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A
SYNONYMIC CATALOGUE
OF THE
NORTH AMERICAN
RHOPALOCERA

BY

HENRY SKINNER, M. D.,

PROF. OF ENTOMOLOGY, ACADEMY NATURAL SCIENCES, PHILA.

CURATOR, AMERICAN ENTOMOLOGICAL SOCIETY.

EDITOR, ENTOMOLOGICAL NEWS.

ASSOC. STATE ENTOMOLOGIST, PENNA., ETC.

PHILADELPHIA:
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PREFACE.

The last catalogue, that by Mr. W. H. Edwards, was published fourteen years ago, and has been out of print for some time. Since Mr. Edward's catalogue appeared, a number of important works have been published and many magazine articles. Quite a number of species have been described and life histories made known. The more important new works on the Lepidoptera have been "Scudder's Butterflies of the Eastern United States and Canada;" the "Biologia Centrali-Americana," and the completion of the third volume of Mr. Edward's "Butterflies of North America." A single line has been devoted to each reference, thus greatly aiding the eye in finding what is wanted. When a species is found outside our faunal limits its entire distribution is given. A few species have been put into the synonymy, but only in cases where it seemed well warranted. No attention has been paid to the genera, as they are in a chaotic state and will require special study by some one taking cognizance of the genera of the world; therefore the genera remain practically the same as in the Edwards' catalogue. All references of importance are included, and it is hoped the catalogue will be found accurate and prove useful. All sources of information were freely taken advantage of, and the compiler must acknowledge his indebtedness to the catalogues of Morris, Kirby, Scudder, Strecker and Edwards.

Phila., March, 1898.

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West.-Hew.—Westwood and Hewitson.
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Winn, A. F.
Wright, W. G.

Zett.—Zetterstedt, J. W.
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WORKS QUOTED AND EXPLANATION OF ABBREVIATIONS USED.

- Abg. Gesch.*—Abgekürzte Geschichte der Insecten nach dem Linnæischen System. Johann Heinrich Sulzer. Winterthur, bey H. Steener u. Comp., 1776.
- Act. Hol.*—Kongl. Vetenskaps Academiens nya Handlingar. Stockholm, 1791.
- Agr. Nat. Hist. N. Y., V.*—The Natural History of New York. Ebenezer Emmons, Albany. Van Benthuyssen, 1854.
- Am. Ent.*—American Entomologist.
- Am. Nat.*—American Naturalist.
- Ann. Soc. Ent. Fr.*—Annales de la Société Entomologique de France.
- Ann. Soc. Obs.*—Annales des Soc. d'Observation. 1829.
- Ann. Nat. Hist.*—The Annales and Magazine of Natural History. London, 1848.
- App. to Narr. Ross' Ind. Voy.*—Appendix to the Narrative of a Second Voyage in Search of a Northwest Passage, and of a Residence in the Arctic Regions during the years 1829–1833. London, A. W. Webster, 1835.
- App. Voy. de Deleg.*—Voyage dans l'Afrique Australe notamment dans le terriore de Natal dans celui des Cafres Amazoulons et Makatisse et jusqu'an Tropique du Copricorne, exécuté durant les années 1838–1844, par M. Adulphe Sclegorgue (De Douai) avec une Introduction par M. Albert-Montemont. Paris, A. René et Cie, 1847, 2 vol.
- Arcana.*—Arcana or Museum of Nature. London, Stratford, 1810–1811.
- Aus. Schmett.*—Die Ausländischen oder die Ausserhalb Europa zur Zeit in den übrigen Welttheilen vorgefundenen Schmetterlinge in Abbildungen nach der natur mit Beschreibungen. E. J. C. Esper. 1, Erlangen, Walther, 1785–1798.
- Bemerk. Churpf. Æk. Ges.*—Churpfälz Æken. Gesellsch., 1779.
- Berge Schmett.*—Schmetterlingsbuch, oder Allgemeine und besondere Naturgeschichte der Schmetterlinge, mit besonderer Rücksicht auf die europäischen Gattungen. Nebst einer vollständigen Anweisung sie zu fangen, zu erziehen, zuzubereiten und aufzubewahren, Fr. Berge. Stuttgart, Hoffman, 1842.
- Berl. Ent. Zeit.*—Berliner Entomologische Zeitschrift.
- Berl. Mag.*—Berlinisches Magazine.
- Biol. Cent.-Amer.*—Biologia Centrali-Americana. London.
- Bost. Jour. Nat. Hist.*—Boston Journal of Natural History. 1834.
- Brit. Butt.*—British Butterflies and their Transformations, arranged and illustrated in a series of plates by H. N. Humphreys, with descriptions by J. O. Westwood. London. W. Smith, 1841.
- Brit. Ent.*—Outlines of British Entomology. S. W. Millard. Bristol, 1821.
- Brit. Ins.*—The Natural History of British Insects, explaining them in their several states, with the periods of their transformations, their food, economy, etc., together with the history of such minute insects as require investigation by the microscope. Edward Donovan. London. Rivington, 1813, 16 vols.

- Buff. Bull.*--Bulletin of the Buffalo Society of Natural Sciences. Buffalo, N. Y., 1873.
- Butt. East. U. S.*--Butterflies of the Eastern United States and Canada. S. H. Scudder.
- But. N. Am.*--The Butterflies of North America. By W. H. Edwards. 3 vols. 1868-1897.
- Can. Ent.*--Canadian Entomologist.
- Can. Nat.*--Canadian Naturalist.
- Can. Nat. and Geol.*--The Canadian Naturalist and Geologist, and Proceedings of the Natural History Society of Montreal. 1857.
- Cat. Brit. Ins.*--A Systematical Catalogue of British Insects. J. F. Stephens. London. Baldwin, 1829.
- Cat. Lep. And.*--Catalogue Systématique des Lépidoptères de l'Andalousie. J. P. Rambur. Paris. Baillière, 1828.
- Cat. Lep. B. M.*--List of the Specimens of Lepidopterous Insects in the Collection of the British Museum. London, 1844, etc.
- Cat. Lep. Mus. E. I. C.*--Catalogue of the Lepidopterous Insects in the Museum of the Hon. East India Company. London. Allen, 1857-1859.
- Cat. Lep. N. Am.*--Catalogue of the Described Lepidoptera of North America. John G. Morris. Washington. Smithsonian Institute, 1860.
- Cat. Met. etc. Mem. Soc. Econ. Hab.*--Memorias de la Sociedad Economica. 1846.
- Cat. Mus. Petr. Lep.*--Enumeratio corporum animalium Musei imperialis Academiae Scientiarum Petropolitanæ.
- Cat. Satyr. B. M.*--Catalogue of the Satyridæ in the British Museum. A. G. Butler.
- Cent. Lep. Cuba.*--Centurie de Lépidoptères de l'Ile de Cuba. F. Poey. Paris, 1832.
- Cist. Ent.*--Cistula Entomologica sive Insectorium nov. diagnoses. A. G. Butler. 1870-1876.
- Clerck. Icones.*--Icones Insectorum rariorum cum nominibus eorum trivialibus locisque. C. Linnaei Syst. Nat. allegatis. C. A. Clerck. Holmiæ, 1759-1764.
- Coloured Spec. Ill.*--Coloured Specimens to Illustrate the Natural History of Butterflies. James Lee. London, 1806.
- Const. Mis. But.*--The Book of Butterflies, Sphinges and Moths, illustrated by ninety-six engravings, coloured after nature. T. Brown. London. Whitaker, Treacher & Co., 1834.
- Corr.-Blatt Zool. Min. Ges.*--Correspondenz Blatt des Zoologisch Mineralogischen Vereins in Regensburg.
- Cuv. Reg. An. Ins.*--Le Règne Animal distribue d'après son organisation, pour servir de base à l'histoire naturelle des animaux et d'introduction à l'anatomie comparée, par Georges Cuvier. Paris, Fortin, Massonet Cie. Les Insects, par Audonin, Blanchard, Doyere et Milne Edwards.
- Del Animal.*--Delectus animalium articulorum, quæ in itinere per Braziliam annis 1817, ect. Dr. M. Perty. Monachii, 1830-1834.
- Descrip. Hesp.*--Description of New Species of Hesperidæ. W. C. Hewitson. London. Van Voorst, 1867-1869.
- Diss. Ent. Suec.*--Dissertatio Entomologico Sistens Insecta Suecia. C. P. Thunberg. Upsaliæ, 1784-1795.
- Dup. Icon.*--Iconographie et Histoire Naturelle des Chenilles, pour servir de complément à l'Histoire Naturelle des Lepidopteres ou Papillons de France par P. A. J. Duponchel (et Guenee). Paris, 1849.
- Enc. Meth.*--Encyclopedie Methodique. Paris, 1819. M. Latreille et M. Godart.

- Enc. Meth. Ins. Plates.*—Tableau Encyclopedique et Methodique des trois Regnes de la Nature. Six-huitieme partie Insectes. A. Paris, Chez Henri Agasse, Imprimeur-Libraire, rue des Poitevins. L'an V. de la Republique Francaise, 1797.
- Ent. Amer.*—Entomologica Americana. Brooklyn.
- Ent. Carn.*—Entomologia Carniolica exhibens insecta Carnioliae indigena et distributa in ordines, genera, species, varietates, methodo Linnæana. J. A. Scopoli. Vindobonæ, Trattner, 1763.
- Ent. Beyt.*—Entomologische Beytrage zu des Ritter Linné Zwölften Ausgabe des Natursystems. Leipzig, bey Weidemann, Erben und Reich, 1777.
- Ent. Mo. Mag.*—The Entomologist's Monthly Magazine. London, 1864.
- Ent. News.*—Entomological News. Philadelphia, 1890.
- Entom.*—The Entomologist. London, 1841.
- Ent. Paris.*—Entomologia Parisiensis. Paris, 1785. A. F. Foureroy.
- Ent. Rep. State of Missouri.*—Annual Reports on the Noxious, Beneficial and other Insects of the State of Missouri. C. V. Riley.
- Ent. Russ.*—Entomographia imperii russici; Genera Insectorum Systematicæ expositæ et analysi iconographica instructa. Edw. Eversmann. Moscou, 1851.
- Ent. Syst.*—Entomologia Systematica emendata et Aucta, Secundum classes, ordines, genera, species, adjectis synonymis, locis, observationibus, descriptionibus. Hafniæ, 1793-1794. J. C. Fabricius.
- Ent. Syst. Suppl.*—Supplementum Entomologiæ Systematicæ. Hafniæ, Proft et Storch, 1798. J. C. Fabricius.
- Ent. Tidsch.*—Entomologische Tidschrift.
- Eur. Ins.*—De Europische Insecten. Maria Sibylla Merian. Tot Amsterdam. By J. F. Bernard, 1730.
- Eur. Schmett.*—Systematische Beschreibung der europäischen Schmetterlinge. J. W. Meigen. Aachen und Leipzig, 1829-1832.
- Eur. Schmett.*—Sammlung Europäischer Schmetterlinge. J. Huebner. Augsburg. 1805-1832.—Geschichte europäischer Schmetterlinge gesammelt von J. Huebner, in Augsburg, 1806-1834.
- Ex. Schmett.*—Sammlung Exotischer Schmetterlinge errichtet von Jacob Huebner. Augsburg, 1806-1824.
- Faun. Bor. Am.*—Fauna boreali-Americana. J. Richardson. (William Kirby). Pt. 4. London. Longman, 1837.
- Faun. Ent. And.*—Faune entomologique de l'Andalousie. J. P. Rambur. Paris. Art. Bertrand, 1838-1839.
- Faun. Ent. Mad.*—Faune entomologique de Madagascar, Bourbon et Maurice, Lepidopteres. Avec des notes Sur les mœurs par M. Sganzin. J. A. Boissduval, Paris. Roret, 1833.
- Faun. Etr.*—Fauna Etrusca, Sistens insecta, quæ in provinciis Florentina et Pisana præsertim Collegit. P. Rossi. Liburni, Thomæ Masi, 1790.
- Faun. Græn.*—Fauna Grœnlandica. Hafniæ et Lipsiæ. Roth, 1780. Otto Fabricius.
- Faun. Suec.*—Fauna Suecico Sistens Animalia Sueciæ Regni. C. von Linné. Stockholmiae. Laurentii Salvii, 1746.
- Field and Forrest.*—Washington, D. C.
- Gay. Faun. Chil.*—Gay historia física y política de Chile Zoologia. 1852.
- Gen. Crust. et Ins.*—Genera Crustaceorum et Insectorum. P. A. Latreille. Parisiis et Argentorat. Amand Koenig, 1806-1809.

- Gen. Diur. Lep.*—The Genera of Diurnal Lepidoptera, comprising their generic characters, a notice of their habits and transformations, and a catalogue of the species of each genus; illustrated with 86 plates by W. C. Hewitson and Edward Doubleday. Longman. London, 1846-1852.
- Gen. et Sp. Ins.*—Caroli De Geer generis et Species insectorum et generalissimæ auctoris Scriptis extraxit, digessit, latine quand. partem reddidit, et terminologiam insectorum Linneanam addidit. A. J. Retzurs. Lipsiæ. Crusé, 1783.
- Gen. Ind. Meth.*—Genera et Index Methodicus europæorum Lepidopterorum. J. A. Boisdual. Paris. Roret, 1840.
- Gen. Ins.*—Genera Insectorum eorumque characters naturales secundum numerum figurarum, situm et proportionem omnium partium oris adjecta mantissa specierum nuper detectarum. Chilonii, Bortsch. J. C. Fabricius.
- Gmel. Syst. Nat.*—Caroli a Linné Systema Naturæ. Lipsiæ, 1788. J. F. Gmelin.
- Griff. Cuv. An. King.*—The Animal Kingdom. Arranged in conformity with its organization, by Baron Cuvier, etc. The Class Insecta, with supplementary additions to each order, by Edward Griffith, Edward Pidgeon and George Gray. London. Whitaker, Treacher & Co., 1832. Vol. XIV, XV.
- Handbuch.*—Handbuch für Schmetterlingsliebhaber besonders für Anfänger im Sammeln. J. W. Meigen. Aachen, la Ruelle, 1827.
- Harris Ins.*—A Report on the Insects of Massachusetts. Cambridge, 1841.
- Harris Ins. Flint's Ed.*—A Treatise on some of the Insects Injurious to Vegetation. Boston, 1862.
- Hayden's Rep. Exp. Montana.*—Preliminary Report of the U. S. Geog. Survey of Montana. Washington, 1872.
- Hist. Anim. Sans Vert.*—Histoire Naturelle des Animaux sans Vertèbres. J. Lamarek. Paris. Verdière, 1815-1822.
- Hist. Cub. Anim. Art.*—Histoire Physique, Politique et Naturelle de l'Île de Cuba par M. Raymond de la Sagra. Paris. Arthus Bertrand, 1857.
- Hist. Ins.*—Historia Insectorum. John Ray. Londoni. A. and J. Churchill, 1710.
- Hist. Jamaica.*—A Voyage to the Islands of Madera, Barbados, Nieves, S. Christophers and Jamaica, etc. By Hans Sloane. London, 1707-1725.
- Hist. Nat. Crust. et Ins.*—Histoire naturelle, générale et particulière. Des Crustacés et des Insectes. P. A. Latreille. Paris. Dufart, 1802-1805.
- Hist. Nat. Ins.*—Histoire naturelle des Insectes Orthoptères, Neuroptères, Hemiptères, Hymenoptères, Lépidoptères et Diptères; avec une introduction par M. Brullé. E. Blanchard. Paris. Dumenil, 1840.
- Hist. Nat. des Lep.*—Histoire Naturelle des Lépidoptères ou papillons de France, descript par M. Godard, peints par M. C. Vautier. Paris. Crevot, 1821.
- Hist. Sketch Gen. Names, etc.*—From Proc. Am. Acad. Arts and Sci. Boston.
- Hitch. Rep. Geol. Min.*—Report on the Geol. Min. Bot. and Zoology of Mass. By Edw. Hitchcock. Amherst, 1833.
- Hueb. Beitr.*—Beitrage zur geschichte der Schmetterlinge. Augsburg. J. Huebner, 1786 1790.
- Icon. Chen. et Lep.*—In Annales de la Société Linnéenne de Lyon. 1858-1870.
- Icon. Du Règ. An.*—Iconographie du Règne Animal de G. Cuvier, ou représentation d'après nature de l'une des espèces les plus remarquables et souvent non encore figurees, de chaque genre d'animaux avec un texte descriptif mis au courant de la Science. Ouvrage pour servir d'atlas à tous les traités de Zoologie par M. F. E. Guérin-Ménéville. Paris. J. B. Baillière, 1829 1844. 2 vols.

- Icones.*—Icones historique des Lepidoptères d'Europe, nouveaux ou peu connus. Collection avec figures coloriées de Papillons d'Europe nouvellement découverts. Ouvrage formant les complément de tous les auteurs iconographes. J. A. Boisduval. Paris. Roret, 1832-1843.
- Ill. Brit. Ent. Haust.*—Illustrations of British Entomology. Haustellata. James Francis Stephens. London. Baldwin and Cradock.
- Ill. Diur. Lep.*—Illustrations of Diurnal Lepidoptera. W. C. Hewitson. London. Van Voorst, 1867-1877. Suppl. 1869.
- Ill. Ex. Butt.*—Illustrations of New Species of Exotic Butterflies. W. C. Hewitson. London. Van Voorst, 1851.
- Ill. Ex. Ent.*—Illustrations of Natural History. Dru Drury. London. White, 1770, 1782. 3 vols.
- Ill. Mag.*—Illiger's Magazin für Insektenkunde.
- Ind. Ent.*—Index Entomologicus, or a complete illustrated catalogue of the Lepidopterous Insects of Great Britain. William Wood. London, 1845.
- Ind. Ex. Lep.*—Index exoticorum Lepidopterorum in foliis 244 a J. Huebner o hactenus effigiatorum. Augusta Vindelicorum, 1821.
- Ind. Syst. Reg. Corr.-Blatt.*—Lepidopterorum Index Systematicus. In Correspondenz Blatt des Zool.-Min. Vereins, in Regensburg.
- Ins. Afr. et Am.*—Insectes recueillis en Afrique et en Amerique dans les royaumes d'Oware, à Saint-Dominque et dans les Etats-Unis pendant les années 1786-1797. De Beauvois. Paris. Levrault, Schoell et Cie, 1805-1821.
- Ins. Ga.*—The Natural History of the Rarer Lepidopterous Insects of Georgia, including their systematic characters, the particulars of their several metamorphoses and the plants on which they feed. Collected from the observations of John Abbott, many years resident in that country. London, 1797. 2 vols. By John Abbott and James Edward Smith.
- Ins. Ind.*—An Epitome of the Natural History of the Insects of India and the Islands of Indian Seas. Edw. Donovan. London, 1800-1803.
- Ins. Lapp.*—Insecta Lapponica descripta. J. W. Zetterstedt. Lipsiæ, Voos, 1840.
- Ins. Mus. Græc.*—Insecta Musei Græcensis, quæ in ordines, genera et species, juxta Systema Naturæ Linnæi digessit. N. Poda von Neuhaus. Græcii, Widmanstad, 1761.
- Ins. Sur.*—Maria Sybilla Meriæn Over de Voortteeling en Wonderbærlyke Veranderingen der Surinæmsche Insecten. 1719.
- Jnl. Ent.*—Journal of Entomology. 1862.
- Jnl. Lin. Soc. Lond.*—Journal of the Linnean Society. London, 1857.
- Joh. Amæn. Acad.*—Amœnitates Academicæ, Seu Dissertationes variæ Physicæ, Medicæ, Antehac seorsim editæ nunc collectæ et auctæ cum tabulis æneis. Lugduni Batavorum Haak. Carl von Linné.
- Kirby Cat.*—A Synonymic Catalogue of Diurnal Lepidoptera. London, 1871. Suppl. 1871.
- Knoch. Beitr. Ins.*—Beitrage zur Insectengeschichte. Leipzig. Schwickert, 1781-1783.
- Kotzeb. Reise.*—Kotzebues Reise um die Welt. Wiemar. 1830.
- Lep. Am. Sept.*—Histoire générale et iconographique des Lepidoptères et des Chenilles de l'Amerique septentrionale. J. A. Boisduval and John E. LeConte. Paris, 1833.
- Lep. Cal.*—Lepidoptères de la Californie; in Annales de la Société Entomologique de Belgique. Vol. XII, 1868-1869, p. 8-94.

- Lep. Exot.*—Histoire naturelle des Lépidoptères exotiques. H. Lucas. Paris, 1835.
- Lep. Erot.*—Lepidoptera Exotica, or Descriptions and Illustrations of Exotic Lepidoptera. A. G. Butler.
- Lep. Fr. Suppl. I-IV.*—Histoire Naturelle des Lépidoptères de France. Supplément. P. A. J. Duponchel. Paris. Mcquignon-Marvis, 1832-1842.
- Lep. de la Cal.*—Annales de la Société Entomologique de France, 2nd Ser. Vol. X, 1852, p. 275-324.
- Lep. Pedemontana.*—Lepidoptera Pedemontana. Leonardo De Brunner. Turin, 1798.
- Lep. Rhop.-Het.*—Lepidoptera Rhopaloceres and Heteroceres, Indigenous and Exotic, with colored illustrations. Ferdinand Heinrich Herman Strecker. Reading, Pa. Printed for the Author, 1872-1878.
- List. Lep. B. M.*—List of the Specimens of Lepidopterous Insects in the Collection of the British Museum. Francis Walker. London.
- Mag. Ins.*—Magazin für Insektenkunde. Braunschweig, 1806-1807.
- Mun. Brit. But.*—A Manual of British Butterflies and Moths. H. T. Stainton. London. Van Voorst. Vol. I, 1857; Vol. II, 1859.
- Man. Eur. Butt.*—Manual of European Butterflies. W. F. Kirby. London, 1862.
- Mant. Ins.*—Mantissa Insectorum sistens species nuper detectas adjectis synonymis observationibus, descriptionibus, emendationibus. Hafniæ, 1787. J. C. Fabricius.
- Mant.*—Mantissa Plantarum Altera Generum editionis VI & Specierum editionis II. C. von Linne. Holmiæ, Laurentii Salvii, 1771.
- Mayn. Mun.*—Maynard's Manual.
- Mem. Acad. Tur.*—Mémoires de l'Acad. de Turin, 1801.
- Mem. Bost. Soc. Nat. Hist.*—Memoirs Boston Society of Natural History, 1869.
- Mem. Nat. Hist. Is. Cuba.*—Memorias Sobre la Historia Natural de la Isla de Cuba. F. Poey. Habana, 1851-1858.
- Morris Syn.*—Synopsis of the Described Lepidoptera of North America. J. G. Morris. Smithsonian Institution. Washington. D. C., 1862.
- Mus. Lud. Utr.*—Museum S.: æ R.: æ M.: tis Ludovicæ Ulricæ Reginae Svecorum, gothorum, Vandalorumque etc. In quo Animalia Rariora, Exotica, Imprimis Insecta et Conchilia describuntur et determinantur. C. von Linné. Holmiæ, 1764.
- Nat. Miss.*—The Naturalist's Miscellany. George Shaw, 1790-1813.
- Nat. Hist. Car.*—The Natural History of Carolina, Florida and the Bahama Islands. Mark Catesby. London. W. Innys and R. Manby, 1743.
- Nat. Lib. Ent.*—The Natural History of Butterflies. James Duncan. Edinburgh, 1835. Vol. III, IV and VII of the Naturalist's Library.
- Nat. Rep.*—The Naturalist's Repository. Edw. Donovan. London, 1823-1827.
- Natur. Schmett.*—Naturgeschichte der Europäischen Schmetterlinge nach Systematischer Ordnung. M. B. Borkhausen. Frankfurt, Varrentrapp u. Wenner, 1788-1789.
- Nat. Schmett.*—Natursystem aller bekannten in und ausländischen Insekten als eine Fortsetzung der von Büffonschen Naturgeschichte, nach dem System des Ritters Carl von Linne bearbeitet Carl Gustav Jablonsky. 1783-1804.
- Neue. Beit.*—Neuere Beiträge zur Schmetterlingskunde mit Abbildungen nach der Natur. Augsburg, 1833. C. F. Freyer.
- Neu. Lep.*—Ein Neues Lepidopteron aus der Familie Nymphaliden. From Act. Acad. Leopold. Carol. 5, 28, 1861.

