Canadian Burnet.

Indigenous. Bogs and wet meadows. Cacouna (Prof. Ellis.) Labrador (Butler). West coast of Newfoundland (Dr. Bell). Island of Montreal (Dr. Holmes.) Watersheds between Pacific and Arctic Occans (Macoun).

Alchemilla, Tourn. Lady's Mautle.
A. vulgaris, L .

Indigenous. Leaves radical, reniform, 7.9 lobed to about $\frac{3}{3}$ their depth; the lobes somewhat semiorbicular. serrate throughout; flowers in terminal dichotmous corymbs.--Torrey \& Gray. Labrador, S. coast (Batler).

Agrimonia, Tourn. Agrimony.
E. Eupatoria, L. Common Agrimony.

Indircnous. Borders of woods. New Brunswick (Matherss). Common at River Rouge (D'Urban). Comenon in Quebee (Brunet). Riviére du Loup (Dr. thomas). Island of Montreal (Dr. Holmes). Common in Enstern Ontario (Billings). Common in Central Camada; Owen Sound ; Kaministiquia River, Lake Saperior to Fort Edmonton oa the Saskatehewan (Mazoun). Whiskey Island, Lake Huron (Dr. Bell). North shore of Lake Superior (Agassiz). Uaklands, Ont. (Logie). Central Ontario (Irof. Ellis).
A. parviflora, Ait. Small-flowered Agrimony.

Inligenous. Woods and glades. Common near London, Ont. (Saunders). Malden, Ont. (Maclagan).

## Dirys, L. Dryas.

## 1. Drummondii, Flook.

Leaves elliptieal, slightly attenuated at the base, crenate-serrate, clothed beneath, as well as the prominent veins, with a white tomentum; sepals wate; flowers yellow. Indigenous. (iravelly beds of rivers and lake margins. 1shand of Anticosti (Pursh). Gaspri Perinsula (Dr. Bell). Shate Islands, lake superior (Prof. Ellis). Sand bars along leace River within the Rocky Mome tains, and westward to the West Road River (Macoun). In the woody country from lat. $\overline{0} t^{\circ}$ to $61^{\circ}$, and about Slave Lake to the Aretic Sea in lat. $65^{\circ}$ (hichardson). liocky Mountains, lat. $52^{\circ} \mathrm{N}$. (Bourgeau).
D. integrifolia, Vahl.

Indigenous. Rocky banks along streams. Labrador (Butler). Island of Anticosti (Pursh). Mount Selwyn, Peace River Pass (Macoun).
D. octopetela, Linn.

Jeaves oblong-ovate, coarsely creuate-toothed, obtuse at each end, clothed with a white tomentum bencath, the veins prominent; sepals linear; flowers white. Indigenoas. Ihocky ground along rivers. Labrador (Butler). Arctic America, aud Greenland to Behring's Straits (iIooker). Rocky Mountains, lat. $52^{2}$ N. (Bourgeau). Stewert's Lake Mountains, B.C. (Macoun).

Geum, L. Avens.
C. album, Gmelin.

Indigenous. Borders of woods in rich soil. New Brunswick (Fowler). Vicinity of Quebec; Charlesbourg (Brunct). Riviére du Loup ('Thomas). Valley of the Rouge (D'Urbau). Abundant throughout Ontario, from the extreme cast to Owen Sound.

Ceum Virginianum, L.
Indigenous. Borders of fields in rich soil. Riare. Along the Grand Trunk Railvay, at a culvert three miles east of Belleville (Macoun). Hamilton (Logic). Chippawa, Malden (Maclagan).
G. macrophyllum, Willd.

Indigenous. Cold rocky woods. Ner Brunswick, common (Fowler). Riviere du Loup (Thomas). North-east shoze of Lake Superior, between the

Pic and Otter Head. American Portage, Dawson Route (Macoun). Unalaska, Sitcha, and North-west Coast (Tolmie). Saskatchewan liver, near Furt Pitt, Fort Assinaboine, on the Athabasca (Macoun).

## G. strictum, Ait.

Indigenous. Borders of fields and in moist thickets. Now Brunswick (Fowler). Near the General Hospital, Quebee (Brunct). Common at I'rescott (Billings). Common in Central Camada; woods Owen Sound ; up the Laministiquia River ; also at Fort Frameis, and west through the liochy Momanains down to Vancouver Island (Macomi). Hamilton (Togic). Western Penmsuha, common (Gibson and Saunders). Whiskey and Cockburn Ishands, Lake Huron (Dr. Bell).
G. vernum, Torr. \& Gray.

Indigenous. 'Thicketz and borders of wools. Maklen (Maelagan). G. rivale, L.

Indigenous. About springs in wet woods. New Brunswick (Fowler). Vicinity of Quebec (Brunct). St. Foy, Quebee ('Thomas). Scarce at Prescott (Billings). Rather scarce in Central Canada; about springs Owen Sound; Kakabeka Falls, Kaministiquia River ; Lake Shebamdewan, Dawson Route; Fort Assinaboine, Athabasca River (Macome). Sault Ste. Marie (1'rof. Bell). ('ommon at London (Saunders). Montreal (Maclagan). Lab:ador (Butler) West coast of Newfoundland (Dr. Bell). Extends to the Aretic Circle (Hooker). West to Stewert's Lake, B.C. (Macoun).
G. geniculatum, Michx.

Indigenous. Canada (Michaux).
G. triflorum, Pursh.

Indigenous. Rocky ground. Rocks at Trenton Station, west of the cutting; abundant at Shannonville (Macoun). Vicinity of London (Saunders). From Fort Garry, west to Edmonton, and from Smoky River, along Peace River, to the Rocky Mountains (Macoun). Saskatchewan Plains (Bourgeau).

