NEW
CHECK LIST
OF
NORTH AMERICAN
MOTHS

AUG. R. GROTE
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BY
AUG. R. GROTE
President New York Entomological Club

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PREFACE.

The present list of names of described species of North American Moths, is as correct and complete as I can make it in the present state of our knowledge of the families here included. I have followed the name of the species with that of its author, without reference to the genus under which it was originally published. I have adopted such of Hubner’s generic names as have been used by good authorities on the literature and structure of this group of insects. Only in a few instances (e. g. Lithophane) does this use originate with myself, and I have given special reasons for the procedure. In the case cited the name Xylina has been usually employed. This name, as I have shown in my “Check List” of the Noctuidæ, is originally proposed by Hubner for a species belonging to the genus Hadena. Ochsenheimer takes it from Hubner, citing him as authority, and uses it for a mixed assortment of species, including some Lithophanes and Hadenas, together with other European Noctuids now placed under different genera. In the meantime Hubner includes Socia under his genus Lithophane, and I have taken this as the type of the genus, properly rejecting Xylina as a synonym of Hadena. The name Lithophane is, thus, the correct one for the genus, and is quite euphonious and otherwise unobjectionable. Its signification is quite expressive of the appearance of the species for which it is used, and the same Greek word is taken (in a different connection) for a genus in the same group by Stephens (e. g. Lithomia). I have also restored Hubner’s authority to genera like Agrotis, a name originally proposed by him, and credited to him by Ochsenheimer, but afterwards appropriated by various writers. There is nothing in my adoption of Hubner’s names which can be fairly criticized, unless it be claimed that this writer should be totally ignored for genera. But no author whom I have studied has rejected Hubner entirely. His generic names have been used by all, so evidently proper have a number of them proved to be. So far as the number of genera here retained is concerned, I have not willingly adopted one not resting on real structural characters. Certain writers in effect overlook all characters which necessitate a close or microscopic examination. Their classification depends upon their arbitrary idea of what species belong to a genus. It would be impossible to draw up a diagnosis of the genus Eudryas, for instance, as arranged by them, and including in it the species of Copidryas and Ciris. If we examine the neuration, the mouth, the clypens, we will find that Gloveri dif-
fers as strongly from Unio and Grata, and by as tangible marks as characterize any two related genera in the order. The species must then be thrown together, in this instance, from general re-
semblances of size and color. Yet Hubner is blamed for depend-
ing in his diagnoses upon size and color. But it is not accurate
to overlook the characters which separate Copridryas from Eudryas; and the close correspondence between the two species of Eudryas, in structure, lends force to an objection against their being brought together with Gloveri, in one and the same genus.
The present “List” takes the place of the List of 1868, and includes the various catalogues of single genera or families which I have drawn up since that time. There are very few changes which have not been explained by me elsewhere, and with the consciousness that I have spared no labor or thought to make it accurate, I leave it to its judges. The territory it covers is the North American Continent, north of Mexico and the West Indies. In the Dryocampacea, three species are added, hitherto only known from Mexico. Southwestern Texas will be found to have many species in common with Northern Mexico; and the ex-

tremity of the peninsula of Florida has several species found in Cuba. Dr. Le Conte’s faunal map has shown itself correct so far, also, as the Lepidoptera are concerned. I have omitted from this List the signs of doubt as to the position of a species in a genus. In a number of cases this needs revision, yet the “List” will prove itself, I believe, more correct than its predecessors in this respect. As some changes are made for the first time, and the “List” is the result of my original work, it will have what authority I can give it as a contribution to a natural arrangement of the material it deals with. I have omitted also from this “List” the sign placed after names of species which I have not seen. The num-
ber of these instances has diminished since the List of 1868, while the number of species has greatly augmented.

Much has been done for Science and a knowledge of our species of Moths when they are named and catalogued correctly —listed so that their names express their qualities, and their position the relationship and ancestry of the different kinds. The amateur, the collector, the exact thinker, is encouraged and satisfied with these results, but the philosopher feels that the quest is but half begun. The lives of these idle moths call out no lessons of morality as the ant taught the Hebrew. But their wings, carelessly fluttering, caught the eye of the Greek, half poet and half philosopher, himself fond of the Sun and Nature, and they served him for proof of Immortality. The Hebrew, more severe, sought rules for his daily converse with other men; his soul was content within its dwelling. Afterwards one of his tribe was to write the belief that in his flesh he was to see God. In the meanwhile the Greek had turned Nature into Metaphysics, and had consoled himself with Psyche. Not in the flesh, but on
airy, all but impalpable wings, was he to join the Gods, a shade, a shadow, a breath. His Eternities became elastic, as his thoughts, playing around the facts of Nature perceived by him, made Deities out of Matter finely spun out in dreams. At length he perceived that this was an endless procession in which he was moving—in his clan or leading on horseback Homeric hosts. At the last we are expressed by chemical formulas, as other compounds of the materials of worlds. But what capabilities are not ours in Evolution! I hear the noises making all over the globe, as we are crowding together by increase of population. We are more brutal to each other and selfish under this struggle for existence than the Jews, and this despite our Christianity which we have taken from them, and which is so full of panaceas against the evils of overcrowding. That is the test of the practical value of belief, when it betters our condition. What a range of thought one can run over, catching butterflies along the hedge-rows. I come back to my first surprise, when, as a boy, I caught Cicindelas on the South beach of Staten Island. I saw that there were immense questions hanging about unsolved, as I was bottling my captures. These insects were part of a Universe with Stars and Suns. I could not understand the life I was taking; and then I felt the grief that arises when we become conscious of the rôle played by Destruction. I abandoned collecting insects, even walking carefully so as not to bruise the golden-rods and purple asters that fringed my path. This world became filled with pain, and I quarreled with a friend who pinned some delicately colored species alive, rather than risk the effects of anaesthetic poisons on their fugitive tints. I felt there was a certain selfishness in my enjoyment of Nature. How much, alas, we must do to get knowledge I was soon to discover in the dissecting room! Yet I cannot reconcile myself to, nor grasp the reasons for vivisection. If there is one thing that is hateful to my soul it is this. When, in after life, I found a man who, in order to exhibit himself before a mixed assemblage as is present at the meeting of the Association for the Advancement of Science, was willing to cut up a cat, I knew that I had before me a man deficient in moral sense, whom horrors attracted, who brought himself into note by the ease with which he moved among the miseries that he inflicted. The audience cannot be thus instructed; and the most sensible are probably only shocked at the exhibition and surprised to find themselves its witnesses. I feel somewhat guilty in having induced my reader to come this far, as I hope, through a little display of philosophy, to a lesson against cruelty. But, even in preparing insects for the cabinet, there is a great choice of means, and I hope that the enthusiasm of the student will not cause him to forget that these little creatures suffer and feel pain. Early in my entomological career I stopped collecting and joined the Battle of the Synonyms instead, and gave myself up to de-
scribing. But now we have such excellent means for taking these tiny lives without lengthy suffering, that Entomology is relieved of much of the odium that has properly clung to the study. Of most Lepidoptera the life in the perfect stage is brief, even when not invaded by birds and rodents. Entomologists kill a very minute proportion of the swarms of insect life, but they owe it to themselves to take their share humanly.

The present “New Check List” is founded on preceding Lists, published by myself and the late Mr. C. T. Robinson, or by myself alone. These cover the whole ground, commencing with the Synonymical Catalogue of Sphingidae of 1865, down to the last list published by myself in the “Canadian Entomologist” or other of our periodical Entomological magazines. These sources are the foundations for future “Lists,” simply because they are the first to be published, and contain original matter, and must be known and used by all later comers (like the “Brooklyn Check List”) in the same field. By the List now offered to the student, I think that a collection of our moths can be naturally and scientifically arranged. In some cases there may be an unprejudiced difference of opinion as to certain genera adopted; for instance in the Sphingidae, a group composed of such large and showy insects, that without a microscope an opinion on structure may be given. It must be remembered that I have been guided by the recently published monograph of Mr. Butler to some extent, considering that the very large material he has had before him will have led to more correct ideas as to the affinities of the different species. In this group the generic characters are mainly comparative, only *Amphonyx*, among the many genera I have examined, affording a single strong generic character. Yet in many instances the differences are sufficiently clear as to cause no reasonable doubts that we have to do with different generic types. In the palpi, neuration, antennæ and abdomen, together with the whole habit, characters are afforded by *C. Juglandis*, for instance, which are as strong as those separating any two other genera in the group. So far as the study of geographical distribution is concerned, it is interesting to know that the ocellated western forms of *Smerinthus* agree in structure with the European, while our species from the Atlantic coast diverge from this type, but agree with another form from Asia Minor. The American species of *Ambulyx*, which do not, however, occur within the territory embraced by this List, so far as I know, may be distinguished from the Asiatic species (hitherto referred to this genus) by a sub-apical excision in the external margin of the forewings and by a reversal of the coloring of the tegulae and thorax. In the American species the shoulder-covers are dark and the thorax pale. In describing *A. Sexoculata* from Brazil, I drew attention to the probable generic distinction between the two groups. I mention this here to show that close observation is necessary to bring out facts which have
a bearing upon wider questions than the separation of species, namely, geographical distribution and descent.

In the different families we are obliged to use different characters as the basis for genera, and even in different sections of the same family. Thus in a large number of genera in the Noctuidae, it needs only a careful study to apprehend quite strong characters, such as armed tibiae, hairy eyes, a pitted or roughened and tuberculate clypeus. But among several genera below Homoptera and among the Deltoids, the characters tend to become comparative. In this latter group the tibiae are always unarmed and the eyes naked, and where we have simple antennae and no peculiarities such as distinguish Renia, Zanclognatha and Pallerichira, we have to take comparative differences. In Capis, for instance, a glistening, pyralidous Deltoid, we have merely the broader, squarer fore wings and the difference in the labial pulpi to distinguish it from Sisyphus, which in habit it resembles; although it is probable that the male antennae are also simple, and that there are some differences in the neuration which I have not worked out yet. I cite this merely as an example of the varying characters of genera in the group. In this list, then, I have most frequently adopted genera which I have studied, and, upon one ground or another, have been convinced of their validity. I hope the student, after arranging his material, will be tempted to investigate its structure and literature for himself. He will undoubtedly discover many new facts which will here and there lead to changes. Let him but compare this list with the Smithsonian catalogue and he will at first hardly recognize them as referring to the same fauna. It is hoped now that we are on the road to more accurate knowledge. It is a pity that in this study so much personal difference finds expression. Without having attained the ideal, I have held before my mind the picture of a student without prejudice and incapable of concealing the sources of his information; one who, in his interpretation of Nature, is courteous and fair towards all those engaged in the same quest.

I do not wish to allow my "New Check List" to go to the press without my acknowledgment that I have made, with most students, a great many mistakes. Considering the circumstances, and looking back over many years during which I had no one to help me with determinations, so that I was obliged to make out the genera and species as I could, I am surprised I did not make more. With regard to my species, though very numerous, I think they are very generally known; partly because I have determined for others so much, and partly, I hope, that my descriptions are recognizably written, to say nothing of the Plates which I have published illustrating the subject.
Mr. Henry Edwards has corrected the proofs of this list of the genus *Catocala*, and authorizes my retaining the names *Levettei*, *Anna* and *Adoptiva*, for the three species described by me. I need not say anything as to Mr. Edwards' knowledge of the species of *Catocala* and their literature. But I may say that he is thoroughly well acquainted with the facts in the controversy with regard to these species. It is admitted by Mr. Hulst, representing Mr. Strecker, that I gave the names first to these species, as also that Mr. Strecker antedated his number. I have shown reasons for the opinion that Mr. Strecker had sheets of my paper, printed in Philadelphia, and dated September, before him, when he put the incorrect date, "August," to his number which appeared in November.

I am also indebted to Mr. Henry Edwards for his careful revision of the proof sheets of the list of the *Aegriadae*. I have received from the same Entomologist information as to the synonymy of certain Western *Sphingidae*. In the *Geometridae* I have followed Dr. Packard's admirable Monograph, with but few changes in the names or synonymy; the *Boarmine* are placed lower down, as they appear to me to occupy an inferior position in the family. I have not taken into the list the *Desiderata* of Dr. Packard, except in a few instances. I have restored the sequence of the *Geometridae*, commencing with the highest genera, as is customary. It is odd that in the "Brooklyn Check List," where the intention evidently is to commence with the highest forms in a family, an exception is made with the *Geometridae*, which are catalogued upside down.

The principal abbreviations used in this List are:

- *Gr.* for Grote.
- *Guen.* for Guenee.
- *Zell.* for Zeller.
- *Pack.* for Packard.
- *Morr.* for Morrison.
- *Harv.* for Harvey.
- *Walk.* for Walker.
- *Fern.* for Fernald.

A. R. GROTE.

*May, 1882.*
### SPHINGIDÆ.

<table>
<thead>
<tr>
<th>No.</th>
<th>Species</th>
<th>Author</th>
<th>Notes</th>
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<td>Tenuis, Gr.</td>
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<td>Thysbe, Fabr.</td>
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<td>Axillaris, G. &amp; R.</td>
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<td>26</td>
<td>Titan, Cram.</td>
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<td>Annuloseum, Swains.</td>
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<td>Balleata, Kirtl.</td>
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<td>Phaeton, G. &amp; R.</td>
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<td>32</td>
<td>Erato, Boisd.</td>
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<td>Cautethia, Gr.*</td>
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<td>Grotei, Hy. Edw.</td>
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<td>Noctuiformis,† H.–S.</td>
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<td>36</td>
<td>Pogocolon, Boisd.</td>
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<td>37</td>
<td>Gauræ, Abb. &amp; Sm.</td>
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<td>38</td>
<td>var. Juanita, Strk.</td>
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<td>Circeæ, Hy. Edw.</td>
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<td>Clarkæ, Boisd.</td>
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<td>41</td>
<td>Victoria, Gr.</td>
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<td>42</td>
<td>Terlooii, Hy. Edw.</td>
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<td>Camertus, Cram.</td>
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<td>50</td>
<td>Deidamia, Clem.</td>
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<td>51</td>
<td>Inscripta, Harr.</td>
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*Dr. Boisduval classes this genus among the Macroglossæ, as also Mr. Hy. Edwards.
Arctonotus, Boisd.
28 Lucidus, Boisd.

EUMORPHÆ.

Deilephila, Ochs.
29 Chamaenerii, Harr.
Canadensis, Guen.
30 Lineata, Fabr.

Daucus, Cram.

Philampelus, Harr.
31 Vitis, Drury.
32 Linnei, G. & R.
33 Pandorus, Hubn.
Satellitia,† Harr.
Ampelophaga, Boisd.
34 Achemon, Drury.

Argeus, Hubn.
35 Labruscæ, Linn.

Pachyia, Walk.
36 Ficus, Linn.
Crameri, Menet.
? Lyncea, Clem.

Chœroecampa, Dup.
37 Tersa, Linn.
38 Procne, Clem.

Everyx, Boisd.
39 Chœrilus, Cram.
Azalea, A. & S.
40 Myron, Cram.
Pampinatrix, A. & S.
var. Cnotus, Hubn.

Ampelophaga, Brem.
41 Versicolor, Harr.

PHALÈNOIDES.

Smerinthus, Latr.
42 Ophthalamicus, Boisd.
var. Pallidulus, Hy. Edw.
§ Eusmerinthus, Gr.
43 Geminatus, Say.
44 Cerisyi, Kirby.

† Paonias, Hubn.
45 Excaecatus, A. & S.

Calasymbolus, Gr.
46 Myops, A. & S.
47 Astylus, Drury.
Io, Boisd.
Integerrima, Harr.

Triptogon, Bremer.
48 Modesta, Harr.
Princeps, Walk.
49 Occidentalis, H bức, Edw.
Imperialis, Strk.
Cablei, Von Reitz.*

Cressonia, G. & R.
50 Juglandis, A. & S.
?t Pallens, Strk.
Robinsonii, Butl.

MANDUCÆ.

Ceratonia, Harr.
51 Amyntor, Hubn.
Quadricornis, Harr.

Daremma, Walk.
52 Undulosa, Walk.
Brontes,† Boisd.
Repentinus, Clem.
53 Hageni, Gr.
54 Catalpæ, Boisd.

Diludia, G. & R.
55 Jasminearum, B. & LeC.
56 Leucophaeata, Clem.
57 Brontes, Drury.

Amphonyx, Poe.
58 Anteus, Drury.

Phlegethontius, Hubn.
59 Rustica, Fabr.
60 Carolina, Linn.
61 Celeus, Hubn.
Quadrimaculata, Haw.
62 Cingulata, Fabr.
var. Decolora Hy. Edw.

* This will probably turn out to be Modesta. The colored drawing of the larva of this Louisiana species differs from the descriptions of the caterpillar of Modesta; it is horned and feeds on water plants; the moth is very like Modesta, and I could not distinguish it clearly from the drawing.
**Sphinx,** Linn.
64 Kalmiae, *A. & S.*
65 Chersis, *Hubn.*

**Cinerea,** Harr.

**Vashti, Strk.**
70 Canadensis, *Boisd.*

**Plostra, Strk.**
71 Albescens, *Tepper.*
72 Gordius, *Cram.*
73 Luscitiosa, *Clem.*
74 Lugens, *Walk.*

**Eremitoides, Strk.**
75 Eremitus, *Hubn.*
76 Elsa, *Strk.*
77 Dolii, *Neum.*

**Dolba,** Walk.
78 Hyleus, *Druy.*

**Dilophonota,** Burm.
79 Ello, *Linn.*
80 Melancholica, *Gr.*
81 Merianae, *Gr.*
82 Festa, *Hy. Edw.*
83 Obscura, *Fabr.*
84 Edwardsi, *Butler.*

**Hyloicus,** Hubn.
85 Plebeius, *Fabr.*
86 Sequoia, *Boisd.*
87 Cupressi, *Boisd.*

**Eilema,** Clem.
88 Coniferarum, *Abb. & S.*
89 Bombycocides, *Walk.*
90 Pineum, *Lintn.*

**Exedrinum,** Gr.
91 Halicarnse, *Strk.*

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**ÆGERIADÆ.**

**Melittia,** Hubn.
1 Ceto, *Westw.*

**Cucurbita,** Harr.

**Satyriniiformis,** Hubn.
2 Grandis, *Streck.*
4 Snowii, *Hy. Edw.*

**Larunda,** *Hy. Edw.*

**Euhagenia,** *Hy. Edw.*
7 Nebraskæ, *Hy. Edw.*

**Alcahotoc,** *Hy. Edw.*
8 Caudatum, *Harris.*

**Phemonoe,** *Hy. Edw.*

**Sospita,** *Hy. Edw.*
9 Quinquecaudata, *Ridings.*

**Trochilium,** Scop.
10 Apiforme, *L.*
12 Tibiale, *Harris.*

**Rembecia,** Hubn.
13 Marginata, *Harr.*

**Rubi,** *Riley.*

**Flavigipes,** *Hlst.*
16 Pleciaformis, *Walk.*
17 Emphytiformis, *Walk.*

**Sciapteron,** Staud.
23 Simulans, *Gr.*
24 Tricincta, *Harris.*
25 Polistiformis, *Harris.*
25½Anthracipennis, *Boisd.*

**Fatua,** *Hy Edw.*
26 Denudata, *Harris.*

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* The ³ of this species seems to be *Sesia Asilipennis*, Bois. Lepid. Heteroc., p. 391.
**Harmonia**, Hy. Edw.
27 Morrisonii, Hy. Edw.
25 Pini, Kellcott.

**Podosesia**, Mösch.
29 Syringa, Harris.
Gratea Longipes, Mösch.

**Albuna**, Hy. Edw.
30 Odyneripennis, Walk.
Rubescens, Hulst.
31 Hylotomiformis, Walk.
Tanaceti, Hy. Edw.
32 Pyramidalis, Barnston.
33 Artemisia, Hy. Edw.
34 Montana, Hy. Edw.
35 Vancouverensis, Hy. Edw.
36 Coloradensis, Hy. Edw.*
37 Resplendent, Hy. Edw.
38 Rileyana, Hy. Edw.
40 Torva, Hy. Edw.
41 Denotata, Hy. Edw.

**Sannina**, Walk.
42 Exitiosa, Say.
Uroceriformis, Walk. §
var. Fitchii, Hy Edw.
Uroceriformis, Walk. ¶

**Ægeria**, Fabr.
43 Saxifraga, Hy. Edw.
44 Fulvipes, Harris.
45 Henshawii, Hy. Edw.
46 Hospes, Walsh.
47 Pictipes, G. & R.
48 Scutula, Harr.
49 Pyri, Harr.
50 Acerni, Clem.
51 Corni, Hy. Edw.
52 Tipuliformis, Linn.
53 Asiliformis, Rott.
54 Verecunda, Hy. Edw.
55 Brunneipennis, Hy. Edw.
56 Rubrofascia, Hy. Edw.
57 Bollii, Hy. Edw.
58 Lupini, Hy. Edw.
59 Perplexa, Hy. Edw.
60 Impropria, Hy. Edw.
61 Sexfasciata, Hy. Edw.
62 Corusca, Hy. Edw.
63 Aureola, Hy. Edw.
64 Consimilis, Hy. Edw.