- New. Eng. Farmer.*—New England Farmer.
- Neu. Mag.*—Neuste Magazin für die Liebhaber der Entomologie. Stralsund, Struck, 1791.
- Newm. Ent.*—The Entomologist. London. John Van Voorst, 1840.
- Nom. u. Besch. Ins.*—Nomenclatur und Beschreibung der Insecten in der Grafschaft Hanau-Munzenberg, wie auch der Wetterau und der angrenzenden Nachbarschaft dies und jenseits des Mains, mit erleuchteten Kupfertafeln herausgegeben. J. A. B. Bergstrasser. Hanau, 1779-1780.
- Nouv. Mem. Soc. Mosc.*—Nouveaux Memoires de la Société Impériale des Naturalistes de Moscou.
- Pap. Brit. Icon.*—Papilionum Britannicæ Icones, Nomina, ect. James Petiver. London, 1717.
- Packard's Guide.*—Guide to the Study of Insects. A. S. Packard.
- Pap. D'Eur.*—Papillons d'Europe, peints d'après Nature par M. Ernst, gravés et coloriés sous sa direction. Les Chenilles, Chrysalides et Papillons de Jour. Décrits par Engramelle Relig. Augtin Q. S. G. Paris, 1779-1792.
- Pap. Diur. Chenu.*—Encyclopedie d'Histoire Naturelle, ou traite complet de cette Science d'après les travaux des naturalistes les plus éminent des tous les pays et de toutes les époques Buffon, Daubenton, ect., ect., par le Dr. Chenu. Paris, 1851.
- Pap. Eur.*—Histoire naturelle des Lépidoptères d'Europe, ouvrage orne de près de 400 Figures peintes d'après naturæ par A. Noel. H. Lucas. Paris, Pauquet, 1834.
- Pap. Exct.*—Papillons exotiques des trois parties du monde l'Asie l'Afrique et l'Amerique rassembles et décrits par M. Pierre Cramer, dessinés sur les originaux, gravés et enluminés sous sa direction. Amsteldam, Baalde, Utrecht, Barthelemy Wild, 1779-1782.
- Pap. Gt. Brit.*—The Papilios of Great Britain. J. W. Lewin. London. Johnson, 1795.
- Petiv. Gazoph.*—Gazophylacii Naturæ et Artis Decas prima (-V), ect. Jacobus Petiver. Londoni, 1702-1705.
- Petiv. Mus.*—Musei Petiveriani Centuria Prima (-X) Rariora naturæ continens: viz., Animalia, Fossilia, Plantas, ex Variis Mundi Plagis advecta, Ordine digesta, et Nominibus propriis signata. A. Jacobo Petiver. Londoni. Pauli, 1695-1703.
- Proc. Acad. Nat. Soc. Phil.*—Proceedings of the Academy of Natural Sciences of Philadelphia.
- Proc. Am. Ac. Bost.*—Proceedings of the American Academy of Arts and Sciences. Boston. 1846.
- Proc. Am. Ass. Adv. Sc.*—Proceedings of the American Association for the Advancement of Science.
- Proc. Bost. Soc. Nat. Hist.*—Proceedings of the Boston Society of Natural History, 1841.
- Proc. Cal. Acad. Nat. Sci.*—Proceedings of the California Academy of Natural Sciences. 1854.
- Proc. Clev. Acad. Sc.*—Proceedings of the Cleveland Academy of Natural Science.
- Proc. Davenport Acad. Sci.*—Proceedings of the Davenport Academy of Natural Sciences. 1867.
- Proc. Ent. Soc. Phil.*—Proceedings of the Entomological Society, of Philadelphia.
- Proc. Essex Inst.*—Proceedings of the Essex Institute. 1848.

- Proc. Zool. Soc. Lond.*—Proceedings of the Zoological Society of London. 1830.
- Prodr. Lep. Reg. Corr.-Blatt.*—Prodromus Systematis Lepidopterorum.
- Psyche.*—Cambridge, Mass.
- Psyche.*—Figures of nondescript Lepidopterous Insects, or Rare Moths and Butterflies from different parts of the world. Thos. Martyn. London. 1797.
- Reise Nov. Lep.*—Reise der Oesterreichischen Fregatte Novara. Rhopalocera, Wien, 1864–1867. Cajetan Felder.
- Rep. N. Y. State Agr. Soc.*—Reports on the Noxious and Beneficial and other Insects in the State of New York. 1854.
- Repts. Peabody Acad.*—Reports of the Peabody Academy of Science. 1869.
- Rev. Zool.*—Revue et Magazin de Zoologie. Paris.
- Rhop. Afr. Austr.*—Rhopalocera Africae Australis. Roland Trimen. Cape Town. W. F. Mathew, 1862.
- Ruff.*—Annual Report upon Explorations and Surveys in the Department of the Missouri, by E. H. Ruffner, First Lieutenant Eng. U. S. A., being appendix R. R. of the Annual Report of the Chief Engineers for 1877. Washington, D. C., 1877.
- Sagra Hist. Nat. Cuba.*—Historie Physique et Politique et Naturelle de l'Isle de Cuba, Animaux articulés. Paris. Bertrand, 1857.
- Samm. Ausseur. Schmett.*—Sammlung neuer oder wenig bekannter aussereuropäischer Schmetterlinge. Herrich-Schaeffer. Regensburg, 1850–1858.
- Say. Am. Ent.*—American Entomology. Thomas Say, 1824.
- Schæf. Icon.*—Icones Insectorum Ratisbonensium Methodo Systematica illustrata et Indice Systematico auctæ a D. Georg. Wolfgango Francisco Panzero. J. C. Schæffer. Editio nova Erlangæ. J. J. Palmii, 1804.
- Schmett. Cuba, Corr.-Blatt Zool. Min. Ges.*—Schmetterlinge aus Cuba. In the Correspondenz-Blatt des Zool.-Min. Vereines in Regensburg.
- Schmett. Eur.*—Systematische Bearbeitung der Schmetterlinge von Europa. G. A. W. Herrich-Schaeffer. Regensburg, 1843–1856.
- Schmett. Schweiz.*—Verzeichniss der Schmetterlinge der Schweiz. L. R. Meyer-Duer, 1852.
- Shaw Zool.*—General Zoology of Systematic Natural History. George Shaw.
- Sill. Jnl. Sc. 2nd. Ed.*—Silliman's Journal of Science.
- Skand. Dagf.*—Skandinaviens Dagfjärilar. Cronholm, 1853.
- Sp. Gen.*—Histoire Naturelle des Insectes. Species générales des Lépidoptères. Tome premier. J. A. Boissduval. Paris. Roret, 1836.
- Sp. Ins.*—Species Insectorum exhibentes eorum differentias specificas, synonyma auctorum, loca natalia, metamorphosin adjectis observationibus, descriptionibus. Hamburgi et Kilonii, 1781. J. C. Fabricius.
- Stett. Ent. Zeit.*—Entomologische Zeitung herausgegeben von dem Entomologischen Vereine zu Stettin. 1840.
- Stgr. Cat.*—Catalog der Lepidopteren des Europäischen Faunengebiets. Staudinger & Wocke. Dresden, 1871.
- Sup. Cram.*—Aanhangsel van het Werk, de Uitlandsche Kapellen, Voorkomende in de drie Wæreld-deelen Asia, Africa en America, ect. Casper Stoll. A. Amsteldam, Chez Nic. Th. Gravius, 1791.
- Surin Vlind., III.*—Surinaamsche Vlinders, naar het, leven geteekned. Christ. Sepp. Amsterdam, 1848–1855.
- Syst. Besch.*—Systematische Beschreibung les Europäischen Schmetterlinge. D. H. Schneider. Halle, Hemmerde, 1787.

- Syst. Ent.*—Systema Entomologiæ Sistens Insectorum classes, ordines, genera, species, adjectis synonymis, locis, descriptionibus, observationibus. Flensburgi et Lipsiæ, 1775. J. C. Fabricius. Vol. I.
- Syst. Nat.*—Systema Naturæ Per Regna tria naturæ Secundum classes, ordines, genera, species, cum characteribus, differentiis, synonymis, locis. Ed. Decima Reformata. C. von Linné. Holmiae, Laurentii Salvii, 1758.
- Syst. Nat. I.* 2.—Systema Naturæ, Tom. I, Pars. 2. Editio Duodecima Reformata. Holmiae, 1767.
- Syst. Rev. Am. Butt.*—In Report of the Peabody Academy of Science for 1871. The Butterflies of the Eastern United States. G. H. French. 1st and 2d Editions. The Butterflies of New England. C. J. Maynard. Boston, 1886.
- Thes. IV.*—Locupletissimi Rerum Naturalium, etc. Albertus Seba. Tomus IV. Amstelædami, apud H. C. Arkstenum et H. Mercurium et Petrum Schouten, 1765.
- Trans. Am. Ent. Soc.*—Transactions of the American Entomological Society. Phila.
- Trans. Chicago Acad. Sc.*—Transactions of the Chicago Academy of Sciences. 1869.
- Trans. Ent. Soc. Lond.*—Transactions of the Entomological Society of London. 1856.
- Trans. St. Louis Acad.*—Transactions of the Academy of Science of St. Louis. 1856.
- Treits. Die.*—Schmetterlinge von Europa. Leipzig. Friedrich Treitschke.
- Uhler. Pat. Office Report.*—Agriculture.
- Unt. Nat., II.*—Unterhaltungen aus der Naturgeschichte der Insecten. Zweiter Theil. G. T. Wilhelm. Augsburg, 1797.
- U. S. Agric. Rep.*—Reports of the United States Department of Agriculture. Washington, D. C.
- Verh. L.-C. Ak.*—Verhandlungen der königl. Leopoldinisch-Carolinisch deutschen Akademie der Naturforscher. Dresden.
- Vetensk. Acad. Handl.*—In Kongl. Vetenskaps Academiens Handlingar. Stockholm, 1816.
- Verh. Zool. Bot. Ges.*—Verhandlungen der Kaiserlichen-Königlichen, Zoologisch Botanischen Gesellschaft in Wien. 1858.
- Verh. Zool. Bot. Ver.*—Verhandlung des Zoologisch-Botanischen Vereins in Wien. 1852.
- Verz. Bek. Schmett.*—Verzeichniss bekannter Schmetterlinge. Verfasst von Jakob Hübner. Augsburg, 1816.
- Wien. Ent. Mon.*—Wiener Entomologische Monatschrift. Wien, 1857.
- Wien. Verz.*—Systematisches Verzeichniss der Schmetterlinge der Wiener gegend, herausgegeben von einigen Lehrern am K. K. Theresianum. Wien, 1776. By Ignaz Schiffermüller and Michael Denis.
- Zool. Ill.*—Zoological Illustrations. W. Swainson. London. Baldwin & Co., 1820-1832.
- Zool. Mis.*—Zoological Miscellany. W. E. Leach. London. McMillan, 1815-1817.
- Zool. Lond.*—The Zoologist. London. 1843.
- Zooph.*—Zoophylacium Gronovianum, Exhibens Animalia quadrupeda, Amphibia, Pisces, Insecta, Mollusca, Testacea, et Zoophyta, Quæ in Museo suo adseruari exanimi Subiecit Systematice disposuit atque descripsit Laur. Theod. Gronovius, etc. Additis rarissimorum objectorum iconisimis. 2 vols. 1763-1764.
- Zutr. Exot. Schmett.*—Zuträge zur Sammlung Exotischer Schmetterlinge, bestehend in Bekundigung einzelner Fliegmuster neuer oder rarer nicht europäischer Gattungen. Augsburg, 1818-1832. Continued by Carl Geyer, 1832-1837.
- Wheeler's Rep.*—Report upon Geographical and Geological Explorations and Surveys. Washington, D. C., 1875.

ABBREVIATIONS OF GEOGRAPHICAL NAMES.

Antic.—Anticosti.
Ark.—Arkansas.
Ariz.—Arizona.
Assa.—Assiniboia, Canada.
Atl.—Atlantic.
Br. Am.—British America.
Br. Col.—British Columbia.
Cal.—California.
Cent. Am. } Central America.
C. Am. }
Col.—Colorado.
Conn.—Connecticut.
Dak.—Dakota.
Ga.—Georgia.
Gulf St.—Gulf States.
Ia.—Iowa.
Ill.—Illinois.
Ind.—Indiana.
Ind. Terr.—Indian Territory.
Kans.—Kansas.
Ky.—Kentucky.
Labr.—Labrador.
L. I.—Long Island.
Mass.—Massachusetts.
Md.—Maryland.
Me.—Maine.
Mex.—Mexico.
Mich.—Michigan.
Minn.—Minnesota.
Miss.—Mississippi.
Mo.—Missouri.

Mont.—Montana.
N. B.—New Brunswick.
N. C.—North Carolina.
N. E.—New England.
Neb.—Nebraska.
N. F'land.—Newfoundland.
Nev.—Nevada.
N. H.—New Hampshire.
N. J.—New Jersey.
N. Mex.—New Mexico.
N. Sco.—Nova Scotia.
N. Y.—New York.
N. W. Terr.—North West Territory,
 Canada.
Ont.—Ontario.
Oreg.—Oregon.
Pa.—Pennsylvania.
Pac.—Pacific.
Queb.—Quebec.
S. Am.—South America.
San Berno.—San Bernardino.
Saskatch.—Saskatchewan.
St.—States.
Tenn.—Tennessee.
U. S.—United States.
Va.—Virginia.
Vanc. Isld.—Vancouver's Island.
W. Ind.—West Indies.
Wis.—Wisconsin.
Wash.—Washington.
W. Va.—West Virginia.

SIGNS USED.

♂, male; ♀, female.

* mention of preparatory stages, or habits of butterfly.

Aber.—Aberration, sport.

Auct.—On authority of.

Coll.—Collection of.

By.—Taken by.

North American Rhopalocera.

NYMPHALIDÆ.

DANAINÆ.

DANAIS Latreille.

1. **Plexippus** Linn., Syst. Nat. Ed. 10, 471. 1758.

Linn., Mus. Lud. Ulr. 262, 1764.

Cram., Pap. Ex. 3, t. 206, E. F. 1782.

De Beauv., Ins. Afr. et Am. 172, t. 4, f. 1a, 1b, 1805.

Latr., Hist. Nat. Crust. et Ins. 14, 108, 1805.

Latr., Gen. Crust. et Ins. 4, 200, 1809.

Esch., Kotzeb. Reise, 3, 209, t. 7, 1821.

Say, Am. Ent. 3, t. 54, 1828.

Peale, Lep. Am. 1, t. 7, 1833.

Scud., Buff. Bull. 2, 245, 1875.

Streck., Cat. 105, 1878.

Scud., But. East U. S. and Can. 1, 720, pl. 1, f. 7, 1889.*

archippus Fab., Ent. Syst. 3, 1, 49, 1793.

Abb.-Sm., Ins. Ga. 1, t. 6, 1797.

Godt.-Enc. Meth. 9, 184, 1819.

Brown, Const. Mis. But. 1, 156, t. 23, 1832.

Bdl.-Lec., Lep. Am. Sept. 137, t. 40, 1833.

Morris, Syn. 38, 1862.

Harris, Ins. Inj. Veg. Flint's Ed. 280, 1862.

Riley, 3d Mo. Ent. Rep. 143, 1871.*

Saund., Can. Ent. 5, 4, f. 1-5, 1873.

Edw., Can. Ent. 5, 9, 1873.

Mead, Wheeler Rep. 5, 750, 1875.

Edw., Can. Ent. 8, 119, 1876.*

Lewellyn, Ent. Mo. Mag. 13, 108, 1876.

Dist., Tr. Ent. Soc. Lond. 93, 1877.

Edw., Can. Ent. 10, 224, 1878.

Edw., Psyche 2, 169, 1878.*

Mundt, Can. Ent. 11, 239, 1879.*

Bowles-Hagen, Rept. Ent. Soc. Ont. 1880.

Burg., Mem. Bost. Soc. N. Hist. 1880.

Moff., Can. Ent. 12, 37, 1880.

Thaxt., Can. Ent. 12, 37, 1880.

Thaxt., l. c. 12, 38, 1880.*

Fern., But. Me. 34, 1884.*

Edw., Cat. 25, 1884.

French, But. 144, f. 36, 37, 38, 39, 1885.*

Walker, Ent. Mo. Mag. 22, 207, 1886.

Biol. Cent.-Am. 1, 2, 1879-1886.

Mayn., But. 7, pl. 1, f. 8, 8a, 1886.

Moffat, Can. Ent. 20, 136, 1888.

Edw., Can. Ent. 20, 84, 1888.*

Scud., Psyche 3, 5, 1882.*

Gillette, Can. Ent. 20, 133, 1888.

Moffat, Can. Ent. 20, 133, 1888.

Scud., Psyche 5, 63, 1888.*

Emerton, Pr. Bost. Soc. N. H. 23, 457, pl. 3, 1888.*

Morton, Can. Ent. 20, 226, 1888.*

Moffat, Can. Ent. 21, 19, 1889.*

erippus Cram., Pap. Ex. 1, t. 3, A. B. 1779.

Kirby, Cat. 7, 1871.

megalippe Hüb., Samm. Exot. Schmett. 2, 1806-24.

menippe Hüb., Verz. Bek. Schmett. 16, 1816.

Petiver, Mus. 52. 527, 1696-1703.

Catesby, Nat. Hist. Car. 2, 88, t. 88, 1743.

Var. fumosus Hulst, Ent. Am. 2, 182, 1886.

Hab.—U. S., Br. Am., Ont., N. Sco., Vanc. Cosmopolitan.

2. **Berenice** Cram., Pap. Exot. 3, t. 205, E. F. 1782.

— Sloane, Jamaica 2, 214, u. 8, t. 239, f. 5, 6, 1725.

Fabr., Mant. Ins. 2, 27, 1787 (*erippus*).
Abb.-Sm., Ins. Ga. 1, t. 7, 1797* (*gilipus*).

Hüb., Verz. Bek. Schmett. 16, 1816 (*erippe*).

Godt., Enc. Meth. 9, 186, 1819 (*erippe*).
Bdl.-Lec. Lep. Am. Sept. 134, t. 39, 1833.

Morris, Syn. 37, 1862.

Kirby, Cat. 7, 1871.

Mead, Wheeler's Rep. 5, 750, 1875.

Scud., Buff. Bull. 2, 246, 1875.

Streck., Cat. 106, 1878.

Edw., Cat. 25, 1884.

French, But. 146, 1885.

Biol. Cent.-Am. 1, 4, 1879-1886.

Hab.—So. States; Col., N. Mex., Ariz., Mex., Cent. Am., Brazil.

Var. strigosa Bates, Ent. Mo. Mag. 1, 32, 1864.

Kirby, Cat. 8, 1871 (*var. strigosa*).

Scud., Buff. Bull. 2, 246, 1875.

Streck., Cat. 107, 1878.

Edw., Cat. 267, 1884.

Aaron, Pap. 4, 175, 1885.

Biol. Cent.-Am. 1, 4, 1877-86 (*berenice*).

Hab.—Texas, Ariz.

CERATINIA Fabricius.

3. **Lycaste** Fabr., Ent. Syst. 3, 1, 161, 1793.

Reak., Proc. Ent. Soc. Phila., 5, 218-219, 1865.

Reak., l. c. 222.

Kirby, Cat. 26, 1871.

Scud., Buff. Bull. 2, 246, 1875.

Streck., Cat. 107, 1878.

Hab.—Los Angeles, Cal.

Var. negreta Reak., Proc. Ent. Soc. Phila. 5, 220, 1865.

Kirby, Cat. 16, 1871.

Scud., Buff. Bull. 2, 247, 1875.

Streck., Cat. 107, 1878.

Hab.—Los Angeles, Cal.

MECHANITIS Fabricius.

4. **Californica** Reak., Proc. Ent. Soc. Phila. 5, 223, 1865.

Kirby, Cat. 24, 1871.

Scud., Buff. Bull. 247, 1875.

Streck., Cat. 107, 1878.

Hab.—Los Angeles, Cal.

DIRCENNA Doubleday.

5. **Klugii** Hüb., Zentr. Ex. Schmett. f. 801, 802, 1837.

Kirby, Cat. 20, 1871.

Edw., Cat. 25, 1884.

Biol. Cent.-Am. 1, 28, 1878-1886.

Hab.—Rio Grande, Texas; Mex., C. Am.

HELICONINÆ.

HELICONIUS Latreille.

6. **Charitonius** Linn., Syst. Nat. Ed. 12, 2, 757, 1767.

— Sloane, Hist. Jamaica 2, t. 239, f. 15, 16, 1725.

Fabr., Syst. Ent. 462, 1775.

Cram., Pap. Ex. 2, t. 191, 1779.

Hüb., Verz. Bek. Schmett. 13, 1816.

Godt., Enc. Meth. 9, 210, 1819.

Bdl.-Lec., Lep. Am. Sept. 140, t. 41, 1833.

Lucas, Pap. Ex. t. 50, 1835.

Morris, Syn. 39, 1862.

Scud., Buff. Bull. 2, 247, 1875.

Streck., Cat. 107, 1878.

Edw., Pap. 1, 210, 1881.*

Edw., Can. Ent. 13, 158, 1881.*

Edw., But. 2, pl. 1, Char. 1882.*

French, But. 141, f. 35, 1885.*

Biol. Cent.-Am. 1, 151, 1879-86.

Hab.—N. Car. to Fla.; W. Ind., Cent. and South America.

NYMPHALINÆ.

COLENIS Doubleday.7. **Julia** Fabr., Syst. Ent. 509, 1775.

— Seba, Thes. 4, t. 4, f. 19, 20, 1765.

Cram., Pap. Ex. 3, t. 215, f. A. F. G.,
1782 (*alcionea*).

Herbst, Nat. Syst. Schmett. 4, t. 67,
1790.

Hüb., Samm. Ex. Schmett. 1806-1816.

Verz., Bek. Schmett. 32, 1816.

Godt., Enc. Meth. 9, 244, 1819.

Lucas, 102, t. 53, 1835.

Kirby, Cat. 147, 1871.

Scud., Buff. Bull. 2, 257, 1875.

Streck., Cat. 10, 1878.

Edw., Cat. 25, 1884.

French, But., 147, 1885.

Muller, Zool. J. B. 1, 435, 1886.*

Hab.—So. Fla., Tex., Mex., Cent. and S.
Am.

8. **Delila** Fab., Syst. Ent. 510, 1775.

— Sloane, Hist. Jamaica 11, t. 239,
f. 21, 22, 1725.

Hüb., Verz. Bek. Schmett. 32, 1816.

Godt., Enc. Meth. 9, 244, 1819.

Kirby, Cat. 147, 1871.

Scud., Buff. Bull. 2, 257, 1875.

Streck., Cat. 108, 1878.

Dewitz, Verh. L.—C. Ak. 14, 248, pl.
8, f. 6, 6a, 1882.*

Edw., Cat. 25, 1884.

French, But. 390, 1896.

Biol. Cent.-Am. 1, 168, 1879-86.

Cillene, Cram., 3, 215, D. E. 1782.

Hab.—Tex., Mex., Cent. Am.

AGRAULIS Boisduval and LeConte.9. **Vanillæ** Linn., Syst. Nat. Ed. x, 482,
1758.

Merian, Ins. Sur. 25, 1719.

Sloane, Hist. Jamaica 2, t. 239, f. 23,
24, 1725.

Linn., Mus. Lud. Ulr. 306, 1764.

Syst., Nat. Ed. 12, 1, 2, 787, 1767.

Cram., Pap. Ex. 3, t. 212, f. A. B, 1782.

Fab., Mant. Ins. 2, 64, 1787.

Stoll., Suppl. t. 1, f. 7A, 7B, Lar. et
Pup., 1787-1791.

Herbst, Natursyst. 9, t. 254, 1798.

De Beauv., Ins. Afr. et Am. 208, t. 11c,
f. 2a, 2b, 1805.

Hüb., Samm. Ex. Schmett. 1, 1806.

Hüb., Verz. Bek. Schmett. 31, 1816.

Godt., Enc. Meth. ix, 262, 1819.

Bdl.-Lee., Lep. Am. Sept. 143, t. 42,
1833.

Morris, Syn. 40, 1862.

Kirby, Cat. 148, 1871.

H. Edw., Proc. Cal. Acad. N. Sc. 1874.*

Scud., Buff. Bull. 2, 255, 1875.

Streck., Cat. 108, 1878.

Edw., Can. Ent. 12, 122, 1880.*

Edw., Cat. 25, 1884.

Scud., But. 3, 1814, 1889.*

Biol. Cent.-Am. 1, 172, 1879-86.

Passifloræ Fab., Ent. Syst. 3, 60, 1793.

Sm.-Abb., Ins. Ga. 1, t. 12, 1797.*

Hab.—Ariz., Cal., Pa. to Argentina.

EUPTOIETA Doubleday.10. **Claudia** Cram., Pap. Ex. 1, pl. 69,
f. E, F, 1779.

Hüb., Samm. Ex. Schmett. 1, 1806-16.

Hüb., Verz. Bek. Schmett. 30, 1816.

Dbldy., List Lep. E. M. 1, 67, 1844.

Dbldy.-Hew., Gen. Diur. Lep. 170,
1850-52.

Chenn., Pap. Diur. f. 192, 1851-57.

Reak., Pr. Ent. Soc. Phil. 6, 136, 1865.

Edw., Can., Ent. 2, 163, 1870.*

Kirby, Cat. 154, 1871.

Mead, Wheeler's Rep. 5, 750, 1875.*

Scud., Buff. Bull. 2, 258, 1875.

Streck., Cat. 109, 1878.

Edw., Can. Ent. 12, 231, 1880.*

Edw., Cat. 31, 1884.

Scud., But. 1, 519, 1889.*

Biol. Cent.-Am. 1, 174, 1879-86.

French, But. 165, f. 43, 1885.*

Mayn., But. 21, pl. 4, f. 24, 24a, 1886.

columbina Godt., Enc. Meth. 9, 260, 1819.

Bdl.-Lee., Lep. Am. Sept. 183, t. 44,
1833.