## Waldsteinia, Willd.

W. fragarioides, Tratt. Barren Strawberry.

Indigenous. Wooded hillsides. Common in Central Canada (Macoun). Common in Eastern Ontario (Billings). Common in Western Ontario (Logic, Ellis, Saunders, Gibzon). Cookburn Ishand, Lake Huron (Dr. Dell).

| Barom. at temp. of 3\%. |  |  |  | Tomp. of the Air. |  |  |  | Exccsseof veatiaboveaver'gt | fension of Yapour. |  |  |  | Inumidity of Air. |  |  |  | Direction of Wind. |  |  |  | Velocity of TFind. |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 A.S. | 2 P.M. | 10 P. ${ }^{\text {H }}$ | mens. | 6 A .18 |  | 1 |  |  | 1. N |  | 10 |  | $6$ | $\left[\begin{array}{c} 2 \\ \mathrm{p} \cdot \mathrm{~s} \cdot \\ \hline \end{array}\right.$ | $\overline{10}$ | 's. | CA.si. | 2 P .31. | 10 P.14. | Ites'l. tant. |  | $2$ | $10$ | $\{1 \mathrm{kes}\}$ |  |  |  |
| 483 | 29.483 | 29.455 | 29.4518 | ${ }_{6} 9.7$ | 74.4 | 62.5 | , 61 | $+5.13$ |  |  |  |  | 82 | 64 | 61 | 0.5 | viw |  |  | 80 |  |  |  |  | 0 | . 120 |  |
| . 633 | . 54 | . 682 | . 6085 | 52.5 | 65.8 | 63.1 | 53.85 | -3.35 | . 305 |  | . 238 | . 210 | 7 | 30 | 68 | 63 | N W | ${ }_{8} 8$ | ${ }_{7}$ |  | 13.0 | 16.0 | 3.7 | 13.30 | 13.43 | 120 |  |
| -690 | . 690 | . 650 | . 6033 | 51.0 | 71.0 | 62.0 | 42.00 | +0.0\% |  | - |  |  |  |  | $\cdots$ |  | N: | 8 w | 8 w | S 600 m |  | 14.6 | 0.6 | 5.65 | 7.47) | ii | $\ldots$ |
| . 617 | . 588 | . 722 | . 0260 | 62.2 | 67.0 | 53.6 | 60.72 | - 0.91 |  |  |  | . 203 | 72 | 40 | $c 0$ | 50 | 1 | N | 8 F | N $46 \pi$ |  | 20.01 | 11.5 | 10.85 | 12.60 | $\ldots$ | $\ldots$ |
| . 785 | . 815 | . 775 | . 7778 | 56.3 | 65.4 | 54.8 | '56.82 | - 4.51 |  | 186 | 25 | 231 | 7 | 39 | 61 | 61 | sw | \5 5 | $N$ | $\times 32 \mathrm{r}$ | 10 | 18.2; | 4.811 | 10.47 | 10.60 |  |  |
| . 702 | . 293 | . 615 | . 6910 | 47.5 | cs. | 5 S .6 | 68.74 | --2.20 | . 241 | . 366 | . 313 | 305 | 74 | 48 | 69 | ${ }^{62}$ | N | ${ }^{*}$ | \% | - 8 | 3.0 | 8. 4 | ${ }_{7}$ | 4.21 | 6.49 | $\dddot{8}$ |  |
| . 519 | . 672 | . 467 | . 613 S | 56.0 | 64.7 | G) | G1.43 | + 0.75 | . 366 | - 431 | $\cdot 451$ | 425 | 81 | i3 | $8{ }^{4}$ | 78 | NE | E | SE | - 835 | 3.4 | 8.7 | 2.0 | 4.58 | 5.16 | ... |  |
| . 403 | . 473 | . 612 | . 6305 | 62.9 | 73.7 | 60.3 | 64.63 | +4.25 |  | . 319. | . 356 | 387 | 86 | 41 | 70 | 66 | 85 | \% | $\triangle 8$ |  |  | 21.0 | 9.4 | S. 75 | 9.35 | ... |  |
| . 605 | . 605 | . 70 | -723s | 51.63 | 63.2 | 55.7 | 588.28 | - 1.70 | . 379 | . 396 ! | . 370 |  | 89 | G3 | 81 | 79 | $\underset{\sim}{x}$ | 85 | NL | 2064 | 9. |  |  |  | 5. $\square_{3}$ |  |  |
| . 765 | .765 .572 | .0,0 | . 5017 | 66.0 65.0 | c9.0 | 69.0 53.1 | 5S.17 | - 1.4* | - 401 | . $\mathrm{T10}^{1}$ | - 303 | 100 |  | 70 | 97 | 83 | x <br> x <br> x | \% | : 5 | N695 | 7.0 | 15. | 10.01 | ${ }^{10.63}$ | 0.010 | 1e0 |  |
| . 658 | . 699 | . 781 | . 7216 | 43.8 | 62.2 | 63.1 | 154.40 | - 4.42 | . 260 | -34. | .26a |  | -8 | 61 | , 5 | $6{ }_{6}$ | ${ }^{1}$ | $\stackrel{5}{8}$ | : 8 | - 5 | 13. | 12. | 3. | 7.8t | 3.83 | 16 |  |
| . 836 | . 857 | . 78.5 | . 7013 | 49.2 | 01.4 | 62.4 | 54.c2 | - 3.78 | .29t | . 310. | . 221 | 305 | 85 | 62 | 83 | 7- | r | 8 E | NE | - ${ }^{\text {cos }}$ |  | 12.5 | 1.4' | 5.45 | 7.19 |  |  |
| . 899 | . 774 | . 415 | . 4710 | 56.0 | G. 0 | 57.1 | 59.50 | +1.45 | .3i) | - $453{ }^{1}$. | . 416 | , | 84 | 76 | 36 | $8 t$ | NR | x | s w | ¢63 x | 8.0 | 9.0 | 4.4 | 6.69 | 7.6 | 000 |  |
| , 491 | . 539 | . 795 | . 0530 | 54.2 | 68.3 | 63.0 | 58.97 | + 1.30 | . 335 | . 260. | . 312 | 291 | 80 | 37 | 75 | 61 | N | N | N | N19\% | 15.0 | 12.0 | 6. 0 | 10.05 | 11.01 | .02 |  |
| . 922 | . 965 | . 997 | . 0310 | 49.5 | 01.1 | 57.6 | 56.82 | - 0.40 | . 232 | . 250 | . 358 | 237 | 64 | 53 | 75 | $6{ }^{6}$ | N | E | , | ¢ 6 | 8.0 | 15.0 | 4.5 | 8.35 | 9.65 |  | . |
| . 880 | . 860 | . 460 | . 6000 | 53.6 | [6.0 | 64. 0 | [53. 500 | - 2.2 | - | - | - |  |  |  |  | - | N: | I | N | - 48 E | 6.4 | 17.0 | 19.0 | 2. 23 | 12.91 | 2 CO |  |
| . 181 | . 216 | . 428 | . 3208 | 38.5 | 0.2 | 58.9 | 69.83 | +3.45 | . 480 | . 451. | . 416 | 465 | 97 | 78 | 89 | 89 | * | d | \% 17 | -238 | 19.0 | 6.3 | 7.0 | 9.41 | 13.10 | . 250 |  |
| . 770 | . 474 | . 609 | . 4878 | 65.3 | 04.0 | 58.2 | 69.71 | $+3.83$ | . 308 | . 42. | - 455 | 436 | 91 | i2 | 94 | 85 | TV | ${ }^{2}$ | 8 F | ㅈ11n | 4.4 | 5.6 | 3.5 | 5. 00 | 4.65 | ... |  |
| . 648 | . 682 | . 669 | . 6102 | 54.2 | 05.0 | 57.6 | 53.6s | + 4.12 | . 339 | . $\mathrm{t}^{1} 1$. | . 441 | . 420 | 02 | 76 | 93 | 81 | N | E | E | - 76 | 3.2 | 10.0 | 5.0 | 4.09 |  | $\ldots$ |  |
| . 711 | . 246 | .742 | . 7308 | 38.0 | 61.0 | 61.1 | 61.32 | +6.23 | 433 | . 433 | 429 | 445 | 0 | 76 | 80 | S | $\Sigma$ | 2 | E | -758 |  | 15.0 | 10.5 | 10.8 | 11.01 | $\ldots$ |  |
| . 315 | . 760 | . 709 | .722\% | \%s. 6 | 03.2 | 69.8 | 100.6 | + 6.01 | . ${ }^{5} 5$ | . 451. | - 401 | . 4 | 91 | 78 | 30 | 80 | E | $\Sigma$ | E | $\cdots$ |  | 13.1 | $\pm .8$ | 10.01 | 10.05 | 3 |  |
| . 035 | . 626 | . 600 | . 0072 | 57.8 | 00.7 | 59.1 | 59.12 | + 4.85 | . 461 | 469. | . 481 | 130 | 96 | 86 | 33 | 31 |  | NE | $N$ | $\underset{\sim}{\mathrm{r}} \mathrm{d}$ | 4.8 | 8.6) | O. ${ }^{1}$ | 5.8 | 6.31 | . 110 |  |
| . 620 | . G0 | . 660 | . 6150 | 59.0 | 60.5 | 53.0 | 169.4: | + 6.54 | - | - | -1 |  |  |  |  |  | sis | E | N | x 04 E | 5.6 |  | 4.6 | 3.5 |  | - 3 |  |
| . 240 | . 643 | . 401 | . 6418 | 58.9 | 66.1 | 62.5 | 62.67 | + 9.15 | . 455 | 501. | . 510 | . 505 | 02 | 79 | 93 | 90 | N w | 8 | w | 821 w | 1. | 12.6 | 1.2 | 4.16 | 6.71 | . 30 |  |
| . 418 | . 408 | . 355 | . 3118 | U2.8 | 67.5 | 45.2 | 51.6 | - 1.5 | . 282 |  | . 2.58 | - | i0 | 50 | 35 | 70 | w | 7 | w | ¢ ${ }^{2}$ ¢ | 15.0 | 20 | 15.5 | 17.58 | 17.3 | . 070 |  |
| . 105 | . 435 | . 521 | . 4017 | 41.6 | 49.9 | 47.0 | 16.95 | - 6.6 | -211 |  | - 332 | 22 | S: | 3 | 7 | 69 | * | 17 | \% | x 69 |  | 2t.0 | 13.6 | 17.64 | 13. 51 | . 01. |  |
| . 678 | . 681 | . 419 | .4S3i | 4.6 | 52.1 | 53.9 | 50.82 | - 1.81 | . 231 | 286. | . 356 | . 299 | 85 | 01 | 84 | 70 | 8 w | 8 w | w | 850 w |  | 20.0 | 7.5 | to.6 | 11.42 | . 0 io |  |
| . 380 | . 408 | . 487 | . 4408 | 60.3 | 56.0 | 43.6 | 50.32 | - 1.53 | . 31 | 214. | . 230 | . 259 | 91 | 47 | 81 | i2 | 515 | W | w | 575 w |  | 18.5 | E. ${ }^{\text {c }}$ | 6.6 | 6.70 |  |  |
| . 503 | . 630 | . 699 | . 6197 | 43.0 | 64.2 | 39.4 | 45.7) | .6: | . 335 |  | . 213 | 2 | 80 | 49 | 85 | it | S 5 | w | * | s S5 w |  | 125 | 3.5 | 6.5- | - |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.6020 | , | 9.c03 | 29.594, | 33 | 62.97) |  | - | $\pm 0.21$ | 1.360 | . 355 | . 356 | . 3 | 85 | 61 | s0 | 7 |  |  |  |  |  | 113. | 0.45 | 2. | 9, | 2.459 |  |