65 Hyperici, Hy. Edw.
66 Eupatoriui, Hy. Edw.
67 Infirma, Hy. Edw.
68 Imitata, Hy. Edw.
69 Morula, Hy. Edw.
70 Koebelei, Hy. Edw.
71 Washingtonia, Hy. Eau
72 Decipiens, Hy. Edw.
73 Neglecta, Hy. Edw.
74 Imperfecta, Hy. Edw.
75 Hemizonae, Hy. Edw.
76 Senecioides, Hy. Edw.
77 Refulgens, Hy. Edw.
78 Opalescens, Hy. Edw.
79 Novaroensis, Behrens.
80 Giliae, Hy. Edw.
81 Minulli, Hy. Edw.
82 Madariae, Hy. Edw.
83 Albicornis, Hy. Edw.
84 Proxima, Hy. Edw.
85 Inusitata, Hy. Edw.
86 Nicotianae, Hy. Edw.
87 Tecta, Hy. Edw.
88 Lustrans, Gr.
89 Gallivora, Westw.

**Pyrrhotania**, Gr.
90 Floridensis, Gr.
91 Polygoni, Hy. Edw.
92 Fragariae, Hy. Edw.
93 Helianthi, Hy. Edw.
94 Achilleae, Hy. Edw.
95 Tepperi, Hy. Edw.
96 Eremocarpi, Hy. Edw.
97 Meadii, Hy. Edw.
98 Orthocarpi, Hy. Edw.
99 Texana, Hy. Edw.
100 Sappagæformis, Walk.
101 Geliformis, Walk.

**Carmenta**, Hy. Edw.
102 Pyralidiformis, Walk.
Nigella, Hulst.
103 Aureopurpurea, Hy. Edw.
104 Ruficornis, Hy. Edw.
105 Minuta, Hy. Edw.
106 Sanborni, Hy. Edw.
107 Fraxini, Hy. Edw.

**Zenodoxus**, G. & R.
108 Maculipes, G. & R.
109 Huncherea, Hy. Edw.
110 Potentillae, Hy. Edw.
111 Canescens, Hy. Edw.**

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* It is probable that 34, 35, 36, are local forms of one species.

** Of this list I have never seen Emphytiformis, Walk.; Pleciaeformis, Walk.; Geliformis, Walk.; Hospes, Walsh.; Gallivora, Westw. The rest are known by me. **

HY. EDWARDS.
THYRIDÆ.

THYRNIN.

**Thyris**, Illig.
1 Maculata, *Harris*.
3 Lugubris, *Boisd.*
   *var.* Sepulchralis, *Boisd.*

PLATYTHYRINI.

**Platythyris**, G. & R
4 Oculatana, *Clem.*
   *Fasciata*, G. & R.

ZYGAENIDÆ.

† HESPERI-SPHINGES.

**Alypia**, Hubn.
1 Octomaculata, *Fabr*.
2 Langtonii, *Coup*.
3 Mariposa, *G. & R.*
   *var.* Lunata, *Stretch*.
4 Dipsaci, *G. & R*.
5 Sacramento, *G. & R*.
6 Grotei, *Boisd*.
   § Androloma.
7 Lorquini, *G. & R*.
8 MacCullochii, *Kirby*.
9 Ridingsii, *Grote*.
10 Similis, *Stretch*.
11 Brannani, *Stretch*.

**Pseudalypia**, Hy. *Edw*.
12 Crotchii, *Hy. Edw*.

**Edwardsia**, Neum.
13 Brillians, *Neum*.

**Psychomorpha**, Harr.
14 Epimenis, *Drury*.

**Copidryas**, Gr.
15 Gloveri, *G. & R*.

**Endryas**, Boisd.
16 Unio, *Hubn*.
   *Brevipennis*, Str.
17 Grata, *Fabr*.
   *Assimilis*, Boisd.

**Ciris**, Gr
19 Wilsonii, *Gr*.

GLAUCOPES.

**Horama**, Hubn.
20 Texana, *Gr*.

**Didasys**, Gr.
21 Belæ, *Gr*.

**Lamocharhis**, H.-S.
22 Pertyi, *H.-S*.

**Cosmosoma**, Hubn.
23 Omphale, *Hubn*.

**Syntomeida**, Harris.
24 Ipomææ, *Harr*.

**Seepsis**, Walk.
25 Fulvicoillis, *Hubn*.
26 Packardi, *Gr*.
28 Edwardsii, *Gr*.

**Ctenuecha**, Kirby.
29 Virginica, *Charp*.
   *Latreilliana*, Kby.
30 Cressonana, *Gr*.
   § *Euctenuecha*.
31 Ochroscapus, *G. & R*.
32 Multifaria, *Walk*.
   *Rubroscapus*, Meuet.
34 Brunnea, *Stretch.*
35 Sanguinaria, *Strk.*
36 Venosa, *Walk.*
37 Harrisii, *Boisd.*
   *Pyrrhouna,* *Hulst.*
38 Robinsonii, *Boisd.*

**Gnophæla, Walk.**
39 Vermiculata, *G & R.*
   *var. Continua,* *Hy. Edw.*
40 Hopfferi, *G. & R.*
41 Latiipennis, *Boisd.*

**Acoloithus, Clem.**
42 Falsarius, *Clem.*

**Harrisina, Pack.**
43 Americana, *Harr.*
44 Coracina, *Clem.*
45 Texana, *Stretch.*

**Triprocris, Gr.**
46 Smithsonianus, *Clem.*

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**BOMBYCES.**

**LITHOSIÆ.**

**Nola,** *Leach.*
1 Ovilla, *Gr.*
2 Sexmaculata, *Gr.*
3 Minuscula, *Zell.*
4 Fuscula, *Gr.*
5 Melanopa, *Zell.*

**Argyrophiæs, Gr.**
6 Cilicoides, *Gr.*
7 Nigrofasciata, *Zell.*
   *Enstrotia Obaurata,* *Morr.*

**Clemensia, Pack.**
8 Albata, *Pack.*
9 Umbrata, *Pack.*

**Crambidia, Pack.**

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**Pyromorpha,** *H.−S.*
47 Dimidiata, *H.−S.*

**Lycomorpha,** *Harr.*
48 Pholus, *Drury.*
49 Miniata, *Pack.*
51 Constans, *Hy. Edw.*
52 Desertus, *Hy. Edw.*

**Anatolmis, Pack.**
54 Fulgens, *Hy. Edw.*

**Cydosine.**

**Cydosia,** *Westw.*
55 Aurivitta, *G. & R.*
   *var. Imitella,* *Stretch.*

**Penthetria,** *Hy. Edw.*
After examining a great many specimens, I cannot believe that Mr. Reakirt's descriptions cover different species from those registered here, and which antedate his paper.
Leptarctia, Stretch.
83 Decia, Boisd.
84 Lena, Boisd.
California, Walk.
85 Dimidiata, Stretch.

Kodiosoma, Stretch.
86 Fulva, Stretch.
87 Nigra, Stretch.
88 Tricolor, Stretch.
89 Eavesi, Stretch.

Nemeophila, Steph.
90 Petrosa, Walk.
var. Caspitis, Boisd.
var. Cichorii, Boisd.
var. Geometrica, Gr.
91 Scudder, Pack.
92 Modesta, Pack.

Seiractia, Pack.
93 Echo, Abb. & Sm.
94 Clio, Pack.

Eetypia, Clem.
95 Bivittata, Clem.

Pyrharctia, Pack.
96 Isabella, Abb. & S.
California, Pack.

Phragmatobia, Steph.
97 Rubricosa, Harr.

Antarctica, Hubn.
98 Vagans, Boisd.
Pteridis, Hy. Edw.
var. Rufula, Boisd.
99 Punctata, Pack.
var. Proba, Hy. Edw.
100 Rubra, Neum.

Lencarctia, Pack.
101 Acrea, Drury.
& Caprotina, Drury.
California, Pack.
102 Albida, Stretch.

Spilosoma, Steph.
103 Virginica, Fabr.
104 Vestalis, Pack.
105 Latipennis, Stretch.

Hyphantria, Harris.
106 Cunea, Drury.
Punctatissima, A. & S.
Textor, Harris.
Punctata, Fitch.

Enchætes, Harris.
107 Egle, Drury.
108 Eglennesis, Clem.
109 Abdominalis, Gr.
Pygarctia Abd. Gr.
110 Spraguei, Gr.
111 Elegans, Stretch.
112 Inopinatus, Hy. Edw.
113 Oregonensis, Stretch.
114 Collaris, Fitch.
Tanada Antica, Walk.

Vanessodes, G. & R.
115 Clarus, G. & R.

Arachnis, Hubn.
116 Picta, Pack.

Ecerythra, Harvey.
117 Phasma, Harv.

Eepantheria, Hubn
118 Scribonia, Stoll.
Oculatissima, A. & S.
Cuneogunda, DeB.
119 Reducta, Gr.

Halisdota, Hubn.
120 Tessellata, A. & S.
Antiphola, Walsh.
Dimor. var. larv., Harrisii W.
121 Cinctipes, Gr.
122 Caryae, Harris.
Annulifascia, Walk.
Porphyria, H.–S.
123 Agassizii, Pack.
var. Alni, Hy. Edw.
124 Maculata, Harris.
Fulvoflava, Walk.
Guttifera, H.–S.
125 Californica, Walk.
Angulifera, Walk.
126 Edwardsii, Pack.
Translucida, Walk.
127 Labecula, Gr.
128 Argentata, Pack.
129 Sobrina, Stretch.
130 Davisii, Hy. Edw.
131 Ingens, *Hy. Edw.*
132 Ambigua, *Strk.*
133 Rosenta, *Walk.*
134 Trigona, *Gr.*

Eulmisidota, *Gr.*
135 Longa, *Gr.*

DASYCHIRÆ.

Orgyia, *Ochs.*
136 Nova, *Fitch.*
138 Vetusta, *Boisd.*
140 Cana, *Hy. Edw.*
141 Definita, *Pack.*
142 Leucosigma, *A. & S.*

Parorgyia, *Pack.*
143 Leucophaea, *A. & S.*
144 Clintonii, *G. & R.*
145 Achatina, *A. & S.*
146 Parallela, *G. & S. R.*
147 Obliquata, *G. & S. R.*
148 Cinnamomea, *G. & S. R.*
149 Basilava, *Pack.*

Laria, *Curt.*
150 Rossii, *Curt.*

Dasychira, *Steph.*
151 Lintneri, *Gr.*

Carama, *Walk.*
152 Cretata, *Gr.*

Lagoa, *Harris.*
153 Crispata, *Pack.*
154 Opecuralis, *A. & S.*
155 Pyxidifera, *A. & S.*

COCHLIDLÆ.

Euclea, *Hubn.*
156 Querceti, *H.-S.*
157 Cippus, *† Harr.*
158 Quercicola, *H.-S.*
159 Bifida, *Pack.*
160 Ferruginea, *Pack.*
161 Incisa, *Harvey.*

Parasa, *Moore.*
162 Chloris, *H.-S.*
163 Fraterna, *Gr.*

Monotenea, *G. & R.*
164 Semifascia, *Walk.*
165 Sulfurea, *Gr.*

Nochelia, *Clem.*
166 Tardigrada, *Clem.*

Empretia, *Clem.*
167 Stimulea, *Clem.*

Phobetron, *Hubn.*
168 Pithecium, *A. & S.*
169 Hyalinum, *Walk.*
170 Nigricans, *Pack.*

Limacodes, *Latr.*
§ Eulimacodes, *Butl.*
171 Scapha, *H. ris.*
175 Rectilinea, *G. & S. R.*
176 Fasciola, *H.-S.*
177 Flexuosa, *Gr.*
178 Caesonia, *Gr.*

Sisyrosea, *Gr.*
179 Inornata, *G. & S. R.*
180 Nasoni, *Gr.*

Adoneta, *Clem.*
181 Spinuloides, *H.-S.*
182 Leucosigma, *Pack.*
183 Pygmaea, *G. & R.*

Heuretes, *G. & R.*
184 Picticornis, *G. & S. R.*
Packardia, G. & R.
185 Fusca, Pack.
186 Ocellata, Gr.
187 Geminata, Pack.
188 Albibipuncta, Pack.
189 Goodelli, Gr.
190 Nigripunctata, Good.

Artaxa, Walk.
191 Ingenita, Hy. Edw.

Heterogenca, Knoch.
192 Shutteffii, Pack.

Isa, Pack.
193 Textula, H.-S.

Tortricidia, Pack.
194 Pallida, H.-S.
195 Testacea, Pack.
196 Flavula, H.-S.

Krona6, Reak.
197 Minuta, Reak.

Psychid6e.
Psyche, Ochs.
198 Confederata, Gr.
199 Fragmentata, Hy. Edw.
200 Coniferella, Hy. Edw.

Plateaeetecus, Pack.
201 Gloveri, Pack.

Thyridopteryx, Steph.
202 Ephemereiformis Steph.
203 Meadii, Hy. Ed.

Oiketicus, Guild.
204 Abbotii, Gr.
205 Davidsonii, Hy. Ed.

Lacosoma, Grote.
206 Chiridota, Gr.

Perophora, Harr.
207 Melsheimerii, Harr.

Phryganidia, Pack.
208 Californica, Pack.

Ptilodenontes.
Ichthyura, Hubn.
209 Inclusa, Hubn.
209 1/2 Strigosa, Gr.
210 Ornata, G. & R.
211 Palla, French.
212 Inversa, Pack.
213 Indentata, Pack.
214 Albosigma, Fitch.
215 Vau, Fitch.

Apatelodes, Pack.
216 Torrefacta, A. & S.
217 Angelica, Grote.

Datana, Walk.
218 Ministra, Drug.
219 Angustii, G. & R.
220 Major, G. & R.
221 Integerrima, G. & R.
222 Floridana, Graef.
223 Contracta, Walk.
224 Perspicua, G. & R.

Nadata, Walk.
225 Gibbosa, A. & S.
226 Doubledayi, Pack.

Hyparpax, Hubn.
227 Aurora, A. & S.
228 Trilineata, Pack.

Glaphisia, Boisd.
229 Trilineata, Pack.

Drynobia, Dup.
229 ? Septentrionalis, Walk.

Lophopteryx, Steph.
229 1/2 Americana, Harv.

Notodonta, Ochs.
221 Stragula, Gr.
222 Basitriens, Walk.
223 Simplaria, Graef.
Lophodontia, Pack.
224 Ferruginea, Pack.
225 Angulosala, A. & S.
226 Georgica, H.-S.

Phloeosia, Hubn.*
227 Rimos, Pack.
228 Dimidiata, H.-S.
229 Californica, Stretch.

Nerice, Walk.
230 Bidentata, Walk.

Edema, Walk.
231 Albifrons, A. & S.
232 Albicosta, Hubn.
233 Packardii, Mori.

Ellida, Gr.
233½ Gelida, Gr.

Sciromonta, G. & R.
234 Bilinata, Pack.
Het. Turbida, Walk.
Ed. Ì Associatea, Walk.
Glph. Ulmi, Harr.

Oedemasia, Pack.
235 Concina, A. & S.
236 Exima, Gr.
237 Nuidia, Pack.
238 Badia, Pack.
238½ Salicis, Hy. Edw.

Dasylophia, Pack.
239 Anguina, A. & S.
?$Cucullifera, H.-S.$
Punctata, Walk.
240 Interna, Pack.
Tripartita, Walk.

Schizura, Doubl.
241 Ipomone, Doubl.

Coelodasys, Pack.
242 Unicorns, A. & S.
242½ Conspecta, Hy. Edw.
243 Edmandsii, Pack.
244 Apicalis, G. & R.

Leptinoides, Gr.
245 Mustelina, Pack.
246 Biguttata, Pack.
Ducens, Walk.
Compta, Walk.
$Cortica, Walk.$
var. Cinereofrons, Pack.
Ustipennis, Walk.

Telifer, Gr.
248 Harrisii, Pack.

Icasssa, Walk.
250 Lignicolor, Walk.
Virgata, Pack.
Transversata, Walk.
$C Lignigera, Walk.$

Heterocampa, Doubl.
251 Astarte, Doubl.
252 Obliqua, Pack.
$Var. Brunnea, G. & R.$
253 Trouvelotii, Pack,†
254 Subrotata, Harvey.
255 Celtipraga, Harvey.
256 Pulvorea, G. & R.
257 Marthesia, Cram.
Tessella, Pack

Elongata, G. & R.
258 Guttivitta, Walk.
Biundata, Pack.
Muorea, H.-S.

260 Biundata, Walk.
Olivata, Pack.
Semiplaga, Walk.
Viridescent, Walk.

Umbrata, Walk.
261 Cinerea, Pack.
Misogada Sobria, Walk.

263 Unicolor, Pack.
264 Marina, Pack.
265 Subalbicans, Gr.
Tanada Cinerascens, Walk.
$Lochmaus Manteo, Doubl.$

266 Belfragei, Gr.
267 Chapmaniae, Gr.
268 Thyatis, Walk.

Litodonta, Harvey.
269 Hydromelia, Harv.
$Var. Fusca, Harv.$

*Perhaps these names will prove to refer to a form identical with the European species.
†Perhaps this is identical with the female variety of Obliqua, with a brown patch on primaries, figured by Abbot and ourselves and named Brunnea. From a photograph neither Salicis nor Conspecta belong to Heterocampa. I refer to Page xii, List, 1868, for notes on Abbot’s unpublished Plates.
**Cerura**, Schrank.
270 Borealis, *Boisd.*
271 Occidentalis, *Lintn.*
272 Aquilonaris, *Lintn.*
273 Cinerea, *Walk.*
274 Multiscrita, *Riley.*
275 Candia, *Lintn.*

**PLATYPTERICES.**

**Platypteryx**, Lasp.
277 Siculifer, *Pack.*
278 Arcuata, *Walk.*
279 Genicula, *Gr.*

**Prionia**, Hubn.
280 Bilineata, *Pack.*

**Dryopteris**, Gr.
281 Rosea, *Walk.*
282 Irrorata, *Pack.*

**ATTACI.**

**Actias**, Leach.
283 Luna, *Linn.*
284 Polyphemus, *Cram.*

**Telea**, Hubn.
285 Splendidus, *DeB.*

**Philosamia**, Gr.
286 Cynthia, *Drury.*

**Callosamia**, Pack.
287 Promethea, *Drury.*
288 Angulifera, *Walk.*

**Platysamia**, Gr.
289 Cecropia, *Linn.*
290 Columbia, *Smith.*
291 Gloveri, *Strk.*
292 Ceanothi, *Behr.*
293 Galbina, *Clem.*
294 Mendocino, *Behrens.*

**Saturnia**, Schrank.

**HEMILEUCINI.**

**Pseudoazulis**, G. & R.
295 Eglanterina, *Boisd.*
296 Hera, *Harris.*

**Hemileueca**, Walk.
297 Maia, *Drury.*
298 Juno, *Pack.*
299 Yavapai, *Neum.*
300 Grotel, *Hopffer.*

**Eulcucophaeus**, Pack.
302 Tricolor, *Pack.*

**Hyperchiria**, Hubn.
304 Io, *Fabr.*
305 Zelleri, *G. & R.*
306 Pamina, *Neum.*
307 Pandora, *Blake.*
308 Diazoma, *Gr.*

**CERATOCAMPADÆ.**

**Eacles**, Hubn.
309 Imperialis, *Drury.*
310 Regalis, *Fabr.*
311 Mexicana, *G. & R.*

**Citheronia**, Hubn.
Sphingicampa, Walsh.
313 Bicolor, Harris.
♀ Bicolor, Walsh.
♂ ♀ Distigma, Walsh.
314 Bisepta, Lintn.
315 Quadrilineata, G. & S. R.
316 Albolineata, G. & S. R.
317 Heiligbrodti, Harvey.

Anisota, Hubn.
318 Stigma, Fabr.
319 Senatoria, A. & S.
320 Virginiensis, Drury.
Pellucida, A. & S.

Dryocampa, Harris.
321 Rubicunda, Fabr.
♀ var. Alba, Grote.

LACCHINEIDES.

Thauma, Hy. Edw.
322 Ribesii, Hy. Edw.

Gloveria, Pack.
323 Arizonensis, Pack.

Clisiocampa, Curtis.
324 Californica, Pack.
Pseudomandia, Boisd.
325 Fragilis, Stretch.
326 Constricta, Stretch.
327 Strigosa, Stretch.
328 Erosa, Stretch.
329 Thoracicca, Stretch.
330 Americana, Harris.
Decipiens, Walk.
Frutetorum, Boisd.
331 Disstria, Hubn.
Sylvatica, Harris.
Drupacearum, Boisd.

Gastropacha, Ochs.
332 Americana, Harris.
333 Ferruginea, Pack.
334 Carpinifolia, Boisd.
335 Californica, Pack.
336 Mildel, Stretch.

Heteropacha, Harvey.
337 Rileyana, Harv.

Artace, Walk.
338 Punctistriga, Walk.

Tolype, Hubn.
339 Velleda, Stoll.
340 Laricis, Fitch.
♀ Minuta, Gr.

TEREDINES.

Hypopta, Hubn.
341 Bertholdi, Gr.

Cossus, Fabr.
342 Centerensis, Lintn.
343 Reticulatus, Lintn.
344 Undosus, Lintn.
345 MacMurtriei, Peale.
Plagiatus, Walk.
346 Populi, Walk.
347 Angrezi, Bailey.

Prionoxystus, Gr.
348 Robiniae, Peck.
♀ Crepera, Harr.
349 Querciperda, Fitch.

Zeuzera, Latr.
350 Canadensis, H.-S.

Cossula, Bailey.
351 Magnifica, Bailey.

HEPIALI.