- Morris, Syn. 44, 1862.
- daunus* Herbst, Natursyst. Schmett. 9, 184, t. 256, 1798.
- Hab.*—Canada to Fla., Col., Cal., Ariz., Mex., Cent. Am., S. Am.
11. **Hegesia** Cram., Pap. Ex. 3, pl. 209, f. E, F, 1782.
- Kirby, Cat. 154, 1871.
- Streck., Cat. 109, 1878.
- Edw., Cat. 32, 1884.
- Biol. Cent.-Am. 1, 1879-86.
- columbina* Fab., Ent. Syst. 3, 1, 148, 1793.
- Godt., Enc. Meth. 9, 260, 1819.
- hortensia* Blanch., Gay, Faun. Chil. 7, 23, 1852.
- Hab.*—Cal., Tex., Mex., Antilles, Cent. and S. Am.
- ARGYNNIS** Fabricius.
12. **Diana** Cram., Pap. Ex. ♂, pl. 98, f. D, E, 1779.
- Fab., Sp. Ins. 110, ♂, 1781.
- Fab., Ent. Syst. 3, 145, 1793.
- Godt., Enc. Meth. 9, 257, 1819.
- Say, Am. Ent. 1, t. 17, ♂, 1824.
- Herbst, Natursyst. Schmett. 9, 169, t. 253, 1798.
- Bdl.-Lec., Lep. Am. Sept. 149, 1833.
- Morris, Syn. 42, ♂, 1862.
- Edw., Proc. Ent. Soc. Phil. 3, 431, ♀, 1864.
- Edw., But. 1, 63, pl. 20, ♂ ♀, 1868.
- Edw., But. 2, pl. 7, Argyn. 1876.*
- Edw., Can. Ent. 6, 121, 1874.*
- Feld., Reise Nov. Lep. 3, 394, t. 50, 1867.
- Kirby, Cat. 155, 1871.
- Scud., Buff. Bull. 2, 258, 1875.
- Streck., Cat. 109, 1878.
- Edw., Cat. 26, 1884.
- French, But. 153, 1885.*
- Hulst, Ent. Am. 2, 183, 1886.
- Smyth, Ent. News 6, 244, 1895.
- Skinner, Ent. News 7, 318, 1896.
- Hab.*—Va. to Fla., Ohio, Ill., Ky., W. Va., Tenn., Ark.
13. **Idalia** Drury, Ill. Ex. Ent. 1, pl. 13, 1775.
- Cram., Pap. Ex. 1, t. 44, 1779.
- Fab., Syst. Ent. 516, 1775.
- Fab., Ent. Syst. 3, 145, 1793.
- Herbst, Natursyst. Schmett. 9, t. 252, 1798.
- Hüb., Verz. Bek. Schmett. 31, 1816.
- Godt., Enc. Meth. 9, 263, 1819.
- Bd.-Lec., Lep. Am. Sept. 147, t. 43, 1833.
- Brown, Constable's Mis. 3, But. 40, t. 2, 1834.
- Lucas, Pap. Ex. 108, t. 56, 1835.
- Morr., Syn. 41, 1862.
- Harris, Ins. Inj. Veg. Flint Ed. 285, f. 110, 1862.
- Kirby, Cat. 156, 1871.
- Scud., Buff. Bull. 2, p. 258, 1875.
- Streck., Cat. 109, 1868.
- Edw., Can. Ent. 11, 217, 1879.*
- Skinner, Can. Ent. 14, 20, 1882.
- Edw., Cat. 26, 1884.
- Fern., But. Me. 36, 1884.*
- French, But. 150, 1885.*
- Mayn., But. 22, pl. 3, f. 25, 25a, pl. 4, f. 25, 25 b, c. 1886.
- Scud., But. 1, 535, 1889.*
- Scud., But. 3, 1799, pl. 4, f. 8, 9, 1889.*
- Fletcher, Can. Ent. 29, 93, 1897.
- Aber. ashtaroth* Fisher, Pr. Ac. N. Sci. Phil. 1858, 179, pl. 2; l. c. 1858, 352.
- Morr., Syn. 47, 1862.
- Kirby, Cat. 157, 1871.
- astarte* Fisher, Proc. Acad. N. Sci. Phil. p. 179, t. 2, 1858.
- Scud., Buff. Bull. 2, 258, 1875.
- Hab.*—Ont., N. Brunswick, Me. to Fla., Neb., Ark.
14. **Nekomis** Edw., Pr. Ac. N. Sci. Phil. 221, 1862.†
- Edw., But. 1, 73, pl. 23, 1868. (revised)
- Reak., Proc. Ent. Soc. Phil. 6, 136, 1866.
- Kirby, Cat. 157, 1871.
- Mead, Wheeler Rep. 5, 751, pl. 35, 1875.
- Scud., Buff. Bull. 2, 259, 1875. †

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- Streck., Cat. 110, 1878.
 Edw., Cat. 26, 1884.
Hab.—N. Ariz., S. Utah.
15. **Nitocris** Edw., Tr. A. E. Soc. 5, 15, 1874.
 Mead, Rep. Wheeler Exp. 5, 751, 1875.
 Scud., Buff. Bull. 2, 259, 1875.
 Streck., Cat. 111, 1878.
 Edw., Cat. 26, 1884.
Aber. nokomis Str., Buff. Rep. pl. 1, f. 3, 4, 1879.
Hab.—S. Ariz. to Nev.
16. **Leto** Behr, Pr. Cal. Ac. Sci. 2, 173, 1862.
 Edw., But. 1, 85, pl. 29, 1869.
 Edw., Proc. Ent. Soc. Phil. 434, 1864.
 Kirby, Cat. 157, 1871.
 Streck., Lep. Rhop.-Het. 106, 1875.
 Scud., Buff. Bull. 2, 259, 1875.
 Streck., Cat. 111, 1878.
 Edw., Cat. 26, 1884.
 Skinner, Ent. News 4, 318, 1893.
cybele Bd., Lep. de la Cala. 60, 1869.
Hab.—N. W. Terr. to Utah, Wash. to Cala.
17. **Cybele** Fab., Syst. Ent. 516, 1775.
 Fab., Ent. Syst. 3, 145, 1793.
 Herbst, Natursyst. Schmett. 9, 176, t. 255, 1798.
 Hüb., Verz. Bek. Schmett. 31, 1816.
 Godt., Enc. Meth. 9, 260, 1819.
 Bd.-Lec., Lep. Am. Sept. 151, t. 45, ♀, 1833.
 Kirby, Faun. Am. Bor. 4, 289, 1837.
 Morris, Syn. 42, 1862.
 Edw., But. 1, 67, pl. 21, 1868.
 Edw., Can. Ent. 6, 121, 1874.*
 Kirby, Cat. 157, 1871.
 Saund., Can. Ent. 4, 121, 1872.*
 Scud., Buff. Bull. 2, 259, 1875.
 Streck., Cat. 111, 1878.
 Skinner, Pr. Acad. Nat. Sci. Phil. 36, 1883.
 Fern., But. Me. 38, 1884.
 Edw., Cat. 26, 1884.
 French, But. 155, 1885.*
 Mayn., But. 23, pl. 3, f. 26, 26a, 1886.
 Scud., But. 1, 554, pl. 4, f. 7, 1889.
 Edw., But. 3, 1889.*
 Skinner, Can. Ent. 24, 128, 1892.
 Skinner, Ent. News 4, 318, 1893.
daphnis Cram., Pap. Ex. 1, t. 57, 1779.
Aber. baal Streck., Cat. 111, 1878.
Hab.—Atl. and West. St. to Neb., Ont., Queb., Fort Edmonton, Br. Am., Col., N. C., Tenn., Fla.
Var. carpenterii Edw., Tr. A. E. Soc. 5, 204, 1876.
 Edw., But. pl. 11, Arg. 1889.*
Hab.—Ariz., Br. America.
18. **Charlottii** Barnes, Can. Ent. 29, 40, 1897.
 Streck., Ent. News 8, 117, 1897 (puts *charlottii* as a synonym of *leto*).
Hab.—Glenwood Springs, Col.
19. **Aphrodite** Fab., Mant., 2, 62, 1767.
 Ent. Syst. 3, 1, 144, 1793.
 Godt., Enc. Meth. 9, 264, 1819.
 Morr., Syn. 43, 1862.
 Harris, Ins. Inj. Veg., Flint Ed. 285, 286, f. 111, 1862.
 Edw., But. 1, 71, pl. 22, 1868.
 Pack., Guide 253, f. 183, 1869.
 Kirby, Cat. 157, 1871.
 Edw., Can. Ent. 6, 121, 1874.*
 Mead, Wheeler Rep. 5, 752, 1875.
 Scud., Buff. Bull. 2, 259, 1875.
 Fern., But. Me. 39, 1884.
 Streck., Cat. 111, 1878.
 Edw., Cat. 27, 1884.
 French, But. 157, f. 40, 1885.*
 Mayn., But. 24, pl. 3, f. 27, 27a, 1886.
 Scud., But. 1, 563, pl. 4, f. 7, 1889.*
 Edw., But. 3, pl. 5, Arg. 1890.*
daphnis Martyn, Psyche, t. 3, f. 7, t. 4, f. 9, 1797.
Hab.—North., Mid. and West. States to Tenn., Neb., Mont., Kans., Ont., Queb., N. Sco., Fort Edmonton, Br. Am.
Var. cypris Edw., Can. Ent. 18, 62, 1886.
Hab.—Colo., Ariz., Mont.

- Var. alcestis** Edw., Tr. A. E. Soc. 5, 289, 1876.
 Edw., Can. Ent. 13, 69, 1879.*
 Worth., Can. Ent. 10, 37, 1878.
 Streck., Cat. 112, 1878.
 Edw., Cat. 27, 1884.
 French, But. 158, 1885.*
 Scud., But. 3, 1802, 1889.*
 Edw., But. 3, pl. 6, Arg. 1890.*
Hab.—Mich., Ill., Iowa, Mont., Col., Neb.
20. **Nausicaä** Edw., Tr. A. E. Soc. 5, 104, 1874.
 Mead, Rep. Wheeler Exp. 5, 752, 1885.
 Edw., Papilio 2, 6, 1882.
 Streck., Cat. 27, 1884.
 Edw., Cat. 27, 1884.
 Edw., But. 3, pl. 10, Arg. 1887.
Hab.—Ariz.
21. **Lais** Edw., Can. Ent. 15, 209, 1883.
 Edw., Cat. 27, 1884.
 Edw., But. 3, pl. 2, Arg. 1887.
Hab.—Fort Edmonton, Br. Am. (by Geddes), Assa.
22. **Atlantis** Edw., Pr. Ac. N. Sci. Phil. 54, 1862.
 Edw., But. 1, 75, pl. 24, 1868.
 Pack., Guide 252, 1869.*
 Kirby, Cat. 158, 1871.
 Mead, Wheeler Rep. 5, 754, 1875.
 Scud., Buff. Bull. 2, 260, 1875.
 Edw., Can. Ent. 9, 35, 1877.*
 Streck., Cat. 112, 1878.
 Edw., Cat. 27, 1884.
 Fern., But. Me. 40, 1884.
 French, But. 160, f. 41, 1885.*
 Mayn., But. 24, pl. 4, f. 28, 28a, 1886.
 Edw., Can. Ent. 20, 1, 1888.*
 Scud., But. 1, 571, 1889.*
Hab.—N. E., N. Y., Iowa, Ont., Queb., N. B., N. F'land, Br. Am.
23. **Oweni** Edw., Can. Ent. 24, 105, 1892.
 Owen, Ent. News 4, pl. 11, 1893.
Hab.—California.
24. **Cornelia** Edw., Can. Ent. 24, 106, 1892.
- Owen, Ent. News 4, pl. 11, 1893.
Hab.—Colorado.
25. **Electra** Edw., Field and Forest 3, 143, 1878.
 Edw., Cat. 27, 1884.
Hab.—Col., Los Vegas, N. Mex.; Mont.
26. **Columbia** H. Edw., Pr. Cal. Ac. N. Sci., 6, 1877.
 H. Edw., Field and Forest 3, 102, 1877.
 Streck., Cat. 112, 1868.
 Edw., Cat. 27, 1884.
Hab.—Lakes Lahache and Quesnelle, Br. Col.
27. **Hesperis** Edw., Pr. E. Soc. Phil. 2, 502, 1864.
 Edw., But. 1, 79, pl. 26, 1874.
 Mead, Rep. Wheeler Exp. 5, 754, 1875.
 Reak., Proc. Ent. Soc. Phil. 139, 1866.
 Kirby, Cat. 158, 1871.
 Scud., Buff. Bull. 2, 261, 1875.
 Streck., Cat. 113, 1878.
 Edw., Cat. 27, 1884.
 Edw., Can. Ent. 20, 67, 1888.*
Hab.—Col., Utah, Mont.
28. **Hippolyta** Edw., Can. Ent. 11, 1, 1879.
 Edw., Cat. 27, 1884.
Hab.—Oreg.
29. **Bremnerii** Edw., Tr. A. E. Soc. 1, 63, 1872.
 Edw., But. 2, pl. 4 of Arg. 1874.
 Scud., Buff. Bull. 2, 26, 1875.
 Streck., Cat. 112, 1878.
 Edw., Cat. 27, 1884.
Hab.—Br. Col., Wash., Oreg.
30. **Zerene** Bd., Ann. Soc. Ent. Fr. 2, 10, 303, 1852.
 Behr., Pr. Cal. Ac. N. Sci. 2, 175, "No. 9," 1862.
 Edw., Proc. Ent. Soc. Phil. 3, 436, 1864.
 Kirby, Cat. 158, 1871.
 Scud., Buff. Bull. 2, 261, 1875.
 Streck., Cat. 113, 1878.

- Edw., Can. Ent. 11, 56, 1879.
Edw., Cat. 27, 1884.
hydaspe Bd., Lep. de la Cala. 60, 1869.
Edw., But. 1, 91, pl. 32, 1870.
Hab.—Cala., Nev.
31. **Monticola** Behr., Proc. Cal. Ac. N. Sci., 2, 175, No. 8, 1862; l. c. 3, 84, 1863.
Edw., But. 1, 81, pl. 27, 1868.
Edw., Proc. Ent. Soc. Phil. 3, 436, 1864.
Kirby, Cat. 158, 1871.
Scud., Buff. Bull. 2, 261, 1875.
Streck., Cat. 112, 1878.
Edw., Cat. 28, 1884.
Var. purpurascens H. Edw., Pr. Cal. Ac. N. Sci. 6, 1876.
Hab.—Cala., Oreg., Nev., Mont.; Summit, Br. Am. (by Geddes).
32. **Rhodope** Edw., Tr. A. E. Soc. 5, 13, 1874.
Edw., But. 2, pl. 6 of Arg. 1874.
Scud., Buff. Bull. 2, 260, 1875.
Streck. (var. R.), Cat. 113, 1878.
Edw., Cat. 28, 1884.
Hab.—Br. Col., Alberta.
33. **Behrensii** Edw., Tr. A. E. Soc. 2, 370, 1869.
Edw., But. 1, 89, pl. 31, 1870.
Kirby, Cat. 163, 1871.
Scud., Buff. Bull. 2, 260, 1875.
Streck., Cat. 113, 1878.
Edw., Cat. 28, 1884.
Hab.—Mendocino, Cal.
34. **Halecyone** Edw., ♂, But. 1, 83, pl. 28, 1869.
Kirby, Cat. 158, 1871.
Scud., Buff. Bull. 2, 260, 1875.
Mead, Wheeler Rep. 5, 754, 1875.
Streck., Cat. 112, 1878.
Edw., Cat. 28, 1883.
Edw., But. 3, pl. 5, Arg. 1890.
Hab.—Col., Wyom.
35. **Chitone** Edw., Can. Ent. 11, 82, 1879.
Edw., Cat. 28, 1884.
Hab.—Utah, Ariz., S. E. Cal.
36. **Platina** Skinner, Can. Ent. 29, 154, 1897.
Hab.—Utah, Idaho.
37. **Coronis** Behr., Pr. Cal. Ac. N. Sci. 2, 173, 1862, "No. 2."
Edw., Pr. E. Soc. Phil. 3, 435, 1864.
Kirby, Cat. 158, 1871.
Scud., Buff. Bull. 2, 260, 1875.
Streck., Cat. 112, 1878.
Scud., Bull. U. S. Geol. Surv. 254, 1878.
Edw., Cat. 28, 1884.
Edw., But. 3, pl. 4, Arg. 1887.
♀ *neradensis* Edw., But. 1, pl. 33, 1871.
juba Bd., Lep. de la Cala. 60, 1869.
Hab.—So. Cala., Shasta, Cala.; Utah: W. Terr., Mont., Belly River and Crow's Nest, Br. Am. (by Geddes).
38. **Snyderi** Skinner, Can. Ent. 29, 154, 1897.
Hab.—Utah, Idaho.
39. **Callippe** Bd., Ann. Soc. Ent. Fr. 2, 10, 302, 1852.
Edw., But. 1, 77, pl. 25, 1868.
Morr., Syn. 46, 1862.
Behr., Proc. Cal. Ac. N. Sci. 2, 172, 1858.
Edw., Pr. Ent. Soc. Phil. 3, 434, 1864.
Kirby, Cat. 158, 1871.
Scud., Buff. Bull. 2, 260, 1875.
Streck., Cat. 112, 1878.
Edw., Cat. 28, 1884.
Edw., But. 3, 1887.
Hab.—Cala.
40. **Nevadensis** Edw., ♂ (not ♀), Tr. A. E. Soc. 3, 14, 1870.
Edw. ♂ (not ♀), But. 1, 93, pl. 33, 1871 (the ♀ is *coronis*).
Kirby, Cat. 647, 1871.
Scud., Buff. Bull. 2, 260, 1875.
Streck., Cat. 110, 1878.
Mead, Wheeler Rep. 5, 755, 1875.
Edw., Cat. 28, 1884.
Edw., But. 3, pl. 5, Arg. 1890.
Var. meadii Edw., Tr. A. E. Soc. 5, 69, 1872.

- Edw., But. 2, pl. 2 of Arg. 1875.
Hab.—Nev., Utah, Mont., Calgary, Alberta.
41. **Edwardsii** Reak., Pr. E. Soc. Phil. 6, 137, 1866.
 Edw., But. 1, 87, pl. 30, 1869.
 Kirby, Cat. 160, 1871.
 Scud., Buff. Bull. 2, 260, 1875.
 Mead, Wheeler Rep. 5, 754, 1875.
 Streck., Cat., 110, 1878.
 Edw., Cat. 28, 1884.
 Edw., Can. Ent. 20, 3, 1888.*
aglai Edw., Proc. Ent. Soc. Phil. 2, 504, 1864.
Hab.—Col., Mont., Blackfoot Reserve, Br. Am. (by Geddes).
42. **Liliana** H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.
 Streck., Cat. 112, 1878.
 Edw., Cat. 28, 1884.
 Edw., But. 3, pl. 3 Arg. 1887.
Aber. baronii Edw., Tr. A. E. Soc. 9, 3, 1881.
Hab.—Cala., Utah.
43. **Rupestis** Behr., Pr. Cal. Ac. N. Sci. 2, 175, 1862, "No. 6."
 Behr., l. c. 3, 84, 1863.
 Edw., But. 2, pl. 7 of Argyn. 1879.
 Edw., Proc. Ent. Soc. Phil. 3, 435, 1864.
 Kirby, Cat. p. 159, 1871.
 Scud., Buff. Bull. 2, 261, 1875.
 Streck. (var. R.), Cat. p. 114, 1878.
 Edw., Cat. 1884.
irene Edw., Can. Ent. 11, 53, 1879.
Var. irene Bd.; *egleis* var. *irene* Bd., Lep. de la Cala. 59, 1869.
Hab.—Cala., Mt. Shasta, Mt. Bradley; Weber Mountains. Utah.
44. **Laura** Edw., Can. Ent. 11, 49, 1879.
 Edw., Cat. 28, 1884.
Hab.—Cala., Nev.
45. **Macaria** Edw., Field and Forest 3, 86, 1877.
 Streck., Cat. p. 189, 1878.
 Edw., Cat. 29, 1884.
Hab.—Cala.
46. **Semiramis** Edw., Can. Ent. 18, 61, 1886.
Hab.—San Bernardino, Cala.
47. **Inornata** Edw., Tr. A. E. Soc. 4, 64, 1872.
 Edw., But. 2, pl. 5 of Argyn. 1876.
 Scud., Buff. Bull. 2, p. 261, 1875.
 Streck., Cat. 113, 1878.
 Edw., Cat. 29, 1884.
Hab.—Cala., Nev.
48. **Atossa** Edw., But. N. Am. 3, pl. 8, Arg. 1890.
Hab.—Tehachapi, Cala.
49. **Adiante** Bd., Lep. de la Cala. 61, 1869.
 Behr., Pr. Cal. Ac. N. Sci. 2, 175, 1862.
 "No. 7," 1862.
 Scud., Buff. Bull. 2, 261, 1875.
 Streck., Cat. 115, 1878.
 Edw., Cat. 29, 1884.
 Edw., But. 3, pl. 8 Arg. 1890.
Arg. adiante (Bd. MSS.) Behr., Proc. Cal. Ac. N. Sci. 2, 175, 1858-62; l. c. 3, 84, 1863.
 Edw., Pr. Ent. Soc. Phil. 3, 436, 1864.
 Kirby, Cat. 160, 1871 (*adraste*).
Hab.—Cala.
50. **Artonis** Edw., Tr. A. E. Soc. 9, 2, 1881.
 Edw., Cat. 29, 1884.
Hab.—Col., Nev., Utah, Wyo.
51. **Clio** Edw., l. c. 5, 106, 1874.
 Streck., Cat. 115, 1878.
 Edw., Cat. 29, 1884.
Hab.—Mont., Br. Am., Crow's Nest; Head of Peace River, Laggan, Alberta.
52. **Opis** Edw., l. c. 5, 105, 1874.
 Edw., But. 2, pl. 3 of Argyn. 1875.
 Streck. (var. *opis*), Cat. 115, 1878.
 Edw., Cat. 29, 1884.
Hab.—Bald Mt., Br. Col.
53. **Bischoffii** Edw., l. c. 3, 189, 1870.
 Edw., But. 2, pl. 3 of Argyn. 1875.
 Scud., Buff. Bull. 2, 260, 1875.

- Streck., Cat. 115, 1878.
Edw., Cat. 29, 1884.
Hab.—Sitka, Alaska.
54. **Arge** Streck., Cat. 114, 1878.
Streck., Br. Bull. 4, 7, 1881.
Edw., Cat. 29, 1884.
55. **Eurynome** Edw., Tr. A. E. Soc. 4, 66, 1872.
Edw., But. 2, pl. 1 of Argyn. 1875.*
Mead, Rep. Wheeler Exp. 5, 755, 1875.
Scud., Buff. Bull. 2, 260, 1875.
Streck., Cat. 114, 1878.
Edw., Cat. 29, 1884.
astarte Edw. (not Doubl.), Pr. E. Soc. Phil. 1, 221, 1862.
Var. errinna Edw., Can. Ent. 15, 33, 1883.
Hab.—Col., Mont., Br. Am. (L. W. H.)
56. **Montivaga** Behr, Pr. Cal. Ac. N. Sci., 2, 174, "No. 4," 1862.
Behr, l. c. 3, 84, 1863.
Kirby, Cat. 159, 1871.
Scud., Buff. Bull. 2, 261, 1875.
Streck. (var. M.), Cat. 114, 1878.
Edw., Cat. 29, 1884.
Hab.—Sierras, Cala.; Nev.
57. **Egleis** Bd., Lep. de la Cala. 59, 1869.
Streck. (syn.), Cat. 114, 1878.
Edw., Can. Ent. 11, 53, 1879.*
Edw., Cat. 30, 1884.
Edw., But. 3, pl. 9 Arg. 1887.*
Lembert, Can. Ent. 25, 259, 1893.*
montivaga Edw. (not Behr), Pr. E. Soc. Phil. 3, 435, 1864.
♀ *mormonia* Bd., Lep. de la Cala. 58, 1869.
Hab.—Cala., Nev.
58. **Myrina** Cram., Pap. Ex. 2, 189, figs. B, C, 1779.
Hüb., Verz. Bek. Schmett. 30, 1816.
Say, Am. Ent. 3, pl. 46, 1828.
Bd.-Lec., 155, pl. 45, 1833.
Kirby, Faun. Am. Bor. 4, 290, 1837.
Morr., Syn. 43, 1862.
Harr., 286, fig. 112, 1862.
- H.-S., Prodr. Lep. Reg. Corr. Blatt. 91, 1865.
Saund., Can. Ent. 1, 55, 1869.*
Kirby, Cat. 162, 1871.
Scud., Am. Nat. Sept., 1872.
Scud., Buff. Bull. 262, 1875.
Edw., Can. Ent. 8, 161, 1876.*
Edw., l. c. 9, 34, 1877.*
Streck., Cat. 115, 1878.
Edw., Pap. 1, 134, 1881.
Grub., Jen. Zeitschr. Nat. 17, 479, pl. 8, fig. 34, 35, 1884.
Fern., But. Me. 40, 1884.*
Edw., Cat. 30, 1884.
Gruber, Pap. 4, 91, 1884.*
French, But. 161, f. 42, 1885.*
Mayn., But. 25, f. 29, 29a, 1886.
Scud., But. 1, 593, 1889,* pl. 4, f. 5.
Skinner, Proc. Ent. Sect. Acad. Nat. Sci. Phil. v, 1887.
- myrinus* Herbst, Natursyst. Ins. Schmett. 9, 178, t. 255, 1798.
myrissa Godt., Enc. Meth. 9, 266, 806, 1819.
Hab.—N. E. to Mont.; Col., Ont., Queb., N. Sco., Br. Am., Sitka, Alaska.
59. **Triclaris** Hüb., Samm. Ex. Schmett. 2, (1818-24).
Mosch., Wien. Ent. Mon. 4, 334, 1860.
Stgr., Cat. 20, 1871.
Kirby, Cat. 162, 1871.
Scud., Buff. Bull. 2, 262, 1875.
Mead, Rep. Wheeler Exp. 5, 757, 1875.
Scud., Pr. Bost. Soc. N. Hist. 17, 294, 1875.
Streck., Cat. 115, 1878 (var. T.).
ossianus Bd., Icon. pl. 19, 1832.
Bd.-Lec., 157, 1833.
Morr., Syn. 48, 1862.
Hab.—Arctic Am., Labr., Col.
60. **Helena** Edw., Tr. A. E. Soc. 3, 268, 1871.
Mead, Rep. Wheeler Exp. 5, 757, 1875.
Scud., Buff. Bull. 2, 262, 1875.
Streck., Cat. 115, 1878.
Edw., Cat. 30, 1884.
Hab.—Mont., Col., N. Mex., Ariz.