| 景 | 安安安 |  <br>  | O | $\begin{array}{r}8 \\ +8 \\ \hline\end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | 河家家 |  <br>  | $\stackrel{\square}{\square}$ | ！ |
|  |  |  | $\|$6 <br> $\vdots$ <br> $\vdots$ |  |
| $\left\lvert\, \begin{aligned} & \dot{6} \text { 关 } \end{aligned}\right.$ | 8งıjaI | ：：：：：：：；：：：：：：：：：：：：：：：： | ： |  |
|  | 3800 $30 \% \mathrm{~S}$ |  |  |  |
|  | sothar |  <br>  | 5 | 1 |
|  | $\begin{array}{r} 685 p \\ 30.0 \mathrm{~N} \end{array}$ |  | $\stackrel{\text { 謌 }}{ }$ | $\begin{array}{r}1 \\ + \\ + \\ \hline\end{array}$ |
|  | －39754 |  <br>  | － | ch + + |
|  | 㝘咅 |  <br>  |  | $\pm$ |
|  | 容巟 |  <br>  | 安 | $1^{\circ}$ |
|  |  |  <br>  $1+1+1+++1++11++11+1 \mid 1++1+1+11$ |  |  |
|  | 荡 |  <br>  | $\underset{\infty}{\infty}$ | \％ |
|  | E் |  <br>  |  |  |