Hepialus, Fabr.
352 Auratus, Gr.
♀
353 Argenteomaculatus, Harr.
354 Quadrigruntatus, Gr.
♀ Arg. ‡ Harr. L. Sup
355 Purpurascens, Pack.
356 Argentata, Pack.
357 Thule, Strk.
358 Hyperboreus, Moesch.
359 Pulcher, Gr.
360 Behrensii, Stretch.
♀ var. Tacoma, Hy. Eaw
♀ var. Montanus, Stretch.
361 Mathewi, Hy. Edw.
362 Rectus, Hy. Edw.
363 Anceps, Hy. Edw.
364 Sequoiolus, Behrens.
365 Mendocinolus, Behrens.
366 Baroni, Behrens.
367 Californicus, Boisd.
368 Hectoides, Boisd.
369 Lenzi, Behrens.
370 Labradoresalis, Pack.
371 Mustelinus, Pack.
372 Gracilis, Gr.
373 Inutilis, Hy. Edw.
374 Desolatus, Sr.
375 Modestus, Hy. Edw.
NOCTUÆ.

BOMBYCÆ.

Leptina, Guen.
1 Dormitans, Guen.
2 Latebricola, Gr.
3 Ophthalmica, Guen.
4 Australis, Gr.
5 Doubledayi, Guen.

Bombycia, Hubn.
6 Improvisa, Hy. Edw.
7 Semicircularis, Gr.

Thyatira, Ochs.
8 Lorata, Gr.
9 Pudens, Guen.

Pseudothyatira, Gr.
10 Cymatophoroides, Guen.

var. Expultrix, Gr.

Habrosyue, Hubn.
11 Scripta, Gosse.

Abrasa, Guen.

NOCTUELITÆ.
(Nonfasciatae.)

DICOPINÆ.

Eutolype, Gr.
12 Rolandi, Gr.

Vernalis, Morr.

Dicopis, Gr.
13 Muralis, Gr.
14 Viridescens, Walk.
15 Electilis, Morr.
16 Depilis, Gr.
17 Thaxterianus, Gr.
18 Damalis, Gr.

Copipanolis, Gr.
19 Cubilis, Gr.

BOMBYCOIDEA.

Audela, Walk.
20 Acronyctoides, Walk.

Leucomelana, Morr.

Platycerura, Pack.
21 Furcilla, Pack.

Charadra, Walk.
22 Propinquilina, Gr.
23 Deridens, Guen.

Contigua, Walk.

Circulifera, Walk.
24 Dispulla, Morr.
25 Palata, Gr.

Raphia, Hubn.
26 Abrupta, Gr.
27 Frater, Gr.

Personata, Walk.

Feralia, Gr.
28 Jocosa, Guen.

Momaphana, Gr.
29 Comstocki, Gr.

Diphthera, Hubn.
30 Fallax, H.-S.

Apatela, Hubn.

§ Triaena.
31 Vinnula, Gr.
32 Paupercula, Gr.
33 Exilis, Gr.
34 Grisea, Walk.
35 Tritona, Hubn.
36 Falcula, Gr.
37 Alfrufa, Gr.

Walkeri, Andr.
38 Dentata, Gr.
39 Occidentalis, G. & R.
40 Telum, Guen.
41 Lobellæ, Guen.
42 Morula, G. & R.
43 Furcifera, Guen.
44 Hasta, Guen.
45 Tota, Gr.
46 Thoracica, Gr.
47 Interrupta, Boisid.
48 Quadrata, Gr.
49 Radcliffeli, Harv.
50 Spinigera, Guen.
In form and vestiture near to Polygrammate, differing from all the Bryophilid genera in the cut on external margin below apices of the fore wings.
117 Perconflua, Gr.
118 Rosaria, Gr.
119 Viralis, Gr.
120 Esurialis, Gr.
121 Quarta, Gr.
122 Hilliana, Harv.
123 Elimata, Guen.
124 Fishii, Gr.
125 Baja, S. V.
126 Normaniana, Gr.
127 Conchis, Gr.
128 Mirabilis, Gr.
129 C-nigrum, Linn.
130 Bicarnea, Guen.
131 Innotabilis, Gr.
132 Washingtoniensis, Gr.
133 Treatii, Gr.
134 Juncta, Gr.
135 Haruspica, Gr.
136 Sierae, Harv.
137 Mercenaria, Gr.
138 Inconcinna, Harv.
139 Auxillaris, Gr.
140 Perexcellens, Gr.
141 Gularis, Gr.
142 Dapsilis, Gr.
143 Immixta, Gr.
144 Woecki, Mieschl.
145 Docilis, Gr.
146 Okakensis, Pack.
147 Umbrata, Pack.
148 Spissa, Guen.
149 Fennica, Tausch.
150 Evanidalis, Gr.
151 Subgothica, Harv.
152 Tricosa, Linn. *
153 Herilis, Gr.
154 Plecta, Linn.
155 Ochrogaster, Guen.
156 Vittifrons, Gr.
157 Obeliscoides, Guen.
158 Lacunosa, Morr.
159 Insularis, Gr.
160 Costata, Gr.
161 Idahoensis, Gr.
162 Formalis, Gr.
163 Facula, Gr.
164 Emarginata, Gr.
165 Exsertistigma, Morr.
166 Observabilis, Gr.
167 Bicollaris, Gr.
168 Lætula, Gr.
169 Cupidissima, Gr.
170 Cupida, Gr.
171 Alternata, Gr.
172 Variata, Gr.
173 Varix, Gr.
174 Orbis, Gr.
175 Minimalis, Gr.
176 Placida, Gr.
177 Discoizalis, Gr.
178 Brunneicolalis, Gr.
179 Clandestina, Harris.
180 Havillae, Gr.
181 Messoria, Harris.
182 Scandens, Riley.
183 Murzenula, G. & R.
184 Bostoniensis, Gr.
185 Dolis, Gr.
186 Catena, Gr.
187 Choris, Harv.
188 Atrifera, Gr.
189 Vernilis, Gr.
190 Imperita, Huën.
191 Speciosa, Huën.
192 Euroides, Gr.
193 Milleri, Gr.
194 Vocalis, Gr.
195 Hollemani, Gr.
196 Silens, Gr.
197 Albalis, Gr.
198 Cloanthoides, Gr.
199 Infimatis, Gr.
200 Lagena, Gr.
201 Biclavis, Gr.
202 Pluralis, Gr.
203 Brocha, Morr.
204 Pitychrous, Gr.
205 Nivevenosa, Gr.
206 Olivalis, Gr.
207 Quadridentata, G. & R.
208 Cicatricosa, G. & R.
209 Recula, Harv.

* This form should, perhaps, bear Guenee's name, being later separated from Guenee's Jaculifera than Herilis. The typical form of Jaculifera exactly corresponds to Subgothica of Stephens.
210 Ridingsiana, Gr.
211 Lewisii, Gr.
212 Tessellata, Harris.
213 Versipellis, Gr.
214 Colata, Gr.
215 Campestris, Gr.
    var. Decolor, Morr.  
? M. Declarat a, Walk.
216 Albipennis, Gr.
    var. Gigtipennis, Gr.
217 Redimicula, Morr.
218 Verticalis, Gr.
218 Tesselloides, Gr.
219 Stigilis, Gr.
220 Geniculata, G. & R.
221 Collaris, G. & R.
222 Badinodis, Gr.
223 Apposita, Gr.
224 Bollii, Gr.
                  Hilaris, Gr.
225 Hero, Morr.
226 Atrifrons, Gr.
227 Piscipellis, Gr.
228 Citricolor, Gr.
229 Perpolita, Morr.
230 Velleripennis, Gr.
231 Pastoralis, Gr.
232 Fauna, Morr.
233 Baliniiis, Gr.
234 Cochraniis, Riley.
                  Repentis, G. & R. Guen. MS.
235 Friibilis, Gr.
236 Infracula, Morr.
237 Fusigera, Gr.
238 Brunneigera, Gr.
239 Rubefactalis, Gr.
240 Satis, Harv.
241 Microrny, Gr.
242 Plagigera, Morr.
243 Fumalis, Gr.
244 Comosa, Morr.
245 Rileyanal, Morr.
246 Feniscena, Harv.
247 Littoralis, Pack.
248 Intrita, Morr.
249 Carissima, Harv.
250 Eriensis, Gr.
251 Rava, H.-S.
252 Fusca, Boisdt.
                  Septentrionalis, M.
253 Oblata, Morr.
254 Opipara, Morr.*  
                  Islandica, Moesch.
255 Dissona, Moesch.
256 Worthingtoni, Gr.
257 Sublatis, Gr.
258 Munis, Gr.
259 Violaris, G. & R.
260 Wilsonii, Gr.
261 Aequalis, Harv.
262 Specialis, Gr.
263 Basalis, Gr.
264 Mimallonis, Gr.
                  Rufipennis, Gr.
265 Gagates, Gr.
266 Catherinea, Gr.
                  Manifestolabes, Morr.
267 Monochromatea, Morr.†  
268 Manifesta, Morr.
269 Staudingeri, Moesch.
270 Westermannia, Staud.
271 Drewseni, Staud.
272 Olivia, Morr.
273 Hortulana, Morr.
274 Tristicipala, Morr.
275 Orthogonia, Morr.
276 Fernaldi, Morr.
277 Morrisoniana, Riley.
278 Gladiaria, Morr.
279 Acclivis, Morr.
280 Venerabilis, Walk.
                  Incallida, Walk.
281 Volubilis, Harv. ††  
282 Stigmoma, Morr.
283 Vancouverensis, Gr.
284 Semiclara, Gr.
285 Gravis, Gr.
286 Vapularis, Gr.
287 Aeneipennis, Gr.
288 Opaca, Harv.
289 Nanalis, Gr.
290 Clodiana, Gr.
291 Annexe, Tr.
292 Malefida, Guen.
293 Ypsilon, Rott.
                  Sulfusa, S. V.
                  Tellifera, Harr.
                  var. Idonea, Cram.

* This species from Mr. Washington is identical with the Labradorian species determined by Moescher as Islandica. But I have doubts, since seeing an Icelandic specimen, as to whether Moescher is right. In restoring Opipara for this species, I do not in the slightest way change my opinion as to the identity of the Mt. Washington and Labradorian species.

† I have seen the type of this species in coll. Bost. Soc. N. Hist. It is otherwise unknown to me.

The description is slight (Proc. B. S. N. H 165, 1874). Afterwards I saw the type of Mythimna Sulphurea, Walk, in Brit. Mus., and it suggested this species of Mr. Morrison's.

†† Mr. Morrison was strongly of opinion that his Stigmoma is a distinct species, which I had doubted at first. Afterwards the differences seemed to me constant. Stigmoma is, however, of later publication than Volubilis, which latter name must stand for the species in case Stigmoma proves to be a variety. In fact, Mr. Morrison compares it in his original description with Volubilis and Gravis. This does not deter the authors of the Brooklyn Check List, who also place Oncomenmis Chandleri as a variety of Riparia, which latter was originally published as a variety of Chandleri.
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Saucia, *Humb.*

_Inermis*, Harr.

_Orthonii*, Pack.


295 Texana, *Gr.*

296 Pellucidalis, *Gr.*


§ *Anicla*, *Gr.*

298 Incivis, *Guen.*

Alabamae, *Gr.*

299 Lubricans, *Guen.*

300 Caenis, *Gr.*

301 Simplicia, *Morr.*

Simplicius, *Morr.*

302 Nigrovittata, *Guen.*

303 Pyrophiloides, *Harr.*

§ *Eurois.*

304 Trabalis, *Gr.*

305 Pressa, *Gr.*

306 Prasina, *Fabr.*

Herbida, *Hubn.*

307 Occulta, *Hubn.*

308 Astricta, *Morr.*


§

310 Sculptus, *Gr.*

Anytus, *Gr.*


311 Sculptilis, *Harr.*

312 Chortalis, *Harr.*

314 Aratrix, *Harr.*

315 Parentalis, *Gr.*

316 Decipiens, *Gr.*

Pachnotia, *Guen.*

317 Alaskae, *Gr.*

318 Carnea, *Thunb.*

Scopulana, *Morr.*

319 Salicarum, *Barnst.*

Orilliana, *Gr.*


Agrotiphila, *Gr.*


Eucoptocenemis, *Gr.*

321 Fimbriaris, *Guen.*

Adita, *Gr.*

322 Chionanthi, *A.* & *S.*

323 Enthea, *Gr.*

Fishia, *Gr.*

Polyphænis, *Boisd.*

324 Herbaccea, *Guen.*

Mamme, *Ochs.*

325 Purpurissata, *Gr.*

326 Nimbosa, *Guen.*

327 Discalis, *Gr.*

328 Imbrifera, *Guen.*

329 Latex, *Guen.*

330 Conditia, *Guen.*

331 Adjuncta, *Boisd.*

332 Lubens, *Gr.*

Rufula, *Morr.*

333 Beanii, *Gr.*

334 Legitima, *Gr.*

335 Liquida, *Gr.*

336 Lilacina, *Harr.*


337 Noverca, *Gr.*

338 Goodellii, *Gr.*


342 Vindemialis, *Guen.*


343 Picta, *Harr.*

C. Exusta, *Guen.*

M. Contraria, *Walk.*

344 W-album, *Guen.*

345 Farnhamii, *Gr.*

346 Grandis, *Boisd.*

347 Nevadae, *Gr.*

348 Subjuncta, *G.* & *R.*

349 Atlantica, *Gr.*

Discolor, *Spey.*

350 Dimmockii, *Gr.*

351 Distincta, *Humb.*

*Diocis Vitis*, *French.*

352 Bisulca, *Gr.*

353 Mucens, *Hubn.*

354 Confusa, *Hubn.*

355 Crotchii, *Gr.*


357 Trifolii, *Rott.*

Chenopodi, *S.* V.

Albifusa, *Walk.*

var. Oregonica, *Gr.*

var. Major, *Spey.*

358 Defessa, *Gr.*

359 Chartaria, *Gr.*

360 Pensilis, *Gr.*

361 Vicina, *Gr.*

Tetigera, *Morr.*

362 Anguina, *Gr.*

363 Acutipennis, *Gr.*

364 Capsularis, *Guen.*

365 Detracta, Walk.
366 Cuneata, Gr.
367 Brachiolum, Harv.
368 Marinitincta, Harv.
369 Laudabilis, Guen.
370 Quadrilineata, Gr.
371 Cuneata, Gr.
372 Brachiolum, Harv.
373 Comis, Gr.
374 Sutrina, Gr.
375 Lustralis, Gr.
376 Meditata, Gr.
377 Innexa, Gr.
378 Renigera, Steph.
379 Herbimactila, Guen.
380 Olivacea, Morr.
381 Alboguttata, Gr.
382 Comis, Gr.
383 Sutrina, Gr.
384 Lustralis, Gr.
385 Meditata, Gr.
386 Innexa, Gr.
387 Rogenhoferi, Moeschl.
388 Subdita, Moeschl.
389 Phoca, Moeschl.
390 Quadrannulata, Morr.
391 Rogenhoferi, Moeschl.

Luceria, Von Hein.
392 Burgessi, Morr.
393 Delicata, Gr.
394 Passer, Guen.
395 Relicina, Morr.

Hadena, Schrank.
396 Sommern, Leb.
397 Exulis, Leb.
398 Ducta, Gr.
399 Devastatrix (or), Bruck.
400 Separans, Gr.
401 Castanea, Gr.
402 Occidentis, Gr.
403 Arctica, Bois.
404 Bridghamii, G. & R.
405 Violacea, Gr.
406 Exornata, Moeschl.
407 Hultii, Gr.
408 Dubitans, Walk.
409 Sputatrix (or), Gr.
410 Suffusca, Morr.
411 Apamiformis, Guen.
412 Valtuosa, Gr.
413 Cristata, Gr.
414 Lignicolor (a), Guen.
415 Genialis, Gr.
416 Auranticolor, Gr.
417 Cuculliformis, Gr.
418 Verbascoïdes, Guen.
419 Stipata, Morr.
420 Cariosa, Guen.
421 Sectilis, Guen.
422 Vulgaris, G. & R.
423 Idonea, Gr.
424 Patina, Harvey.
425 Semilunata, Grote.
426 Inordinata, Morr.
427 Remissa, Hubn.
428 Finita, Guen.
429 Impulsa, Guen.
430 Discors, Gr.
431 Cinefecta, Gr.
432 Leucoscelis, Gr.
433 Olorina, Gr.
434 Hillii, Gr.
435 Algens, Gr.
436 Vigilans, Gr.
437 Senescens, Gr.
438 Diversicolor, Morr.
439 Mactata, Guen.
440 Turbulenta, Huén.
441 Indirecta, Gr.
442 Divesta, Gr.
443 Tusa, Gr.
444 Tonsa, Gr.
445 Chryselectra, Gr.
446 Characta, Gr.
447 Genitrix, Gr.
448 Adnixa, Gr.
449 Semilunata, Morr.
450 Binotata, Walk.

Psuedanarta, Hy. Edw.
465 Flava, Gr.
466 Singula, Gr.
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**Oligia**, Hubn.
467 Flavidens, Gr.
468 Aurea, Gr.
469 Chalcedonia, Hubn.
470 Versicolor, Gr.
471 Festivoides, Guen.
472 Arna, Guen.
473 Exesa, Guen.
474 Paginata, Morr.
475 Fuscinacula, Gr.

**Perigea**, Guen.
476 Iole, Gr.
477 Xanthioides, Guen.
478 Infelix, Guen.
479 Luxa, Gr.
480 Fabrefacta, Morr.
481 Falsa, Gr.
482 Albolabes, Gr.
483 Loculosa, Gr.
484 Niveirena, Harvey.
485 Orbica, Morr.
486 Mersa, Morr.
487 Proxima, Morr.

**Dipterygia**, Steph.
488 Scabriuscula, Linn.
Pinastri, Linn.

**Hyppa**, Dup.
489 Xylinoides, Guen.
Contraria, Walk.
Ancociscenesis, Morr.

**Valeria**, Germ.
490 Grotei, Morr.
491 (?) Conserta, Gr.

**Arthrochlora**, Gr.
492 Februalis, Gr.

**Homohadena**, Gr.
493 Atrifasciata, Morr.
494 Chorda, Gr.
495 Badistriga, Gr.
496 Kappa, Gr.
497 Figurata, Harv.
498 Induta, Harv.
499 Incomitata, Harv.
500 Fottis, Gr.
501 Picina, Gr.

**Oncocnemis**, Led.
502 Hayesi, Gr.
503 Dayi, Gr.
504 Mirificalis, Gr.
505 Behrensii, Gr.
506 Levis, Gr.
507 Glenyi, Gr.
508 Meadiana, Morr.
509 Homogena, Gr.
510 Oblita, Gr.
511 Augustus, Harv.
512 Chandleri, Cr.
513 Riparia, Morr.
514 Major, Gr.
515 Aqualis, Gr.
516 Cibalis, Gr.
517 Gracillima, Gr.
518 Saundersiana, Gr.
519 Occata, Gr.
520 Atricollaris, Harv.
521 Griseicollis, Gr.
522 Aterrima, Gr.

**Aporophyla**, Guen.
523 (?) Yosemite, Gr.

**Pachypolia**, Gr.
524 Atricornis, Gr.

**Polia**, Tr.
525 Acutissima, Gr.
526 Medialis, Gr.
527 Illepidia, Gr.
528 Contacta, Walk.
Asperea, Morr.
Diffusilis, Harv.
529 Pallifera, Gr.
530 Speciosa, Morr.
531 Confragosa, Morr.
532 Aedon, Gr.
533 Theodori, Gr.
534 Epichysis, Gr.

**Dryobota**, Led.
535 Stigmata, Gr.
536 Opina, Gr.

**Actinotia**, Hubn.
537 Ramosula, Guen.
538 Stewarti, Gr.

**Laphygma**, Guen.
539 Frugiperda, A. & S.
Autumnalis, Riley.
var. Fulvosa, Riley.
var. Obscura, Riley.
Prodenia, Guen.
540 Commelinae, A. & S.
541 Flavimedia, Harv.
542 Lineatella, Harv.
543 Praelica, Gr.
544 Phytolacceae, A. & S.
545 Ornithogallii, Guen.

Eupsephoparctes, Gr.
546 Procinctus, Gr.

Conservula, Gr.
547 Anodonta, Guen.

Trigonophora, Hubn.
548 Periculosa, Guen.
549 Lucipara, Linn.
550 Iris, Guen.

Nephelodes, Guen.
551 Minians, Guen.
552 Semiaperta, Morr.
553 Fistula, Harvey.

Helotropha, Led.
554 Reniformis, Gr.
555 Purpuripennis, Gr.
556 Sera, G. & R.
557 Juvenilis, Gr.
558 Nictitans, Bkh.
559 Erepta, Gr.
560 Immanis, Guen.
561 Obliqua, Harv.
562 Stramentosa, Guen.

Gortyna, Hubn.
563 Quesita, G. & R.
564 Cerina, Gr.
565 Rigida, Gr.
566 Impequiusosa, Gr.
567 Cataphrae, Gr.
568 Purpuriisfascia, G. & S. R.
569 Rutila, Guen.
570 Harrisii, Gr.
571 Speciesissima, G. & S. R.
572 Marginidens, Guen.
573 Limpida, Guen.
574 Cerussata, Gr.
575 Appassionata, Harvey.
576 Nitula, Guen.
577 Necopina, Gr.

Oebria, Hubn.
578 Serrata, Gr.

Oebria, Hubn.
579 Sauzalite, Gr.
580 Buffaloensis, Gr.

Achatodes, Guen.
581 Zeze, Harris.
582 Obliquata, G. & S. R.

Nonagriniæ.

Sphida, Gr.
583 Diffusa, Gr.