61. **Montinus** Scud., Pr. Ess. Ins. 3, 166, 1862.
 Scud., Bost. Jour. N. Hist. 7, 626, pl. 14, 1863.
 Kirby, Cat. 161, 1871.
 Scud., Buff. Bull. 2, 263, 1875.
 Streck. (v. M.). Cat. 116, 1878.
 Edw., Cat. 30, 1884.
 French, But. 163, 1885.*
 Mayn., But. 26, pl. 4, f. 28, 28a, 1886.
 Scud., But. 1, 601, pl. 5, f. 4, 14, 1889.*
Hab.—White Mts., N. H.
62. **Chariclea** Schneid., Neu. Mag. 5, 588, 1794.
 Herbst, Natursyst. Ins. Schmett. 10, t. 272, 1800.
 Ochs., Schmett. Eur. 1, 66, 1807, 4, 114, 1816.
 Hüb., Eur. Schmett. 1, f. 769, 770, 1824-26.
 Dup., 1, 344, t. 48, 1832.
 Bdl.-Lec., Lep. Am. Sept., 161, 1833.
 Treits, 10, 1, 15, 1834.
 Bdl., Sp. Gen. 1, t. 11, f. 2, 1836.
 Mosch., Wien. Ent. Mon. 4, 338, 1842, 1860.
 Morris, Syn. 49, 1862.
 H.-S., Prodr. Syst. Lep. Reg. Corr.—Blatt, 91, 1865.
 Stgr., Cat. 20, 1871.
 Kirby, Cat. 161, 1871.
 Scud., Proc. Bost. Soc. Nat. Hist. 17, 40, 1875.
 Scud., Buff. Bull. 2, 262, 1875.
 McLach., Linn. Soc. Jour. 14, 109, 1878.
 Streck., Cat. 115, 1878.
 Edw., Cat. 30, 1884.
 Scud., But. 3, 1808, 1889.
 Auriv., Bihang Till K. Svenska (t f. 1) Vet.-Akad. Handlinger B. 15, Afd. 4, No. 1, 1889.
Var. a. artica Zett., Ins. Lapp. 899, 1828.
 Streck., Cat. 116, 1878.
Var. b. obscurata McLach., Linn. Soc. Jour. 14, 110, 1878.
Hab.—Arctic America; Lab.; Br. Am.; Greenland; Lapland.
63. **Butlerii** Edw., Can. Ent. 15, 32, 1883.
 [Elwes, Tr. Ent. Soc. Lond. 540, 1889, puts this under *obscurata*.]
Hab.—N. W. Am.; Grinnell Land; Nova Zembla.
64. **Boisduvalii** Dup., Sup. 1, t. 20, 1832.
 Somm., in Bd. Icon. 1, 98, pl. 20, 1832.
 Hüb., Gey. Schmett. 1, f. 1020-1022, 1827-1841.
 Mosch., Wien. Ent. Mon. 4, 341, 342, 1860.
 Stgr., Cat. 20, 1871.
 Kirby, Cat. 161, 1871.
 Scud., Buff. Bull. 2, 262, 1875.
 Streck., Cat. 116, 1878.
 Edw., Cat. 31, 1884.
 [Elwes, Tr. Ent. Soc. Lond. 540, 1889, puts this as a var. of *chariclea*.]
Hab.—Br. Col.; Crow's Nest, Br. Am. (by Geddes); Boreal Am.; Labr.
65. **Freija** Thunb., Diss. Ins. Suec. 2, 34, pl. 5, 1791.
 Hüb., Eur. Schmett. 1, figs. 55, 56, 1793, figs. 771, 772, 1824-26.
 Quens., Act. Hol. 276, t. 10, 1791.
 Herbst, Natursyst. Ins. Schmett. x, t. 272, 1800.
 Esp., Schmett. 1, 2, t. 109 (? 1790).
 Hüb., Eur. Schmett. f. 55, 56, 1793, 771, 772, 1807.
 Ochs., Schmett. I. 1, 78, 1807.
 Hüb., Verz. Bek. Schmett. 30, 1816.
 Godt., Enc. Meth. 9, 273, 1819.
 Meigen, Eur. Schmett. t. 14, 1829-32.
 Freyer, Neu. Brit. t. 295, 1831-58.
 Dup., Supl. I, II, t. 19, 1832.
 Bd., Icon. I, t. 19, 1832.
 Kirby, Faun. Am. Bor. 4, 291, 1837.
 Zett., Ins. Lap. 897, 1840.
 H.-S., Eur. Schmett. 1, 36, 1843.
 Eversm., Ent. Russ., 5, 61, t. 7, 1851.
 Mosch., Wien. Ent. Mon. 4, 338, 1860.
 Morr., 46, 1862.
 Stgr., Cat. 20, 1871.
 Schilde, S. E. S. 176, 1873.
 Scud., Pr. Bost. S. N. Hist. 17, 299, 1875.

- Scud., Buff. Bull. 2, 262, 1875.
 Mead, Rep. Wheeler Exp. 5, 756, 1875.
 Streck., Cat. 116, 1878.
 Edw., Cat. 31, 1884.
 Scud., But. 3, 1805, 1889.
- freya* H.-S., Prodr. Lep. Reg. Corr. Blatt, 91, 1865.
- lapponica* Esp. Schmett. 1, 2, t. 97, 1790?
- Var. Tarquinius** Curt., App. Ross. Exp. 68, 1835.*
 Kirby, Cat. 16, 1871.
 Scud., Buff. Bull. 2, 262, 1875.
- Hab.*—Labr.; Brit. Col.; Colo.; Lapland; Norway; Russia; Siberia.
66. **Improba** Butl., Ent. Mo. Mag. 13, 206, 1877.
 Streck., Cat. 118, 1878.
 Edw., Cat. 31, 1884.
 Schöyen, Ent. Tidsch. 6, 142, 1885 (syn. of *frigga*).
 [Elwes, Tr. Ent. Soc. Lond. 540, 1889, puts this as a var. of *frigga*.]
Hab.—Arctic America.
67. **Polaris** Bdl., Ind. Meth. 15, 1829.
 Hüb., Eur. Schmett. I, f. 1016-1019, 1827-41.
 Bd. Icon. pl. 20, 1833.
 Bd., Sp. Gen. 1, pl. 11, f. 1, 1836.
 Dup., Supl. 1, 11, t. 20, 1832.
 Freyer, Neu. Beit. v, t. 439, 1831-58.
 Bd.-Lec., 159, 1833.
 H.-S., Eur. Schmett. 1, 32, 1843.
 Eversm., Ent. Russ. 5, 65, t. 7, 1851.
 Wallengr., Skand. Dagf. 91, 1853.
 Mosch., Wien. Ent. Mon. 4, 342, 1860.
 Morr., 48, 1862.
 Stgr., Cat. 20, 1871.
 Kirby, Cat. 161, 1871.
 Scud., Proc. Bost. Soc. N. Hist. 17, 303, 1875.
 Scud., Buff. Bull. 2, 263, 1875.
 Streck., Cat. 116, 1878.
 Edw., Cat. 31, 1884.
 Skinner, Ent. News, 3, pl. 2, 1892 (not *chariclea*).
Hab.—Labr.; Arctic Am. to lat. 81° 52'; Greenl.
68. **Frigga** Thunb., Diss. Ins. Suec. 2, 33, 1791.
 Hüb., Eur. Schmett. 1, f. 49, 50, 1793.
 Scud., l. c. 17, 306, 1875.
 Quens., Act. Hol. t. 19, f. 6, 1791.
 Ochs., I, 1, 74, 1807.
 Hüb., Verz. Bek. Schmett. 30, 1816.
 Godt., Enc. Meth. 9, 272, 1819.
 Dup., Supl. I. t. 19, 1832.
 Eversm., Ent. Russ. 5, 59, 1851.
 Mosch., Wien. Ent. Mon. 4, 337, 1860.
 H.-S., Prodr., Syst. Lep. Corr. Blatt 91, 1865.
 Stgr., Cat. 20, 1871.
 Kirby, 160, 1871.
 Schilde, S. E. Z. 177, 1873.
 Scud., Buff. Bull. 2, 263, 1875.
 Streck., Cat. 117, 1878.
 Edw., Cat. 3, 1884.
- Var. saga** Kaden MSS. S. E. Z., 350, 1861.
- Hab.*—Labr.; Arctic Am.; Alaska; Col.
69. **Bellona** Fabr., Syst. Ent. 517, 1775.
 Fabr., Ent. Syst. 3, 1, 148, 1793.
 Hüb., Zutr. 42, f. 975, 976, 1818-37.
 Godt., Enc. Meth. 9, 271, 1819.
 H.-S., Prodr. Syst. Lep. Reg. Corr. Blatt 91, 1865.
 Bdl.-Lec., Lep. Am. Sept. 164, t. 45, 1833.
 Harris, Ins. Inj. Veg. Flint's Ed. 287, f. 113, 114, 1872.
 Morr., Syn. 45, 1862.
 Pack., Guide, 253, 1869.
 Kirby, Cat. 159, 1871.
 Scud., Am. Nat. Sept., 1872.
 Scud., Buff. Bull. 2, 263, 1875.
 Streck., Cat. 117, 1878.
 Edw., Papilio 1, 134, 1881.
 Edw., Cat. 31, 1884.
 Fern., But. Me. 41, 1884.*
 French, But. 164, 1885.*
 Mayn., But. 26, pl. 4, f. 31, 31a, 1886.
 H. Edw., Ent. Am. 3, 162, 1887.*
 Scud., But. 1, 608, pl. 5, f. 13, 15, 1889.*
myrina Martyn, Psyche t. 1, f. 2, 3, 1797.
Hab.—Brit. Am.; Ont.; Queb.; Northern U. S. to Virginia.

70. **Epithore** Bd., Lep. de la Cala. 58, 1869.
 Edw., Pr. E. Soc. Phil. 3, 504, 1864.
 Kirby, Cat. 160, 1871.
 Mead, Wheeler Rep. 5, 756, 1875.
 Scud., Buff. Bull. 2, 263, 1875.
 Streck. (var. *a* and var. *b* of *bellona*), Cat. 117, 1878.
 Edw., Cat. 31, 1884.
 Edw., Can. Ent. 24, 108, 1892.*
Hab.—Cala. to Oreg.; Nev.
Var. kreimhild Str., Ruff. Rep. 1854, 1879.
Hab.—Utah, Ariz.
71. **Alberta** Edw., Can. Ent. 22, 113, 1890.
 Edw., But. 3, pl. 7 Arg. 1894.*
Hab.—Laggan, Alberta.
72. **Astarte** Doubl.-Hew., Gen. Diur. Lep. t. 53, f. 5, 1848.
 Kirby, Cat. 163, 1871.
victoria Edw., Can. Ent. 23, 198, 1891.
 Streck., Ent. News 3, 218, 1892 (*astarte*).
 Edw., But. pl. 7, Arg. 1894.
Hab.—Laggan, Alberta.
- MELITÆA** Fabricius.
73. **Phæton** Dru., 1. pl. 21, 1767.
 Fabr., Syst. Ent. 3, 46, 1793.
 Herbst, Natursyst. Ins. Schmett. 6, 111, t. 142, 1793.
 Fabr., Syst. Ent. 481, 1775.
 Cram., Pap. Ex. III, t. 193, C, D, 1782.
 Bd.-Lec., 167, pl. 47, 1833.
 Bdl., Sp. Gen. t. 11, 1836.
 Emm. Agr. N. Y. 5, 212, t. 43, 1854.
 Harr., 288, f. 115, 1862.
 Morr., Syn. 50, 1862.
 Edw., Can. Ent. 1. 59, 2, 36, 1869.*
 Kirby, Cat. 164, 1871.
 Scud., Syst. Rev. Am. But. 27, 1872.
 Edw., Can. Ent. 6, 159, 1874.*
 Scud., Buff. Bull. 2, 263, 1875.
 Streck., Cat. 125, 1878.
 Edw., But. 2, pl. 1 of Mel. 1875.*
 Edw., Papilio 4, 68, 1884.*
 Grub., Jen. Zeitschr. Nat. 17, 476, pl. 8, f. 25-27, 1884.*
- Fern., But. Me. 43, 1884.*
 Streck., Cat. 125, 1878.
 Edw., Cat. 32, 1884.
 Gruber, Pap. 4, 89, 1884.*
 Edw., Can. Ent. 17, 108, 1885.
 French, But. 168, f. 44-47, 1885.*
 Mayn., But. 29, pl. 4, f. 35, 35a, 1886.
 Hineck., Psyche 5, 54, 1888.*
 Scud., But. 1, 690, pl. 5, f. 2, 1889.*
 Fiske, Ent. News 7, 87, 1896.
- phætana* Hüb., Verz. Bek. Schmett. 28, 1816.
phætoneta Godt., Enc. Meth. 9, 288, 1819.
phædon H.-S., Prodr. Syst. Lep. Reg. Corr. Blatt. 105, 1865.
Aber. superba Str., Cat. 125, 1878.
Aber. phæthusa Hulst, Br. Bull. 3, 77, 1880.
Hab.—U. S. east of Rocky Mts., Ont.; Queb.; Lake of the woods.
74. **Cooperi** Behr, Pr. Cal. Ac. N. Sci. 3, 90, 1863.*
 Kirby, Cat. 164, 1871.
 Scud., Buff. Bull. 2, 264, 1875.
 Streck., Cat. 125, 1878.
 Edw., Cat. 32, 1884.
perdiccas Edw., Papilio 144, 1881.
Hab.—Puget Sound, Wash.; Big Horn Mts., Mont.; Vanc. Island.
75. **Chalcedon** Doubl.-Hew., Gen. Di. Lep. 1, 180, pl. 23, 1847.
 Edw., Pr. E. Soc. Phil. 1, 222, 1862.
 Behr, Proc. Cal. Ac. N. Sci. 3, 89, 1863.
 Edw., But. 1, 97, pl. 34, 1871.*
 Mead, Wheeler Rep. 5, 757, 1875.
 Edw., Papilio 4, 63, 1884.*
 H. Edw., Pr. Cal. Ac. N. Sci. 5, 167, 1873.*
 Reak., Proc. Ent. Soc. Phil. 6, 140, 1866.
 Kirby, Cat. 164, 1871.
 Scud., Buff. Bull. 2, 264, 1875.
 Streck., Cat. 125, 1878.
 Rivers, Pap. 3, 123, 1883.
 Wright, Pap. 3, 123, 1883.
 Edw., Pap. 413, 1884.*
 Edw., Can. Ent. 16, 235, 1884.
 Edw., Cat. 32, 1884.

- Kunze. Can. Ent. 24, 190, 1892.
Lembert, Ent. News, 6, 138, 1895.*
Hab.—Cala.
- Var. dwinellei** H. Edw., *Papilio* 1, 51, 1881.
Hab.—Mt. Shasta, Cala.
76. **Macglashanii** Rivers. Proc. Cal. Ac. Nat. Sci. 2d ser. 1, 103, 1889.
12th Rept. Col. Biol. Asso.
Hab.—Truckee, Cala.
77. **Colan** Edw., *Papilio* 1, 45, 1881.
Edw., Cat. 32, 1884.
Cunningham, Ent. News 7, 267, 1896.
Hab.—Columbia River. west Washington and Oregon.
78. **Anicia** Doubl.-Hew., Gen. Di. Lep. 1, 179, pl. 23, 1848.
Edw., Pr. E. Soc. Phil. 1, 223, 1862.
Behr, Proc. Cal. Ac. N. Sci. 3, 91, 1863.
Reak., Proc. Ent. Soc. Phil. 6, 140, 1866.
Kirby, Cat. 164, 1871.
Mead, Wheeler Rep. 5, 758, 1875.
Scud., Buff. Bull. 2, 264, 1875.
Streck., Cat. 124, 1878.
Edw., Cat. 32, 1884.
Hab.—Cala., Nev., Col., Mont.
- Var. a. beani** Skinner. Can. Ent. 29, 155, 1897 (Laggan, Alberta).
- Var. b. brucei** Edw., Can. Ent. 20, 81, 1888.
Hab.—Col., Mont., Wash.; Br. Am.
79. **Nubigena** Behr, Pr. Cal. Ac. N. Sci. 3, 91, 1863.
Mead, Rep. Wheeler Exp. 5, 758, 1875.*
Kirby, Cat. 164, 1871.
Streck. (var. N.), Cat. 124, 1878.
Edw., Cat. 32, 1884.
Hab.—Cala., Nev., N. Mex., Col., Mont.; Crow's Nest, N. W. Terr.
- Var. wheeleri** H. Edw., *Papilio* 1, 52, 1881.
- Var. capella** Barnes, Can. Ent. 29, 40, 1897.
Hab.—Nev.
80. **Gillettei** Barnes, Can. Ent. 29, 40, 1897.
Hab.—Yellowstone Park.
81. **Quino** Behr. Pr., Cal. Ac. N. Sci. 3, 90, 1863.
Kirby, Cat. 164, 1871.
Scud., Buff. Bull. 2, 264, 1875.
Streck., Cat. 124, 1878.
Edw., Cat. 32, 1884.
Hab.—Mendocino, Cala.
82. **Augusta** Edw., Can. Ent. 22, 21, 1890.
Hab.—San Bernardino, Cala.
83. **Baroni** H. Edw., *Papilio* 1, 52, 1882.
Edw., Can. Ent. 11, 149, 1879.*
Edw., Cat. 33, 1884.
Edw., But. 3, pl. 1 Mel. et var. 1887.*
Lembert, Ent. News 6, 137, 1895.*
Hab.—North Cala.
84. **Rubiunda** H. Edw., *Papilio* 1, 52, 1882.
• Edw., Cat. 33, 1884.
Edw., Can. Ent. 17, 155, 1885.*
Edw., l. c. 20, 83, 1888.
Edw., But. 3, pl. 2, Mel. 1888.
Hab.—North Cala.
85. **Taylori** Edw., Can. Ent. 20, 82, 1888.
Danby, Can. Ent. 22, 121, 1890.*
Hab.—Vancouver, B. C.
86. **Editha** Bd., Ann. Soc. Ent. Fr. 2, 10, 304, 1852.
Morr., 51, 1862.
Kirby (var. E.), Cat. 164, 1871.
H. Edw., Pr. Cal., Ac. N. Sci. 5, 167, 1873.
Streck., Cat. 124, 1878.
Edw., Cat. 33, 1884.
anicia Scud., Buff. Bull. 2, 264, 1875.
Hab.—South Cala.
87. **Helvia** Scud., Pr. Bost. Soc. N. Hist. 12, 405, 1869.
Kirby, Cat. 164, 1871.
Scud., Buff. Bull. 2, 264, 1875.

- Streck., Cat. 124, 1878.
Edw., Cat. 33, 1884.
Unique type prob. destroyed in Chicago fire (Scudder).
Hab.—Ramparts, Yucón River, Alaska.
88. **Sterope** Edw., Tr. A. E. Soc. 3, 190, 1870.
Kirby, Cat. 647, 1871.
Scud., Buff. Bull. 2, 265, 1875.
Streck., Cat. 124, 1878.
Edw., Cat. 33, 1884.
Hab.—Oreg.
89. **Acastus** Edw., Tr. A. E. Soc. 5, 16, 1874.
Mead, Rep. Wheeler Exp. 5, 761, 1875.
Scud., Buff. Bull. 2, 265, 1875.
Streck., Cat. 124, 1878.
Edw., Cat. 33, 1884.
Hab.—Nev., Utah, Mont.
90. **Neumoegeni** Skinner, Ent. News 6, 113, 1895.
Hab.—Utah.
91. **Palla** Bd., Ann. Soc. Ent. Fr. 2, 10, 305, 1852.
Behr, Pr. Cal. Ac. N. Sci. 3, 88, 1863.
Morr., 52, 1862.
Reak., Proc. Ent. Soc. Phil. 16, 139, 1866.
Kirby, Cat. 170, 1871.
H. Edw., Pr. Cal. Ac. N. Sci. 5, 167, 1873.*
Mead, Wheeler Rep. 5, 759, 1875.
Scud., Buff. Bull. 2, 264, 1875.
Streck., Cat. 123, 1878.
Edw., Cat. 33, 1884.
Hab.—Cala. to W. Terr., Nev., Mont., Br. Am., Crow's Nest (by Geddes); Col. (Bruce).
92. **Whitneyi** Behr, Pr. Cal. Ac. N. Sci. 3, 88, 1863.
Kirby, Cat. 170, 1871.
Scud., Buff. Bull. 2, 265, 1875.
Streck., Cat. 124, 1878.
Edw., Cat. 33, 1884.
pola Bd., Lep. de la Cala. 56, 1869.
Hab.—Cala., Nev.
93. **Hoffmanni** Behr, Pr. Cal. Ac. N. Sci. 3, 89, 1863.
Reak., Proc. Ent. Soc. Phil. 6, 140, 1866.
Kirby, Cat. 171, 1871.
Mead, Wheeler Rep. 5, 760, 1875.
Scud., Buff. Bull. 2, 264, 1875.
Streck., Cat. 264, 1875.
Edw., Cat. 33, 1884.
Var. helcita Bd., Lep. de la Cala. 55, 1869.
Hab.—Cala., Nev., Oreg., Col., Mont.
94. **Gabbii** Behr, l. c. 3, 89, 1863.
Kirby, Cat. 171, 1871.
Scud., Buff. Bull. 2, 264, 1875.
Streck. (var. G.), Cat. 123, 1878.
Edw., Cat. 33, 1884.
sonoræ Bd., Lep. de la Cala. 56, 1869.
Hab.—South Cala., Utah, Ariz.
95. **Harrisii** Scud., Pr. Ess. Ins. 3, 167, 1862.
Edw., Can. Ent. 9, 165, 1867.*
Pack., Guide p. 257, 1869.
Kirby, Cat. 257, 1871.
Scud., Syst. Rev. Am. But. 27, 1872.
Scud., Buff. Bull. 2, 266, 1875.
Streck., Cat. 123, 1878.
Edw., Cat. 33, 1884.
Fern., But. Me. 45, 1884.*
Edw., Can. Ent. 16, 233, 1884.*
Edw., l. c., 17, 108, 1885.
French, But. 170, f. 48, 49, 1885.*
Mayn, But. 29, pl. 4, f. 34, 34a, 1886.
Scud., But. 1, 674, pl. 5, f. 4, 10, 1889.*
ismeria Harr. (nec. Bdl.-Lec.), Ins. Inj. Veg., Flint Ed. 288, 1862.
Hab.—N. E., N. Y., Mich., Ill., Wis., Ont., Queb., New Foundland (Can. Ent. 18, 204).
96. **Elada** Hew., Ex. But. 3, Eres. t. 6, f. 45, 46, 1864.
Biol. Cent.-Am. 1, 196, pl. 21, 1879-86.
Aaron, Pap. 4, 131, 1885.
uprica Edw., Can. Ent. 9, 189, 1877.
Edw., Cat. 33, 1884.
imitata Streck., Lep. 14, 1878.
Streck., Cat. 189, 1878.
Hab.—Texas, Mex.