Mican Dally inngo p．m．no 23 rd ．
pri．or 10 h ：
p．m．no 23 sk ．



No Aurora obeorred． Sfann of cloudiaces，0．c3．
wisd．
resultant dircection， $\mathcal{N} . \infty$ W．；resuitant rolocity， 2.07 nillcs． Stean relosity， 0.22 millea por hour．

Maxinum relocity， 67.0 miles per hour，from 2 to 3 p．m．of 20 hh ．
Most wludy day，zith；mann volortiy， 18,07 milles per hour． Nost wiady hour， 2 p in．；mean velucity， 13.06 milles jme hour． Jeast fludy hour， 1 p p．un；thean relocty， 0.40 miles per hour．

Yog on 114s．Dew on 3 mordings．
Ligitatog on 14 th．


- Su. 1 न

METEOROLOGICAL REGISTER．
RFMALKS ON TORONTO METEOROLOGICAL REGISTER FOR OCTOBEIR， $180^{\circ}$.
comparative tablef for october．

|  | 管苞 |  <br>  | $\stackrel{3}{0}$ | $\begin{array}{r}\infty \\ +8 \\ +\quad \\ \hline\end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  <br>  <br>  <br>  <br>  | $\xrightarrow{\circ}$ |  |
| 产 | 28qu41 |  <br>  | $\stackrel{\infty}{\circ}$ | － |
|  | $\left\lvert\, \begin{aligned} & \text { sivg } \\ & 100 \mathrm{~N}\end{aligned}\right.$ |  | \％ | 5 $+\infty$ |
|  | ＋ | ondioso |  | 产 |
|  | $\begin{aligned} & 105 \mathrm{ck} \\ & 1500 \mathrm{~N} \end{aligned}$ |  | S | 1 |
|  | －2Sucy |  | － | ¢ |
|  | 至号 |  <br>  | $\therefore$ | $\stackrel{5}{8}$ |
|  | 总晨 | － | 荌 | － |
|  |  |  $+11+\div 1+111+1++++11++11++11+11$ | $\vdots$ |  |
|  | －${ }^{\text {cosj }}$ |  | － | \％ |
|  |  |  <br>  |  | 82 |

Temperature incluite Sunday observations． Trinpesature inclute Sundiay obscrvations for

Reanitant dircetion， $8.810 \mathrm{~W} . ;$ Resultant Voloclts， 4.03 miles，
Kean Volocity， 0.10 miles per hour．
Maximum Velocity， 81.0 miles，from noon to 1 p．m．of $14 t h$ ． Least Wiody day，31st；Afean Volocity， 1.23 milies per hour．
Sost TFindy hour，noon；Mean Velocity， 13.80 ulles for hour． Leat IVIody hour， 11 p．m．；Jfann Volocity， 0.03 miles per hour．

## Vog on 2lat and 23rd．

8olar baloas on 6th and 12th．Lnuar halocs on 2ith and 2ith． Tainbows 1st and 26tb．
First enop of scason，7th；a fow fakes on Ist．

RESIARISS ON TORONTO METEOROLOGICAL REGISTER POR NOPEMBER, 1676.

 owest barometer ....................................28.008 at 10 p.m. on 2nd $\}^{2}$. 1002 .




 Morimum (Eolar … Min Monthly jange=
 Aürora observorl on 1 vight, viz., loth.
Possible to 800 Aurora on 6 niglits; impossiblo on 2i nighte.
Raining oin 18 daye; depth, 1.748 Inches; duration of fall, 72.0 inours.
Snöning en7 dayn; depin, 9.1 inchos; duration of fall, 28.1 lours. Mroay of cloudluoss, 0.89 . Mion rolocity, 7 di milcia per hour. TIND.
Rosultant direction, N. $20^{\circ}$ W.; resultant volocity, 0.62 miles. Moan rolocity, $7.4 \pm$ milce per horis.
glaxinum velocity, 25.0 mllics , from
blaxinum velocity, 25.0 mlles , from 11 p m. to.mid. of 2 nd .
Slost mindy day, 2.2 nd ; moan volocity, 11.21 miles per hour. Iesist, windy day, 12 th; mean velociey, 2.45 miles per liour.
 Inast vindy hour, 0 p.m.; mean velocity, 0.00 miles per lour.
Yog on 18t, 2nd, 11th, 12th and 13th. Lightning on 1st.
Ralnlor on 3rd. Salar halo ou 2 th. Egnà halo on 6ilh.
$\mathrm{Or}^{\prime}$

## NEW AND [MPORTANT WORKS.

PREIHSTORIC M.AX R Revarchesinto the Origin of Civilization in the oht
 Literature in liniversity College, Toronto. Third Edition: revind and enlurged. 2 woli. sio 30.
 Trevelyan, Member of Paliament lar llawick District of Burgh, es vols: 1 vol. how reads. xix 30.
THE IJFE OF MONATHAN SWIFT. By John Fomete Vol, 1 mow reaty. S S
CITIES OF NORTHERN ANU CFNTRAL ITALX. Hy dugusus I. C. Hare, Author of "Winks in Rome," 3 vols $\$ 19$.
BOOY AND MESD: an Impiry into their Comartion and Mmmal Intuempe

THE DAWN UF L.AFE; being the IIEtory of the oldert known Fussil Remaim. By J. W. Hawson. LL.U.. F.R.S. F.G.S.. dec. s?.
A SHORT HATORY UF NATURAL SCIENCE, ASHOF IME MROKRESS


OSEASES OF MODERN WFE, By Benjumin Ward Richardsm, M.W., M.. . F.R.s., de. ※!.
1.SSECTIVOROUS PLANTS. By Charles Darwin, M.A., E.L.s. Wih Illu*. trations. s:

ANBMAK PARASITES AND MESSMATES. By P.S. Vm Bencolen. Sl in.