Arzama, Walk.
584 Vulpina, Gr.
585 Melanopyga, Gr.

Nonagria, Ochs.
586 Diffusa, Gr.

Macronoctua, Gr.
587 Subflava, Gr.
588 Vulnifica, Gr.
589 Inquinata, Guen.
590 Laeta, Morr.
591 Obronga, Gr.

Adactovis, Gr.
592 Obronga, Gr.

Lathoscia, Gr.
593 Pulla, Gr.
Euthisania, Gr.
596 Timais, Cram.
Regnatrix, Gr.

Scoliocampa, Guen.
597 Liburna, Geyer.
598 Bipuncta, Morr.

Cilia, Gr.
599 Distema, Gr.

Amolita, Gr.
600 Fessa, Gr.

Doryodes, Guen.
601 Acutaria, H.-S.
? Bistriaris, Geyer.
602 Spadaria, Guen.

Monodes, Guen.
603 Nucicolora, Guen.

Sentia, Steph.
604 Defecta, Gr.

Platyseta, Gr.
605 Atticilia, Gr.
? Videns, Guen.
? Meskei, Spey.
? Indigens, Walk.
606 Angustiorata, Gr.

Tapinostola, Led.
607 Variana, Morr.
608 Orientalis, Gr.

Ommatostola, Gr.
609 Lintneri, Gr.

Heliophila, Hubn.
610 Pallens, Linn.
611 Oxyla, Gr.
612 Praegracilis, Gr.
613 Patricia, Gr.
614 Bicolorata, Gr.
615 Pertracta, Morr.
616 Rubripennis, G. & R.
617 Nigrofasciata, Halst.

618 Rufostrigata, Pack.
619 Alblinea, Hubn.
Harveyi, Gr.
Diffusa, Walk.
620 Ligata, Gr.
621 Dia, Gr.
622 Amygdalina, Harv.
623 Lapidaria, Gr.
624 Phragmidicola, Guen.
625 Adjuta, Gr.
626 Faceta, Gr.
627 Adonea, Gr.
628 Commoides, Guen.
Multiplia, Walk, i.l.
629 Flabulis, Gr.
630 Scirpicola, Guen.
631 Junecola, Boisd.
632 Linita, Guen.
633 Insucta, Guen.
634 Extincta, Guen.

635 Unipuncta, Haw.
Extranea, Guen
636 Subpunctata, Harvey.

637 Pilipalpis, Gr.
638 Pseudargyria, Guen.
var. Callida, Gr.

639 Ebriosa, Guen.
640 Obusta, Guen.*

Zosteropoda, Gr.
641 Hirtipes, Gr.

Uficus, Gr.
642 Satyricus, Gr.
643 Plicatus, Gr.
644 Unicolor, Gr.

Pteroscia, Morr.
645 Atrata, Morr.

Pyrophilinae.

Caradrina, Tr.
646 Tarda, Guen.
647 Miranda, Gr.
648 Meralis, Morr.
Bilunata, Gr.
649 Derosa, Morr.
650 Multifera, Walk.
Fidicularia, Morr.
651 Flavimaculata, Harv.
652 Clara, Harv.
653 Subaquila, Harv.
654 Conviva, Harv.

*In the B. Mus, the species of Leucania are badly arranged by Mr. Walker, whose species of Mythimna do not belong here, but to Agrotis, etc. The types (?) of Guenee's Ebriosa and Obusta do not refer to the red form (Callida m.) of Pseudargyria. Some of Guenee’s species are probably cited under other names here; but I cannot identify any of the five here cited after Flabulis.
Pyrophila, Hubn.
655 Tragopoginis, Linn.
Repressus, Gr.
656 Glabella, Morr.
657 Pyramidoidea, Guen.
var. Inornata, Gr.
aberr. Conspersa, Riley.

TENIOCAMPA, E.

Orthodes, Guen.
658 Infirma, Guen.
659 Cynica, Guen.
Ninia, Guen.
Condens, Guen.
660 Encris, Guen.
Vecors, Guen.
var. Griseocincta, Harv.

Himella, Gr.
661 Intratata, Morr.
Fidelis, Gr.

TENIOCAMPA, Guen.*
662 Agrotiformis, Gr.
663 Thecata, Morr.
Contrahes, Walk, MS.
664 Furfurata, Gr.
665 Consopita, Gr.
666 Rufala, Gr.
667 Oviduca, Guen.
668 Capsella, Gr.
var. prec.?
669 Orobia, Harv.
660 Puerilis, Gr.
671 Perbrunnea, Gr.
672 Modesta, Morr.
673 Farina, Morr.
674 Revicta, Morr.
675 Modifica, Morr.
676 Incerta, Hubn.
Alia, Guen.
Conflens, Morr.
677 Pacifica, Harv.
678 Garmani, Gr.
679 Arthrotila, Harv.
680 Pulchella, Harv.
681 (?) Vegeta, Morr.

Perigrapha, Led.
682 Normalis, Gr.
683 Muricina, Gr.
684 Behrensiana, Gr.
685 Plusiformis, Hy. Edw.†
686 Erythrrolata, Gr.
686½ Transparens, Gr.
687 Praeses, Gr.

Crocigrapha, Gr.
688 Normani, Gr.

Xylomiges, Guen.
689 Hiemalis, Gr.
California, Behr.
690 Curialis, Gr.
691 Crucialis, Harv.
692 Paralis, Gr.
693 Tabulata, Gr.
694 Rubrica, Harv.
695 Perlubens, Gr.
696 Dolosa, Gr.

Auchocelis, Guen.
697 Digitalis, Gr.

Morrisonia, Gr.
698 Evicta, Gr.
699 Vomerina, Gr.
700 Inquadris, Gr.
701 Peracuta, Morr.

Parastichitis, Hubn.
702 Gentilis, Gr.
Discivaria, Walk.
703 Perbellis, Gr.
704 Minuscula, Morr.

ORTHOSINE.

Metalopsis, Gr.
705 Cornuta, Gr.

Pseudorthosia, Gr.
706 Variabilis, Gr.
707 Pectinata, Gr.

Choephora, G. & R.
708 Fungorum, G. & R.

Pseudoglava, Gr.
709 Taedata, Gr.
710 Blanda, Gr.
711 Decepta, Gr.

Mythimna, Ochs.
712 Culea, Guen.

* This genus is identical with Graphiphora of Hubner as used by myself. While I have no doubt that this is the correct designation for the genus, the fact that Graphiphora has been used in quite different senses by authors in the group, leads me to drop the term as liable to cause confusion.
† Under the name Stretchia, Mr. Hy. Edwards describes this as type of a new genus of Netodontiae.
The type of *Interta*, I think, will prove to be a European and not an American example. It is possible that the Southern form is only a variety of *Pleonectusa*.

I follow Stephens in taking this older name instead of the equivalent term *Orrhodis* of the same author. Not only is *Glæa* more euphonious, but it has priority, while both names are Hubner’s.
772 Georgii, Gr.
773 Antennata, Walk.
    Cineria, Riley.
774 Laticineria, Gr.
775 Cinerosa, Gr.
776 Unimoda, Linbn.
777 Tepida, Gr.
778 Baileyi, Gr.
779 Viridipallens, Gr.
780 Querqueru, Gr.
781 Lepida, Linbn.
782 Pexata, Gr.
783 Thaxteri, Gr.
784 Capax, G. & R.
785 (?) Carbonaria, Harv.

Lithomia, Hubn.
786 Germana, Morr.

Calocampa, Steph.
787 Nupera, Linbn.
788 Cineritia, Gr.
789 Curvimacula, Morr.

Cucullinæ.

Cleophaena, Boisd.
790 Eulepis, Gr.
791 Antipoda, Sirk.

Cucullia, Schr.
792 Convexipennis, G. & R.
793 Astroideus, Guen.
794 Postera, Guen.
795 Florea, Guen.
796 Intermedia, Spty.
797 Speyeri, Linbn.
798 Lastica, Linbn.
799 Luna, Morr.
800 Serraticornis, Linbn.
    Matricaria, Behr.

Nolaphanæ.
Adipsophanes, Gr.
801 Miscellus, Gr.

Crambodes, Guen.
802 Talidiformis, Guen.

Notaphana, Gr.
803 Malana, Fitch.
804 Triquetranita, Fitch.
805 Zelleri, Gr.
806 Labecula, Gr.

Anomiinæ.
Anomia, Hubn.
807 Erosa, Hubn.
808 Luridula, Guen.
809 Exacta, Hubn.

Pterætholix, Gr.
810 Bullula, Gr.

Chytoryza, Gr.
811 Tecta, Gr.

Alecia, Hubn.*
812 Argillacea, Hubn.
    Xylina, Say.
813 Hostia, Harvey.

Litoprosopinæ.

Litoprosopus, Gr.
814 Futilis, G. & R.
815 Confligens, Walk.

Eutelinæ.
Entelia, Hubn.
816 Pulcherrima, Gr.

Marasmalus, Gr.
817 Ventilator, Gr.
818 Histrio, Gr.

Ingurinæ.
Ingura, Guen.
819 Abrostoloides, Guen.
820 Delineata, Guen.
821 Declinata, Gr.
822 Pygmaea, Hubn.
823 Praepilata, Gr.
824 Oculatrix, Guen.
825 Flabella, Gr.

* Prof. Riley doubts that Hubner's figure represents the Cotton Worm Moth, but the outline and color are accurate. The "white dots" are not distinct in caught specimens, and the discal marks, while inaccurately given by the engraver, are sufficiently suggestive of the real markings. It is disingenuous of Prof. Riley to quote a Bahia species as if he had the real Argillaceæ, but hesitates to make the identification. What does Hubner's figure cover, if not our species? The figure of Albilínea, although much more doubtful, is accepted; why is Argillacea rejected?
**CALPINÆ.**

**Calpe, Tr.**

826 Canadensis, Beth.  
*Purpurascens*, Walk.  
*Sobria*, Walk.

**Plusiodonta, Guen.**

827 Compressipalpis, Guen.

**Basilodes, Guen.**

828 Pepita, Guen.  
829 Chrysopsis, Gr.

**Hemiceras, Guen.**

830 Cadmia, Guen.

**Phiprosopus, Grote.**

831 Callitrichoides, Gr.  
*Navataviria*, Zell.

**Hypsorophia, Hubn.**

832 Monilis, Fabr.  
833 Hormos, Hubn.

**PLINUSINÆ.**

**Telesilla, H.-S.**

834 Cincerea, Guen.  
835 Navia, Harv.

**Diastema, Guen.**

836 Tigrina, Guen.

**Behrensia, Gr.**

837 Conchiformis, Gr.

**Abrostola, Ochs.**

838 Ovalis, Guen.  
839 Urentis, Guen.

**Deva, Walk.**

840 Purpurigera, Walk.  
841 Palligera, Gr.

**Plusia, Fabr.**

842 Aerea, Hubn.  
843 Aereoides, Gr.  
844 Balluca, Gey.  
845 Metallica, Gr.

846 Contexta, Gr.  
847 Putnami, Gr.  
848 Striatella, Gr.  
849 Formosa, Gr.  
850 Thyatiroides, Guen.  
851 Mappa, G. & R.  
852 Bimaculata, Steph.  
*U-Brevius*, Guen.

853 Biloba, Steph.  
854 Howardi, Hy. Ed.  
855 Verruca, Fabr.  
856 Dyanus, Gr.  
857 Precationis, Guen.  
858 Laticlavia, Mprov.  
859 Labrosa, Gr.  
860 Monodon, Gr.  
861 Pseudogamma, Gr.  
862 Californica, Spey.  
863 Ou, Guen.  
864 Fratella, Gr.  
865 Pedalis, Gr.  
866 Ni, Hubn.

**Brassica, Riley.**

867 Oxygramma, Gey.  
868 Celsa, Hy. Edw.  
869 U-Aureum, Boisd.  
870 Mortuorum, Guen.  
871 Octoscripta, Sanborn.  
872 Viridisignata, Gr.  
873 Epigaea, Gr.  
874 Sura, Gr.  
875 Ampila, Walk.  
876 Selecta, Walk.  
877 Simplex, Guen.  
878 Pasithesia, Gr.  
879 Echinocystis, Behr.  
880 Diasema, Dalm.  
881 Parilis, Hubn.  
882 Sackenii, Gr.  
883 Alticola, Walk.  
884 Ignica, Gr.  
885 Hochenwarthi, Hoch.  
886 Divergens, Fabr.  
887 Bivalvata, Hubn.  

**Anarta, Ochs.**

884 Acadiensis, Beth.  
*Myrtilli, L.*  
885 Cordigera, Thunb.  
*Luteola*, G. & R.  
886 Melaleuca, Thunb.  
*Bicycla*, Pack.  
887 Melanopa, Thunb.  
*Nigrolunata*, Pack.  
888 Quadrilunata, Gr.  
889 Subfuscula, Gr.  
890 Schoenherri, Zett.  
890 Leucochrysa, Staud.

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*Other names which cannot be made out without an examination of types are *Oniceron, Linn.  
*Fallicera and Rectangulum of Kirby and Indigna, Flagellum and fecundus of Walker.*
891 Richardsoni, Curt.
892 Promulsa, Morr.
893 Nivaria, Gr.
894 Membranacea, Morr.
895 Lapponica, Thunb.
896 Zetterstedtii, Staud.
897 Kelloggii, Hy. Edw.

**Lepipolys**, Guen.
898 Perscripta, Guen.

**STIRINÆ.**

**Stibadium**, Gr.
899 Spumosum, Gr.
900 Aureolum, Hy. Edw.

**Stiria**, Gr.
901 Rugifrons, Gr.

**Acopa**, Harv.
902 Carina, Harv.
903 Perpalida, Gr.
904 Incana, Hy. Edw.

**Fala**, Gr.
905 Ptychophora, Gr.

**Plagiomimicus**, Gr.
906 Pityochromus, Gr.
907 Tepperi, Morr.

**HELIOTHINÆ.**

**Schinia**, Hubn.
908 Trifascia, Hubn.
909 Rectifascia, Gr.
910 Gracilenta, Hubn.
**Imperspicua**, Streck.
911 Bifascia, Hubn.
912 Buxea, Gr.
913 (?) Guluare, Strk.

**Tricopsis**, Gr.
914 Chrysellus, Gr.
915 Aleucus, Harv.

**Euleucyptera**, Gr.
916 Cumatilis, Gr.
**Sulmala**, Strk.

**Antaplaga**, Gr.
917 Dimidiata, Gr.

**Triocenemis**, Gr.
918 Saporis, Gr.

**Pippona**, Harvey.
919 Bimatris, Harv.

**Epinyctis**, Gr.
920 Notatella, Gr.

**Grotella**, Harv.
921 Septempunctata, Harv.
922 Sexseriata, Gr.

**Bessula**, Gr.
923 Luxa, Gr.

**Oxylos**, Gr.
924 Citrinellus, G. & R.

**Chloridea**, Westw.
925 Rhexia, Ab. & S.
**Specianda**, Strk.
926 Subflexa, Guen.

**Porrima**, Gr.
927 Sanguinea, Gey.

**Alaria**, Westw.
928 Gaurae, Ab. & Sm.

**Rhodophora**, Guen.
929 Florida, Guen.

**Rhododipsa**, Gr.
930 Volupia, Gr.
931 Miniana, Gr.

**Derrima**, Walk.
932 Stellata, Walk.
933 Henrietta, Gr.

**Tamila**, Guen.
934 Nundina, Drury.
935 Meadi, Gr.
936 Tertia, Gr.
937 Velaris, Gr.
938 Vanella, Gr.
Melaporpliyria, Gr.
939 Immortua, Gr.

Euors, Hy. Edw.
940 Proprius, Hy. Edw.
941 Celeris, Gr.

Heliolonche, Gr.
942 Modicella, Gr.

Heliophana, Gr.
943 Mitis, Gr.

Heliosea, Gr.
944 Pictipennis, Gr.

Adonisea, Gr.
945 Pulchripennis, Gr.
var. Languida, Hy. Edw.

Melicleptria, Hubn.
946 Nexilis, Morr.
947 Elaborata, Hy. Edw.
948 Perminuta, Hy. Edw.
949 Diminutiva, Gr.
950 Villosa, Gr.
\textit{Pauxilla}, Gr.
951 Persimilis, Gr.
952 Sueta, Gr.
953 Californiensis, Gr.
954 Honest, Gr.
955 Oregonica, Hy. Edw.
956 Fasciata, Hy. Edw.
957 Vaccinie, Hy. Edw.
958 Prorupta, Gr.
\textit{Venusta}, Hy. Edw.
959 Belladonna, Hy. Edw.
960 Hoyi, Gr.

Heliothis, Hubn.
961 Arniger, Hubn.
\textit{Umbrus}, Gr.
962 Phlogopnagus, G. \& R.
var. Luteitinicus, Gr.
var. Interjacens, Gr.
963 Lupatus, Gr.
964 Cupes, Gr.
965 Nuchalis, Gr.*
966 Lucens, Morr.

Heliochilus, Gr.
967 Paradoxus, Gr.

Lygranthœcia, Gr.
968 Rivulosa, Guen.
Marginata, Haw.
Divægens, Walk.
Designata, Walk.
Contracta, Walk.
969 Thoreau, G. \& R.
970 Constricta, Hy. Edw.
971 Saturata, Gr.
\textit{Rubiginosa}, Strk.
972 Ultima, Strk.
973 Walsinghami, Hy. Edw.
974 Parmeliana, Hy. Edw.
975 Acutilinea, Gr.
976 Separata, Gr.
977 Coercta, Gr.
978 Regia, Strk.
979 Balba, Gr.

Anthœcia, Guen.
980 Roseiincta, Harv.
981 Tuberculum, Hubn.
982 Inclara, Strk.
983 Lynx, Guen.
984 Bina, Guen.
985 Brevis, Gr.
var. Atrites, Gr.
986 Limbalis, Gr.
987 Scissa, Gr.
988 Arcifera, Guen.
989 Spraguei, Gr.
990 Packardi, Gr.
991 Mortua, Gr.
992 Nobilis, Gr.
993 Jaguaria, Guen.
994 Meskeaana, Gr.
\textit{Spectanda}, Strk.
995 Ruifmedia, Gr.
996 Tumida, Gr.

Pyrrhia, Hubn.
997 Exprimens, Walk.
\textit{Umbra}, Hubn.
998 Angulata, Gr.
\textit{Exprimens}, Spey.
999 Stilla, Gr.

Chariclea, Kirby.
1000 Triangulifera, Gr.
1001 Pernana, Gr.

*When our species are compared with the European, it may result that \textit{Phlogopnagus}, and its yellow-winged variety \textit{Luteitinicus}, is not different from the European \textit{Diptea}ca and \textit{Maritima}; also \textit{Nuchalis} from \textit{Scutosa}. \textit{Cupes} and \textit{Lupatus} are quite distinct from any European species I have seen; \textit{Lucens} may not really belong to this genus.
Ædophron, Led.
1002 Snowi, Gr.

Xanthothrix, Hy. Edw.
1003 Ranulculi, Hy. Edw.

Euedwardsia, Gr.
1004 Neumaegeni, Hy. Edw.

Eustrotonae.

Axenus, Gr.
1005 Arvalis, Gr.
var. Ochraceus, Hy. Edw.
var. Amplus, Hy. Edw.

Annaphila, Gr.
1006 Diva, Gr.
1007 Superba, Hy. Edw.
1008 Divinula, Gr.
1009 Germana, Hy. Edw.
1010 Decia, Gr.
Amicula, Hy. Edw.
1011 Depicta, Gr.
1012 Saliscis, Hy. Edw.
Arvalis, Hy. Edw.
1013 Lithosina, Hy. Edw.
1014 Mera, Harv.
1015 Immerens, Harv.
1016 Danistica, Gr.
1017 Domina, Hy. Edw.
1018 Pastulata, Hy. Edw.
1019 (?) Aurantiaca, Hy. Edw.

Trichotarache, Gr.
1020 Assimilis, Gr.

Tarache, Hubn.
1021 Crustaria, Morr.
1022 Flavipennis, Gr.
1023 Aprica, Hubn.
var. Biplaga, Guen.
1024 Abdominalis, Gr.
1025 Lanceolata, Gr.
1026 Angustipennis, Gr.
1027 Sutrix, Gr.
1028 Tenuicula, Morr.
1029 Erastrioides, Guen.
1030 Candefacta, Hubn.
1031 Debilis, Walk.
1032 Arizone, Hy. Edw.
1033 Elegantula, Harv.
Semiopaca, Gr.
1034 Binocula, Gr.

1035 Cretata, G.-R.
1036 Lactipennis, Harv.
1037 Delecta, Walk.
Metallica, Gr.
1038 Terminimaculata, Gr.
1039 Sedata, Hy. Edw.

Thalpochares, Led.
1040 Carmelita, Morr.
1041 Ætheria, Gr.
1042 Patula, Morr.
Patruelis, Gr.
1043 Mundula, Zell.
1044 Orba, Gr.

Lithacodia, Hubn.
1045 Bellicula, Hubn.

Chamyris, Guen.
1046 Cerinha, Tr.

Eustrotia, Hubn.*
1047 Malaca Gr.
1048 Mitographa, Gr.
1049 Albidula, Guen.
1050 Secta, Gr.
1051 Concinnimaculata, Guen.
var. Parvimaculata, Gr.
1052 Synochitis, G. & R.
1053 Olivula, Guen.
1054 Musta, G. & R.
1055 Muscosula, Guen.
1056 Carneola, Guen.
1057 Apicosa, Harv.
Nigritula, Guen.
Undulifera, Walk.
1058 Retis, Gr.
1059 Caduca, Gr.
1060 Maria, Gr.
Norma, Morr.
Penita, Morr.
1061 Æria, Gr.
1062 Dividua, Gr.