97. **Dymas** Edw., Can. Ent. 9, 190, 1877.
Edw., Cat. 34, 1884.
Aaron, Pap. 4, 131, 1885.
larunda Str., Lep. pt. 14, 1878.
Streck., Cat. 189, 1878.
Hab.—S. W. Texas.
98. **Perse** Edw., Papilio 2, 136, 1882.
Edw., Cat. 34, 1884.
Aaron, Pap. 4, 175, 1885.
Hab.—Ariz.
99. **Chara** Edw., Can. Ent. 15, 209, 1883.
Edw., Cat. 34, 1884.
Hab.—So. Ariz.
100. **Albiplaga** Aaron, Pap. 4, 175, 1884.
Hab.—Texas.
101. **Leanira** Bd., Lep. de la Cala. 27, 1869.
Mead, Rep. Wheeler Exp. 5, 759, pl. 37, 1875.
Feld., Reise Nov. II, t. 50, f. 13, 14, 1867.
Behr, Proc. Cal. Acad. N. Sci. 3, 91, 1863.
Kirby, Cat. 171, 1871.
Scud., Buff. Bull. 2, 265, 1875.
Streck., Cat. 125, 1878.
Edw., Cat. 34, 1884.
Var. obsoleta H. Edw., Pr. Cal. Ac. N. Sci. 6, 1876.
Hab.—Cala., Ariz., Nev., Mont., Br. Am.
102. **Wrightii** Edw., Can. Ent. 18, 64, 1886.
Hab.—So. Cala.
103. **Alma** Str., Lep. pl. 15, ♀, 1878.
Str., Ruff. Rep. 1855, 1879.
Streck., Cat. 189, 1878.
Edw., Cat. 34, 1884.
Hab.—So. Utah, Ariz.
104. **Fulvia** Edw., Tr. A. E. Soc. 3, 191, 1879.
Edw., Cat. 34, 1884.
Hab.—W. Tex., Col.
105. **Thekla** Edw., Tr. A. E. Soc. 3, 191, 1870.
Streck., Cat. 126, 1878.
Edw., Cat. 34, 1884.
Hab.—So. Cala., Ariz., Texas.
106. **Bollii** Edw., Field and Forest 3, 101, 1877.
Streck., Cat. 189, 1878.
Edw., Cat. 34, 1884.
Hab.—S. W. Texas, Ariz.
107. **Definita** Aaron, Pap. 4, 176, 1884.
Hab.—S. W. Texas.
108. **Minuta** Edw., Pr. Ac. N. Sci. Phil. 161, 1861.
Morr., 325, 1862.
Kirby, Cat. 171, 1871.
Mead, Rep. Wheeler Exp. 5, pl. 36, 1875.
Scud., Buff. Bull. 2, 265, 1875.
Streck., Cat. 34, 1878.
Edw., Cat. 34, 1884.
Hab.—Col., Ariz., N. Mex.
109. **Arachne** Edw., Tr. A. E. Soc. 2, 372, 1869.
Edw., l. c. 9, 8, 1881.
Kirby, Cat. 171, 1871.
Mead, Wheeler Rep. 5, 760, 1875.
Scud., Buff. Bull. 2, 265, 1875.
Streck. (syn. of *minuta*), Cat. 123, 1878.
Edw., Cat. 34, 1884.
Hab.—Col., Ariz., W. Texas.
110. **Nympha** Edw., Papilio 4, 53, 1884.
Edw., Cat. 34, 1884.
Hab.—So. Ariz.

PHYCIODES Doubleday.

111. **Nycteis** Doubl.-Hew., Gen. Di. Lep. 181, pl. 23, 1847.
Riley, Pr. Am. A. A. Sci. 1874, 108.*
Edw., Can. Ent. 5, 224, 1873.*
Edw., l. c. 11, 101.
Chenu., Pap. Diar. f. 200, 1851-52.
Morr., Syn. p. 325, 1862.
Reak., Proc. Ent. Soc. Phil. 6, 141, 1866.
Kirby, Cat. 173, 1871.

- Scud., Syst. Rev. Am. But. 26, 1872.
 Lint., 23rd Rep. N. Y. State Cab. Nat.
 Hist. 158, 1872.*
 Scud., Buff. Bull. 2, 266, 1875.
 Streck., Cat. 122, 1878.
 Grub., Jen. Zeitschr. Nat. 17, 478, pl.
 8, f. 30, 32, 1879.
 Fern., But. Me. 46, 1884.*
 Edw., Cat. 34, 1884.
 Gruber, Pap. 4, 90, 1884.*
 French, But. 172, f. 50, 1885.*
 Mayn., But. 28, pl. 4, f. 33, 33a, 1886.
 Scud., But. 1, 658, pl. 5, f. 6, 1889.*
ænone Scud., Pr. Ess. Ins. 3, 166, 1870.*
harrisii Edw., Can. Ent. 2, 163, 1870.
 Saund., l. c. 4, 161, 1872.*
ænone Mead, Rep. Wheeler Exp. 5, 762,
 1875.
Var. drusus Edw., Papilio 4, 57, 1884.
Hab.--Me. to N. C. and west; Miss. Val-
 ley; Ont.; Queb.; Edmonton, N.
 W. Terr.
112. **Ismeria** Bdl.-Lec., Lep. Am. Sept.
 168, t. 46, 1833.
 Dbldy.-Hew., Gen. Diur. Lep. 1, 181,
 N. 22, 1846-50.
 Morris, Syn. 50, 1862.
 Kirby, Cat. 174, 1871.
 Scud., Can. Ent. 4, 85, 1872.
 Scud., Buff. Bull. 2, 266, 1875.
 Streck., Cat. 122, 1878.
 Scud., But. 3, 1812, 1889.*
nycteis Edw., Pr. Ac. N. Sci. Phil. 1861.
carlota Reak., Proc. Ent. Soc. Phil. 6, 141,
 1866.
 Kirby, Cat. 173, 1871.
 Mead, Wheeler's Rep. 5, 762, 1875.
 Edw., Cat. 35, 1884.
 French, But. 174, 1885.*
 Dyar, Can. Ent. 25, 93, 1893.*
Hab.--Canada, So. and West. States.
113. **Vesta** Edw., Tr. A. E. Soc. 2, 371,
 1869.
 Kirby, Cat. 171, 1871.
 Scud., Buff. Bull. 2, 266, 1875.
 Streck., Cat. 120, 1878.
 Edw., Can. Ent. 11, 129, 1879.*
 Edw., Cat. 35, 1884.
 Biol. Cent.-Am. 1, 195, 1879-89.
 Aaron, Pap. 4, 177, 1885.
 Form *boucardi* Biol. Cent.-Am. 1, 194, pl.
 21, f. 16, 17, 1879-86.
 Winter form Edw., But. 2, pl. 2, of Phyc.
 1878.
 Summer form l. c. pl. cit.
Hab.--Texas, Mexico.
114. **Phaon** Edw., Pr. E. Soc. Phil. 2,
 505, 1864.
 Kirby, Cat. 171, 1871.
 Scud., Buff. Bull. 2, 268, 1875.
 Streck., Cat. 120, 1878.
 Edw., Cat. 35, 1884.
 French, But. 176, 1885.
 Winter form Edw., But. 2, pl. 2 of Phyc.
 1878.
 Summer form l. c. pl. cit.
Hab.--Gulf St.; Texas; occasl. Kans.
115. **Tharos** Dru., Ill. Ex. Ent. 1, 43, t.
 21, f. 5, 6, 1770.
 Cram., Pap. Ex. 2, t. 169, e, f. 1779.
 Hbst., ix, t. 260, 45, 1798.
 Stephs., Ill. Brit. Ent. Haust. 1, 150,
 1828.
 Morr., Syn. 51, 1862.
 Reak., Proc. Ent. Soc. Phil. 6, 142, 1866.
 Kirby, Cat. 172, 1871.
 Scud., Buff. Bull. 2, 267, 1875.
 Streck., Cat. 120, 1878.
 Edw., Cat. 35, 1884.
 French, But. 177, 178, 1885.*
 Mayn., But. 27, pl. 4, f. 32, 32a, 1886.
 Scud., But. 1, 629, pl. 5, f. 1, 3, 1889.*
 Biol. Cent.-Am. 1, 193, 1878-86.
morphea Godt., Enc. Meth. 9, 289, 1819.
euclea Bergs., Fom. v. Besch. Ins. 4, 23,
 t. 79, 1780.
 Hbst., x, t. 274, 9, 10, 1800.
 Winter form *marcia* Edw., Tr. A. E. Soc.
 2, 207, 1868.
 Edw., Can. Ent. 9, 1, 1877.*
 Edw., But. 2, pl. 1 of Phyc. 1878.*
 Grub., Jen. Zeitschr. Nat. 17, 477, pl.
 8, f. 28, 29, 1884.*
 Fern., But. Me. 47, 1884.*

- Summer form *morpheus* Fab., Syst. Ent. 550, 1775.
 Edw., But. pl. 2, Phyc. 1878.*
tharos Dru., 1, pl. 21, ♀, 1767.
 Bd.-Lec., 170, pl. 47, ♂ (not ♀), 1833.
 Mead, Can. Ent. 7, 166, 1875.*
cocyta Cram., 2, pl. 101, f. A, B, ♂, 1779.
pharos Harr., 289, 1862.
Aber. packardii Saund., in Pack. Guide 256, 1869.
 Edw., But. 2, pl. 2 of Phyc. f. 11, 12.
 Edw., Can. Ent. 9, 4, 204, 1877.
Hab.—U. S. excluding Pac. St.; Br. Am. to Pac.; Ont.; Queb.; N. Sco.; Antic.; So. Labr., Mexico.
116. **Batesii** Reak., Pr. E. Soc. Phil. 5, 226, 1865.
 Kirby, Cat. 172, 1871.
 Scud., Buff. Bull. 2, 268, 1875.
 Streck., Cat. 121, 1878.
 Edw., Cat. 36, 1884.
 French, But. 180, 1885.
 Scud., But. 1, 643, pl. 14, f. 5, 1889.
tharos Bd.-Lec., 171, pl. 47, f. 5, ♀, 1833.
Hab.—W. Va., Md., N. Y. to Ohio.
117. **Pratensis** Behr, Pr. Cal. Ac. N. Sci. 3, 86, 1863.
 Kirby, Cat. 173, 1871.
 Scud., Buff. Bull. 2, 267, 1875.
 Streck., Cat. 121, 1878.
 Edw., Cat. 36, 1884.
 ♀ *campestris* Behr, Pr. Cal. Ac. N. Sci. 3, 86, 1863.
 Reak., Proc. Ent. Soc. Phil. 6, 142, 1866.
 Kirby, Cat. 173, 1871.
pulchella Bd., Ann. Soc. Ent. Fr. 2, 10, 306, 1852.
 Scud., Buff. Bull. 2, 266, 1875.
Hab.—Cala., Oreg., Ariz.
118. **Orseis** Edw., Tr. A. E. Soc. 3, 206, 1871.
 Scud., Buff. Bull. 2, 267, 1875.
 Streck. (var. O.), Cat. 121, 1878.
 Edw., Cat. 36, 1884.
 Biol. Cent.-Am. 1, 193, 1879-86.
 (Perhaps Winter form of *pratensis*.)
Hab.—Cala., W. Terr., Oreg., Mex.
119. **Camillus** Edw., Tr. A. E. Soc. 3, 268, 1871.
 Mead. Wheeler Rep. 5, 764, 1875.
 Streck. (syn.), Cat. 121, 1878.
 Edw., Cat. 36, 1884.
 1. Dimorphic form *camillus*.
 2. “ “ *emissa*, Tr. A. E. Soc. 3, 269, 1871.
Var. pallida Edw., Pr. E. Soc. Phil. 2, 505, 1864.
Var. mata Reak., Pr. E. Soc. Phil. 6, 142, 1866.
 Str., Lep. pl. 8, f. 11, 1874.
Hab.—Col., Mont., Texas; N. W. Terr. (Geddes).
120. **Mylitta** Edw., Pr. Ac. N. Sci. Phil. 160, 1861.
 Morr., 324, 1862.
 Reak., Proc. Ent. Soc. Phil. 6, 142, 1866.
 Edw., Proc. Ent. Soc. Phil. 2, 504, 1864.
 Kirby, Cat. 173, 1871.
 H. Edw., Pr. Cal. Ac. N. Sci. 1873.*
 Mead. Rep. Wheeler Exp. 5, 764, 1875.*
 Streck., Cat. 122, 1878.
 Edw., Cat. 36, 1884.
 Dyar. Can. Ent. 23, 203, 1891.*
collina Behr, Pr. Cal. Ac. N. Sci. 3, 86, 1863.
callina Bd., Lep. Cal. 54, 1869.
 Scud., Buff. Bull. 2, 267, 1875.
epn'a Bd., Lep. de la Cala. 54, 1869.
 Scud., Buff. Bull. 2, 266, 1875.
Hab.—Cala., Wash., Ariz., Col., Utah.
121. **Barnesi** Skinner, Can. Ent. 29, 155, 1897.
Hab.—Glenwood Springs, Col.
122. **Montana** Behr, Pr. Cal. Ac. N. Sci. 3, 85, 1863.
 Kirby, Cat. 173, 1871.
 Streck., Cat. 121, 1878.
 Edw., Cat. 36, 1884.
orsa Bd., Lep. de la Cala. 55, 1869.
pratensis Scud. (nec Behr), Buff. Bull. 2, 267, 1875.
Hab.—Cala.; Lake Tahoe, Nev.

123. **Picta** Edw., ♂, Pr. E. Soc. Phil. 4, 201, 1865.

Reak., Proc. E. Soc. Phil. 6, 141, 1866.

Kirby, Cat. 171, 1871.

Str., Lep. pl. 8, f. 10, 1874.

Scud., Buff. Bull. 2, 267, 1875.

Streck., Cat. 119, 1878.

Edw., ♀, Papilio 2, 21, 1882.

Biol. Cent.-Amer. 1, 193, pl. 21, f. 4, 5, 1882.

Edw., Cat. 36, 1884.

Edw., Can. Ent. 16, 163, 1884.*

canace Edw., ♀, Tr. A. E. Soc. 3, 206, 1871.

Streck., Cat. 119, 1878.

Hab.—Col., N. Mex., Ariz., Neb., Texas (Mexico).

ERESIA Doubleday.

124. **Frisia** Poey, Cent. Lep. Cuba 9, pl. 2, 1832.

Cat. Met. etc., Mem. Soc. Econ. Hab., 2 ser. 3, 125, 1846.

La Sag. Hist. Cub. Anim. Art. 535, 1857
H.-S., Schmett. Cuba Reg. Corr.—Blatt 162, 1864.

Reak., Proc. Ent. Soc. Phil. 2, 226, 1865.

Kirby, Cat. 173, 1871.

Scud., Buff. Bull. 2, 267, 1875.

Streck., Cat. 119, 1878.

Edw., Cat. 37, 1884.

French, But. 181, 1885.

Biol. Cent.-Amer. 1, 203, t. 22, f. 6, 1879-86.

gyges Hew., Ex. But. 3, pl. 6, Eres. f. 45, 46, 1864.

Hab.—Key West, Fla.; Mex.; Antilles; Cent. and South America.

125. **Texana** Edw., Pr. E. Soc. Phil. 2, 81, 1863.

Reak., Proc. Ent. Soc. Phil. 5, 226, 81, 1863.

Kirby, Cat. 174, 1871.

Scud., Buff. Bull. 2, 268, 1875.

Streck., Cat. 119, 1878.

Edw., Can. Ent. 11, 127, 1879.*

Edw., Cat. 37, 1884.

Biol. Cent.-Am. 1, 200, 1879-86.

cincta Edw., Pr. E. Soc. Phil. 2, 502, 1864.
Kirby, Cat. 177, 1871.

smerdis Hew., Ex. But. 3, pl. 5, Eres. f. 33, 34, 1864.

Reak., Proc. Ent. Soc. Phil. 2, 226, 1865.

Hab.—Texas, Neb., Mex.

126. **Tulcis** Bates, Ent. Mo. Mag. 1, 82, 1864.

punctata Edw., Tr. A. E. Soc. 3, 191, 1871.

Kirby, Cat. 647, 1871.

Scud., Buff. Bull. 2, 268, 1875.

Streck., Cat. 119, 1878.

Edw., Cat. 37, 1884.

Aaron, Pap. 4, 187, 1884.

Biol. Cent.-Am. 1, 203, pl. 22, f. 12, 1879-86.

archesilea Felder, verh. k.-k. zool. Bot. Ges. Wien, 471, 1869.

Hab.—Ariz., N. Mex., Texas, Mexico.

SYNCHLOE Boisduval.

127. **Janais** Dru., 3, pl. 17, f. 5, 6, 1782.

Godt., Enc. Meth. 9, 392, 1823.

Dbl.-Hew., Gen. Diur. Lep. 1, 186, 1846-50.

Kirby, Cat. 178, 1871.

Scud., Buff. Bull. 2, 269, 1875.

Streck., Cat. 126, 1878.

Edw., Cat. 37, 1884.

Schaus., Pap. 3, 188, 1884.*

H. Edw., Ent. Am. 3, 161, 1887.*

Biol. Cent.-Am. 1, 178, 1879-86.

Hab.—Washita Valley, Texas; Nev.; Mex., Cent. Am.

128. **Lacinia** Hüb., Zutr. Ex. Schmett. f. 899, 900, 1837.

Biol. Cent.-Am. 1, 176, t. 19, f. 6 to 17, 1879-86.

mediatrix Field, Reise Nov. Lep. 3, 395.

Kirby, Cat. 178, 1871.

Scud., Buff. Bull. 2, 269, 1875.

Streck., Cat. 126, 1878.

Edw., Cat. 37, 1884.

Aaron, Pap. 4, 177, 1885.

adjutrix Scud., Buff. Bull. 2, 269, 1875.

Streck., Cat. 126, 1878.

Edw., Cat. 37, 1884.

Aaron, Pap. 4, 177, 1885.

Form *crocale* Edw., Tr. Am. Ent. Soc. 5, 17, 1874.

Mead, Wheeler Rep. 5, 765, pl. 37, 1875.

Scud., Buff. Bull. 2, 269, 1875.

Streck., Cat. 127, 1878.

Edw., Cat. 37, 1884.

Cockerell, Can. Ent. 24, 198, 1892.*

Edw., Can. Ent. 25, 286, 1893.*

Hab.—Texas, N. Mex., Ariz., Cent. and South America.

(Biologia gives eleven synonyms of *lacinia*.)

129. **Erodyle** Bates, Ent. Mo. Mag. 1, 84, 1864.

Dbl.-Hew., Gen. Diur. Lep. 186, 1846-1850.

Kirby, Cat. 178, 1871.

Scud., Buff. Bull. 2, 269, 1875.

Streck., Cat. 127, 1878.

Edw., Cat. 37, 1884.

Biol. Cent.-Am. 1, 180, 1879-86.

Hab.—Texas, Mex., Cent. Am.

CYSTINEURA Doubleday.

130. **Aymone** Mén., Cat. Mus. Petr. 123, pl. 9, 1857.

Kirby, Cat. 217, 1871.

Scud., Buff. Bull. 2, 256, 1875.

Streck., Cat. 140, 1878 (*dorcas*).

Edw., Cat. 37, 1884.

Biol. Cent.-Am. 1, 278, 1879-86.

dorcas Edw., Syn. (not Fab.).

Hab.—Texas, Mex., Cent. Am.

GRAPTA Kirby.

131. **Interrogationis** Fab., Ent. Syst. Sup. 424, 1798.

Fabr., Ill. Mag. Ins. 6, 281, 1807.

Godt., Enc. Meth. 9, Suppl. 819, 1823.

Harris, Hitch Rep. Geo. Min. etc., Mass. Ed. 1, 590, 1833.

Dbl.-Hew., Gen. Diur. Lep. 197, 1846-1850.

Harris, Ins. Inj. Veg., Flint's Ed. 298 f. 124, 1862.

Pack., Guide 259, 1869.

Lint., Trans. Am. Ent. Soc. 2, 317, 1869.

Lint., l. c. 3, 179, 1870.

Edw., But. N. Am. 1, pl. 5 of *Grapta*, 1871.

Kirby, Cat. 181, 1871.

Scud., Syst. Rev. Am. But. 10, 1872.

Scud., Buff. Bull. 2, 251, 1875.

Streck., Cat. 127, 1878.

Edw., Cat. 37, 1884.

Murtfeldt, Psyche 4, 184, 1884.*

French, But. 182, f. 51, 1885.*

Mayn., But. 11, pl. 2, f. 12, 12a, 1886.

Scud., But. 1, 319, pl. 3, f. 8-13, 1889.*

Fiske, Can. Ent. 29, 26, 1897.

interrogationis Harr., f. 124, ♀, 1862.

interrogationis Fab., ♀, Suppl. 424, 1798.

Harr., 298 (text, not plate), 1862.

Fern., But. Me. 49, 1884.*

C. aureum Cram., 1, pl. 19, f. E, 1779.

Sm.-Abb., pl. 11, 1797.

Bd.-Lec., ♂, pl. 51, 1833.

Edw., Psyche, 3, 15, 1880.

Var. fabricii Edw., Tr. A. E. Soc. 3, 5, 1870.

Edw., But. 1, 115, pl. 39, 1872.*

Edw., Can. Ent. 14, 189, 1882.*

Var. umbrosa Lint., Tr. A. E. Soc. 2, 313, 1869.

Lint., Tr. A. E. Soc. 197, 1870.

Edw., But. 1, 111, pl. 38, 1872.

Hab.—U. S., except Pacific States: Ariz., Ont., Queb., N. Sco.

132. **Comma** Harr., Ins. Inj. Veg. Ed. 1, 221, 1842.

Dbl.-Hew., Gen. Diur. Lep. 1, 197, 1846-50.

Emm., Agr. Nat. Hist. N. Y. 208, 1854, Harr., Flint's Ed. 300, t. 4, 1862.

Morr., Syn. 54, 1862.

Edw., Pr. Ent. Soc. Phil. 1, 182, 1862.

Lint., Pr. E. Soc. Phil. 3, 55, 1864.*

Lint., Pr. Ent. Soc. Phil. 6, 143, 1866.

Edw., But. 1, 101, pl. 36, 1871.*

Scud., Syst. Rev. Am. But. 10, 1872.

- Scud., Buff. Bull. 2, 251, 1875.
 Streck., Cat. 129, 1878.
 Edw., Can. Ent. 14, 189, 1882.*
 Edw., Cat. 38, 1884.
 Edw., Can. Ent. 16, 235, 1884.
 Fern., But. Me. 5, 1884.*
 French, But. 185, 1885.*
 Mayn., But. 12, pl. 2, f. 13, 13a, 1886.
 Scud., But. 1, 332, pl. 3, f. 1, 4, 1889.*
- Var. harrisii** Edw., Can. Ent. 5, 184, 1873.
- Var. dryas** Edw., Tr. A. E. Soc. 3, 17, 1870.
 Edw., But. 1, 109, pl. 37, 1871.*
- Hab.*—East., Mid., N. W. St.; N. C., Tenn., Kans. to Texas, Ont., Queb., N. Sco.
133. **Satyrus** Edw., Trans. Am. Ent. Soc. 2, 374, 1869.
 Kirby, Cat. 648, 1871.
 Edw., But. 1, 121, pl. 40, 1872.
 H. Edw., Pr. Cal. Ac. N. Sci. 5, 168, 1873.*
 Pears., Can. Ent. 7, 216, 1875.*
 Mead, Rep. Wheeler Exp. 5, 168, 1875.
 Scud., Buff. Bull. 3, 252, 1875.
 Streck., Cat. 131, 1878.
 Lint., Ent. Cont. 4, 121, 1878.
 Edw., Cat. 38, 1884.
 Scud., But. 1, 344, pl. 14, t. 14, f. 1, 4, 1889.*
- Var. marsyas** Edw., Tr. A. E. Soc. 3, 16, 1870.
 Edw., But. 2, pl. 3 of *Grapta*, 1879.
 Kirby, Cat. 648, 1871.
 Scud., Buff. Bull. 2, 252, 1875.
- Hab.*—Oreg., Cala., Mont., Col., N. Mex., Br. Am., Ont., Queb.
134. **Hylas** Edw., Tr. A. E. Soc. 4, 68, 1872.
 Edw., But. 2, pl. 2, of *Grapta*, 1875.
 Mead, Rep. Wheeler Exp. 5, 768, 1875.
 Streck. (var. *hylas*), Cat. 130, 1878.
- Hab.*—Col.
135. **Rusticus** Edw., Tr. A. E. Soc. 5, 107, 1874.
 Edw., But. 2, pl. 3, of *Grapta*, 1879.
 Streck., Cat. 131, 1878.
 Edw., Cat. 38, 1884.
- Hab.*—Cala., Vanc. Is.
136. **Fannus** Edw., Pr. Ac. N. Sci. Phil. 222, 1862.
 Edw., But. 1, 99, pl. 35, 1870.
 Kirby, Cat. 182, 1871.
 Scud., Syst. Rev. Am. But. 10, 1872.
 Scud., Buff. Bull. 2, 252, 1875.
 Caulf., Can. Ent. 7, 49, 1875.*
 Fern., But. Me. 52, 1884.*
 Streck., Cat. 130, 1878 (syn. of *C. album*).
 Edw., Cat. 38, 1884..
 French, 187, f. 52, 1885.*
 Mayn., But. 13, pl. 2, f. 14, 14a, 1886.
 Scud., But. 1, 348, pl. 3, f. 2, 6, 1889.*
- Hab.*—Mts. of N. E. and N. Y., Mich., Neb., Wash., Brit. Am., Atl. to Pac.: occasl. W. Va. to Ga., New Foundland (Can. Ent. 18, 204, 1886).
137. **Silvius** Edw., Tr. A. E. Soc. 5, 108, 1874.
 Streck., Cat. 131, 1878.
 Edw., Cat. 39, 1884.
 Edw., But. 2, text fol. pl. 3 *Grapta*.
- Hab.*—Cala.
138. **Zephyrus** Edw., Trans. Am. Ent. Soc. 3, 16, 1870.
 Edw., But. 1, 123, pl. 40, 1872.
 Edw., l. c. 2, pl. 3 of *Grapta*, 1879.*
 H. Edw., Pr. Cal. Ac. N. Sci. 5, 169, 1873.*
 Mead, Rep. Wheeler Exp. 5, 769, 1875.
 Kirby, Cat. 648, 1871.
 Scud., Buff. Bull. 2, 252, 1875.
 Streck., Cat. 131, 1878.
 Edw., Cat. 39, 1884.
- thiodamas* Scud., Buff. Bull. 2, 252, 1875.
 Streck., Cat. 131, 1878.
- Hab.*—Mont., Nev. to N. Mex., Ariz Utah, Cala., Oreg.