THE CHEMISTRV OF LIGHT AND PHOTOGRAPME IN ITA APPILCA-
 S1 30.
A HANDBOOK OF ARCHITECTCRAL, STYLES. Transhted from tho German of A. Rosengarten. By W. Collet-Sandars. With tise Ihnstrations Si 610.
 Author of "The Earthly l'aradise." $\leqslant \underline{\square}$ ㅁ.
ESSAY'S AND PAPERS ON SOME FADCACIES OF STATISTICS CON゙CERNANG LIEE AND HEATH, HEALTH AND IHEBASE: with Surgestions towards an Improved Syatem of kergistration lby llenry W. Runsey, Il.D.. F.R S. sis 75.
TIE PRINCHEES OF SCIENCE; A Treatise on Logic noll Scientific Methord liy W. Stimley Jevons, M. A., E.R.S. is so.

## contlorrs.

Patil:.

 93
 ..... : シ

  ..... :12:
  ..... $3: 1$ ..... $50^{n}$
   ..... $: 4$

## 



[^41]


[^0]:    s Eponyms like Ishod and Eshton, Molecieth and Milid, Abishar and Abiezer, 3famro and Zimran, Esbcol and Chaicol, cannot fail to present great diflcultics in the attempt to distiognish their traces in many languages.
    41 Chron. vii. 18.

    - Judges vi 11.

    B 1 Cbron. iv. 13, 14.
    2 Judges vii. 22; Numb. xxi 32; 1 Kiogs Ito 31 .
    $\$ 1$ Chron il c .

[^1]:    - Gen. xx:. 2

    10 Zerah or Tirhacha long remancel an Ethiopian name, 2 Chron. xiv. 9. I do not by any nearss suppose that Zerah was a Cushite. Ife was a son of Achumai or Kames, the Horite King of Esypt, and the ancestor of the Zorathites or Caphtorito.
    ${ }^{\prime \prime}$ Gen. xxv. 1-4.
    12 Gen. xiv. 13. This conacetion is antecedently very probable, and the association of the uames vi Eslucel and blamre, at least, with those of Geturah and her sons tends to confirm it.

[^2]:    18 An cxample is found in Ichrite, a noun derived from the namo Ithran Ithri is to Ithran as Zimri to Zimran.

[^3]:    ts e Sam. xxi. 3 Compare 2 Sam. xvii. 27.
    is The Eersian Shekhaut, ueanigg liberel, generous, is probably the same.

[^4]:    ${ }^{36}$ Plolem. vi. 11. Pomp. Molx, , 2
    ${ }^{31}$ Rawlinson's IIcrodutug, App. Book iv., Essay 1. Pezron's dutiquities of Nations, i. 2, 3, sc. 14 The traces of the Midianites aro found in allthe Zuntito regions of Asia, Africa and Eumpe. extending even to the Jodona or Slaney in Ireland. Wero I to ald the traces of Jobshan, this paper would double its size.
    ${ }^{29}$ Philostorgii Epit. IL 4, ap. Photium

[^5]:    ${ }^{200}$ The Parthians are also made the descendants of Keturah by 3roses of Chorene. Euseb. Chron. Ed. Migne, p. 618.
    " 0 PLinil II. N. Exz 2

[^6]:    -1 Vide Shah Nameh It is worthy of note that Tummouras is made the founder or Msomin in Irak arabl: Gcographical rorks of Sadik Isfabani, Or. Trans. K., 46.
    上: Mirklond's History of the Early kines of Bersia, translated by David Shea, 134.
    $=3$ Kitithous, 66.
    25 if. N. 2 תx. 2.
    25 Muir's Sanscrit Texto

    * Icnormant \& Cheralier's Manaal of the Ancieat IIistors of the Enst, ii. 141.

[^7]:    :2 Rescarches in Prehistoric and Protohistoric Comparative Philologr, Mrabolose and Archrologr, in connection with the Origin of Culture in Amerien, and the Accad or Sumerian Families. 42.
    Es Eiardy's Minnual of Baddhism, 129.
    $\Rightarrow$ Witan's Vishna I'urania nemust aiso be Comara, the god of rar, a character that Fill sct aprear to have been borne by tro of his desecndants. Vide Cramford's Indian Rescarches, ii. ISS.

    20 13ards, $235.5 G$.
    31 Il. 12s.
    if Ih 9

[^8]:    \#s Hands, esi. It was also called Mëla, and was a girdle.
    34 Ib, :r5, \&c.
    is Celtic Rescarches and British Drulds Vido Misoin's Celtic Druids. Pococke, India in Grecec, 102, 2ssociates the Druids with Beduhis:2
    ${ }^{28}$ Cory's Ancient Fragucnts. In support of the Eshcol consection, it is worthy of noto that Simiratpis was of Ascalon.
    is Da $\operatorname{sim}$, Bibliothique des Distoricns, Amsteriam, 2ll, \&e.
    ${ }^{3} \mathrm{Ap}$. Eusch Chron.
    $=7$ Rertiosou's Eucalotus, Apn. Book 1, Essas 10.

[^9]:    so Cory's Ancient Frarments.
    ${ }^{41}$ nambinson's IIcmiotus, i. 131 note, and Apr, Esasg $x$
    42 Cur's Argan Nytholozs, ii. $11 \%$.
    ${ }^{43}$ Transactions of the Society of Bik. Archixoloms, 1 1, G5.
    " ilccoris of the Past, r. 79, S5 notc.
    © II. N. xxx 2. Sinuri, a msthical diriner, whose namo has beed discorcred by 3r. Gcorge Emilh, may hare been Ziman. The Chaldean account of Genesis.
     ${ }^{6}$ Gcn. ixv. 6.

[^10]:    ${ }^{6} 3$ Lenomant \& Chevalier, it 253 sen. Jerris, Cienesis Eluciorated, 358.
    45 Jursis, 359.
    s) 1 lb .
    st Noics on the Bedarin, te., E21. Another Stomehenge mas fund by Chardin and other travellers at Ujian in Persia: Sadik Isfahani, 9 note. Still amotber in Phenicia is described by Fitu: 3ycuras in Palcstive, $2 \$ 3$.

[^11]:    82 Trovels in Central arabia, i. 251.
    ${ }^{53}$ Strab. xivi. 4, 3. He states that the son does not succeed the father, but the first son of a noble family bom after his accession to the throne.
    ${ }^{3}$ Sale's Koran, Gencalogical Tables.
    © Ienormadt \& Chevalior, it. 312.
    ** Sale's Koran, chap. zxuvv. note.