Tripudia, Gr.
1063 Flavofasciata, Gr.
Versitus, Hy. Edw.
1064 Quadrifera, Zell.
1065 Ótipara, Hy. Edw.
1066 Limbata, Hy. Edw.
1066½ Basicinerea, Gr.

Gyros, Hy. Edw.
1067 Muiril, Hy. Edw.

* I cannot use Erastria for this genus, because Hubner uses that term before Treitschke for a genus of Geometridae.
Herrichia, Gr.*
1068 Mollissima, Guen.
        Erest, Rubicunda, Walk.
1069 Monetifera, Guen.
1070 Granitosa, Guen.
1071 Floridensis, Guen.
1072 Argentilinnea, Walk.

Spragueia, Gr.
1073 Onagus, Guen.
1074 Leo, Guen.
        Onagus,† H.-S.
1075 Plumbifimbriata, Gr.
1076 Obatra, Morr.
1077 Pardalis, Gr.
1078 Dama, Guen.
1079 Funeralis, Gr.
1080 Guttata, Gr.
1081 Torticina, Zell.

Fruva, Gr.
1082 Fasciatella, Gr.
1083 Acerba, Hy. Edw.
1084 Obsoleta, Gr.
1085 Apicella, Gr.
        ♀ Transculata, Zell.
        ♂ ♀ Accepta, Hy. Edw.
1086 Georgica, Gr.

Xanthoptera, Guen.
1087 Nigrofimbria, Guen.
1088 Semiflava, Guen.

Exyra, Grote.‡
1089 Semicrocea, Guen.
1090 Ridingsii, Riley.
        Nigrocapul, Morr.
1091 Fax, Grote.
1092 Rolandiana, Gr.

Prothymia, Hubn.
1093 Coccinctifascia, Gr.
1094 Rosalba, Gr.
1095 Orgiae, Gr.
        Subolivacea, Harv.

Lepidomys, Guen.
1096 Irrenosa, Guen.

Metoponia, Dup.
1097 Obtusa, H.-S.
        Obtiusula, Zell.
1098 Perlava, Harv.

Galgula, Guen.
1099 Hepara, Guen.
1100 Subpartita, Guen.
        Vesca, Morr.

Hyblaenæ.

Hyblæa, Fabr.
1101 Puera, Fabr.
        Aenigma Mir. Strk.

Noctuo-Phalænidi.

Brephos, Hubn.
1102 Infans, Moeschl.
        Hamadryas, Harr.

Leucobrephos, Gr.
1103 Brephoides, Walk.
        Resoluta, Zell.

( Fasciatæ.)

CATOCALINÆ.

Drasteria, Hubn.
1104 Erechtea, Cram.
        ♀ Spadix, Cram.
        ♀ Mundula, G. & R.
        Crassiscula, Wood.
        Sobria, Walk.
        Narrata, Walk.
        Amplissima, Walk.
        var. Agricola, G. & R.
        var. Ochrea, Gr.
1105 Erichto, Guen.
1106 Cærulea, Gr.

* Dr. Herrich-Schaeffer, in his Correspondenz Blatt, has shown that this genus is not at all the equivalent of the European Callopiestria (Eriopus Auct.), although the ornamentation resembles that genus, while our species are slenderer and have the habit of Eustrotia. Dr. Herrich-Schaeffer, while drawing attention to this fact, does not name the genus, which I call after one of the ablest of recent European Lepidopterists.

† The student is referred to Can. Ent. XI., 231, for a study of this and related genera. It is probable that the Florida species Pardalis will prove, with so many South Florida moths, to be West Indian also.

‡ The species of this genus are parasitic upon Sarracenia, the Pitcher Plants.
Litosea, Gr.
1107 Convalescens, Guen.
1108 Adversa, Gr.

Hypocala, Guen.
1109 Hillii, Linne.

Euclidia, Hubn.
1110 Cuspidea, Hubn.
1110½ Intercalaris, Gr.

Grammodes, Guen.
1111 Smithii, Guen.
1112 Similis, Boisd.
1113 Consobrina, Guen.

Panula, Guen.
1114 Inconstans, Guen.
1115 Remigipila, Guen.

Litocala, Harv.
1116 Sexsignata, Harv.
var. Deserta, Hy. Edw.

Syceda, Guen.
1117 Hudsonica, G. & R.
1118 Graphica, Hubn.
var. Media, Morr.
1119 Divergens, Behr.
1120 Capitcola, Walk.
1121 Petricola, Walk.
1122 Alleni, Gr.
Saxea, Hy. Edw.
1123 Adumbrata, Behr.
1124 Occulta, Hy. Edw.
1125 Seposita, Hy. Edw.
1126 Socia, Behr.
1127 Ochracea, Behr.
1128 Mirifica, Hy. Edw.
1129 Tejonica, Behr.
1130 Nubicola, Behr.
1131 Maculosa, Behr.
1132 Hastingsii, Hy. Edw.
var. Perpallida, Hy. Edw.
1133 Faceta, Hy. Edw.
1134 Howellandi, Gr.
1135 Ingenuicula, Morr.
1136 Edwardsii, Behr.

Cirrhobolina, Gr.
1137 Deducta, Morr.
♀ Pavitensis, Morr.
1138 Mexicana, Behr.
Incandescent, Gr.
var. Vulpina, Hy. Edw.
1139 Tetrica, Hy. Edw.

Melipotis, Hubn.
1140 Ficciolaris, Hubn.
1141 Sinualis, Harv.
1142 Hadeniformis, Behr.
1143 Agrotipennis, Harv.
1144 Nigrescens, G. & R.
1145 Ochreipennis, Harv.
♀ praece?
1146 Pallescens, G. & R.
1147 Perlata, Hy. Edw.
1148 Limbolaris, Gey.
1149 Tenella, Hy. Edw.

Stictoptera, Guen.
1050 Divaricata, Gr.

Catocala, Schrank.
1151 Epione, Drury.
1152 Saphio, Streek.
1153 Agrippina, Strk.
1154 Subviridis, Harv.
1155 Lacrymosa, Guen.
var. Paulina, Hy. Ed.
var. Emilia, Hy. Ed.
var. Zelica, Fch.
var. Evelina, Fch.
1156 Viduata, Guen.
1157 Desperata, Guen.
1158 Retecta, Gr.
1159 Flebilis, Gr.
1160 Ulalume, Strk.
1161 Robinsonii, Gr.
♀ var. Curvata, Fch.
1162 Obscura, Strk.
♀ var. Simulatilis, Gr.
1163 Insolabilis, Guen.
1164 Angusi, Gr.
1165 Residua, Gr.
1166 Levettei, Gr.
♀ Judith, Strk.
1167 Miranda, Hy. Edw.
1168 Tristis, Edw.
1169 Relicta, Walk.
♀ var. Bianca, Hy. Ed.
♀ var. Phrynia, Hy. Ed.
1170 Californica, Edw.
♀ var. Perdita, Hy. Edw.
♀ var. Cleopatra, Hy. Ed.
1171 Nebraskae, Dodge.
♀ var. Somnus, Dodge.
1172 Luciana, Hy. Ed.
1173 Juncuta, Walk.
♀ Walshii, Edw.
1174 Arizona, Gr.
1174½ Aspasia, Strk.
1175 Augusta, Hy. Ed.
1176 Amatrix, Hubn.
♀ Nurus, Walk.
1177 Cara, Guen.
♀ var. Sylvia, Hy. Ed.
♀ var. Carissima, Hulst.
Concumbens, Walk.  
var. Diana, Hv. Edw.

Meskei, Gr.

Rosalinda, Hy. Edw.

Unijuga, Walk.

Beaniana, Gr.

Grotiana, Bailey.

Briseis, Edw.

Pura, Hulst.

Semirelecta, Gr.

Irene, Behr.

var. Virgilia, Hy. Ed.

var. Volumnia, Hy. Ed.

var. Valeria, Hy. Ed.

Meskei, Gr.

Rosalinda, Hy. Edw.

Unijuga, Walk.

Beaniana, Gr.

Grotiana, Bailey.

Briseis, Edw.

Pura, Hulst.

Semirelecta, Gr.

Irene, Behr.

var. Perplexa, Strk.

Faustina, Strk.

var. Zillah, Strk.

Hermia, Hy. Ed.

Mariana, Hy. Ed.

var. Francesca, Hy. Ed.

Jessica, Hy. Ed.

Portia, Hy. Ed.

Cassandra, Hy. Edw.

Stretchii, Behr.

Hippolyta, Hy. Ed.

Parta, Guen.

var. Perplexa, Strk.

Coccinita, Gr.

var. Sinuosa, Gr.

Circe, Strk.

Violenta, Hy. Ed.

Verrilliana, Gr.

var. Ophelina, Hy. Ed.

Ultonia, Hubn.

var. Celia, Hy. Ed.

var. Mopsa, Hy. Ed.

var. Adriana, Hy. Ed.

var. Herodias, Strk.

Aholibah, Strk.

Marmorata, Edw.

Ilia, Cram.

var. Zoe, Behr.

var. Uxor, Guen.

Innubens, Guen.

var. Flavidalis, Gr.

var. Scintillans, Gr. & R.

Adoptiva, Gr.

Deilita, Strk.

Calphurnia, Hy. Ed.

Sp. dist. aut aberr. ?

Desdemona, Hy. Edw.

Cerogama, Guen.

var. Bunkeri, Gr.

Neogama, Ab. & Sm.

var. Communis, Gr.

Neogama, Guen.

var. Snowiana, Gr.

Subnata, Gr.

Piatrix, Gr.

Paleogama, Guen.

var. Phalanga, Gr.

var. Annida, Fager.

Habilis, Gr.

var. Basalis, Gr.

Nebulosa, Edw.

Ponderosa, G. & R.

Mulierculata, Guen.

Consors, Guen.

Coelebs, Gr.

Badia, G. & R.

Serena, Edw.

Anna, Gr.

Amestris, Strk.

var. Westcottii, Gr.

Clintonii, Gr.

var. Helene, Pilate.

Illece, Walk.

Magdalena, Strk.

Frederici, Gr.

Nuptialis, Walk.

Murrho, Strk.

Abbreviatella, Gr.

Whitneyi, Dodge.

Polygama, Guen.

Crategi, Sund.

Pretiosa, Linth.

Mira, Gr.

Chelidonia, Gr.

Amasia, Ab. & Sm.

Cordelia, Hy. Edw.

Similis, Edw.

Formula, G. & R.

var. Aholah, Strk.

var. Isabella, Hy. Edw.

Oliiva, Hy. Edw.

Fratercula, G. & R.

var. Gisella, May.

var. Atarah, Strk.


Paeclara, G. & R.

Dulciola, Gr.

Grynea, Cram.

Nuptula, Walk.

Alabamse, Gr.

Gracilis, Edw.

var. Sordida, Gr.

Timandra, Hy. Edw.

Minuta, Edw.

var. Parvula, Edw.

Micronympha, Guen.

Amica, Hubn.

Androphila, Guen.

var. Lineella, Gr.

var. Nerissa, Hy. Edw

Allotria, Hubn.

Elonympha, Hubn.
Andrewsia, Gr.*
1248 Belfragiana, Harvey.
1249 ? Messalina, Guen.

Parthenos, Hubn.
Belfragiana, Harvey.
Jocaste, Strk.
Nubilis, Hubn.

Ophiderinæ.
Ophideres, Boisd.

1250 Materna, Linn.

Toxocampinæ.
Strenoloma, Gr.

1251 Lunilinea, Gr.

Toxoeampa, Guen.

1252 Victoria, Gr.

Synecoida, Hy. Edw.

1253 Biformata, Hy. Ed.
1254 Scrupulosa, Hy. Ed.
1255 Inepta, Hy. Ed.
1256 Morbosa, Hy. Ed.
1257 Valens, Hy. Ed.
1258 Sabulosa, Hy. Ed.

Phoberia, Hubn.

1259 Atomaris, Hubn.
Orthosioides, Guen.

Celiptera, Guen.

1260 Frustulum, Guen.
Elongatus, Gr.

Pseudolimacodes, Gr.

1261 Littera, Guen.
Niveicostatus, Gr.

Phurys, Guen.

1262 Vinculum, Guen.
1263 Lima, Guen.
1264 Bistrigata, Hubn.
1265 Glans, Gr.

Parallelia, Hubn.

1266 Bistriaris, Hubn.

Agnomonia, Hubn.
1267 Anilis, Drury.
Sesquistriaris, Hubn.

Palindia, Guen.
1268 Dominicata, Guen.

Harveya, Gr.
1269 Auripennis, Gr.

Panopoda, Guen.
1270 Carneicosta, Guen.
1271 Rufimargo, Hubn.
Rubricosta, Guen.
var. Roseicosta, Guen.

Pleconeetyptera, Gr.

1272 Pyralis, Hubn.
1273 Geometralis, Gr.
1274 Phalænalis, Gr.
1275 Immaculalis, Harv.

Remigia, Guen.

1276 Latipes, Guen.
var. Indentata, Harv.
1277 Hexastylus, Harv.

Poaphila, Guen.

1278 Quadrifilaris, Hubn.
1279 Obsoleta, Gr.
1280 Sylvarum, Guen.
1281 Deleta, Guen.
1282 Erasa, Guen.
1283 Herbicola, Boisd.
1284 Contempita, Boisd.
1285 Flavistriaria, Hubn.
1286 Herbarum, Guen.
1287 Irratora, Gr.
1288 Planaca, Gr.

Trama, Harv.

1289 Arrosa, Harv.
1290 Hinna, Gey.

Entorenna, Gr.

1291 Tenuis, Gr.

Isogoma, Guen.

1292 Natatrix, Guen.

* This genus has been indicated by Dr. Speyer, in letters, without naming it. I name it for the late William Valentine Andrews, of Brooklyn, an Entomologist whose obituary will be found Vol. X., C. E., xgo. The moth has the forewings of a different shape from Catocala, less produced, the inner and costal margins more parallel, entire. The hind wings want the mesial band.
Capnodes, Guen.
1293 Californica, Behr.

Anticarsia, Hubn.
1294 Gemmatalis, Hubn.

Antiblemma, Hubn.
1295 Canalis, Gr.

Agassizia, Behr.
1296 Urbicola, Behr.

Erebiinae.
Erebus, Latr.
1297 Odora, Linn.

Thysania, Dalm.
1298 Zenobia, Cram.

Zale, Hubn.
1299 Horrida, Hubn.
Calycanthata, Walk.

Phoecea, Hubn.
1300 Lunifera, Hubn.

Homoptera, Boisd.
1301 Edusa, Drury.
var. Saundersii, Beth.
var. Lunata, Drury.
1302 Rosea, Behr.
1303 Rubi, Hy. Edw.
1304 Minerea, Guen.
1305 Calycanthata, Ab. & S.
1306 Woodii, Gr.
1307 Albofasciata, Beth.
1308 Edusina, Harv.
var. Atritincta, Harv.
1309 Galbanata, Morr.
1310 Uniformis, Morr.
1311 Cinerea, Morr.
1312 Penna, Morr.
1313 Unilineata, Gr.
1314 Obliqua, Guen.
1315 Duplicata, Beth.
1316 Benesignata, Harv.

Eubolina, Harv.
1317 Impartialis, Harv.
1318 Stylobata, Harv.
1319 Mima, Harv.
1320 Meskei, Hy. Edw.

Ypsia, Guen.
1321 Undularis, Drury.
var. Aeruginosa, Guen.
var. Umbripennis, Gr.

Pseudanthreecia, Gr.
1322 Coracias, Guen.
Squammularis, Drury.
1323 Cornix, Guen.

Selenis, Guen.
1324 Monotropa, Gr.

Homopyralis, Gr.
1325 Discalis, Gr.
1326 Tactus, Gr.
1327 Tantillus, Gr.
1328 Repentis, Gr.

Matigrama, Gr.
1329 Pulverilinea, Gr.
1330 Læna, Harv.

Argillophora, Gr.
1331 Furcilla, Gr.

Spargomoma, Gr.
1332 Sexpunctata, Gr.
1333 Umbrifascia, Gr.

Hexeris, Gr.
1334 Enhydris, Gr.

Brotinae.
Brotis, Hubn.
1335 Vulneraria, Hubn.

Pangraptinae.
Sylectra, Hubn.
1336 Erycata, Cram.
Mirandalis, Hubn.

Pangrapta, Hubn.
1337 Decoralis, Hubn.
Elegantalis, Fitch.

Phalenostola, Gr
1338 Larentioides, Gr.
var. Citima, Gr.

Deltoidea.
Pseudaglossa, Gr
1339 Lubricalis, Gey.
Phcalis, Guen.
Surrectalis, Walk.
1340 Denticulalis, Harv.
1341 Scobialis, Gr.
Epizeuxis, Hubn.
1342 Aemula, Hubn.
Absorptalis, Walk.
Mollifera, Walk.
1343 Americalis, Guen.
Scriptipennis, Walk.

Megachyta, Gr.
1344 Lituralis, Hubn.
1345 Deceptricalis, Zell.
1346 Gypsalis, Gr.

Litognatha, Gr.
1347 Nubilifascia, Gr.
1348 Litophora, Gr.

Chylolita, Gr.
1349 Morbidalis, Guen.
1350 Petrealis, Gr.

Pityolita, Gr.
1351 Pedipilalis, Guen.

Zancognatha, Led.
1352 Laevigata, Gr.
1353 Ochreipennis, Gr.
1354 Cruralis, Guen.
1355 Marcidilinca, Gr.
1356 Obscuripennis, Gr.
1357 Minimalis, Gr.

Cleptomita, Gr.
1358 Atriineella, Gr.

Coptoenenia, Zell.
1359 Floccalis, Zell.

Pallachira, Gr.
1360 Bivittata, Gr.

Philometra, Gr.
1361 Longilabris, Gr.
1362 Serraticornis, Gr.

Salia, Hubn.
1363 Interpuncta, Gr.
Saligna, Zell.

Rivula, Guen.
1364 Propinqualis, Guen.

Patthis, Hubn.
1365 Angulalis, Hubn.
1366 Asopialis, Guen.

Phalenophana, Gr.
1367 Rurigena, Gr.

Pseudorgyia, Harv.
1368 Versuta, Harv.

HYPERINAE.

Sisyrhypena, Gr.
1369 Pupillaris, Gr.

Capis, Gr.
1370 Curvata, Gr.

Renia, Guen.
1371 Discoloralis, Guen.
Fallacialis, Walk.
1372 Brevirostralis, Gr.
1373 Alatalis, Gr.
1374 Restrictalis, Gr.
1375 Centralis, Gr.
1376 Larvalis, Gr.
1377 Flavipunctalis, Gey.
1378 Belfragei, Gr.
Pastoralis, Gr.
1379 (?) Ptenelinealis, Gr.

Tetanolita, Gr.
1380 Lixalis, Gr.

Bleptina, Guen.
1381 Caradrinalis, Guen.
1382 Inferior, Gr.

Hypenula, Gr.
1383 Opacalis, Gr.

Lomanaltes, Gr.
1384 Laetulus, Gr.

Hypena, Fabr.
§ Bomolocha.
1385 Baltimoralis, Guen.
Laciniosa, Zell.
Bemignatis, Walk.
1386 Scutellaris, Gr.
1387 Manalis, Walk.
1388 Bijugalis, Walk.
Patialis, Zell.
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**GEOMETRIDÆ.**

**ENNONIMÆ.**

**Choerodes**, Guen.

1 Clemitaria, A. & S.
2 Transversata, Drury.
3 Furciferata, Pack.
4 Nubilata, Pack.
5 Falcata, Pack.

**Tetracis**, Guen.

6 Aegrotata, Guen.
7 Truxaliata, Guen.
8 Grotearia, Pack.
9 Cervinaria, Pack.
10 Aurantiacaria, Pack.
11 Paralleliaria, Pack.
12 Coloradaria, Gr. & R.
13 Crocallata, Guen.
14 Lorata, Grote.
15 Trianguliferata, Pack.

**Metaena**, Guen.

16 Quercivoraria, Guen.
17 Forficaria, Guen.
18 Inatomaria, Guen.
19 Carnaria, Pack.

**Drepanodes**, Guen.

20 Puber, G. & R.
21 Varus, G. & R.
22 Olyzonaria, Walk.

**Caberodes**, Guen.

23 Confusaria, Hubn.*
24 Majoraria, Guen.
25 Cayennaria, Guen.
26 Cervinaria, Pack.

**Ennomos**, Tr.

27 Alniaria, Linn.
28 Subsignaria, Hubn.

**Eudalimia**, Hubn.

29 Kentaria, G. & R.
30 Alciphearia, Walk.

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* This species has been redescribed nine or ten times, Pack. Mon., 534.
Azelina, Guen.

31 Hubnerata, Guen.
32 Behrensata, Pack.
33 Morrisonata, Hy. Edw.
34 Zalissaria, Walk.
35 Arizonata, Hy. Edw.

Endropia, Guen.

36 Serrata, Drury.
37 Obtusaria, Hubn.
38 Pectinaria, W. V.
39 Bilinearia, Pack.
40 Armataria, H.-S.
41 Amoenaria, Guen.
42 Arefactaria, G. & R.
43 Madusaria, Walk.
44 Vinulenta, G. & R.
45 Marginata, Minot.
46 Warneri, Harvey.
47 Homuraria, G. & R.
48 Hypochraria, H.-S.
49 Refractaria, Guen.
50 Pilosaria, Pack.