139. **Gracilis** Gr.-Rob., Ann. N. Y. Lyc. N. Hist. 8, 432, 1867.
 Kirby, Cat. 182, 1871.
 Streck., Lep. Rhop.-Het. p. 68, t. 8, 1878.
 Streck., Cat. 131, 1878.
 Edw., Cat. 39, 1884.
 French, But. 189, 1885.
 Mayn., But. 14, pl. 2, f. 15, 15a, 1886.
 Scud., But. 1, 359, pl. 3, f. 11, 1889.*
C. argenteum Scud., Proc. Ess. Inst. 3, 169, 1862.
 Streck., Cat. 131, 1878.
Hab.—White Mts., N. H.: Me.; Queb. Br. Am., Alaska.
140. **Silenus** Edw., Tr. A. E. Soc. 3, 15, 1870.
 Edw., But. 2, pl. 1 of *Grapta*, 1874.
 Streck., Cat. 131, 1878.
 Edw., Cat. 39, 1884.
Var. oreas Edw., Tr. A. E. Soc. 2, 373, 1869.
 Edw., l. c. 5, 109, 1874.
 Kirby, Cat. 183, 1871.
 Scud., Buff. Bull. 2, 252, 1878.
C. album Behr. Proc. Cal. Acad. Nat. Sci. 3, 123, 1864.
Hab.—Cal., Wash., Vanc. Is., Mont.
141. **Progne** Cram., 1, pl. 5, f. E, F, 1775.
 Fabr., Gen. Ins. 264, 1777.
 Fabr., Sp. Ins. 2, 93, 1781.
 Fabr., Ent. Syst. 3, 1, 124, 1793.
 Herbst, Natursyst. Ins. Schmett. 7, 61, t. 163, 1794.
 Hüb., Verz. Bek. Schmett. 36, 1816.
 Godt., Enc. Meth. 9, 304, 1819.
 Bdl.-Lec., Lep. Am. Sept. 188, t. 50, 1833.
 Dbl.-Hew., Gen. Diur. Lep. 1, 197, 1846-50.
 Emm. Agr. Nat. Hist. N. Y. 207, 1854.
 Fitch, Rep. N. Y. State Agr. Soc. 428, 1856.
 Morr., Syn. 56, 1862.
 Harris, Ins. Inj. Veg., Flint's Ed. 301, 1862.
 Lint., Proc. Ent. Soc. Phil. 3, 58, 1864.*
 Reak., Proc. Ent. Soc. Phil. 6, 143, 1866.
 Pack., Guide 260, f. 188, 1869.
 Kirby, Cat. 182, 1871.
 Stgr., Cat. 16, 1871.
 Scud., Syst. Rev. Am. But. 10, 1872.
 Scud., Buff. Bull. 2, 253, 1875.
 Streck., Cat. 132, 1878.
 Edw., Can. Ent. 11, 9, 1879.*
 Fern., But. Me. 53, 1884.
 Edw., Cat. 38, 1884.
 French, But. 190, f. 53, 1885.*
 Mayn., But. 14, pl. 2, f. 16, 16a, 1889.
 Scud., But. 1, 362, pl. 3, f. 5, 1889.*
argenteum Kirby, Faun. Bor. Am. 4, 292, pl. 3, f. 6, 7, 1837.
grogne Fabr., Manj. Ins. 2, 50, 1787.
Var. argenteum Scud., Buff. Bull. 2, 253, 1875.
Hab.—North. and West. St. Br. Am to N. Scotia, Antic., Kamtschatka. Siberia. Japan.
142. **J-album** Bd.-Lec., 185, pl. 50, 1833.
 Harr., 298, 1862.
 Morris, Syn. 56, 1862.
 Lint., Pr. E. Soc. Phil. 3, 58, 1864.*
 Scud., Syst. Rev. Am. But. 11, 1872.
 Scud., Buff. Bull. 2, 253, 1875.
 Streck., Cat. 133, 1878.
 Edw., Cat. 38, 1884.
 Fern., But. Me. 54, 1884.*
 French, But. 192, 1885.*
 Mayn., But. 14, pl. 2, f. 16, 16a, 1886.
 Denton, Can. Ent. 21, 164, 1889.*
 Dawson, Can. Ent. 21, 180, 1889.*
 Scud., But. 1, 379, pl. 3, f. 9, 1889.*
Mut. auriomarginata Cockerell, Entom. 100, 1889.
urticæ Harris (nec L.), Hitch Rep. Geo. Min. etc., Ed. 1, 520, 1833.
Hab.—North. St. to Wis., Br. Am. Pac. to Nov. Sco., So. Labr.
- VANESSA** Fabricius.
143. **Antiopa** Linn., Syst. Nat. Ed. x, 476, 1758.
 Linn., Faun. Suec. 277, 1761.
 Linn., Syst. Nat. Ed. xii, 1, 2, 776, 1767.

- Pod., Ins. Mus. Graec. 71, 1761.
 Scop., Ent. Carn. 148, n. 419, 1763.
 Fabr., Syst. Ent. 503, 1775.
 Brk., Natur. Schmett. 1, 11, 195, 1778.
 Esp., Schmett. 1. 1, t. 12, 1777, t. 29, 1778.
 Bergstr., Nom. t. 37, 112, 1779.
 Fabr., Sp. Ins. 2, 89, 1781.
 Fabr., Mant., Ins. 2, 48, 1787.
 Fabr., Ent. Syst. 3, 1, 115, 1793.
 Hüb., Eur. Schmett. 1, f. 79, 80, 1793.
 Herbst., Natursyst. Ins. 7, 96, t. 166, 1794.
 Don., Nat. Hist. Brit. Ins. 3, 45, t. 12, 1797.
 Wilb., Unt. Nat. Ins. 2, 91, t. 12, 1797.
 Latr., Hist. Nat. Crust. et Ins. 14, 83, t. 105, 1805.
 Ochs., Schmett. 1, 1, 110, 1807.
 Hüb., Verz. Bek. Schmett. 37, 1816.
 Dalm., Vetensk. Acad. Handl. 64, 1816.
 Godt., Enc. Meth. 9, 308, 1819.
 Steph., Ill. Brit. Ent. Haust. 1, 45, 1828.
 Brown, Const. Mis. But. 1, 160, t. 26, 1832.
 Bdl.-Lec., Lep. Am. Sept. 173, 1833.
 Lucas, Pap. Eur. 58, t. 1, 1834.
 Duncan, Nat. Lib. Ent. 3, 168, t. 18, 1835.
 Kirby, Faun. Bor. Am. 4, 293, 1837.
 Berge, Schmett. 99, t. 44, 1842.
 Emm., Agr. Nat. Hist. N. Y. 5, 20, t. 6, 1854.
 Humphreys, Brit. But. 53, t. 14, 1841.
 Harris, Ins. Inj. Veg., Flint's Ed. 296, f. 121, 122, 1862.
 Morris, Syn. 57, 1862.
 Bohr, Proc. Cal. Ac. N. Sci. 3, 125, 1864.
 Lint., Proc. Ent. Soc. Phil. 3, 59, 1864.*
 Reak., J. c. 6, 143, 1866.
 Pack., Guide 258, 1869.
 Saund., Can. Ent. 1, 75, 1869.*
 Stgr., Cat. 16, 1871.
 Kirby, Cat. 183, 1871.
 H. Edw., Proc. Cal. Ac. N. Sci. 1873.*
 Mead, Wheeler's Rep. 5, 769, 1875.
 Scud., Buff. Bull. 2, 254, 1875.
 Streck., Cat. 133, 1878.
 Fern., But. Me. 55, 1884.*
 Edw., Cat. 39, 1884.
 French, But. 193, f. 54, 1885.
 Mayn., But. 16, pl. 2, f. 18, 1886.
 Scud., But. 1, 397, pl. 2, f. 4, 1889.*
 Biol. Cent.-Am. 1, 215, 1879-1886.
pompadour Poll., Bemerk. Churpf. Oek. Ges. 1779.
morio Linn., Faun. Suec. 1, 232, 1746.
 Retz., Gen. et Sp. Ins. 31, 1783.
 Godt., Hist. Nat. Lep. 1, 93, t. 5, 1821.
 —Seba, Thes. 4, 39, t. 32, f. 1, 2, 1765.
 —Engr., Pap. Eur. 1, 1, t. 1, 1799.
Aber. obscura Cockerell, Ent. Rec. 14, 1890.
Aber. hippolita Lyman, Can. Ent. 30, 49, 1898.
Aber. hygiea Hdrch., Verz. Eur. Schmett. 7, 1851.
 Hüb., Eur. Schmett. 1, f. 993, 1829-41.
 Frey, Neu. Beit. 2, t. 145, 1835.
 Mill., Icon. Chen. et Lep. 10, 420, t. 94, 1868.
 Stgr., Cat. 17, 1871.
 Kirby, Cat. 183, 1871.
 Scud., Buff. Bull. 2, 254, 1875.
lintnerii Fitch, 3rd Rep. Tr. N. Y. State Agr. Soc. 485, 1856.
 Morris, Syn. 57, 1862.
 Streck., Lep. Rhop.-Het. 7, 1872.
 Bunker, Can. Ent. 8, 240, 1876.
Hab.—North Amer generally; Europe, Siberia, Mex., Cent. Am.
144. Californica Bd., Ann. Soc. Ent. Fr. 2, 10, 306, 1852.
 Morr., 58, 1862.
 Behr, Pr. Cal. Ac. N. Sci. 3, 123, 1864.
 Pack., Guide 259, 1869.
 Kirby, Cat. 184, 1871.
 Hy. Edw., Proc. Cal. Acad. Nat. Sci. 5, 171, 1875.*
 Mead, Wheeler's Rep. 5, 769, 1875.
 Scud., Buff. Bull. 2, 253, 1875.
 Streck., Cat. 133, 1878.
 Edw., Cat. 40, 1884.
 Wright, Can. Ent. 23, 27, 1891.*
Hab.—Cal., Oreg., Nev., Colo., Utah.

145. **Milbertii** Godt., Enc. Meth. 9, 307, 1819.
 Bd.-Lec., Lep. Am. Sept. 187, t. 50, 1833.
 Dbl.-Hew., Gen. Diur. Lep. 1, 201, t. 26, 1846.
 Harr., Ins. Inj. Veg., Flint Ed. 302, f. 125, 1862.
 Morr., Syn. 56, 1862.
 Lint., Proc. Ent. Soc. Phil. 3, 61, 1864.*
 Reak., l. c. 6, 143, 1866.
 Saund., Can. Ent. 1, 76, 1869.*
 Pack., Guide 259, 1869.
 Kirby, Cat. 143, 1871.
 Hy.-Edw., Proc. Cal. Nat. Sci. 5, 170, 1873.*
 Scud., Syst. Rev. Am. But. 21, 1872.
 Scud., Buff. Bull. 2, 251, 1875.
 Mead, Wheeler's Rep. 5, 769, 1875.
 Streck., Cat. 133, 1878.
 Edw., Cat. 40, 1884.
 Edw., Can. Ent. 17, 181, 1885.
 French, But. 195, 1885.*
 Mayn., But. 17, pl. 1, f. 19, 19a, 1886.
 Scud., But. 1, 420, pl. 2, f. 7, 1889.*
Var. furcillata Say, Am. Ent. 2, t. 27, 1825.
 Brown, Const. Mis. But. 1, 180, t. 40, 1832.
 Kirby, Faun. Bor. Am. 4, 292, 1837.
Var. subpallida Ckll., Ent. 185, 1889.
urticæ? Kunze, Ent. News 2, 53, 91.
Hab.—North. St. to Mont.; Col., Ariz., Pac. St.; Br. Am. to N. Sco.; N. F'land., Vanc.
PYRAMEIS Doubleday.
 146. **Atalanta** Linn., Syst. Nat. Ed. x, 478, 1758.
 Linn., Faun. Suec. 279, 1761.
 Pod., Ins. Mus. Graec. 72, 1761.
 Scop., Ent. Carn. 148, 1763.
 Linn., Ed. xii, 1, 2, 779, 1767.
 Esp., Eur. Schmett. i, 1, t. 14, 1777.
 Bergs., Nom. t. 20, 1779.
 Eugr., Pap. Eur. 17, t. 6, 1779.
 Fab., Ent. Syst. 504, 1775.
 Fab., Sp. Ins. 2, 90, 1781.
 Retz., Gen. et Sp. Ins. 31, 1783.
 Fab., Mant. Ins. 2, 49, 1787.
 Brk., Natur. Schmett. i, 12, 196, 1788.
 Fab., Ent. Syst. iii, 1, 118, 1793.
 Hüb., Eur. Schmett. i, f. 75, 76, 1793.
 Herbst, Natursyst. Ins. Schmett. vii, 171, t. 180, f. 3, 4, 1794.
 Wilh., Unt. Nat. Ins. 11, 118, t. 15, 1797.
 Don., Brit. Ins. 8, 19, t. 260, 1799.
 Schaef., Icon. 2, t. 148, vol. of text, 141, 1804.
 Latr., Hist. Nat. Crust. et Ins. 14, 86, 1805.
 Ochs., Schmett. Eur. i, 1, 104, 1807.
 Hüb., Verz. Bek. Schmett. 33, 1816.
 Dalm., Ventsk. Acad. Handl. 55, 1816.
 Lamark, Hist. Anim. Sans. Vert. 4, 29, 1817.
 Godt., Enc. Meth. 9, 319, 1819.
 Godt., Hist. Nat. Lep. 1, 99, t. 6, 1821.
 Steph., Ill. Brit. Ent. Haust. 1, 46, 1828.
 Bdl.-Lec., Lep. Am. Sept. 175, 1833.
 Lucas, Pap. Eur. 57, t. 1, 1834-35.
 Harr., Hitch Rep. Min. Geo. etc., Mass. Ed. i, 390, 1833.
 Duncan, Nat. Lib. Ent. 3, 170, t. 20, 1835.
 Humph., Brit. But. 55, t. 15, 1841.
 Berge, Schmett. 100, t. 45, 1842.
 Emm., Agr. Nat. Hist. N. Y. 5, 209, 1854.
 Harris, Ins. Inj. Veg., Flint's Ed. 294, f. 120, 1862.
 Morr., Syn. 58, 1862.
 Behr, Proc. Cal. Acad. Nat. Sci. 3, 125, 1864.
 Pack., Guide 261, 1869.
 Kirby, Cat. 185, 1871.
 Hy. Edw., Proc. Cal. Acad. Nat. Sci. 1873.*
 Mead, Wheeler's Rep. 5, 770, 1875.
 Scud., Buff. Bull. 2, 254, 1875.
 Streck., Cat. 136, 1878.
 Edw., Cat. 40, 1884.
 French, But. 196, f. 55, 1885.*
 Edw., Can. Ent. 17, 179, 1885.*
 Mayn., But. 18, pl. 3, f. 20, 20a, 1886.
 Scud., But. 1, 441, pl. 2, f. 6, 1889.*
 Biol. Cent.-Am. 1, 219, 1879-86.
admiralis Retz., Gen. et Sp. Ins. 31, 1783.
 Merian, Eur. Ins. t. 91, 1730.

- Seba, Thes. 4, 6, t. 1, f. D. 1-D. 4, 1765.
 Engr., Pop. Eur. 17, t. 6, 1779.
- Hab.*—N. Am. generally; Europe; Asia;
 Africa; Mexico.
147. **Huntera** Fab., Syst. Ent. 499, 1775.
 Fab., Sp. Ins. 2, 83, 1781.
 Fab., Mant. Ins. 2, 45, 1787.
 Fab., Ent. Syst. iii, 1, 104, 1793.
 Herbst, Natursyst. Ins. Schmett. 7,
 165, t. 178 ♂, 179 ♀, 1794.
 Ab.-Sm., Ins. Ga. 1, t. 9, 1797.
 Hüb., Samm. Ex. Schmett. 3, 1806-16.
 Godt., Enc. Meth. 9, 324, 1819.
 Bdl.-Lec., Lep. Am. Sept. 180, t. 48,
 1833.
 Harr., Hitch Rep. Geo. Min. etc., Mass.
 Ed. 1, 590, 1833.
 Humph., Brit. But. 57, t. 15, 1841.
 Dbl.-Hew., Gen. Diur. Lep. 1, 205,
 1846-1850.
 Emm., Agr. Nat. Hist. N. Y. 5, 210,
 1854.
 Harris, Ins. Inj. Veg., Flint's Ed. 292,
 f. 119, 1862.
 Morris, Syn. 60, 1862.
 Lint., Proc. Ent. Soc. Phil. 3, 63, 1864.*
 Saund., Can. Ent. 1, 105, 1869.*
 Pack., Guide 261, 1869.
 Hy. Edw., Proc. Cal. Ac. Nat. Sci. 5,
 1873.
 Scud., Buff. Bull. 2, 254, 1875.
 Streck., Cat. 138, 1878.
 H. Edw., Proc. Cal. Ac. N. Sci. 7, 171,
 1878.
 Edw., Cat. 40, 1884.
 Fern., But. Me. 58, 1884.*
 French, But. 198, 1885.*
 Mayn., But. 19, pl. 3, f. 21, 21a, 1886.
 Scud., But. 1, 457, pl. 2, f. 3, 1889.*
 Biol. Cent.-Am. 1, 218, 1879-86.
- belladonna* Petiv., Gazoph. 4, t. 33, f. 5,
 1711.
- virginiensis* Dru., Ill. Ex. Ent. 1, t. 5, 1770.
- iole* Cram., Pap. Ex. 1, t. 12, 1779.
- hunteri* Hüb., Verz. Bek. Schmett. 33,
 1816.
- virginiensis* Kirby, Cat. 186, 1871.
- Hab.*—N. Am. generally; Mexico; Cent.
 and South Am.; Antilles; Canary
 Isles.
148. **Cardui** Linn., Syst. Nat. Ed. x, 475,
 1758.
 Linn., Ed. xii, 774, 1767.
 Linn., Faun. Suec. 276, 1761.
 Scop., Ent. Carn. 150, 1763.
 Fab., Syst. Ent. 499, 1775.
 Fab., Sp. Ins. ii, 82, 1781.
 Fab., Mant. Ins. ii, 45, 1787.
 Fab., Ent. Syst. iii, 1, 104, 1793.
 Esp., Schmett. i, t. 10, 1777.
 Bergstr., Nom. t. 62, 1797.
 Brk., Natur. Schmett. i, 199, 1788.
 Hüb., Eur. Schmett. i, f. 73, 74, 1793.
 Wilh., Unt. Nat. Ins. ii, 77, t. 9, 1797.
 Don., Brit. Ins. ix, 9, t. 292, 1800.
 Schaeff., Icones i, t. 97, vol. of text,
 108, 1804.
 Latr., Hist. Nat. Crust. et Ins. 14, 87,
 1805.
 Fab., Ill. Mag. Ins. vi, 281, 1807.
 Ochs., Schmett. Eur. i, 1, 102, 1807.
 Hüb., Verz. Bek. Schmett. 33, 1816.
 Dalm., Veteusk. Acad. Handl. 65, 1816.
 Lamarek, Hist. Anim. Sans. Vertebr.
 iv, 29, 1817.
 Godt., Enc. Meth. ix, 323, 1819.
 Steph., Ill. Brit. Ent. Haust, i, 47, 1828.
 Bdl.-Lec., Lep. Am. Sept. 178, 1833.
 Bdl.-Faun. Ent. Mad. 43, 1834.
 Don., Nat. Lib. Ent. iii, 174, t. 19,
 1835.
 Kirby, Faun. Bor. Am. iv, 295, 1837.
 Humph., Brit. But. 56, t. 15, 1841.
 Berge, Schmett. 100, t. 45, 1842.
 Bdl., App. Voy. de Deleg. 592, 1847.
 Dbl.-Hew., Gen. Diur. Lep. i, 205, 1846-
 1850.
 Chenu, Enc. Hist. Nat. Pap. Diur. i, f.
 215, 1852.
 Bdl., Ann. Ent. Fr. 2me Ser. x, 307,
 1852.
 Emm., Agr. Nat. Hist. N. Y. v, 210, t.
 46, 1854.
 Staint., Man. Brit. But. i, 37, 1857.

- Horsf.-Moore, Cat. Lep. Mns. E. I. C. 138, 1857.
 Harris, Ins. Inj. Veg., Flint Ed. 291, f. 118, 1862.
 Morris, Syn. 59, 1862.
 Trim., Rhop. Afr. Austr. i, 119, 1862.
 Behr, Proc. Cal. Acad. Nat. Sci. iii, 125, 1864.
 Pack., Guide 261, 1869.
 Saund., Can. Ent. i, 93, 1869.*
 Kirby, Cat. 185, 1871.
 Stgr., Cat. 17, 1871.
 Hy. Edw., Proc. Cal. Acad. Nat. Sci. v, 1873.*
 Mead, Wheeler's Rep. v, 770, 1875.
 Scud., Buff. Bull. ii, 254, 1875.
 Scud., Am. Nat. 10, 392, 602, 1876.*
 Fern., But. Me. 59, 1884.*
 Edw., Cat. 1884.
 French, 199, 1885.*
 Mayn., But. 19, pl. 3, f. 22, 22a, 1886.
 Biol. Cent.-Am. 1, 217, 1879-86.
 Scud., But. 1, 469, pl. 2, f. 1, 1889.*
 Dyar, Can. Ent. 24, 6, 1892.*
- belladonna* Petiv., Pap. Brit. 2, t. 4, 1717.
 Linn., Faun. Suec. Ed. 1, p. 235, 1746.
 Godt., Hist. Nat. Lep. 1, 102, t. 5, 1820.
 Lucas, Pap. Eur. 57, t. 3, 1854.
- carduelis* Seba, Thes. 4, 6, t. 1, 1765.
 Cram., Pap. Exot. 1, t. 26, f. E, F, 1799.
 —Merian, Eur. Ins. t. 116, 1730.
 —Engr., Pap. Eur. 20, t. 7, 1779.
- Aber. minor** Ckll., Can. Ent. 22, 57, 1890.
 Ckll., Ent. Rec. 60, 1890.
- Aber. elymi** Ramb., Ann. Soc. Obs. 2, t. 5, f. 1, 2, 1829.
 Kirby, Cat. 186, 1871.
 Stgr., Cat. 17, 1871.
 H.-S., Schmett. Eur. 1, f. 157, 158, 1843.
 Streck., Cat. 133, 1878.
- Aber. atæ** Streck., Cat. 137, 1878.
- Hab.*—N. Am. generally. Cosmopolitan.
149. **Carye** Hüb., Verz. Bek. Schmett. 1, 1806-1816.
 Dhl.-Hew., Gen. Diur. Lep. 1, 205, 1846-1850.
- Behr, Pr. Cal. Ac. N. Sci. 3, 125, 1864.*
 Kirby, Cat. 186, 1871.
 Hy. Edw., Proc. Cal. Ac. N. Sci. 4, 329, 1874.*
 Scud., Buff. Bull. 2, 255, 1875.
 Streck., Cat. 138, 1878.
 Biol. Cent.-Am. 1, 219, 1879-86.
 Edw., Cat. 40, 1884.
 Dyar, Can. Ent. 21, 237, 1889.*
 Lemberg, Ent. News 6, 138, 1895.*
- Hybd. bet. **carye** and **atalanta** Hy. Edw., Pr. Cal. Ac. N. S. 7, 171, 1878.
- charie* Blanch., Gay, Fann. Chili, 7, 26, t. 2, Atlas, 1852.
- Aber. muelleri** Letcher, Ent. News, 9, 38, pl. 3, 1898.
- Hab.*—Vanc. to Argentina; Ariz., Nev., Utah.
- JUNONIA** Doubleday.
150. **Cœnia** Hüb., Samm. Ex. Schmett. 2, 1316-24.
 Bdl.-Lec., Lep. Am. Sept. 182, t. 49, 1833.
 Morris, Syn. 61, 1862.
 Behr, Proc. Cal. Ac. N. Sci. 3, 126, 1864.
 Pack., Guide 216, 1869.
 Kirby, Cat. 188, 1871.
 H. Edw., Proc. Cal. Acad. N. Sci. 5 (Oct. 6), 1873.
 Scud., Buff. Bull. 2, 255, 1875.
 Streck., Cat. 138, 1878.
 Blake, Trans. Am. Ent. Soc. 14, 7, 1879.
 Sprague, Can. Ent. 12, 100, 1880.
 Aurivillius, Sv. Ak. Handl. 19, No. 5, 82, 1882.
 Jones, Pr. Liverp. Soc. 37, 38, 1883.*
 Fern., But. Me. 60, 1884.*
 Edw., Cat. 41, 1884.
 French, But. 200, f. 56, 1885.
 Mayn., But. 20, pl. 3, f. 23, 23a, 1886.
 Biol. Cent.-Am. 1, 220, 1879-86.
 Scud., But. 1, 494, pl. 14, pl. 14, f. 15, 1889.*
 Skinner Ent. News 1, 9, 1890.*
 Dyar, Ent. News 23, 187, 1891.*
- genoreva* Cram., 4, pl. 290, f. E, F, 1782.

orythia Abb.-S., Ins. Ga. 1. t. 8, 1797.

larinia Godt., Enc. Meth. 9, 318, 1819.

lavinia Harr. (nec. Cram.), Hitch Rep.
Geo. etc. Ed. 1, 590, 1833.