[^12]:    sc Strab. xvi. 4, 8.
    c: 1b. xvi. $4,4$.
    25 The necklace of Eripisle is the key to this association of termes and legends, in so far as mytholoey can afford a kcy.
    s2 Strab. xri. 4, 5.
    co Josejitus' Ant, i. 15.
    st Lenormant \& Chevalier, i. 394.
    C2 Ap. 13ryant, Analysis of ancient Mrtholost, iv. 315.

    * 'hamlinson's IIerodotus, App. Book ii. ch. 3. The authors of tho Ancient Unircral Histors mention among the Arab rulers of Ezylt, Asmar; Scueth; Ecros, Hadares, Budesir; Malinus, Malil ; Culcan ; Darkun. An. V. Bist. ii. 103 seq.
    6 Russed's Conaection of Sacred and Frofane History, ii. 24 s.

[^13]:    es Eaytern Origiv of the Celtic Nations, 70.
    co Virgili dEneid; Keatings General Eistors of Ircland ; Geoffeg of Monmouth's British History; Fordun's Cbrovicle.
    ci Researches, \&c.

[^14]:    es Sallustii Bel. Jug. xrifL
    ${ }^{60}$ The Primitive Fistory of the lonians, Can. Jour., Nos. 5 and 6 , rol. yiv.
    to Sanchoulatho's Plocnician alistory by Cumberland, 34, 33.

[^15]:    : Lenorront \& Chevalicr, 4.230.
    is Diod. Sic., v, 35.
    33 Lenormant \& Clicvalier, ii. 230.
    73* The circumcision of the Colchians and some of tinc neiglibouring tribes in Asia Minot may have been an madication of theit Abrabanic ancestry. There were circumeised tribes in Thrace.
    it Herodat. iif. 91; Strab. xiv. 5, 16.

[^16]:    ${ }^{7}$ Strab. xiv. $1,27$.
    J6 India in Grecee, 249.
    75 Banier, iv. 204.
    7\% Tho Milyse, or descendants of Mahslah, were Lycians, as belonging to the famil; o Lechem; and Solymi, sioco Salma was the tead of that housc. Beth Millo in Shechem, wher 2 Shalem was found, may have been an carly tribe of Misfe.

    78 Herodot. vii. 31.
    is Researches, \&ic., 43.

[^17]:    \$ Anthor's Chass. Dict., Tarichme; Strab. xiil. 1, 48; Lenormant \& Cheraller, il 278.
    bi Eerodot. i. 94.
    © Rawlinson's Hcrodotus, App. Book i, Essay 1. Apollcdorus il. 6, 3.
    \& Banier 31.404.
    85 Fide note 82, and compare roje 99.
    \$ Strab. cir. 1, 27.

[^18]:    st Pimbar Ap. Strab. siv. 3, 85.
    Athenous also refers to the Homejits. The song Nominm, mhich be connects rithe Eriphanks, the mistress of Menalcas the hunter, and the refrain or which was "the wall oaks," masy have aristn out of the story of Heman, Eciphjio nod Jihlalat, with Danda, the man of the
     of Chies, vil 4.
    \%it Anthon's Class. Dict. Momerus.
    $\mathrm{Ks}_{\mathrm{s}} \mathrm{s}$.
    E I do not consiver that the researches of Dr, Schlicmand, alduough of great historie ralue, by any means establish the fact that the Troado was the seenc of tho Trojan war, Stmbo (i., ii. 29) tries to miect the objections of those who asfirmal that Homer kncw Egypt, Syria and oller regions better than Grecee. Agasn (Xin., iii. 26, 27) bo spoeffes many places intimately conbected mith the Troato which Homer does not mention. The Esfrtian pricsts, actording to Dion Chrysoztom, had a version of the war of Thoy Jiffernat incia that of Homer. We fald Memnoa, the Ethiopian or Sustan, appearing as ono of its beroes. Effpt is visted by Menthaur and other of the Greetis. Northern dfrica $\$ \mathrm{~s}$ the course of the Trojan fugitives. Paris carries IIClen to Sidon. Mtr. Glacistone shoms that according to Jomer tho Phenseinas were a borics peonte on the norih-west instead of on the south-cast. Hencstheus, in whose time the was occurred, veas the sur of Petes, an Espltian. Diodrrus Siculus connects tho ynowledge af Homer with Egygt. We have 20 indications that aby states existed in Asia Minor so early as the period of the Trojan war, which Pliny piaces in the tho or Rameses ILd., Janetion in that

[^19]:     Sidon ras destroyed. Tho Lycians, Sysians, Danfanians and other peoples who afterwards settled in asia Minor, were at that period fousd in Palentibe warring with the fiatites against Egymian supreraacy. Wo must book for the old llium not in the Troade but in Palestine, the scene of dearig all the wars of the same age, and must conment it with tho declension of the Egyntian moanchy. The topography of the Troade is far from accondiag with that of the Homeric poeins, and Me oladstono is juytited in stating that the ofd proct was ald astray in his geograplby, if any point in Aslo slinor be the secae of his epies, or the stasu-pelat froms which bo sarrescal the word.
    © mad, it. 709.
    
    a Malo-dtealka ta Babyionia, wbich I have alrady connected with Mramoleteth or 3tahalah, is a form Uat ralgat give es Zanolxis. Ia this case Masalah would take his mothor's name.
     Zimean ras united through bis wife. Demaratus, the Zimana of Etruria, was a Lucamo or man of Beta-Lechem, and Yetulands seta farth the whole Robrow nama

[^20]:    of Stral. ix. 5.
    $\approx$ Soph. Phil. 225.
    © Herodot. i. st. Jfiller's Dorians, ii. it.
    ${ }^{27}$ The Horites, Canad. Joumal, Vol. xhi. No. a.
    os As I have identiged dclumai with jefortus, we most find in Zerach, or, as his name rould bo in Grect, Earah, the Cercestes who is called his son. He is also the Egyptian god Harka united with Ehem, and, vetter still, the son of amenerecs the namer of Coptos, whom Mr. Osburn gives as Cherucheres. Amenemes, the son and sucecssor of $\Delta$ chthoes, is $\Delta$ chumai, the son of Jachath.
    ss Since Ascelus or Eshcol mas a gencral, or, at ang rate, a tributary of Achumai, Aciamas of Amocoemes, it is not surprising that the son of the latier should marry Keturah atter the death of Sbraham, seeing that she was Exchois sister. An luprortant Engntian datc is afforded tis in tho association of these names, by which we aro able to arcive at the period when Ebyptiata moarrchy began aud at the same time its mytholozi.
    sbout 9000 B.C. Sholual, Sab or Scbeis

[^21]:    3" Tomarus and the oaks of Dodona we associated. Thie Tomnei were divincrs. Strat. vii. 7.11.