Epirranthis, Hubn.

51 Obfirmaria, Hubn.

Therina, Hubn.

52 Fervidaria, Hubn.
53 Endroparia, G. & R.
54 Bibularia, G. & R.
55 Margaritata, Linn.
56 Pulveraria, Linn.

Metrocampa, Guen.

57 Micolliculata, Zell.

Antepione, Pack.

58 Depontanata, Gr.
59 Sulphurata, Pack.

Sieya, Guen.

60 Macularia, Harris.
61 Sulphurata, Guen.
62 Truncatata, Guen.

Sieg, Pack.

Augerona, Dup.

63 Crocataria, Fab.
64 Crocataria, Fab.
65 Crocataria, Fab.
66 Crocataria, Fab.
67 Crocataria, Fab.

Nematocampa, Guen.

68 Filamentaria, Guen.
69 Filamentaria, Guen.
70 Filamentaria, Guen.

Therina, Hubn.

71 Phlogosaria, Guen.
72 Alcoolaria, Guen.

Hyperetis, Guen.

73 Amicaria, H.-S.*

GEOMETRIN.E.

Geometra, Linn.

74 Iridaria, Guen.
75 Rectaria, Gr.
76 Inclusaria, Walk.

* For the lengthy synonymy of this species see Dr. Packard's Monograph, p. 461. I believe this name was the earliest published.
Aiiaplodes, Pack.
77 Pistacearia, Pack.

Aplodes, Guen.
78 Latariaria, Pack.
79 Approximaria, Pack.
80 Junctolinearia, Graef.
81 Undiniaaria, Styrk.
82 Viridicaria, Hulst.
83 Rubrolinearia, Pack.
84 Rubromarginaria, Pack.
85 Brunnearia, Pack.
86 Mimosaria, Guen.
Venus tus, Walsh.
87 Packardaria, Gr.
Rack.
Rubrifrontaria, Pack.
Raclicospila, Guen.
88 Lixaria, Guen.
89 Cupedinaria, Gr.
Syicililora, Guen.
90 Rubivora, Riley.
Albolineata, Pack.
Gracilaria, Pack.
91 Rubrifrontaria, Pack.
Chlorosea, Pack.
92 Nevadaria, Pack.
93 Bistriaria, Pack.
94 Perviridaria, Pack.
Annemoria, Pack.
95 Unitaria, Pack.
Nemoria, Hubn.
96 Subcroceata, Walk.
97 Grataata, Walk.
98 Pistaciata, Guen.
Eucrostis, Hubn.
99 Chloroleucaria, Guen.
100 Zelleraria, Pack.

Dyspteris, H.-S.
101 Abortivaria, H.-S.

ACIDALIINÆ.
Euphryra, Pack.
102 Serrulata, Pack.

Ephyra, Dup
103 Pendulinaria, Guen.
104 Myrtaria, Guen.

Acidalia, Tr.
105 Ossularia, Hubn.
106 Granitaria, Pack.
107 Perirrorata, Pack.
108 Longipennata, Pack.
109 Peralbata, Pack.
110 Lacteola, Linhn.
111 Punctofombrriata, Pack.
112 Productata, Pack.
113 Insularia, Guen.
Perisimilata, Gr.
114 Pannaria, Guen.

Acidalia, Tr.
115 Albocostaliata, Pack.
116 Rotundopennata, Pack.
117 Nivosata, Guen.
118 Rubromarginata, Pack.
119 Quesitata, Hulst.
120 Inductata, Guen.
Frigidaria, Moeschl.
Oxakaria, Pack.
121 Pacificaria, Pack.
Californiaria, Pack.
122 Sentinaria, Geyer.
Spararia, Chr.
123 Rubrolineata, Pack.
124 Subalbaria, Pack.
125 Quadrilineata, Pack.
126 Cacuminata, Morr.
127 Enucleata, Guen.
128 Quinquelineata, Pack.
129 Ordinata, Walk.
Candiaaria, Pack.
130 Magnetaria, Guen.
131 Sideraria, Guen.
132 Balistaria, Guen.
133 Demissaria, Hubn.
134 Purata, Guen.
135 Myrmonidata, Guen.
136 Temnaria, Guen.
137 Hepaticaria, Guen.
138 Sublataria, Guen.
139 Placidaria, Guen.
140 Ferruminaria, Zell.
141 Minutularia, Hulst.

Asthenia, Hubn.
142 Lucata, Guen.
143 Albogilvaria, Morr.
Triseriata, Pack.
144 Brunneifasciata, Pack.

Ceratodalia, Pack.
145 Gueneaeta, Pack.
Eois, Hubn.

146 Gemmata, Pack.
147 Occidentata, Pack.
148 Ferrugata, Pack.

Euacidalia, Pack.

149 Sericeata, Pack.
150 Floridata, Pack.

Calothysanis, Hubn.

151 Amaturaria, Walk.

Byssodes, Guen.

152 Obrussata, Gr.

GONIACIDALINE.

Calledaptaryx, Gr.

153 Dryopterata, Gr.

Goniacidalia, Pack.

154 Furciferata, Pack.

Callizzia, Pack.

155 Amorata, Pack.

CABERINE.

Stegania, Guen.

156 Pustularia, Guen.

Gueneria, Pack.

157 Basiatia, Walk.

Deilinia, Hubn.

158 Variolaria, Guen.
159 Erythemaria, Guen.
160 Pacificaria, Pack.
161 (?) Glomeraria, Gr.
162 (?) Septemlinearia, Gr.

Eudeilinia, Pack.

163 Herminiata, Guen.
Biseriata, Pack.

Corycia, Dup.

164 Vestaliata, Guen.
Junctaria, Walk.
165 Semiclarata, Walk.
Viatica, Harv.

FIDONINÆ.

Eunacaria, Pack.

166 Brunnecaria, Pack.

Semiothista, Hubn.

167 Distriubaria, Hubn.
168 Contemptata, Guen.
169 Pretomata, Harv.
Consimilata, Zell.
170 Minorata, Pack.
171 Bisignata, Walk.
Gallinaeata, Zell.
172 Multilineata, Pack.
173 Enotata, Guen.
Æmulatricia, Walk.
Sectomaculata, Morr.
174 Granitata, Guen.
Sexmaculata, Pack.
Unimodaria, Morr.
175 Punctolineata, Pack.
176 Ocellinata, Guen.
Duplicata, Pack.
177 Dislocaria, Pack.
178 Californiata, Pack.
Palidata, Pack.
179 Octosignata, Pack.
180 Respessata, Hulst.
181 Grassata, Hulst.
182 Velivolata, Hulst.
183 Aquiferaria, Walk.
184 Transitaria, Walk.
185 Inextricata, Walk.
186 Tractata, Walk.
187 Latiferrugata, Walk.

Psammatodes, Guen.

188 Eremitata, Guen.

Phasianæ, Dup.

189 Atrofasciata, Pack.
Orillata,† Pack.
190 Orillata, Walk.
Excurvata, Pack.
191 Nubiculata, Pack.
192 Snoviata, Pack.
Subminiata, Pack.
193 Curvata, Gr.
194 Hypothrata, Gr.*
195 Colata, Gr.
196 Meadiata, Pack.
197 Mellistrigata, Gr.
198 Trisacriata, Pack.
199 Sinuata, Pack.
200 Subminiata, Pack.

* The type of this species, and that of Colata and Curvata are contained in the superb collection of Mr. B. Neumoegen.
Irorata, Pack.
Packata, Pack.
Hebetata, Hulst.

Marmopteryx, Pack.
Strigularia, Minot.
Oeneiformis, Harvey.
Marmorata, Pack.
Dryadata, Hulst.
Formosata, Strk.
Tessellata, Pack.

Thamnonoma, Led.
Tripunctaria, Pack.
Marcescaria, Guen.
Cineraria, Pack.
Guenearia, Pack.
Quadrilinearia, Pack.
Subcessaria, Walk.
Sulphuraria, Pack.
Brunneata, Thun.
Quinquaria, Hubn.
Pinetaria, Hubn.
Sylvia, Curtis.
Argillaceaaria, Pack.
Flavicaria, Pack.

Lozogramma, Steph.
Lactispargata, Walk.
Disconventa, Walk.
Detersata, Guen.
Atropunctata, Pack.
Fernaldi. Gr.
Defluata, Walk.
Nigroseriata, Pack.
Bifilata, Hulst.

Eufitchia, Pack.
Ribearia, Fitch.

Selidosema, Led.
Juturnaria, Guen.
Californiaria, Pack.

Orthofidonia, Pack.
Exornata, Walk.
Albifusata, Walk.

Caripeta, Walk.
Divisata, Walk.
Angustiorata, Walk.
Pinaria, Pack.
Latorata, Walk.

Dasyfidonia, Pack.
Avuncularia, Guen.

Ematurga, Led.
Faxonii, Minot.

Fidonia, Tr.
Fimetaria, G. & R.
Halesaria, Zell.
Truncataria, Walk.
Tricoloraria, Morr.
Notataria, Walk.
Bicoloraria, Minot.
Quadripunctata, Morr.
Discosplata, Walk.

Loxofidonia, Pack.
Acidaliata, Pack.

Lythria, Hubn.

Hæmatopis, Hubn.
Grataria, Fabr.*
Santaria, Hubn.*

Caterva, Gr.

Catenaria, Drury.
Elegantaria, Hy. Ed.

Eucaterva, Gr.

Rubiginosus, Morr.
Approximaria, Pack.
Infumataria, Gr.

Meskea, Gr.

*Of this species I have a lovely suffused specimen from Illinois. The red color largely obtains over the wings.
Stenaspilates, Pack.
247 Meskearia, Pack.

Chloraspilates, Pack.
248 Bicoloraria, Pack.
249 Arizonaria, Gr.

Aspilates, Tr.
250 Viridirufaria, Neum.
251 Gausaparia, Gr.
252 Dissimilaria, Hubn.
253 Lintneraria, Pack.
254 Coloraria, Fab.
Accessaria, Hubn.
var. Spheromacharia, Harv.
255 Pervaria, Pack.
var. Interminaria, Gr.
256 Quadrifasciaria, Pack.

Euaspilates, Pack.
257 Spinataria, Pack.

Gorytodes, Guen.
258 Uncanaria, Guen.
Californiaria, H.-S.
559 Personaria, Hy. Ed.
260 Trilinearia, Pack.
261 Dulcearia, Gr.

BOARMINÆ.

Cleora, Curtis.
262 Pulchraria, Minot.
Piniaria, Pack.
Pellucidaria, Pack.
263 Umbrosaria Pack.
264 Nigrovenaria, Pack.

Stenotrichelrys, Guen.
265 Approximaria, Hubn.
266 Permagnaria, Pack.

Hemerophila, Steph.
267 Unitaria, H.-S.
268 Latifasciaria, Pack.

Guophos, Tr.
269 Haydenata, Pack.

Ceratonyx, Guen.
270 Satanaria, Guen.

Epimecis, Hubn.
271 Hortaria, Fab.
Lirioidendraria, A. & S.

Cymatophora, Hubn.
272 Pulmonaria, Gr.
273 Californiaria, Pack.
274 Umbrosaria, Hubn.
Gnopharia, Guen.
275 Polygrammaria, Pack.
276 Larvaria, Guen.
277 Humaria, Guen.
Intraria, Guen.
278 Pampinaria, Guen.
Fraugaliaria, Guen.
Fraudulentaria, Zell.
279 Quinquelinearia, Pack.
280 Plamosaria, Pack.
281 Psilogrammaria, Zell.
282 Crepuscularia, Tr.
Occiduaria, Guen.
Fumataria, Min.
283 Filaria, Walk.
284 Divisaria, Walk.

Tephrosia, Boisd.
285 Canadaria, Guen.
286 Cognataria, Hubn.
287 Californiaria, Pack.
288 Falcataria, Pack.
289 Anticaria, Walk.
290 Cribrataria, Guen.

Paraphia, Guen.
291 Subatomaria, Guen.
Nulecularia, Guen.
Macmurraria, Guen.
292 Unipunctata, Haw.
293 Deplanaria, Guen.

Biston, Leach.
294 Ursarius, Walk.
295 Virginarius, Gr.

Eubyja, Hubn.
296 Cognataria, Guen.
297 Cupidaria, Gr.
298 Pænulataria, Gr.*
299 Quernaria, A. & S.

Hybernia, Latr.
300 Tiliaria, Harvs.

* Pl. 2, fig. 3, Proc, Ent. Soc. Phil.; this species is not mentioned by Packard, nor have I again seen the type since April, 1863.
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<td>Latirupta, Walk.</td>
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<td>Lascinata, Zell.</td>
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<td>Brunneicillata, Pack.</td>
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<tr>
<td>334</td>
<td>Rucifacita, Guen.</td>
</tr>
<tr>
<td>335</td>
<td>Basaliata Walk.</td>
</tr>
<tr>
<td>336</td>
<td>Parinotata, Zell.</td>
</tr>
<tr>
<td>337</td>
<td>Fluctuata, Linn.</td>
</tr>
<tr>
<td>338</td>
<td>Intermediata, Guen.</td>
</tr>
<tr>
<td>339</td>
<td>Lacustrata, Guen.</td>
</tr>
<tr>
<td>340</td>
<td>Unangulata, Harv.</td>
</tr>
<tr>
<td>341</td>
<td>Lugubrata, Schiff.</td>
</tr>
<tr>
<td>342</td>
<td>Tristata, Linn.</td>
</tr>
<tr>
<td>343</td>
<td>Hastata, Linn.</td>
</tr>
<tr>
<td>344</td>
<td>Convallaria, Guen.</td>
</tr>
<tr>
<td>345</td>
<td>Defensaria, Guen.</td>
</tr>
<tr>
<td>346</td>
<td>Ferrguaata, Linn.</td>
</tr>
<tr>
<td>347</td>
<td>Designata, Hubn.</td>
</tr>
<tr>
<td>348</td>
<td>Lucteata, Pack.</td>
</tr>
<tr>
<td>349</td>
<td>Rubrosuflusata, Pack.</td>
</tr>
<tr>
<td>350</td>
<td>Carneata, Pack.</td>
</tr>
<tr>
<td>351</td>
<td>Genucera, Pack.</td>
</tr>
<tr>
<td>352</td>
<td>Abrasaria, H.-S.</td>
</tr>
<tr>
<td>353</td>
<td>Flavicata, Pack.</td>
</tr>
<tr>
<td>354</td>
<td>Munitata, Hubn.</td>
</tr>
<tr>
<td>355</td>
<td>Flavicata, Pack.</td>
</tr>
<tr>
<td>356</td>
<td>Diversilineata, Hubn.</td>
</tr>
<tr>
<td>357</td>
<td>Packardata, Linn.</td>
</tr>
<tr>
<td>358</td>
<td>Testata, Linn.</td>
</tr>
</tbody>
</table>

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* I have not seen the type since it was figured in 1863. I hardly believe the insect is a Baptria; we may have to do with a form of Hastata.
359 Leoninata, Pack.
360 Prunata, Linn.
361 Atricolorata, G. & R.
362 Cunigerata, Walk.
363 Albofasciata, Pack.
364 Mancipata, Guen.
365 Hersilliata, Guen.
366 Truncata, Hufn.

**Hydriomena, Hubn.**

367 Trifasciata, Borkh.
368 Speciosata, Pack.
369 Sordidata, Fabr.

* Nubilefasciata, Pack.
* Albofasciata, Pack.
* Californiata, Pack.
* Bistrigilata, Zell.
* Glacigata, Pack.
* Quinquefasciata, Pack.

**Thera, Steph.**

370 Contractata, Pack.

**Epirrita, Hubn.**

371 Perlineata, Pack.
372 Cambricaria, Curtis.
373 Dilutata, Borkh.
374 Duodecimlineata, Pack.

**Plemyria, Hubn.**

375 Fluvia, Hubn.
376 Multiferata, Walk.

**Glancopteryx, Hubn.**

377 Phocata, Moeschl.
378 Sabinii, Curtis.

379 Polata, Dup.
380 Implicata, Guen.

* Multilineata, Pack.
381 Cumatilis, G. & R.*

* Magnoliata, Pack.
382 Cæsiata, Borkh.

**Eupethecia, Curtis.**

383 Cretacea, Pack.
384 Subapicata, Guen.
385 Occidentaliata, Pack.
386 Ravocecostiata, Pack.
387 Behrensata, Pack.
388 Strattonata, Pack.
389 Rotundopunctata, Pack.
390 Miserulata, Grote.
391 Interruptofasciata, Pack.
392 Zygadaenata, Pack.
393 Absynthiata, Linn.
394 Albicapitata, Pack.*
395 Tenuata, Hufst.
396 Gelidata, Moeschl.
397 Implicata, Walk.
398 Explanata, Walk.
399 Anticaria, Walk.

**Exelis, Guen.**

400 Pyrolaria, Guen.

**Lepiodes, Guen.**

401 Scolopacinaria, Guen.

**Emplocinæ.**

**Emplocia, H.-S.**

402 Cephisaria, Grote.
403 Fervefactaria, Grote.

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**PYRALIDÆ.**

**Pyralididæ.**

**Paracallis.**

1 Funalis, Gr.
2 Simulatilis, Gr.

* Dr. Packard calls this species Guenee’s Magnoliata. Guenee’s desc., X. 455, calls the fore wings “White, with black lines dividing the wing in five spaces,” with a “thick cellular spot.” The hind wings are called “white,” and there is no “green” mentioned.

† This genus is established by me under the name ædis; it appears it is too near ædis to avoid confusion, and I change it.
Omphalocera, Led.
5 Cariosa, Led.
6 Dentosa, Gr.

Aglossa, Latr.
7 Domalis, Guen.

Asopia, Tr.
8 Farinalis, Linn.
9 Costalis, Fabr.
Fimbrialis, S. V.
10 Olinalis, Guen.
    Trentonalis, Led.
11 Binodulalis, Zell.
12 Cohortalis, Gr.
13 Himonialis, Zell.
14 Devialis, Gr.
15 Planalis, Gr.
16 Squamealis, Gr.

Arta, Gr.
17 STATALIS, Gr.
18 Olivalis, Gr.

Condylolomia, Gr.
19 Participialis, Gr.

Cordylopeza, Zell.
20 Nigrinodis, Zell.

Siparocera, Rob.
21 Nobilis, Rob.

Octoperia, Zell.
22 Sincera, Zell.

Melanomma, Gr.
23 Auricinctaria, Gr.

Chalcoela, Zell.
24 Aurîfera, Zell.
25 Robinsonii, Gr.

Dieymolomia, Zell.
26 Decora, Zell.

Emprepes, Led.
27 Novalis, Gr.
28 Nuchalis, Gr.

Scoparia, Haw.
29 Centuriella, S. V.
30 Libella, Gr.

Theceteria, Led.
31 Pupula, Hubn.

Botis, Schrank.
32 Cardinalis, Guen.
33 Octomaculata, Linn.
    Glomeralis, Walk.
34 Flavinalis, Gr.
35 Californialis, Pack.
36 Insequalis, Guen.
    Subsequalis, Guen.
37 Generosa, G.-R.
38 Borealis, Pack.
    Matronalis, Gr.
39 Dapalis, Gr.
40 Uninacula, G.-R.
41 Augustalis, Gr.
42 Volulpialis, Gr.
43 Signatalis, Walk.
    Vinulenta, G.-R.
44 Norocalis, Walk.
45 Diffissa, G.-R.
46 Similalis, Led.
47 Phœnicicais, Hubn.
48 Toralis, Gr.
49 Tyralis, Guen.
50 Flavofascialis, Gr.
51 Latilavina, G.-R.
    var. Cinerosa, G.-R.
52 Rufifimbrialis, Gr.
53 Sumptuosalis, Walk.
    Haruspica, G.-R.
    Proceralis, Led.
54 Onythesalis, Walk.
55 Vibicalis, Zell.
56 Nasonialis, Zell.
57 Sesquialteralis, Zell.
58 Atropurpuralis, Gr.
59 Lethalis, Gr.
60 Commortalis, Gr.

61 Rubigalis, Guen.
61½ Harveysana, Gr.
62 Posticata, G.-R.
63 Profundalis, Pack.
64 Badipennis, Gr.
65 Teneralis, Led.
66 Plumbofascialis, Led.
67 Tatalis, Gr.
68 Allectalis, Gr.
69 Albiceralis, Gr.
70 Turmalis, Gr.
71 Mustetinalis, Pack.
    Catenulalis, Gr.
72 Fodinalis, Led.
73 Socialis, Gr.
74 Annaphilalis, Gr.
75 Washingtonalalis, Gr.
76 Reversalis, Guen.
77 Penitalis, Gr.
78 Erectalis, Gr.
79 Coloradoalis, G.-R.
80 Plumbicostalis, Gr.
81 Flavidalis, Guen.
82 Oxydalis, Guen.
83 Langdonalis, Gr.
84 Capitalis, Gr.
85 Flavidissimalis, Gr.
86 Trimaculalis, Guen.
87 Fuscimaculalis, Gr.
88 Principialis, Led.
89 Flavicoloralis, GV.
90 Citrinalis, G.-R.
91 Inconcinnalis, Led.
92 Futilalis, Zell.
93 Marculenta, G.-R.
94 Submedialis, (75.
95 Opilalis, Gr.
96 Oscitalis, Gr.
97 Mancalis, Led.
98 Pertexalis, Led.
99 Gentilis, Gr.
100 Thesealis, Zell.
101 Intricatalis, Led.
102 Fumalis, Guen.
103 Magistralis, Gr.
104 Quinqueinalis, Gr.
105 Fistalis, Gr.
106 Feudalis, Gr.
107 Terrealis, Tr.
108 Repetitalis, Gr.
109 Penumbralis, Gr.
110 Tertialis, Guen.
111 Singualris, Led.
112 Crocatalis, Gr.*
113 Obunbralalis, Led.
114 Dasconalis, Walk.
115 Vacunalis, Gr.
116 Venalis, Gr.
117 Magniferalis, Walk.
128 Adipaloides, G.-R.
129 Talis, Gr.
130 Subobivalis, Pack.
131 Niveicinalis, Gr.
132 Stenopteralis, Gr.
133 Ventralis, G.-R.
134 Argyralis, Hubn.
135 Fructuralis, Zell.