Harr., Ins. Inj. Veg., Flint's Ed. 293,
1862.

Hab.—Mid. and South. St. to Pac.: Mass.,
Me.; Ont.; Alberta; Mex.; Cent.
Am.; Antilles.

VICTORINA Blanchard.

151. **Steneles** Linn., Syst. Nat. Ed. x.
465, 1758.

—Petiv., Gozoph. 20, t. 13, 1702.

—Sloane. Hist. Jamaica 2, 217, t. 239,
f. 9, 10, 1725.

Linn., Mus. Lud. Ulr. Reg. 218, 1764.

Clerck., Icon. t. 35, 1764.

Linn., Ed. xii, 750, 1767.

Fab., Syst. Ent. 456, 1775.

Cram., Pap. Ex. f. t. 79, 1779.

Fab., Sp. Ins. 2, 23, 92, 1781.

Fab., Mant. Ins. 2, 12, 108, 1787.

Herbst, Natursyst. Ins. Schmett. 3,
188, t. 47, 1788.

Fab., Ent. Syst. iii, 1, 84, 1793.

De Beauv., Ins. Afr. et Am. 188, t. 5,
1805.

Godt., Enc. Meth. 9, 378, 1823.

Hüb., Samm. Ex. Schmett. 1806-24.

Lucas, Pap. Ex. 125, t. 69, 1835.

Blanch., Hist. Nat. Mus. 3, 447, 1840.

Gosse, Ann. Nat. Hist. Ser. 2, 2, 268,
1848.

Dbl.-Hew., Gen. Diur. Lep. 2, 265,
Atlas, t. 33, 1850-52.

Chenu, Enc. Hist. Nat. Pap. Diur. 126,
f. 241, 1851-53.

Kirby, Cat. 223, 1871.

Scud., Buff. Bull. 2, 257, 1875.

Streck., Cat. 142, 1878.

Edw., Can. Ent. 17, 109, 1885.

French, 204, f. 57, 1885.*

Biol. Cent.-Am. 1, 289, 1879-86.

steneles Hüb., Verz. Bek. Schmett. 43, 1816.

lavinia Fab., Ent. Syst. 3, 1, 22, 1793.

Hab.—S. W. Tex. (Round Mt., Blanco Co.,
Tex., Skinner), Fla., Mex., Cent.
Am., South Am., West Indies.

ANARTIA Doubleday.

152. **Jatrophæ** Linn., Mus. Lud. Ulr.
289, 1764.

Joh., Amœn. Acad. 6, 408, 1764.

Linn., Syst. Nat. Ed. xii, i, 2, 779, 1767.

Fab., Syst. Ent. 493, 1775.

Fab., Sp. Ins. 2, 75, 1781.

Cram., Pap. Ex. 3, t. 202, 1782.

Fab., Mant. Ins. 2, 37, 1787.

Fab., Ent. Syst. iii, 1, 98, 1793.

Herbst, Natursyst. Ins. Schmett. 7, 134,
t. 172, 1794.

Hüb., Samm. Ex. Schmett. i, 1806-16.

Hüb., Verz. Bek. Schmett. 33, 1816.

Godt., Enc. Meth. 9, 297, 1819.

Dbl.-Hew., Gen. Diur. Lep. 1, 216, 1846-
50.

Morr., Syn. 62, 1862.

Kirby, Cat. 194, 1871.

Scud., Buff. Bull. 2, 255, 1875.

Streck., Cat. 139, 1878.

Edw., Cat. 41, 1884.

French, 202, 1885.

Biol. Cent.-Am. 1, 221, 1879-86.

Hab.—Texas, Fla., West Indies, Cent.
Am., Mex., Brazil.

EUREMA Boisduval.

153. **Lethe** Fab., Ent. Syst. 3, 80, 1793.

Don., Ins. Ind. pl. 23, f. 1, 1800.

Kirby, Cat. 180, 1871.

Streck., Cat. 127, 1878.

Edw., Cat. 41, 1884.

Muller, Zool. J. B. 1, 441, pl. 15, f. 6,
1886.*

Biol. Cent.-Am. 1, 212, 1879-86.

demonica Hüb., Samm. Ex. Schmett. 2, f.
1, 2, 1806-27.

Hab.—Texas, occasl.; Mex., Cent. and
South Am.

EUNICA Felder.

154. **Monima** Cram., 4, 387, f. F, G, 1782.

Herr.-Sch., Reg. Corr.-Blatt. Zool. Min.
Ver. 18, 162, 1864.

Streck., Cat. 140, 1878.

Edw., Cat. 41, 1884.

- French, But. 202, 1885.
 Biol. Cent.-Am. 1, 228, 1879-86 (as *modesta* Bates).
- myrta* Godt., Enc. Meth. 9, 418, 1823.
 Hüb., Verz. Bek. Schmett. 61, 1816.
- modesta* Bates, Ent. Mo. Mag. 1, 113, 1864.
 Kirby, Cat. 200, 1878.
- hyperipte* Edw., Syn. (not Hüb.).
Hab.—Texas, Fla., Antilles, Mex.
155. **Tatila** Herr.-Schaff., Ex. Schmett. f. 69-72, 1852-58.
 Kirby, Cat. 198, 1871.
 Biol. Cent.-Am., 1, 229, pl. 23, f. 4, 1879-1886.
 Schaus. Ent. News, 5, 17, 1894.
- cærulea* Godin.-Salv., P. Z. S. 64, 1877.
Hab.—Lake Worth, Fla. (Schaus). Key West, Fla. (Morrison). Miami, Fla. (Mrs. Slosson), Mex., Colombia.
- TIMETES** Boisduval.
156. **Coresia** Godt., Enc. Meth. 9, 359, 1823.
 Blanch., Hist. Nat. Ins. 3, 447.
 Dbl.-Hew., Gen. Diur. Lep. 2, 263, 1850-1852.
 Edw., Pr. Ent. Soc. Phil. 1, 224, 1862.
 Kirby, Cat. 220, 1871.
 Scud., Buff. Bull. 2, 256, 1875.
 Streck., Cat. 141, 1878.
 Edw., Cat. 41, 1884.
 Biol. Cent.-Am. 1, 289, 1879-86.
- zerynthia* Hüb., Samm. Ex. Schmett. ii, 1806-24.
- sylla* Perty, Del. Anim. Art. 151. t. 29, 1830-34.
Hab.—Texas, occasl. Mex., Cent. Am.
157. **Petreus** Cram., 1, 87, f. D, E, 1779.
 Herbst. Natursyst. Ins. Schmett. 4, 87, t. 67, 1790.
 Stoll, Sup. Cram. t. 2, f. 2a, 2b, 2c, Lar. et Pap. 1791.
 Edw., Cat. 41, 1884.
 French, 203, 1885.
- peleus* Sulz., Abg. Gesch. Ins. t. 13, f. 4, 1776.
 Kirby, Cat. 222, 1871.
 Send., Buff. Bull. 2, 256, 1875.
 Streck., Cat. 141, 1878.
- thetys* Fab., Gen. Ins. 264, 1777.
 Fab., Sp. Ins. 2, 87, 1781.
 Fab., Mant. Ins. 2, 47, 1787.
 Fab., Ent. Syst. iii, 1, 77, 1793.
 Swains., Zool. Ill. Ins. 2, t. 59, 1832.
- thetis* De Beauv., Ins. Afr. et Am. 189, t. 5, 1805.
- thetis* Hüb., Verz. Bek. Schmett. 36, 1816.
 Godt., Enc. Meth. 9, 358, 1823.
 Dun., Nat. Lib. Ent. 5, 164., t. 19, 1837.
- eleucha* Edw., Syn. (not Hüb.).
Hab.—Indian River, Fla. (by Wittfeld), Mex., Cent. Am., South Am.
158. **Eleucha** Hüb., Samm. Ex. Schmett. ii, 1816-24.
 Hüb., Verz. Bek. Schmett. 47, 1816.
 Zutr., Ex. Schmett. f. 197, 198, 1818.
 H.-Sch., Reg. Corr.-Blatt. Zool. Min. Ver. 18, 161, 1864.
 Streck., Cat. 141, 1878.
 Schaus, Ent. News 9, 96, 1898.
- eleucha* Dbl.-Hew., Gen. Diur. Lep. 2, 263, Atlas, t. 33, 1850-52.
 Kirby, Cat. 222, 1871.
 Edw., Cat. 41, 1884.
- pellenis* Godt., Enc. Meth. 9, 359, 1823.
 Send., Buff. Bull. 2, 257, 1875.
Hab.—Texas, occasl.: Miami, Fla.: West Indies.
159. **Chiron** Fab., Syst. Ent. 452, 1775.
 Fab., Sp. Ins. 2, 16, 1781.
 Fab., Mant. Ins. 2, 8, 1787.
 Fab., Ent. Syst. ii, 1, 26, 1793.
 Herbst, Natursyst. Ins. Schmett. 3, 222, t. 52, 1788.
 Godt., Enc. Meth. 9, 359, 1823.
 Kirby, Cat. 221, 1871.
 Streck., Cat. 141, 1878.
 Edw., Cat. 41, 1884.
 Biol. Cent.-Am. 1, 288, 1879-86.

marius Cram., 3, pl. 200, f. D, E, 1780.
Stoll, Suppl. Cram. 30, 1791.

chironias Hüb., Verz. Bek. Schmett. 47, 1816.

Sloane, Hist. Jamaica t. 239, f. 1, 2, 1725.

Seba, Thes. 4, 42, t. 34, f. 13, 14, 43. t. 35, f. 3, 4, 1765.

Hab.—Texas, occasl.; Mex., West Indies, Cent. and South Am.

DIADEMA Boisduval.

160. **Misippus** Linn., Mus. Ulr. 264, 1764.

Linn., Syst. Nat. 1, 2, 767, 1767.

Kirby, Cat. 225, 1871.

Edw., Cat. 42, 1884.

French, But. 206, 1885.

♂ *bolina* Dru. (not Linn.), 1, pl. 14, 1773.
Edw., Pap. 1, 30, 1881.

Hab.—Indian River, Fla., occasl. (by Wittfeld), Banana River, Fla. (Mrs. Cory), India, Africa, Australia, Guiana.

LIMENITIS Fabricius.

161. **Ursula** Godt., Enc. Meth. 9, 380, 1823.

Bdl.-Lec., Lep. Am. Sept. 199, t. 53, 1833.*

Morris, Syn. 64, 1862.

Riley, Can. Ent. 3, 52, 1871.*

Edw., Can. Ent. 5, 10, 1873.

Mundt, Pap. 3, 26, 1883.

Edw., Cat. 42, 1884.

French, 206, f. 58, 1885.*

Mayn., But. 9, pl. 1, f. 10, 10a, 1886.

Biol. Cent.-Am. 1, 311, 1879-86.

ephestion Stoll, Suppl. Cram. 121, t. 25, f. 1, 1a, 1790.

Godt., Enc. Meth. 9, 42, 1819.

Hüb., Samml. Ex. Schmett. 1, 1806-24.

Harr., Ins. Inj. Veg., Flint's Ed. 283, 1862.

Pack., Guide 262, 1869.

Streck., Cat. 143, 1878.

astyanax Fab., Syst. Ent. 447, 1775.

Fab., Sp. Ins. 2, 7, 1781.

Fab., Mant. Ins. 2, 4, 1787.

Kirby, Cat. 237, 1871.

Scud., Syst. Rev. Am. But. 8, 1872.

Scud., Buff. Bull. 2, 249, 1875.

Scud., But. 1, 280, pl. 2, f. 8, 1889.*

Hab.—Atl. St., Miss. Valley, Kans., Ont.

Var. arizonensis Edw., Papilio 2, 22, 1882.

Hab.—Ariz., Mex.

162. **Arthemis** Dru., Ill. Ex. Ent. 2, t. 10, 1773.

Say, Am. Ent. 2, t. 23, 1825.

Bdl.-Lec., Lep. Am. Sept. 202, t. 54, 1833.

Dbl., Cat. Lep. B. M. 1, 96, 1844.

Dhl.-Hew., Gen. Diur. Lep. 2, 276, 1850-52.

Emm., Agr. Nat. Hist. N. Y. 211, t. 43, 1854.

Harris, Ins. Inj. Veg., Flint's Ed. 243, t. 1, 1862.

Morris, Syn. 65, 1862.

Lint., Proc. Ent. Soc. Phil. 3, 62, 1864.

Reak., l. c. 6, 143, 1866.

Pack., Guide 262, 1869.

Saund., Can. Ent. 1, 95, 1869.

Kirby, Cat. 237, 1871.

Scud., Syst. Rev. Am. But. 8, 1872.

Scud., Buff. Bull. 2, 249, 1875.

Edw., Can. Ent. 5, 232, 1873.

Mead, l. c. 7, 162, 1875.

Streck., Cat. 144, 1878.

Edw., But. 2, pl. 1 of *Lim.* 1879.

Sprague, Can. Ent. 12, 100, 1880.

Edw., Pap. 2, 47, 1882 (aberr.).

Fern., But. Me. 60, 1884.*

Edw., Cat. 42, 1884.

French, But. 208, 1885.*

Mayn., N. Eng. But. 10, pl. 1, f. 11, 11a, 1886.

Scud., But. E. U. S. and Can. 1, 294, pl. 2, f. 5, 1889.*

lamina Fab., Ent. Syst. iii. 1, 118, 1793.

Godt., Enc. Meth. 9, 380, 1823.

- Form *proserpina* Edw., Proc. Ent. Soc. Phil. 5, 148, 1865.
 Edw., Trans. Am. Ent. Soc. 1, 286, t. 5, 1867.
 Edw., But. N. Am. 1, t. 1, *Lim.* 1868.
 Kirby, Cat. 237, 1871.
 Streck., Lep. Rhop.-Het. 70, 1873.
 Edw., Can. Ent. 5, 232, 1873.
 Grote, Can. Ent. 5, 143, 1873.
 Scud., Buff. Bull. 2, 249, 1875.
 Edw., But. N. Am. 2, pl. 1, *Lim.* 1879.
 Scud., But. E. U. S. and Can. 1, 289, pl. 2, f. 9, 1889.
- Hab.*—Br. Am. and Br. Col., Ont., Queb., N. Sco., North. U. S.
163. **Weidemeyerii** Edw., Pr. Ac. N. Sci. Phil. 162, 1861.
 Edw., But. 1, 129, pl. 42, 1869.
 Morr., 527, 1862.
 Reak., Proc. Ent. Soc. Phila. 6, 143, 1866.
 Kirby, Cat. 236, 1871.
 Mead, Rep. Wheeler Exp. 5, 770, pl. 38, 1875.
 Scud., Buff. Bull. 2, 249, 1875.
 Streck., Cat. 145, 1878.
 Edw., Cat. 43, 1884.
 Edw., Can. Ent. 24, 107, 1892.*
 Edw., But. N. Am. Suppl. 1897.*
- Aber. sine-fascia** Edw., Pap. 2, 22, 1882.
- Hab.*—Rocky Mts., Mont. to N. Mex., Ariz., Utah, Fort Niobrara, Neb.
164. **Misippus** Linn., Mus. Lud. Ulr. Reg. 264, 1764.
 Linn., Syst. Nat. Ed. xii, 767, 1767.
 Fab., Syst. Ent. 481, 1775.
 Fab., Sp. Ins. 2, 55, 1781.
 Fab., Mant. Ins. 2, 27, 1787.
 Fab., Ent. Syst. iii, 1, 50, 1793.
 Herbst, Natursyst. Ins. Schmett. 7, 30, t. 158, f. 3, 4, 1794.
 Emm. Agr. Nat. Hist. N. Y. 202, t. 47, 1854.
 Pack., Guide 261, f. 189, 1869.
 Streck., Cat. 142, 1878.
- archippus* Cram., Pap. Ex. 1, t. 16, A, B, 1779.
 Kirby, Cat. 237, 1871.
 Scud., Syst. Rev. Am. But. 8, 1872.
 Scud., Buff. Bull. 250, 1875.
 Scud., But. E. U. S. and Can. 1, 267, pl. 1, f. 5, 1889.*
- archippe* Hüb., Verz. Bek. Schmett. 16, 1816.
- disippe* Godt., Enc. Meth. 9, 393, 1823.
 Harris, Ins. Inj. Veg., Flint's Ed. 281, f. 109, 1862.
- disippus* Bdl.-Lec., Lep. Am. Sept. 204, t. 55, 1833.
 Morris, Syn. 65, 1862.
 Dbl.-Hew., Gen. Diur. Lep. 276, 1850-1852.
 Lint., Proc. Ent. Soc. Phil. 3, 63, 1864.
 Saund., Can. Ent. 1, 94, 1869.
 Riley, 3d Rep. State of Mo. 153, f. 68, 69, 70, l. c. 171, 1871.*
 Riley, Can. Ent. 3, 52, 1871.*
 Edw., Can. Ent. 11, 224, 1879.*
 Fern., But. Me. 63, 1884.*
 French, But. 210, f. 59-62, 1885.*
 Soule, Psyche 5, 1891.*
- Hab.*—U. S. generally: Ont. to N. Sco.; Br. Am.
- Var. nig** Streck., Cat. 143, 1878.
- Hab.*—Fla.
- Var. pseudo-dorippus** Streck., Cat. 143, 1878.
 Edw., Cat. 43, 1884.
 Mead, Can. Ent. 4, 217, 1872.
- Hab.*—N. Y., Mass.
165. **Floridensis** Streck., Cat. 143, 1878.
 Streck., Can. Ent. 13, 29, 1881.
 Mead, Can. Ent. 13, 79, 1881.
 Edw., Pap. 4, 62, 1884.
 Holland, Jour. N. Y. Ent. Soc. 6, 59, 1898.
- eros* Edw., Can. Ent. 12, 246, 1880.*
 Edw., But. 2, pl. 2, *Lim.* 1883.*

Edw., Cat. 43, 1884.

French, But. 214, 1885.

Hab.—Fla., Ga.

166. **Obsoleta** Edw., Pap. 2, 22, 1882.

hulstii Edw., Pap. 2, 46, 1882.

Hab.—Utah; Phoenix, Ariz.

167. **Lorquini** Bd., Ann. Ent. Soc. Fr. 2, 10, 301, 1852.

Morr., Syn. 66, 1862.

Behr. Proc. Cal. Ac. N. Sci. 3, 127, 1864.

Kirby, Cat. 235, 1871.

H. Edw., Pr. Cal. Ac. N. Sci. 5, 330, 1874.*

Mead, Wheeler's Rep. 5, 770, t. 38, 1875.

Scud., Buff. Bull. 2, 250, 1875.

Streck., Cat. 145, 1878.

Edw., But. 1, 131, pl. 43, 1870.

Edw., Cat. 43, 1884.

Dyar, Can. Ent. 23, 172, 1891.*

Edw., But. Suppl. 1897.*

Var. eavesi H. Edw., Pr. Cal. Ac. N. Sci. 7, 172, 1878.

Hab.—Cala. to Wash., Ariz. Nev., Vanc. Is., Br. Am. Crow's Nest (by Geddes).

HETEROCHROA Boisduval.

168. **Bredowii** Hüb., Zutr. Ex. Schm. f. 825, 826, 1837.

Kirby, Cat. 235, 1871.

Streck., Cat. 145, 1878.

Godm.-Salv., Biol. Cent.-Am. 1, 310, 1877.

eulalia Dbl.-Hew., Gen. Diur. Lep. t. 36, 1850-52.

Bdl., Ann. Soc. Soc. Ent. Fr. 2me ser. x, 501, 1852.

Edw., Proc. Acad. Nat. Sci. Phil. 225, 1862.

Behr, Proc. Cal. Acad. Nat. Sci. 3, 127, 1864.

Var. californica Butl., Proc. Zool. Soc. Lond. 485, 1865.

Edw., But. 1, 133, pl. 44, 1870.

Kirby, Cat. 57. 1871.

Hy. Edw., Proc. Cal. Acad. N. Sci. 5, 171, 1873.

Mead, Wheeler's Rep. 5, 770, t. 38, 1875.

Scud., Buff. Bull. 2, 250, 1875.

Edw., Cat. 44, 1884.

Hab.—Ariz, Nev., Mex., Cent. Am.

APATURA Fabricius.

169. **Celtis** Bd.-Lee., 210, pl. 57, 1833.

Morris, Syn. 68, 1862.

Kirby, Cat. 262, 1871.

Edw., But. 2, pl. 1 of Apat. 1875.*

lycaon Fab., Ent. Syst. iii, 1, 228, 1793.

Herbst, Natursyst. Ins. Schmett. 8, 295, 1796.

Dbl.-Hew., Gen. Diur. Lep. 2, 392, 1850-52.

Scud., Syst. Rev. Am. But. 9, 1872.

Riley, Trans. St. Louis Acad. Sci. 3, 193, 1873.

Riley, 6th Rep. State Mo. 137, f. 39, 40, 1874.

Scud., Buff. Bull. 2, 249, 1875.

Streck., Cat. 145, 1878.

Edw., Cat. 44, 1884.

Edw., Psyche 3, 114, 1880.

Edw., l. c. 123, 1880.

French, But. 215, f. 63, 64, 1885.*

Scud., But. E. U. S. and Can. 3. 1788, 1889.*

Aber. alb. Edw., But. N. Am. 2, t. 1, *Apatura*, f. 4, 5, 1875.

Hab.—Va. to Gulf Mex., Miss. Valley.

170. **Antonia** Edw., Field and Forest 3, 103, 1877.

Edw., Cat. 44, 1884.

Aaron, Pap. 4, 178, 1885.

Hab.—Texas.

Var. montis Edw., Pap. ³/₇, 7, 1882.

Hab.—Ariz., Col.

171. **Leilia** Edw., ♂, Tr. A. E. Soc. 5, 103, 1874.

Edw., ♂, But. 2, pl. 1, Apat. 1875.

Streck., Cat. 146, 1878.
 Edw., ♀, Pap. 2, 23, 1882.
 Edw., Cat. 44, 1884.
 Aaron, Pap. 4, 178, 1885.

Hab.—Ariz.

172. **Alicia** Edw., But. 1, 135, pl. 45, 1868.

Edw., Psyche 3, 123, 1880.*
 Edw., Cat. 44, 1884.
 French, But. 217, 1885.

Hab.—Gulf St., Fla. to Tex.

173. **Clyton** Bdl.-Lee., Lep. Am. Sept. 208, 56, 1833.

Morris, Syn. 68, 1862.
 Streck., Cat. 146, 1878.
 Edw., Cat. 44, 1884.
 French, But. 221, 1885.*
 Scud., But. 1, 241, pl. 16, f. 7, 1889.*

herse Fab., Ent. Syst. iii, 1, 229, 1793.
 Dbl.-Hew., Gen. Diur. Lep. 2, 392, 1850-52.

Scud., Syst. Rev. Am. But. 9, 1872.
 Riley, Trans. St. Louis Acad. Sci. 3, 198, 1873.

Riley, 6th Ent. Rep. State of Mo. 140, f. 41, 42, 1874.
 Scud., Buff. Bull. 2, 248, 1875.

Var. proserpina Scud., Proc. Bost. Soc. Nat. Hist. 11, 401, 1868.

Scud., Trans. Chicago Acad. Nat. Sci. 1, 332, 1869.

Edw., But. N. Am. 2, pl. 2, *Apatura*, f. 5, 6, 1876.

Var. ocellata Edw., But. N. Am. 2, pl. 2 of *Apatura*, 1876.

Aber. nig Streck., Cat. 146, 1878.

Hab.—N. Y. to Gulf Mex., Miss. Valley, Kans., Mich.

174. **Flora** Edw., But. 2 (in *Clyton*), 1876.

Streck., Cat. 148, 1878 (var. *flora*).

Edw., Can. Ent. 13, 81, 1881.*

French, But. 221, 1885.*

Edw., But. 3, pl. 1 *Apatura*, 1891.

Hab.—Fla., Tex.

175. **Cocles** Lint., Pap. 4, 141, 1884.