    100 Strab. vii. 7. $G$
    :0: Justin. axviii. 3.
    1re Strab. x. s. ©
    ias Vide authoritics in Anthon's Class. Dict., Atalaniz A similar story mects as an Arabian tralition, whire we learit that Asaf, the son of Am:a, and Jayclah, the daughter of Sahat, were for a like oftence comverted intostonc. Sale's Koran, P. D.
    los djollodurus, i. S. Pausan. x. 31, 3.
    ${ }^{10} 0^{\circ}$ Ajollodorus, i. n. Atalanta is made a daushter of Schcenus, the son of Athames, thas confirming the association of manes. Melas uias a son of Phryxus, anothcr son of Athamas.
    ins The Coptic Element in Laoguages of the Indo-Europenn Family, Canad. Joural, 'Hol. xiz:., Nos. 4 and 5.

[^22]:    183 Pausan. if. 30.
    ${ }^{24}$ It is proluble that sicmanon is bat another name of 3fabslah, derived from his mother's fanily.
    
    if Pausin. x. 10.
     Roorctimes mado "the Lady or Arbela." and \#arpalus is callod tho son of Anyclar. Eriphylc. Hicrojulale, Arbela aud Kiarjalus are the semo word.
    346 iacrodot. 4: 71. Yide lharlinson's roves in loc.

[^23]:    117 Pausan. i. 34.
    117* Plixstus, fing of Sicyon, may have beea Ishod, and his son Rhopalus, the person from winom Arbela, Eriphyte, dic, derived their names, as well as Beth Arbel in Palestine. Ishod was Ilammoleketh's cldest son.

    118 Paus. vii. 12.

[^24]:    ${ }^{31}$ Apollodori ii, iv. 5, viii. 1.
    120 Reconds of the Past, $v . S 5$ nota. The Primitive History of the Ionians. Canad Jourmal, Vol. xiv., Nos. 5 and 6.
    130: Is it possible that the name of Mahalah connects with the Fictish Mcilochon, meaniag the seducer of rimins. Jaraicson's Scottish Dictiodary, Disscrtation.

    130 Eumelus once more appesrs in coanection with Glaucus. Paus, rii. 18.
    2: Pauson viii si.

[^25]:    122 Pousan. vii. 1s.
    123 Ib. iii. 19.
    124 Argan Mstholozr, ii. 159.
    125 1b. ii. 72, SS, 1S3. I find no reference that the nnion of the one-eyed heroes to whom Nr . Cox frequenty alludes has been made hy myself, unless it be that I have overiooked the passione in which it occurs. Mr. Cox, however, notices the monocular character of all the persons mentioned.
    ${ }^{128}$ Guigniaut, Religions de l'Anthquit ${ }^{2}$, it 211, 1021.
    127 Dioc. Sic., v. 70.

[^26]:    Jis Iryan 3Isthologer, i. 13t note.
    ${ }^{152}$ Pasusan, vil. 4.
    15) Dic. Mhilistar, 20.

    151 Josh. xii. 18 : Micah i. 10. The latter is not appareal in the English tranglation.
    $1 *$ Strab. $\times .2,17 \%$ siv, $1,2$.
    133 Vide note 9 S .
    15 Smone, however, will be futud in the asosenplical table at the closo of the paper. 'Hecianiun, a trace of MLuian, appears in Mowis.

[^27]:    125* For Atriz, see note 170.
    13 Rescarches, \&c. 35.
    125 Livij, 1. 34. The colenization of Tyrrhenis by the I.ydians must not be forgotten.
    isz fezron, i. 19, quotes many authoritics in support oi the opinion that the Umbrians Fere a Gallic people.

    197* Strab. viii 6, 16.
    13: ziocid i., \&ic.

[^28]:    137 ふineid, x. 391, ix. 6S5. He also mentions Thymbris and Thymbracus, Trojans.
    160 Banicr, ii. 56970.
    141 Ib.
    14 Strab. 5. 3, 2
    14s Festus, sub. voc., Amil
    144 Banier, ii. 319.
    145 It is not enough to say that the storics of Torquatus and Malachi belong to comparatively late periods of Romin and Irish history respectively, in order to destrop the force of the connection; for the legend of Tell, and others which belong to the Christian era, have been proved adaptations of old traditions.
    213 Argan 35 thology, ii. 116 note.

[^29]:    14: Strab. 2 i, 5 Amathma, the Sibyl of Cun:x in Campania, mas also named Hurophite. Her numes taite Hanmoleketh with Eriphyle, wife or hmphamus.
    iss It 25 worthy of note that Gideon was a man of Ophmb; that be led tire fliserites; sad fought his famous battle of the hunps and pitehers near stua Mehohat: Judges vi. 11, 3i; , w. 2. I have calicd him Gideon of Ebal, because his history, and more especialla that of his se: Abitaclech, is associated with Shechem or Nablows, so cahed from Elai, althoubld the Greeks Iellenizul it into Neapolis: Judges vii. 31 ; ix. The house of Jillo, Judges ix. G, may connect with Mabalah.
    is Stral, vi. 1, 12
    180 Pausan. vi. 14.
     Crimisus. As the Cimmerian Chersonesus is the modern Ciluea, a river Cisamerius might easty become a Crimizus.

[^30]:    ${ }_{251}$ Thucsd. vi. 5.
    152 Banicr, iii. 223-24. He also connects the Druids with Psthisoras and the Persian Magi, 228.
    1ss Pezron, i. 3.