**Euryereon**, Led.
136 Sticticalis, Linn.
137 Cereralis, Zell.
138 Anartalis, Gr.
139 Chortalis, Gr.
140 Elualalis, Gr.
141 Rantalis, Guen.
142 Noctuella, S. V.

**Nomophila**, Hubn.
143 Octonalis, Zell.
144 Huronalis, Guen.
145 Ecclesialis, Guen.
146 Castellalis, Guen.
147 Ebulealis, Guen.

**Orobena**, Guen.
148 Rimosalis, Guen.
149 Stramentalis, Hubn.

**Mesographe**, Hubn.
150 Tuberculalis, Led.
151 Pustuliferalis, Led.
152 Serratissimalis, Zell.
153 Anticostalis, Gr.

**Perispasta**, Zell.
154 Caeculalis, Zell.
155 Immaculalis, Gr.

*This species must be near _Singnlaris_. It is white beneath, and thus I cannot think it identical. Lederer says of his species, "the whole insect yellowish flesh color, faintly iridescent."
Pantographia, Led.  
156 Limata, G.-R.  

Stenophyes, Led.  
157 Serinalis, Walk.  

Blepharomastix, Led.  
158 Ranalis, Guen.  
Gracilis, G.-R.  
Septalis, Schl. i. i.  

Endioptis, Hubn.  
159 Hyalinata, Linn.  
160 Nitidalis, Cram.  

Desmia, Westw.  
161 Maculalis, Westw.  
162 Subdivisalis, Gr.  

Hyalea, Guen.  
163 Dividalis. Hubn.  

Zinckenia, Zell.  
164 Perspectalis, Hubn.  

Clydaphia, Led.  
165 Bicoloralis, Guen.  

Conchylodes, Guen.  
166 Pantheralis, Hubn.  
167 Platinalis, Guen.  

Isopteryx, Guen.  
168 Magnalis, Guen.  
169 Stenialis, Guen.  
170 Ochropteralis, Guen.  
171 Aplicalis, Guen.  

Parthenodes, Guen.  
172 Xanthroleucalis, Guen.  

Clinocodes, Guen.  
173 Opilalis, Guen.  

Margarodes, Guen.  
174 Quadristigmalis, Guen.  

Metrea, Gr.  
175 Ostreonalis, Gr.  

Hydrocampa, Guen.  
176 Albalis, Rob.  
177 Obscuralis, Gr.  

Oligostigma, Guen.  
176 Genuinalis, Led.  
Genuinalis, Led.  
179 Pacalis, Gr.  
180 Ekthlipsis, Gr.  
181 Formosalis, Clem.  

Chrysocampidae, Gr.  
182 Medicinalis, Gr.  
183 Helopalis, Clem.  

Clydaphia, Led.  
184 Fulicalis, Clem.  
185 Angulatalis, Led.  
186 Bifascialis, Rob.  
187 Opulentalis, Led.  
188 Moniligeralis, Led.  

Paraponyx, Hubn.  
189 Plenilinealis, Gr.  
190 Cretacalis, Led.  
191 Aptalis, Led.  
192 Tedyuscongalis, Clem.  
193 Maculalis, Clem.  

Nymphacellae, Gr.  
194 Dispar, Gr.  

Homophsidiae.  

Lipocosa, Led.  
195 Sicalis, Walk.  

Homophsa, Guen.  
196 Fulminalis, Led.  
197 Glaphyralis, Guen.  
198 Albolineata, G.-R.  
199 Sesquistrialis, Hubn.  
200 Lentifualis, Zell.  
201 Renicalalis, Zell.  
202 Eripalis, Gr.  
203 Peremptalis, Gr.  

Epipaschia, Clem.  
204 Superalis, Clem.  
Borralis, Gr.
**Mochloerea, Zell.**
205 Zelleri, Gr.

**Cacozeilia, Gr.**
206 Basiochrealis, Gr.

**Toripalpus, Gr.**
207 Breviornatalis, Gr.
208 Trabalis, Gr.

**Tetralopa, Zell.**
209 Miliella, Zell.
210 Robustella, Zell.
211 Platanella, Clem.
212 Asperatella, Clem.
213 Melanogrammios, Zell.
214 Diluculella, Gr.

**PHYCIDÆ**

**Nephopteryx, Hubn.**
215 Ovalis, Pack.  
216 Scobiella, Gr.  
217 Consobrinella, Zell.  
218 Basiliaris, Zell.  
219 Fenestrella, Pack.  
220 Leoninella, Pack.  
221 Undulatella, Clem.  
222 Ulmi-arrosorella, Clem.  
223 Edmandsii, Pack.

**Pyla, Gr.**
224 Scintillans, Gr.

**Pinipestis, Gr.**
225 Zimmermanii, Gr.  
226 Reniculella, Gr.  
227 Abietivorella, Pack.

**Phycis, Haw.**
228 Exulella, Zell.  
229 Rubrifasciella, Pack.  
230 Tricolor, Gr.  
231 Indiginella, Zell.  
232 Angusella, Gr.  
233 Demotella, Gr.  
234 Caryæ, Gr.

**Salebría, Zell.**
235 Fusca, Haw.  
236 Contatella, Gr.  
237 Pravella, Gr.

**Meroptera, Gr.**
238 Lignosella, Zell.  
239 Incartella, Zell.  
240 Tartarella, Zell.  
241 Virgatella, Clem.  
242 Subcesiella, Clem.  
243 Hammondi, Riley.  
244 Gleditschiella, Fernald.

**Dakruma, Gr.**
245 Convolutella, Hubn.  
246 Coecidivora, Const.  
247 Pallida, Const.

**Homeosoma, Curt.**
248 Stypcticella, Gr.

**Megaphycis, Gr.**
249 Bollii, Zell.  
250 Dentata, Gr.

**Myelois, Zell.**
251 Albiplagiatella, Pack.

**Honora, Gr.**
252 Mellinella, Gr.

**Epischinia, Hubn.**
253 Farrella, Curt.

**Anerastia, Hubn.**
254 Haematica, Zell.  
255 Tetradella, Zell.  
256 Glaresella, Zell.  
257 Binotella, Zell.

**Ephestia, Guen.**
258 Elutella, Hubn.  
259 Ostrinella, Clem.  
260 Interpunctella, Hubn.  
261 Ochrifrontella, Zell.  
262 Hospitalla, Zell.
Crambidæ.

Argyria, Hubn.
263 Nivalis, Drury. Argentata, Gr. 
204 Nimmulalis, Hubn. Fusipes, Zell. 
Subènesensis, Walk.
265 Auratella, Clem.
266 Pulchella, Walk.
267 Rufisignella, Zell.

Crambus, Fabr.
268 Girardellus, Clem.
269 Sericinellus, Zell. 
var. Inornatellus, Clem.
270 Satrapellus, Zinck.
271 Prefectellus, Zinck.
272 Quinqueareatus, Zell. 
273 Occidentalis, Gr. 
274 Leachellus, Zinck. 
Involutellus, Clem. 
Pulchellus, Zell.
275 Floridus, Zell.
276 Labradoriensis, Christoph.
277 Agitatellus, Clem. 
var. Alboclavellus, Schl.
278 Saltuellus, Zell.
279 Bidens, Zell.
280 Minimellus, Rob.
281 Argillaceellus, Pack.
282 Albellus, Clem. 
283 Bipunctellus, Zell. 
284 Laqueatellus, Clem. 
285 Topiarius, Zell. 
286 Plejadellus, Zinck. 
Goodellianus, Gr. 
287 Decorrellus, Zinck. 
Polyactinellus, Koll.
288 Teterellus, Zinck. 
Camorellus, Clem. 
Terrellus, Zell.
289 Elegans, Clem. 
Terminellus, Zell.
290 Orogonicus, Gr. 
291 Trichostomus, Christoph. 
292 Interruptus, Gr. 
293 Dissectus, Gr. 
294 Unistriatellus, Pack. 
Exesus, Gr. 
295 Exsiccatus, Zell. 
296 Undatus, Gr. 
297 Laciniiellus, Gr. 
298 Anceps, Gr. 
299 Caliginosellus, Clem.
300 Duplicatus, Gr. 
301 Fuscicostellus, Zell. 
(?) Mutabilis, Clem. 
302 Attenuatus, Gr. 
303 Hemiochrellus, Zell. 
(?) Lucicostellus, Clem. 
304 Ruricollellus, Zell. 
305 Vulvigavellus, Clem. 
Chalbybirostris, Zell.

Propexus, Gr.
306 Edonis, Gr. 
307 Pexellus, Kad. 
308 Pectinifer, Zell. 
309 Repandus, Gr.

Eromene, Hubn.
310 Texana, Rob. 
311 Californialis, Pack.

Prionopteryx, Steph.
312 Olivella, Gr. 
313 Achatina, Koll. 
314 Incertella, Zinck.

Diphrys, Gr.
315 Prolatella, Gr.

Diaraetria, Guild.
316 Saccharalis, Fabr.
317 Crambidoides, Gr.

Schoenobius, Dup.
318 Macrinellus, Zell. 
319 Sordidellus, Zinck. 
320 Longirostreellus, Clem. 
321 Melinellus, Rob. 
322 Clemensellus, Rob. 
Aquilicellus, Clem. 
323 Dispersellus, Rob. 
324 Unipunctellus, Rob. 
325 Tripunctellus, Rob.

Seiropophaga, Tr.
326 Vestaliella, Zell.
TORTRICIDÆ.†

TORTRICINÆ.

Teras, Tr.

1 Effractana, Frél.
2 Peculiana, Zell.
3 Subnivana, Walk.
4 Trisignana, Robs.
5 Scabrana, Curt.
6 Niveana, Fab.
7 Nigrolinea, Robs.
8 Ferruginiguttana, Fern.
9 Brevvsteriana, Robs.
10 Celiana, Linn.
11 Hastiana, Linn.
12 Pulverosana, Walk.
13 Maccana, Tr.
14 Logiana, Schiff.
15 Permutana, Dup.
16 Nivisellana, Wlsm.†
17 Schalleriana, Linn.
18 Ferrugina, Schiff.
19 Simpliciana, Wlsm.
20 Oxyccocana, Pack.
21 Cinderella, Riley.
22 Malivorana, Le-B.
23 Vacciniivorana, Pack.
24 Minuta, Robs.
25 Foliana, Wlsm.
26 Fishian, Fern.
27 Chalybeana, Fern.
28 Cervinana, Fern.
29 Americana, Fern.

Cacææa, Hubn.

30 Rosaceana, Harris.
31 Purpurana, Clem.
32 Infumatana, Zell.
33 Rosana, Linn.
34 Cerisivorana, Fitch.
35 Rileyana, Grote.
36 Parallela, Robs.
37 Zapulata, Robs.
38 Obsoletana, Walk.
39 Transiturana, Walk.
40 Argyrospila, Walk.
41 Semifera, Walk.
42 Fervidana, Clem.
43 Georgiana, Gr.
44 Fractivittana, Clem.
45 Grisea, Robs.

Loxotemia, Steph.

46 Afflictana, Walk.
47 Musculana, Hubn.
48 Virescana, Clem.
49 Glaucana, Wlsm.
50 Clemensiana, Fern.

Ptychodora, Steph.

51 Persicana, Fitch.
52 Melaleucana, Walk.
53 Dissitana, Grote.

Pandemis, Hubn.

54 Limitata, Robs.
55 Lamprosana, Robs.
56 Albaniana, Walk.

† This list is taken from advance sheets of a Synonymical Catalogue of the Family by my kind friend Professor C. H. Fernald, and which is a most carefully written and valuable scientific work for which entomologists cannot be too grateful.

†† This abbreviation is used instead of the full name of Lord Walsingham, whose works on North American Microlepidoptera are of great value from their thoroughness and reliability. From a condition of obscurity, the subject of North American Tortricidae has become comparatively clear from the labors of Lord Walsingham, Professor Zeller and Professor Fernald.
Lophoderus, Steph.

57 Ministrana, Linn.
58 Quadrifasciana, Fern.
59 Juglandana, Fern.
60 Triferana, Walk.
61 Politana, Haw.
62 Velutinana, Walk.
63 Gloverana, Wlsm.
64 Coloradana, Fern.
65 Mariana, Fern.

Sciaphila, Tr.

66 Osseana, Scop.
67 Niveosana, Pack.
68 Argentana, Clerck.
69 Basiplagana, Wlsm.
70 Trigonana, Wlsm.
71 Horariana, Wlsm.
72 Moeschleriana, Wocke.
73 Alleniana, Fern.
74 Pallorana, Robs.
75 Lata, Robs.
76 Houstonana, Grote.
77 Quercifoliana, Fitch.
78 Albicomana, Clem.
79 Bergmanniana, Linn.
80 Peritana, Clem.
81 Franciscana, Wlsm.
82 Fucana, Wlsm.
83 Semicirculana, Fern.
84 Aliellana, Robs.
85 Fumiferana, Clem.
86 Conflictana, Walk.

Torrix, Linn.

87 Humerosana, Clem.
88 Cuneana, Wlsm.
var. Adumbrana, Wlsm.

Synnoma, Wlsm.

89 Linosyrana, Wlsm.

Æneectra, Guen.

90 Pillieriana, Schiff.
91 Rudana, Wlsm.

92 Senecionana, Wlsm.
93 Puritana, Robs.
94 Xanthoides, Walk.
95 Irrorea, Robs.
96 Inconditana, Wlsm.
97 Violaceaana, Robs.
98 Flavibasana, Fern.

Cenopis, Zell.

99 Quercana, Fern.
100 Reticulatana, Clem.
var. Mecospila, Zell.
101 Pettitana, Robs.
102 Diluticostana, Wlsm.
103 Groteana, Fern.
104 Testulana, Zell.
105 Cana, Robs.

Dichelia, Guen.

106 Pulcherrimana, Wlsm.
107 Caryæ, Robs.
108 Sulfureana, Clem.
Virginiana, Clem.
Gallitorana, Clem.
Fulvioroseana, Clem.
var. Belfragiana, Zell.
Gracilana, Wlsm.
109 Demissana, Wlsm.
110 Californiana, Wlsm.
111 Tunicana, Wlsm.

Amphisa, Curt.

112 Discopunctana, Clem.

Capna, Steph.

113 Furcatana, Walk.
114 Lentiginosana, Wlsm.

Platynota, Clem.

115 Flavedana, Clem.
Lateana, Robs.
116 Rostrana, Walk.
117 Tinctana, Walk.
118 Labiosana, Zell.
119 Exasperatana, Zell.
120 Sentana, Clem.

Conchylinae.

Idiographis, Led.

121 Inopiana, Haw.
122 Fulviplicana, Wlsm.
123 Ægrana, Wlsm.

† This is the only change I make from Professor Fernald's synonymy. When a name has once rightly changed because preoccupied at the time in the genus, the new name should be respected afterwards, even when the generic position of the insect is altered. See Preface to Staudinger's catalogue.
**Conchylis**, Tr. emend.

124 Floccosana, Walk.
125 Vitelliniana, Zell.
126 Saxicolana, Wlsm.
127 Sartana, Hubn.
128 Straminoides, Grote.
129 Scissana, Walk.
130 Smeathmanniana, Fab.
131 Kindermanniana, Tr.
132 Deutschiana, Zett.
133 Fuscostrigana, Clem.
134 Rutilana, Hubn.
135 Dorsimaculana, Robs.
136 Promptana, Robs.
137 Fernaldana, Wlsm.
138 Seriatana, Zell.
139 Intactana, Wlsm.
140 Argentilimitana, Robs.
141 Parallelana, Wlsm.
142 Transversana, Wlsm.
143 Labeculana, Robs.
144 Lepidana, Clem.
145 Interruptofasciata, Robs.
146 Benteana, Robs.
147 Chitonera, Riley.
148 Erigeronana, Riley.
149 Latipunctana, Wlsm.
150 Dilutana, Wlsm.
151 Nana, Haw.
152 Campicolana, Wlsm.
153 Parvimaculana, Wlsm.
154 Glaucouscana, Zell.
155 Dubitana, Hubn.

**Grapholithinæ.**

**Retinia**, Guen.

156 Frustrana, Scudd.
157 Rigidana, Fern.
158 Comstockiana, Fern.
159 Turionana, Hubn.
160 Duplana, Hubn.
161 Sylvestrana, Curt.
162 Pinivorana, Zell.
163 Subervinana, Wlsm.

**Eudenis**, Hubn.

164 Botrana, Schiff.
165 Lanceolana, Hubn.
166 Furfurana, Haw.

**Bactra**, Steph.

167 Fagigemmæana, Ch.
168 Niitidana, Clem.
169 Ferrugineana, Riley.
170 Monetiferana, Riley.
171 Sericotana, Wlsm.
172 Zellertana, Fern.
173 Permundana, Clem.
174 Olivaceaana, Fern.
175 Concinnana, Clem.
176 Versicolorana, Clem.
177 Punctana, Wlsm.
178 Atrodentana, Fern.
179 Fasciatana, Clem.
180 Corylana, Fern.
181 Exoleta, Zell.
182 Inornatana, Clem.
183 Malana, Fern.
184 Footiana, Fern.
185 Feriferana, Walk.

**Eccopsis**, Zell.

186 Intermistana, Clem.
187 Septentriònana, Curt.
188 Frigidana, Pack.
189 Nimbatana, Clem.
190 Consanguiniana, Wlsm.
191 Capreana, Hubn.
192 Dimidiana, Schiff.
193 Hartmanniana, Linn.
194 Griseoalbana, Wlsm.
195 Conditana, Wlsm.
196 Hebesana, Walk.
197 Cyanana, Murtfeldt.
198 Interruptolínea, Fern.
199 Hemidesma, Zell.
200 Murina, Pack.
201 Osmundana Fern.
202 Malachitana, Zell.
203 Roscomaculana, H.-S.
204 Costimaculana, Fern.
205 Chionosema, Zell.

**Penthinæ**, Tr.

*At my request Prof. Fernald kindly retained this name, given in manuscript to the species by Mr. Robinson for his friend Mr. Foot.*
Sericoris, Tr.

206 Nubilana, Clem.
207 Velulana, Wlsm.
208 Auricapitana, Wlsm.
209 Agilana, Clem.
210 Albiliciana, Fern.
211 Chalybeana, Wlsm.
212 Coruscana, Clem.
213 Argyroelana, Zell.
214 Constellatana, Zell.
215 Rivilana, Scop.
216 Urticana, Hubn.
217 Astrologana, Zell.
218 Puncticostana, Walk.
219 Instrutana, C7tv.
220 Poana, Zell.
221 Turfosana, H.-S.
222 Campestrana, Zell.
223 Fuscoliana, Zell.
224 Glaciana, Moeschl.
225 Dealbana, Walk.
226 Dilutifuscana Wlsm.
227 Bipartitana, Clem.
228 Ctzsialbana, Zell.
229 Similisana, Walk.
230 Niveigutiana, Grote.
231 Confixana, Walk.
232 Circulana, Hüb.n.
233 Quinqueculana, Robs.
234 Robinsonana, Grote.
235 Bolanderana, Wlsm.
236 Agassizii, Robs.
237 Ridingana, Robs.
238 Fernaldana, Grote.
239 Crampitana, Wlsm.
240 Monogrammana, Zell.
241 Larana, Wlsm.
242 Luridana, Wlsm.
243 Argentialbana, Wlsm.
244 Albiguttana, Zell.
245 Argentilbana, Wlsm.
246 Agricolana, Wlsm.
247 Basipunctana, Wlsm.
248 Subplicana, Wlsm.
249 Primulana, Wlsm.
250 Cataclystiana, Walk.
251 Comatulana, Zell.
252 Occipitana, Zell.

Phaecasioplios*a, Grote.

231 Confixana, Walk.

232 Circulana, Hüb.n.

233 Quinqueculana, Robs.

234 Robinsonana, Grote.

235 Bolanderana, Wlsm.

236 Agassizii, Robs.

237 Ridingana, Robs.

238 Fernaldana, Grote.

239 Crampitana, Wlsm.

240 Monogrammana, Zell.

241 Larana, Wlsm.

242 Luridana, Wlsm.

243 Argentialbana, Wlsm.

244 Albiguttana, Zell.

245 Argentilbana, Wlsm.

246 Agricolana, Wlsm.

247 Basipunctana, Wlsm.

248 Subplicana, Wlsm.

249 Primulana, Wlsm.

250 Cataclystiana, Walk.

251 Comatulana, Zell.

252 Occipitana, Zell.

253 Numerosana, Zell.

254 Giganteana, Riley.

255 Perdricana, Wlsm.

256 Glomerana, Wlsm.

257 Fulminana, Wlsm.

258 Irroratana, Wlsm.

259 Bipunctella, Walk.

260 Grandiflavana, Wlsm.

261 Subflavana, Wlsm.

262 Shastana, Wlsm.

263 Biquadrana, Wlsm.

264 Maculatana, Wlsm.

265 Palpsana, Wlsm.

266 Radicana, Wlsm.

267 Passerana, Wlsm.

268 Canana, Wlsm.

269 Cuiuminana, Wlsm.

270 Rectiplicana, Wlsm.

271 Terracoctana, Wlsm.

272 Juncticiliana, Wlsm.

273 Pulveratana, Wlsm.

274 Nigrilbana, Wlsm.

275 Abbreviatana, Wlsm.

276 Constrictana, Zell.

277 Abruptana, Zell.

278 Solicitana, Walk.

279 Transmissana, Walk.

280 Sternuana, Walk.

281 Hirsutana, Wlsm.

282 Trigemmana, Zell.

283 Vertummana, Zell.

284 Celtisana, Riley.

285 Matutina, Grote.

286 Ulotana, Wlsm.

287 Scudderiana, Clem.

288 Desertana, Zell.

289 Tripartitana, Zell.

290 Otiosana, Clem.

291 Similana, Hubn.

292 Dorisignatana, Clem.

Hystricophora, Wlsm.