[^31]:    13s* Pictet mentions 天ian and Molk among Celtic divinitics; Eigsin’s Celtic Druds, 167.
    154 Strab. iii. 4, 3.
    iss Other names that may possibly connect with Oropus are Arabis of Cedrosia snd Orebatis of Persis; Europas of Mesopotamia; Larpasus of Armenia; Herpo and Arabissus of Cappadocia ; Arrubinm of Moosia; Eniboca of Epirus; Orobic of Eubbas; Arba off Lllyria; Arabona of Pagnonia; Orobit of Gallia Cisalpina; and Urba of Gaul.

[^32]:    is Six Old English Chrouicles, Bohn, 440.
    138 1b. 141.
    1sfe Catameto or Catterick in this province secalls the Caturiges of Ganl and the Arsbian. Katoorah. Similar names are Catarrlactes of Mesopotamia; the Catarrhactes of Pamphylia, Crete and Lacenia; and Cataracta of Samnium. It is hardly likely that they aro all Greck.

[^33]:    iss Davies' Celtic Rescarches, 191. Brgant, in his Analssis v. 901, deals with the subject of Amber stoncs, which be ands in many parts of the world, and with the word Araber as denotin: sacredness, which ho finds in Grecee and EJTft
    135 Six Oh English Chronicles, 192
    100 1b. 132, 111, 113.
    det Eeating's General Histors of Ireland. 199.
    1te Ib. 28i, 297.
    Besides Tomor the Dane, from whom Jtalschi mon the collar, who bears a name analagoos to Cimber, we Gid in Irish history a Danish Earl of Tomair, a Turgesius and threc other Danes Amelanue or Anollaoib, Cyracus and Itoorus, with a Bumphrey, recalling the Kempery men of old English tralitions: Eeating, 425, 412, 454, \&c. The Danes are called Gauls: Ecating, 413.
    205 Eeating, 475.

[^34]:    ies Cox ${ }^{\text {A Jones, Popular Romances of the Middle Ages. }}$
    10s Six Old English Chronicles, 101-2, 390; Eeating, 110, \&e. ; The Scottish Chropicle.
    ies strab. rii. 1, 4.
    ie: Latham's Ftholozy of Earope, 202. The Cimbi and Eastiones are sold to h.re spoken Celtic. Isuchanan, Hist. Scot. 3i. 14.
    ${ }^{26}$ Mallet's Northern Antiquitics, Bohn. 83, 51G. The presence of Ranic, Etrascan and trish Oglam characters in Arabia is the most bitaral thing ia the world. Daldric's PrehishricNianons, st.
    $263 \mathrm{jb} . \mathrm{St}$.

[^35]:    1:0 Mallet's Northern Antiquities, Bohn, 403, 423.
    271 16. 444.
    $1: 2$ It 411 .
    273 IIO is also called the son of Eitmon, who mnst be Heman.
    drs Rawlinson's Herodotus, App. Bock ir., Essay 1. Mallet'a snliquitics, ©s note.

[^36]:    Baldwin's Prehistoric Nintions, 229.
    ${ }^{11}$ As I haro already indicatod that Exer or Abiczer, the second son of Zimran and Hammolekth, had a son 3lconothai and a grandson Ophrah, I havo thought il desirable to ald a table of licir geographical connections, which winl be found closely to selate to those or Zimran's fanly alrealy mentioned. Heon, or, with the power of the ayin, 3egon, is the important pert of dconothai's name; and that of Ophrah, which, commencing with ayin nasy appeas as Goprab, \&c, is foumd in twe Bjibe as Leophrab or Beth Leophrah.
    arsia-Mandagora, Caberasa, Gabris and Sabris of 3redia. Gabra of Persis, Sipphare of Ar), and Masin of Gedrosia.
    Ldia-Magon, Massani, 3yasicani, Mrandrus. Sunphara, Sabarx, Sippara, Sabara, Alagznus.

    4b. \& Ast--3rescae, 3fescac, 3rennis, 3rjgionia. Abars, Sipphara, Chaboras, Caprins, Lábara.
    Irabia-Mreceni, Labris, Obreca, Sapharitio.
    frican-Macomades, Macanitic. Gaphara, Epcros, Aubcreum, Sзbrata, Tillabari.
    Syric.-Cappares.

[^37]:    Italy－$\overline{\text { Venetfa and }}$
    $\left\{\begin{array}{l}\text { Venet } \\ \text { Istra }\end{array}\right.$
    $\underbrace{\text { 志 }}$
    3．Liguria
    4．Etruria

[^38]:    -The passage refered to wecurs at p. is. of the Introductury Notice, dated Cobourz, Mas 2\%, 1894, prenxed to "Sir Charles Madealfe Defended against the Athacks of his late Counsellors." "Mr. Ryerson has not thought proper, under prescat circumshances, to accept the offec of Superintendent of Education, nor has any political offec ever been offered to him. And he is ready to relinquish any situation which ho now nills ratioce than nut accumphash this inferative andertaking. For if a Leonidas and three hundred Spartans could throw the:nselves into the Thermopyle of death for the salvation of theit country, it would all become ore humble Canadian to hesitate at any sacrifice, or shrink frum any responsibility, or cien dangur, in order to prevent his own countrymen from rushang into a vortex whel, he is most certain?s persuadei, wil' tavelvo many of them in calamities more scrious than those wheh folluwed the crents of 1837."

[^39]:    * Of 2 latur date is the "Cinaa" of Barker's Canadran Mfagazine aud the bingston Britwh Whig, understood to have been W. B. Wells, Esq., now County Judge of Kent.

[^40]:    * It is with great regret that we have to state that, since the above was in type, tho death of Mr. Gibson las been announced. In a botanizing excursion on the porth shore of Lake Superior, dumis the vacation seasun of 1S76, Jir. Gibson unhappily contracted rheumath fever, which afterwards terminated fatally at Alontreal. At tho timo of his decease, Mr. Gibson was Suence Master in the Nomal Schoul at Ottawa IIe was born at Rayliold, in the County of Huron, and sraduated at the University of Toronto in 1872. The valuable contribution to Canadian Butamal Sucnce, of which Mr. Gibson, conjointly with Prufessor Macuati, was the author, will be continued in these pages by the latter gentleman.

[^41]:    *** The Annual Subscription, due in Jaruary, Country Members, $\$ 3$; in Toronto, $\$ 4$.