293 Leonana, Wlsm.

294 Radiata, Wlsm.

295 Olivacea, Riley.

296 Formosana, Clem.

297 Corculana, Zell.

298 Aspidiscana, Hubn.

299 Ferruginana, Fern.

300 Succedana, Schiff.

301 Roessleri, Zell.

302 Vestalana, Zell.

303 Elongana, Wlsm.

304 Tarandana, Moeschl.

305 Artemisiana, Wlsm.

306 Argenticostana, Wlsm.

307 Spiculosana, Zell.

Semasis, Steph.
308 Striatana, Clem.
309 Tenuiana, Wlsm.
310 Claviana, Fern.
311 Pallidicostana, Wlsm.
312 Griseocapitana, Wlsm.
313 Taleana, Grote.
314 Perangustana, Wlsm.
315 Anaphorana, Wlsm.
316 Decempunctana, Wlsm.
317 Helianthana, Riley.
318 Columbiana, Wlsm.
319 Scalana, Wlsm.
320 Signanata, Clem.
321 Variana, Clem.
Subnisana, Zell.
322 Argutana, CAw.
323 Allutana, Zell.
324 Lapidana, Wlsm.
325 Sublapidana, Wlsm.
326 Parvana, Wlsm.
327 Strammeana, Wlsm.
328 Minimana, Wlsm.
329 Refusana, Walk.
330 Perstruclana, Walk.

Exentera, Grote.
330 Apriliana, Grote.

Proteopteryx, Wlsm.
331 Emarginana, Wlsm.
332 Oregonana, Wlsm.
333 Cressonianana, Clem.
334 Deludana, Clem.
335 Spoliana, Clem.
336 Resumptana, Walk.
337 Costomaculana, Clem.

Proteoteresus, Riley.
338 Aesculana, Riley.

Steganoptyscha, Steph.
339 Incarnana, Haus.
340 Fasciolana, Clem.
Blakenana, Robs.
341 Lagopana, Wlsm.
342 Liturana, Wlsm.
343 Purpuricillana, Wlsm.
344 Salicicollana, Clem.
345 Saliciana, Clem.
346 Crispana, Clem.
347 Augustana, Hubn.
348 Pinicolor, Zell.
349 Biangulana, Wlsm.
350 Nebulosana, Pack.

Tmetocera, Led.
351 Ocellana, Schiff.
Ocellana, Harris.
Pyrifoliana, Clem.

Rhopobota, Led.
352 Vacciniana, Pack.

Phoxopteris, Tr.
353 Mediofasciana, Clem.
354 Nubeculana, Clem.
355 Subaquina, Zell.
356 Discigerana, Walk.
357 Semioculana, Zell.
358 Murteiliana, Riley.
359 Lundana, Fab.
360 Spirezfoliana, Clem.
361 Laciniana, Zell.
362 Burgessiana, Zell.
363 Dubiana, Clem.
364 Floridana, Zell.
365 Amblygona, Zell.
366 Comptana, Frol.
367 Fragaria, Walsh.
368 Angulifasciana, Zell.
369 Platanana, Clem.
Mariciana, Zell.
370 Divisana, Walk.
371 Apicana, Walk.
372 Cornifoliana, Riley.
373 Muricana, Wlsm.
374 Uncana, Hubn.
375 Biarcuana, Steph.
376 Goodelliana, Fern.
377 Plagosa, Clem.
378 Pacificana, Clem.
379 Cometana, Wlsm.
380 Lorica, Groe.
381 Tineana, Hubn.
Ocellana, Clem.
Lecophaleratana, Pack.

Grapholitha, Tr.
382 Caryana, Fitch.
Caryx, Shimer.
383 Prunivora, Walsh.
384 Intersectiana, Clem.
Distoma, Gr.
385 Bracteatana, Fern.
386 Conversana, Wlsm.
387 Albimaculana, Fern.
388 Lunatana, Wlsm.
389 Tristrigulana, Clem.
390 Americana, Wlsm.
391 Cerulana, Wlsm.
392 Vitrana, Wlsm.
393 Tautana, Clem.
Perlusiana, Zell.
394 Galais-saliciana, Riley.
395 Trossulana, Wlsm.
Ecdytolophia, Zell.
396 Insiticiana, Zell.

Carpocapsa, Tr.
397 Pomonella, Linn.
398 Saltitans, Westw.
399 Toreuta, Grote.

Melisopus, Riley.
400 Latiferreana, Wlsm.

Phthoroblastis, Led.
401 Texanana, Wlsm.

Dichrorampha, Guen.
402 Incanana, Clem.
403 Simulana, Clem.
   Aurisignana, Zell.
404 Alpinana, Treits.
405 Plumbana, Scop.
406 Radicicolana, Wlsm.
NOTES, ERRORS AND OMISSIONS.

Page 4, line 2, for "order" read "sub-order."
Page 7, line 15, for "pulpi" read "palpi."
Page 7, last paragraph, for "I do not wish to" read "I cannot."
Page 9, add "Metathetis, Bntl.," to the genus Hemaris.
Page 10, the species "Procne" is probably East Indian; the type has been unfortunately abstracted from the collection of the Academy of Natural Sciences of Philadelphia.
Page 13, last line, for "Menet," read "Menet."
Page 13, between Nos. 27 and 28 insert "§ Echeta."
Page 14, between Nos. 35 and 36 insert "§ Philoros."
Page 14, between Nos. 36 and 37 insert "§.
Page 15, after No. 70, Nevadensis, insert Behrii, Str., as a synonym. Also No. 68 is probably the same as No. 75.
Page 16, Nos. 91 and 92 may be forms of Leptania; Nos. 94 and 95 may not be different; if the same, then 94 is a synonym of 95, but the two genera are different; I have examined both Echo and Bivittata; 125, 126 and 128 may be the same species.
Page 17, No. 178 hardly belongs to the generic group to which I have referred it; I should now rather regard it as belonging to Tortricidae; the singular shading on primaries vaguely takes the shade of the "Dog's Head" on the fore wings of the butterfly of that name. American species of several genera of the Cochlidiæ are not known to me in nature, as Isa, Heterogena, Noctelia and Kromea, and some of these may not be different.
Page 18, for "Dryocampa" read "Dryaetm" in the synonymy of No. 227. On the same page the printer has repeated ten numbers by mistake.
Page 18, Moeschler not Rutherford is, I believe, the right authority for Eulinacodes, but I have not been able to see the paper in which the name is proposed.
Page 21, I have substituted Pironoxystus for Xystus, Grote, preoccupied. Dr. Bailey's Angrede may belong here when the § is known.
Page 21, On the authority of Mr. Henry Edwards I keep No. 359, Pulcher, Gr., from Colorado, as distinct from No. 358, Hyperboreus, Moeschli, from Labrador.
Page 22, The divisions in the Noctuidae are mostly based on general resemblance and comparative characters. They have no absolute scientific value, except in the case of the "Bombycidae" and "Noctuo-Phaleniida" of Hubner and Boisduval. I have kept (in the Bombycids, etc.) the older collective terms which I found, but I agree with Lord Walsingham's remarks in his instructive article on page 77 of Papilio, vol. 2, to which I refer the student for the rules governing the termination of family and sub-family names.
Page 22, Whether we have any other species of the genus Habrosyne, except "Goss's Arches," is doubtful. Mr. Henry Edwards thinks that the European species occur on the west coast. Mr. Butler was kind enough to point out to me the curious difference in the number of undulations in the transverse lines on the primaries, which divides the Japanese species from the European. The genus is an example of the kind I have called Progenera, in a paper published by the Geological Survey at Washington; although here slight modifications are concomitant with geographical dissociation.
Page 22, The genus Momophana differs from Feralia by the presence of ocelli, the smoother and thinner vestiture, the more prominent head and larger compound eyes. From Diphthera Pallaxy by the pectinate antennæ and widerclypeus. The delicate green species, easily faded, may be known by the pale secondaries being also tinted with green, tender and somewhat transparent. Early in the spring the moth has been found by Professor Kellicott about Buffalo. The genus Charandra of Mr. Walker is different from Trichosea, the type of which is the European Ludifia. The structural differences between these three green Noctuids are very strong, though, in addition to the color, the ornamentation of Constocki and Pallax is very similar on the primaries above. "Jocosia" differs in design, and varies by becoming suffused with black over the upper surface of the front wings. Pallaxy is found further south than either of the other two species. The Californian Arthrochloara Februalis, I refer to the Hidcokina. Diphthera Pallax will, I think, be found to resemble Gence's Innotata in the larval stages; the moths have much in common; I unfortunately redescribed the species in one of my earlier papers, published about twenty years ago, as a Diphthera. Innotata belongs to a distinct section of Apatela.
Page 22. The species "50½ Connecta, Gr.," must be added to Apatela.

Page 23. The characters given by Dr. Speyer between Funeraria and Ama I have verified. The singular larvae are apparently much alike than the moths which they produce. The divisions of Apatela are probably of generic value.

Page 25, sixth line from the bottom, for "distinct" read "distinct."

Page 26. The following species of Aprosis have not been examined by me: Profissa, Digna, Acetolvis, Tristictula, Hortulana, Olivia, Drewneni, Westermannii, Staudingeri, Manifesta, Oblata, Infracta, Fauna, Hero, Umbra, Shakenius, Elimata, Spissa, and Mesoria as distinct from Reheji. It is possible that Specialis is a red form of Wilsonii and Parentalis of Decipiens. Also Chortalis and Aratrix may be forms of one species.

Page 28. " Omocnemis Gracillima" is given by printer's mistake as "Graillinea" in Can. Ent. XIII., 231. Several of my papers published in that journal at about the same time, and during my absence, were not revised by me. In this way "Hadena Perpansa" was printed "Perpansa."

Page 29. The genus Conserva differs from its allies Brotolomia and Trigonophora by the even, entire margin of the primary wings. It is nearer to the latter, agreeing with it in the principal characters, but differing, besides the form of the fore wings, in the body tuftings and the shorter, more pointed male genitalia. If we follow Lederer in the disintegration of Phlogophora, this genus is necessary, its characters being in fact stronger than those separating its allies.

Page 30, first line, for "Gr." read "Hubn."

Page 31, No. 676, for "Hubn" read "Hufn."

Page 33. A number of specimens sent to me as typical of Cinerea by Prof. Riley, were all Antennata. Prof. Comstock has reared it from larvae destructive to green apples in Niagara County. No Cinerosa or Laticinerea occurred among his specimens. The larva eats large holes in the immature fruit, according to Prof. Comstock's account; it transforms in a cell in the ground, in July, one to three inches below the surface. The moth discloses in September and hibernates. No Cinerosa were noticed by me in Prof. Riley's collection, and I cannot accept his views on these forms. The relationship between Cinerosa and Laticinerea may be closer, but I regard Antennata as a valid species. I suppose I was the first to define Cinerosa and Laticinerea in naming them.

Page 34, No. 836, for "Tigrina" read "Tigris." The genus may be used for this species alone, the European Virgo not being genetically separable from Telesilla according to other Authorities.

Page 34. The genera Anarta and Leptipolis should be transferred to p. 36, after Melicleptria.

Page 36. Add No. "66½ Spinose, Guen."

Page 37. The genus Eudolwardsia is characterized by a frontal projection below an irregular, exserted, cup-like excavation. The vestiture is hairy; the tibie unarmed. The wings short and broad, with the apices of primaries produced. The eyes are naked. The genus, which I separate from Xanthothrix, has affinities with Chariclea.

Page 37. To No. 1034 add: "var. Virginaulis, Gr."

Page 38. The species Moneteria of Guenée I take as the type of the genus Herrichias, which has been confounded with the European Eriopus. Form slender; abdomen not exceeding the secondaries, tufted on the dorsal line at base, and especially on third segment. Eyes naked, unshaded. Ocelli. Tibie unarmed. Vestiture consisting of flattened scales mixed with hair. Wings broad, entire; fore wings with the apices a little pointed; outer margin sinuate subapically, full at submedian nervules; 12-veined; a distinct accessory cell; 9 out of 8 to apices, about half the length of 8; cell open; 3 twice further from 4 than from 5 at base. Hind wings 8-veined; cell open; 3 and 4 together from extremity of submedian vein; 5 a little weaker, removed at base for about one-fifth the breadth of cell; indistinctly connected with the submedian series. The nervation warrants Dr. Herrich-Scheffer's inference of the distinctness of the genus, and I think places it near Thalpocares and Eustrilia. The species have bright brown primaries, ornamented often with splashes or lines of silver. The hind wings and abdomen are light gray, contrasting with the richly colored thorax and primaries.

I refer the student to my Illustrad Essay, Van Voorst, London, 1882, for a recapitulation of the characters of generic value in the Noctuidce; in my "Check List," 1876, and in different papers these are also given. Secondary sexual characters are, as a rule, good guide to the Sophorder. Those who will compare the Genera as established by Guenée, Walker and in Stainton's Manual, with the descriptions I have published, will see that I have used more characters, following all that has been published in Germany on the subject. My diagnoses have been copied without acknowledgment by a recent writer, who, in the "Can. Entomologist," has likewise used my generalizations in the same way, mixing them with some erroneous statements of his own.
Page 38. *Brephos*, Hubn. This term originates with Hubner, and is older than *Archiarias*, Hubn., which Zeller proposed to restore. The species described by Boisduval from California probably do not belong to this genus and I have not included them. From the figure of Amphidiasys *Midendorffi*, Lep. Sib., Tab. V., fig. 9, I would refer the species to *Lencrocephos*. I have not been able to re-examine *Brephoides* since my original notice of the species.

Page 39. *Catocala*, Schrank. In my original paper (1872) on the species of this genus I identified and re-described the two kinds established by Guenée under the names of *Vidua*, A. & S. (changed by Guenée to *Vidata*, because there was an earlier *Vidua* in the family) and *Desperata*. From a study of Abbot's figures, I showed that the *Vidua* of this author was not that of Guenée, but probably Guenée's *Desperata*. On the strength of these observations Mr. Huls did propose to restore Abbot's name for *Desperata*, and this without any additional knowledge of the species figured by Abbot. In fact, there is no evidence throughout Mr. Huls's paper that any original sources had been consulted by him; the whole argument is carried on from traditional or unwritten opinions current among the Brooklyn Entomologists, or dictated by a Pennsylvanian collector whose prejudices replace proper judgment and knowledge. My own study of the species published ten years since, is also freely used without acknowledgement, while an appearance of originality is shed over the whole, by inverting the usual sequence of the species and giving some irrelevant remarks by way of preface before attacking, most unwarrantably, my work in the genus. In the present case I adhere to my original decision with regard to the names of the two forms. Mr. Huls's proposal would make confusion; Guenée's original objection to *Vidua* remains, while, until Southern material has been thoroughly studied, Abbot's species must be a subject of more or less uncertainty.

Page 40. No. 1186, for "Semirelecta" read "Semirelecta." id. The European *Nyptis* is given as American by some authors, but I have not yet recognized the species. If so, it is the only form common to both continents. id. For "Guen." read "A. & S." as authority to No. 1217. id. Insert No. 1217½ Antinympa, Hubn. id. Add "var. Hindia, French," to Innubens. id. The description of *Dejecta* is so vague that I have not included the name. *Ulame*, equally poorly described. I have included, on the strength of two typical specimens in my collection purchased as such from Mr. Peck, and which appear to me distinct. There is additional uncertainty cast over these two names by the remarks in the "Brooklyn Bulletin" which go to show that the original determination of " *Ulame* " has been changed, so that I am not certain which name is the correct one for my material. I think that there is nothing gained by adopting any names proposed by the author of these two, who has antedated his publications and has made an excessive number of redescriptions, under new names, of previously published species. With the above corrections, I think that this list of our species of *Catocala* is more accurate than any yet published, and that the value assigned to the different names as designating varieties or species will prove in most cases the true one.

Page 42, for "Spargoloma" read "Spargaloma."

Page 45, add No. "44½ Textrinaria, G. & R."


Page 47. Byssodes *Obrussata*, Grote, Can., Ent., June, 1882, p. 111, is the correct reference for this species, also described in the June number of *Papilio*, under the name "Cerara,* which is a printer's error for "Obrussata" of my *Mss*. No proofs of any of my papers in that number of *Papilio* were furnished me, which accounts for this mistake, besides one or two others of lesser importance.

Page 48. The diagnosis of *Catera* is given by Dr. Packard on page 216 of his "Monograph" under the name "Zerene, Tr." The type of *Treitschke's* genus is a European moth not congeneric with *Catera*.

Page 50, No. 305 for "Antumnata" read "Autumnata."

Page 50, No. 346, for "Ferrugata", read "Ferrugata."

Names on this list not numbered (i. e. in Hyphantria) are considered to be of doubtful value. I have omitted from this list the names of a few unidentified species of M. Guenée's; chiefly, in the *Noctuidae*, of those species described from Abbot's figures, which latter are sufficiently coarse as to make the identification difficult without the plates at hand. Many of Mr. Walker's are not included, as they must be doubtful until his types are worked over. The species in Dr. Harris's correspondence are not included, as the data are not sufficient to identify them at present. I have tried to include all else, and while I have undoubtedly missed some names, I have purposely left out a very few of different authors, from their being described under genera not adopted here, or because no comparison with known forms accompanied the published account of them. Some synonyms have also been omitted, but this mostly in the case of well-known species, and for the purpose of diminishing the bulk of the list. In the *Geomtritaeae* and *Tortricidae*, I have given mainly the synonyms occurring in American publications as of most importance to the student.
The full synonymy, as far as ascertained, of the species enumerated in other works, accessible to the special student of the literature of the subject. My aim has been to produce a good working "Check List," and not a full "Synonymical Catalogue." But I have endeavored chiefly to present a reliable Nomenclature; to give the right generic and specific names as far as possible and in every case. The condition of my health prevented my working as continuously as I wished upon the manuscript; a work of this kind demands steady and patient labor.

With regard to the "Brooklyn Check List," it is for the most part a verbal copy of my earlier lists of the moths, while the species described since are very often neglected. It does not give me credit, while taking my various catalogues as its guide, in the Zygaenidae and Bombycidae no less than in the Noctuidae; in one instance a printer's error is copied, and it can be easily shown not to have been compiled from the original descriptions of the species. The mistakes are excessive, and where whole genera, numerous in species, are taken from my publications, i.e., Agrotis, Hadena, Mamestra, etc., the printers seem to have set up from my printed papers. The statement of its authors, that they have attempted any correction of Hubner's genera, can be shown to be a false one, quite independent of the fact that they have, too evidently, neither the knowledge of the subject or its literature to undertake such a task. After appropriating my work in this manner, they ask the Entomological public to consider their List as the foundation for future Lists! This is impossible, because the foundation of future Lists is the source which the Brooklyn Check List drew upon so generously, viz., my former Lists and Catalogues. I hope the Entomological public in England and elsewhere will not be misled by the "preface" of the "Brooklyn Check List," but will judge it by the facts. While our nomenclature is yet forming, such work is most mischievous, owing to the obligations of the law of priority. Were our species all properly described and named, such publications as those of the Brooklyn Committee would be passed over in merited silence. It is hardly necessary to repeat that, since 1875, I have published separate Lists of the principal genera of Noctuidae, restoring the name of the describer of the species. This the Brooklyn committee claim the credit of doing.

The principal Catalogues and Lists of N. Am. Lepidoptera are as follows. The Butterflies have been catalogued by Mr. W. H. Edwards and Mr. Scudder. The Catalogue of the latter, published in the Bulletin of the Buffalo Society of Natural Sciences, is yet unfinished. Beyond these two important Lists, which only concern the Butterflies, the others are here given:

4. List of the Sphingidae, ‡Egeriáce, Zygaenidae and Bombycidae of Cuba, by A. R. Grote, Phila., 1869.

From the 2d Vol. of the Bulletin of the Society of Natural Sciences, which also contains two papers with additions to the List.


P. S.—The present List was commenced to be printed in May, but owing to delays, arising in part from the nature of the work and the number of proofs, it was not finished by the printer until August, 1882.

In the present list the following generic names are used for the first time: Exedrium, Pronoxystus, (Xystus, n. b. 1.), Andreuusia, Herrichtia, Pyla and Paredis (for Aëdis, a name too near Aëdia). The name "Packardaria" is used for Racheospila Rubrifrontaria of Dr. Packard, the specific name being used in a very closely allied genus and thus liable to cause confusion. The variety Callida is proposed to designate the reddish form of Pseudargyria; Guence's Ebriosa and Obusta seem much redder and different; it is not certain that they are Heliothæ.
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