Edw., Cat. 44, 1884.

Hab.—Rio Grande, Tex.

ANÆA Hübner.

176. **Andria** Scud., Buff. Bull. 2, 248, 1875.

Riley, Am. Ent. 121, f. 81-83, 1870 (*glycerium*).

Riley, 2d Mo. Ent. Rep. 125, 1870.* (*glycerium*).

Edw., But. 1, 137, pl. 46, 1871 (*glycerium*).

Streck., Cat. 147, 1878 (*troglogyta*).

Edw., Cat. 45, 1884 (*troglogyta*).

Neum., Ent. News 2, 175, 1891.

Hab.—West. St., from Ill. to Texas; Neb.

177. **Portia** Fab., Syst. Ent. 507, 268, 1775.

Godt., Enc. Meth. 9, 364, 50, 1823.

Skinner, Ent. News 8, 230, 1897 (as *troglogyta*).

Schaus, Ent. News 9, 96, 1898.

Hab.—Antilles; Miami, Fla. (Slosson and Schaus).

178. **Morrisonii** Edw., Pap. 3, 8, 1883.

Edw., Cat. 45, 1884.

Hab.—Mt. Graham, Ariz.; Mex.

SATYRINÆ.

DEBIS Westwood.

179. **Portlandia** Fab., Sp. Ins. 2, 82, 1781.

Fab., Ent. 3, Syst. i, 103, 1793.

Herbst, Natursyst. Ins. Schmett. 8, 285, 1796.

Bd.-Lec., 226, pl. 58, 1833.

Dbl.-Hew., Gen. Diur. Lep. 2, 360, 1850-52.

Butl., Cat. Satgr. B. M. 114, 1868.

Kirby, Cat. 55, 1871.

Scud., Syst. Rev. Am. But. 5, 1872.

- Scud., Buff. Bull. 2, 241, 1875.
 Edw., Can. Ent. 14, 84, 1882.*
 Fern., But. Me. 70, 1884.*
 Edw., Cat. 45, 1884.
 French, But. 229, f. 70, 1885.*
 Mayn., But. 3, pl. 1, f. 3, 3a, 1886.
 Edw., But. 3, pl. 1, *Debis*, 1888.
 Scud., But. 1, 180, pl. 1, f. 3, 1888.*
- andromacha* Hüb., Samml. Ex. Schmiett. 1, 1806-16.
 Say, Am. Ent. 2, t. 36, 1825.
 Brown, Const. Mis. But. 1, 195, t. 44, 1832.
 Gosse, Can. Nat. 246, 1840.
 Morris, Syn. 78, 1862.
- Hab.*—Me. to Rocky Mts. and to Gulf Mex., Br. Am. to Lat. 50°.
180. **Creola** Skinner, Ent. News 8, 236, 1897.
Ab. (under *portlandia*) Streck., Cat. 148, 1878.
Hab.—La., Texas.
- NEONYMPHA** Westwood.
181. **Canthus** Bd.-Lec., pl. 60, 1833.
 Morr., 74, 1862.
 Gosse, Newm. Ent. 138, 1841.
 Kirby, Cat. 55, 1871.
 Streck., Cat. 159, 1878.
 Edw., Can. Ent. 15, 64, 1883.*
 Fern., But. Me. 68, 1884.*
 Edw., Cat. 45, 1884.
 Edw., Can. Ent. 17, 112, 1885.*
 French, But. 232, 1885.*
 Mayn., But. 5, pl. 1, f. 6, 6a, 1886.
 Edw., But. 3, pl. 1, *Satyrodes*, 1890.*
- boisduvalli* Harr., 305, f. 128, 1862.
- eurydice* Scud. (nec. Linn.), Syst. Rev. N. Am. But. 6, 1872.
 Scud., Buff. 2, 242, 1875
- Hab.*—North. States, Ont., Queb., Col., S. Car.
182. **Gemma** Hüb., Zutr. Ex. Schmiett. 1, f. 7, 8, 1818.
 Hüb., Verz. Bek. Schmiett. 65, 1816.
- Bd.-Lec., pl. 62, 1833.*
 Dbl.-Hew., Gen. Diur. Lep. 2, 375, 1850-52.
 Morr., 73, 1862.
 Butl., Proc. Zool. Soc. Lond. 500, 1836.
 Scud., Buff. Bull. 2, 244, 1875.
 Streck., Cat. 150, 1878.
 Edw., Can. Ent. 11, 31, 1879.*
 Edw., Cat. 45, 1884.
 French, But. 235, 1885.*
 Edw., But. 3, pl. 1, *Neon*, 1887.*
 Scud., But. 3, 1783, 1889.* (as *cornelius*).
- cornelius* Godt., Enc. Meth. 9, 493, 1823.
 Dbl.-Hew., Gen. Diur. Lep. 2, 438, 1850-52.
 Kirby, Cat. 55, 1871.
- Hab.*—W. Va. to Gulf Mex.; Mex., Cent. Am.
183. **Henshawii** Edw., Tr. A. E. Soc. 5, 205, 1876.
 Edw., l. c. 9, 7, 1881.
 Streck., Cat. 151, 1878.
 Edw., Cat. 45, 1884.
 Edw., But. 3, pl. 1, *Neon*, 1887.*
Hab.—Ariz., So. Col., N. Mex., Mex.
184. **Phocion** Fab., Sp. Ins. 2, 138, 1781.
 Fab., Mant. Ins. 2, 92, 1787.
 Fab., Ent. Syst. 3, 1, 218, 1793.
 Herbst, Natursyst. Ins. Schmiett. 147, 1796.
 Dbl.-Hew., Gen. Diur. Lep. 2, 375, 1850-1852.
 Kirby, Cat. 55, 1871.
 Scud., Syst. Rev. Am. But. 7, 1872.
 Scud., Buff. Bull. 2, 244, 1875.
 Streck., Cat. 149, 1878.
 Scud., But. 1, 203, pl. 14, f. 7, 1889.*
- areolatus* Abb.-S., Ins. Ga. 1, 25, t. 13, 1797.
 Godt., Enc. Meth. 9, 494, 1823.
 Bd.-Lec., Lep. Am. Sept. t. 63, 1833.
 Dbl.-Hew., Gen. Diur. Lep. 2, 375, 1850-52.
 Morris, Syn. 74, 1-62.
 Edw., Can. Ent. 14, 163, 1882.*
 Edw., Cat. 45, 1884.

- French, But. 237, 1885.*
 Edw., But. 3, pl. 2, *Neon.* 1888.*
 Weed, Psyche 7, 130, 1894.
- areolata* Butl., Proc. Zool. Soc. Lond. 498, 1866.
- Oreas fimbriata helcita*, Hüb., Samm. Ex. Schmett. 1, 1806-16.
 Hüb., Verk. Bek. Schmett. 65, 1816.
- Hab.*—N. J. to Gulf Mex. and Texas.
185. **Eurytus** Fab., Syst. Ent. 487, 1775.
 Fab., Sp. Ins. 2, 65, 1781.
 Fab., Mant. Ins. 2, 32, 1787.
 Butl., Proc. Zool. Lond. 465, 1866.
 Kirby, Cat. 48, 1871.
 Scud., Syst. Rev. Am. But. 7, 1872.
 Scud., Buff. Bull. 2, 245, 1875.
 Streck., Cat. 149, 1878.
- eurytris* Fab., Ent. Syst. 3, 157, 1793.
 Herbst, Natursyst. Ins. Schmett. 8, 96, t. 196, 1796.
 Dbl.-Hew., Gen. Diur. Lep. 2, 375, 1850-1852.
 Chenu, Pap. Diur. 281, 1851-53.
 Harris, Ins. Inj. Veg., Flint's Ed. 306, f. 129, 1862.
 Pack., Guide 264, 1869.
 Edw., Can. Ent. 10, 125, 1878.*
 Edw., Cat. 46, 1884.
 Fern., But. Me. 66, 1884.*
 French, But. 238, 1885.*
 Mayn., But. N. Eng. 6, pl. 2, f. 7, 7a, 1886.
 Scud., But. 1, 214, pl. 1, f. 8, 1889.*
- eurythris* Godt., Enc. Meth. 9, 494, 1823.
 Bdl.-Lec., Lep. Am. Sept. t. 61, 1833.
 Morris, Syn. 73, 1862.
 Saund., Can. Ent. 2, 139, 1870.
- cymela* Cram., 2, t. 132, 1799.
- cymelia* Hüb., Verz. Bek. Schmett. 54, 1816.
- Hab.*—Canada, U. S. from Atlantic to Kans., Neb. and Texas.
186. **Mitchellii** French, Can. Ent. 21, 25, 1889.
 Scud., But. 3, 1785, 1889.
- Ent. News, 3, pl. 2, f. 12, 1892.
 Wolcott, Can. Ent. 25, 102, 1893.
 French, But. 391, 1896.
- Hab.*—Cass Co., Mich.; Grand Rapids, Mich.; Dover, N. J.
187. **Sosybins** Fab., Ent. Syst. 3, 1, 219, 1793.
 Herbst, Natursyst. Ins. Schmett. 8, 148, 1796.
 Godt., Enc. Meth. 9, 495, 1823.
 Bdl.-Lec., Lep. Am. Sept. t. 63, 1833.
 Dbl.-Hew., Gen. Diur. Lep. 2, 375, 1850-52.
 Morris, Syn. 74, 1862.
 Butl., Proc. Zool. Soc. Lond. 474, 1866.
 Kirby, Cat. 49, 1871.
 Scud., Buff. Bull. 2, 245, 1875.
 Edw., Can. 9, 229, 1877.*
 Streck., Cat. 149, 1878.
 Edw., Cat. 46, 1884.
 French, 240, 1885.*
 Scud., But. 3, 1786, 1889.*
- Camerta* Cram., Pap. Ex. 6, t. 293, f. 1782.
 Dbl.-Hew., Gen. Diur. Lep. 2, 375, 1850-1852.
 Kirby, Cat. 48, 1871.
 Biol. Cent.-Am. 1, 86, 1850.
- camertus* Herbst, Natursyst. Ins. Schmett. 8, 91, t. 195, 1796.
- Hab.*—N. J. to Tex., Miss. Valley, Mex., Cent. Am., South Am.
188. **Rubricata** Edw., Tr. A. E. Soc. 3, 212, 1891.
 Scud., Buff. Bull. 2, 245, 1875.
 Streck., Cat. 149, 1878.
 Edw., Cat. 46, 1884.
 Biol. Cent.-Am. 1, 82, 1879-1886.
- Hab.*—Texas, Ariz., Mex., Cent. Am.
- CENONYMPHA** Westwood.
189. **California** Dbl.-Hew., Gen. Diur. Lep. 2, 398, t. 67, 1850-52.
 Kirby, Cat. 99, 1871.
 Scud., Buff. Bull. 2, 244, 1875.
 Streck., Cat. 159, 1878.
 Edw., Cat. 46, 1884.

- Edw., Can. Ent. 18, 18, 1886.*
 Edw., But. 3, pl. 1, *Cæn.* 1887.*
 Lambert, Ent. News 6, 138, 1895.*
- californius* Bdl., Ann. Soc. Ent. Fr. 2me ser. x, 309, 1852.
- galactina* Morris, Syn. 80, 1862.
 Behr, Proc. Cal. Acad. Nat. Sci. 3, 164, 1864.
- Var. galactus** Bdl., Ann. Soc. Ent. Fr. 2me ser. x, 309, 1852.
 Kirby, Cat. 99, 1871.
 Streck., Cat. 159, 1878.
 Edw., Cat. 46, 1884.
 Edw., But. 3, pl. 1, *Cæn.* 1897.*
- Var. ceres** Butl., Ent. Mo. Mag. 3, 78, 1866.
 Kirby, Cat. 99, 1871.
 Streck., Cat. 159, 1878.
 Edw., Cat. 46, 1884.
- Var. eryngii** H. Edw., Proc. Cal. Acad. Nat. Sci. 6, 1877.
 Streck., Cat. 160, 1878.
 Edw., Cat. 46, 1884.
- Var. pulla** Hy. Edw., Pap. 1, 51, 1881.
 Edw., Cat. 46, 1884.
 Edw., But. 3, pl. 1, *Cæn.* 1897.*
- Hab.*—Cala., Mont., Nev., Oreg., Wash., Vanc.
190. **Elko** Edw., Can. Ent. 13, 57, 1880.
 Edw., Cat. 46, 1884.
Hab.—Elko, Nev.: Spokane Falls, Wash.
191. **Typhon** var. *laidon* Borkh., Eur. Schmett. 1, 91, 29, t. 1, f. 5, 6, 1788.
 Bucknell, Ent. Rec. 7, 100, 1895.
 Eucknell, l. c. 9, 99, 1897.
- typhon* var. *h.* Kirby, Cat. 100, 1871.
- inornata* Edw., Proc. Acad. Nat. Sci. Phil. 163, 1861.
 Morris, Syn. 328, 1862.
 Scud., Buff. Bull. 2, 244, 1875.
 Streck., Cat. 160, 1878.
 Edw., Cat. 46, 1884.
 Scud., But. 3, 1782, 1889.
- Hab.*—Europe; Mont., Minn., Br. Am., Newfoundland.
192. **Ochracea** Edw., Proc. Acad. Nat. Sci. Phil. 163, 1861.
 Morr., 328, 1862.
 Reak., Proc. Ent. Soc. Phil. 6, 145, 1866.
 Kirby, Cat. 100, 1871.
 Mead, Wheeler's Rep. 5, 772, 1875.
 Scud., Buff. Bull. 2, 244, 1875.
 Streck., Cat. 160, 1878.
 Edw., Cat. 46, 1884.
- Hab.*—Mont. to Ariz.; Kans., Br. Am.
193. **Ampelos** Edw., Tr. A. E. Soc. 3, 213, 1871.
 Scud., Buff. Bull. 2, 244, 1875.
 Streck., Cat. 160, 1878.
 Edw., Cat. 46, 1884.
 Edw., Can. Ent. 18, 18, 1886.*
 Edw., l. c. 19, 41, 1887.*
- Hab.*—Oreg., Wash., Nev., Mont., Vanc. Isld.
194. **Kodiak** Edw., Trans. Am. Ent. Soc. 2, 375, 1869.
 Scud., Buff. Bull. 2, 244, 1875.
 Streck., Cat. 160, 1878.
 Edw., Cat. 46, 1884.
- kodiak* Kirby, Cat. 100, 1871.
- Hab.*—Kodiak, Alaska.
195. **Brenda** Edw., Trans. Am. Ent. Soc. 2, 375, 1869.
 Kirby, Cat. 100, 1871.
 Scud., Buff. Bull. 2, 243, 1875.
 Streck., Cat. 160, 1878.
 Edw., Cat. 46, 1884.
- Hab.*—Los Angeles, Cala.
196. **Pamphilus** Linn., Syst. Nat. Ed. x, 472, 1758.
 Linn., Syst. Nat. Ed. xii, 791, 1767.
 Linn., Faun. Suec. 273, 1761.
 Fab., Syst. Ent. 529, 1775.
 Fab., Sp. Ins. 2, 66, 1781.
 Fab., Ent. Syst. 3, 1, 221, 1793.
 Esp., Schmett. 1, 1, t. 21, 1777, t. 78, f. 4, var. 1782.
 Bergs. Nom. t. 88, 1799.

- Herbst, *Natursyst. Ins. Schmett.* 8, 40, t. 186, f. 7, 8, t. 187, f. 1, 2, f. 3, 4, ab. 1796.
- Ochs., *Schmett. Eur.* 1, 1, 305, 1807.
- Godt., *Enc. Meth.* 9, 549, 1823.
- Duncan, *Nat. Lib. Ent.* 3, 207, t. 26, 1835.
- Kirby, *Cat.* 99, 1871.
- Stgr., *Cat.* 32, 1871.
- Streck., *Cat.* 160, 1878.
- menalcas* Poda, *Mus. Graec.* 78, 1761.
- Scop., *Ent. Carn.* 458, 1763.
- nephele* Hufn., *Berl. Mag.* 2, 78, 1766.
- Brk., *Nat. Schmett.* 1, 87, 1788.
- Hüb., *Eur. Schmett.* 1, f. 237-239, 1797.
- gardettu* DeLoche, *Mem. Acc. For.* 6, 2, 146, t. 7, 1801.
- pamphiloides* Reak., *Proc. Ent. Soc. Phil.* 6, 146, 1866.
- Butl., *Cat. Sat. B. M.* 44, 1868.
- Scud., *Buff. Bull.* 243, 1875.
- Kirby, *Cat.* 99, 1871.
- Edw., *Cat.* 46, 1884.
- Hab.*—Europe; Siberia; California.
197. **Haydenii** Edw., *Rep. Hayden Exp.* 1872.
- Edw., *Trans. Am. Ent. Soc.* 5, 19, 1874.
- Scud., *Buff. Bull.* 2, 243, 1875.
- Streck., *Cat.* 151, 1878.
- Edw., *Cat.* 47, 1884.
- Edw., *But.* 3, pl. 1, *Erebia*, f. 5, 6, 1888.
- Edw., *Can. Ent.* 23, 32, 1891 (♀).
- Skinner, *Can. Ent.* 29, 156, 1897 (♀).
- Hab.*—Mont., Idaho, Colo., Wyo.
- EREBIA** Dalman.
198. **Fasciata** Butl., *Cat. Satyr. Br. Mus.* 92, pl. 2, f. 8, 1868.
- Kirby, *Cat.* 53, 1871.
- Scud., *Buff. Bull.* 2, 243, 1875.
- Streck., *Cat.* 152, 1878.
- Edw., *Cat.* 47, 1884.
- Edw., *But.* 3, pl. 2, *Erebia*, 1889.
- Hab.*—Alaska; Boreal Am.
199. **Discoidalis** Kirby, *Faun. Bor. Am.* 4, 298, pl. 3, f. 2, 3, 1837.
- Hew., *Gen. Diur. Lep.* 2, 380, 1850-52.
- Morr., 75, 1862.
- Kirby, *Cat.* 67, 1871.
- Stgr., *Cat.* 26, 1871.
- Scud., *Buff. Bull.* 2, 243, 1875.
- Streck., *Cat.* 152, 1878.
- Edw., *Cat.* 47, 1884.
- Edw., *But.* 3, pl. 2, *Erebia*, 1889.
- Hab.*—Boreal Am.
- (*vesagus*, inserted here in other lists, is a South American species; see Streck. *Ent. News* 3, 256, 1892.)
200. **Rossii** Curt., *App. Ross. Exp.* 67, pl. A. f. 7, 1835.
- Dbl.-Hew., *Gen.* 2, 380, 1850-52.
- Kirby, *Cat.* 67, 1871.
- Scud., *Buff. Bull.* 2, 243, 1875.
- Streck., *Cat.* 152, 1878.
- Edw., *Cat.* 47, 1884.
- Hab.*—Boreal Am.
201. **Disa** var. *mancinus* Dbl.-Hew., *Gen. Di. Lep.* 380, pl. 54, 1851.
- Reak., *Pr. Ent. Soc. Phil.* 6, 143, 1866.
- Butl., *Cat. Sat. B. M.* 1, 89, 1868.
- Kirby, *Cat.* 67, 1871.
- Scud., *Buff. Bull.* 2, 243, 1875.
- Streck., *Cat.* 152, 1878.
- Edw., *Cat.* 47, 1884.
- Hab.*—Alaska; Rocky Mts., Br. Am.
202. **Vidleri** Elwes, *Trans. Ent. Soc. Lond.* 195, 1898.
- Hab.*—Seton Lake near Lilloet on the Fraser River, Brit. Col.
203. **Tyndarus** var. *callias* Edw., *Tr. A. E. Soc.* 3, 274, 1871.
- Scud., *Buff. Bull.* 2, 253, 1875.
- Mead, *Wheeler's Rep.* 5, 775, 1875.
- Streck., *Cat.* 151, 1878.
- Edw., *Cat.* 47, 1884.
- Mead, *Rep. Wheeler Exp.* 5, 775, 1875.
- Hab.*—Col., N. Mex. (*tyndarus* in Switzerland, Hungary, Italy, France).

204. **Epipsodea** Butl., Cat. *Satyr.* Br.

Mus. 80, pl. 2, 1868.

Kirby, Cat. 65, 1871.

Scud., Buff. Bull. 243, 1875.

Mead, Wheeler's Rep. 5, 775, 1875.

Streck., Cat. 151, 1878.

Edw., Cat. 47, 1884.

Edw., But. 3, pl. 3, *Erebia*. 1890.

Cockerell, Ent. News 1, 58, 1890.

Lyman, Can. Ent. 28, 274, 1896.*

rhodia Edw., Tr. A. E. Soc. 3, 273, 1871.**Var. brucei** Elwes, Trans. Ent. Soc.

Lond. 326, 1889.

sine-ocellata Skinner, Can. Ent. 21, 21, 1889.*Hab.*—Col., N. Mex., Mont., Wash. Br. Am.; St. Michaels, Alaska.205. **Sofia** Str., Br. Bull. 3, 35, 1880.

Edw., Cat. 47, 1884.

ethela Edw., Can. Ent. 23, 31, 1891.

Streck., Ent. News 3, 256, 1892.

Hab.—Fort Churchill, Br. Am.; Col., Wyo.206. **Magdalena** Str., Br. Bull. 3, 35, 1880.

Edw., Cat. 47, 1884.

Edw., But. 3, pl. 1, *Erebia*, 1888.**Hab.*—Park County, Col., by Bruce, alt. 10,000 feet.**GEIROCHEILUS** Butler.207. **Tritonia** Edw., Tr. A. E. Soc. 5, 18, 1874.

Scud., Buff. Bull. 2, 241, 1875.

Streck., Cat. 148, 1878.

Edw., Cat. 47, 1884.

Edw., But. 3, pl. 1, *Geir*. 1889.*Hab.*—So. Ariz.**NEOMINOIS** Scud.208. **Ridingsii** Edw., Pr. E. Soc. Phil. 4, 201, 1865.

Reak., Proc. Ent. Soc. Phil. 6, 145, 1866.

Kirby, Cat. 82, 1871.

Str., Lep. pl. 4, f. 6, ♀, 1873.

Mead, Rep. Wheeler Exp. 5, 774, 1875.

Scud., Buff. Bull. 2, 241, 1875.

Streck., Cat. 156, 1878.

Edw., Cat. 47, 1884.

Edw., But. 3, pl. 1, *Neo*. 1893.*stretchii* Edw. (*Chion.*), Tr. A. E. Soc. 3, 192, 1870.*Hab.*—Col., Nev., Mont., Utah, Wyo.209. **Dionysius** Scud., Hayden Bull. 4, 254, 1878.

Edw., Cat. 48, 1884.

Aaron, Pap. 4, 131, 1885.

ashtaroth Str., Lep. 14, 129, 1878.

Streck., Cat. 191, 1878.

Hab.—Utah. Ariz., Col.**SATYRUS** Westwood.210. **Pegala** Fab., Syst. Ent. 494, 1775.

Fab., Sp. Ins. 2, 76, 1781.

Fab., Mant. Ins. 2, 38, 1787.

Fab., Ent. Syst. 3, 1, 230, 1793.

Godt., Enc. Meth. 9, 524, 1823.

Dhl.-Hew., Gen. Diur. Lep. 2, 398, 1850-52.

Morris, Syn. 77, 1862.

Edw., Proc. Ent. Soc. Phil. 195, 1866.

Kirby, Cat. 81, 1871.

Scud., Buff. Bull. 241, 1875.

Streck., Cat. 158, 1878.

Edw., Cat. 48, 1884.

French, But. 242, 1885.*

Scud., But. 3, 1779, 1889.

Edw., But. 3, pl. 1, *Sat*. 1890.*pegula* Herbst, Natursyst. Ins. Schmett. 8, 298, 1796.*alope* (♀) Bdl.-Lec., Lep. Am. Sept. t. 59, 1833.*Hab.*—Gulf States.211. **Alope** Fab., Ent. 3, 1, 229, 1793.

Herbst, Natursyst. 8, 296, 1796.

Godt., Enc. Meth. 9, 524, 1823.

Bdl.-Lec., Lep. Am. Sept. 228, 1833.

Harris, Hitch, Rep. Geo. Min. etc., Mass. Ed. 1, 590, 1833.

- Dbl., List Lep. B. M. 1, 136, 1844.
 Dbl.-Hew., Lep. 2, 392, 1850-52.
 Emm., Agr. Nat. Hist. N. Y. 213, t. 33, 1854.
 Morris, Syn. 76, 1862.
 Harris, Ins. Inj. Veg., Flint's Ed. 305, f. 127, 1862.
 Reak., Proc. Ent. Soc. Phil. 6, 145, 1866.
 Edw., Proc. Ent. Soc. Phil. 6, 196, 1866.
 Kirby, Cat. 81, 1871.
 Scud., Syst. Rev. Am. But. 5, 1872.
 Scud., Buff. Bull. 2, 242, 1875.
 Streck., Cat. 157, 1875.
 Edw., Cat. 48, 1884.
 French, But. 243, f. 71, 1885.*
 Scud., But. 1, 163, pl. 1, f. 2, 4, 6, 1889.*
 Edw., But. 3, pl. 1, *Sat.* 1890 (var.).
 Mayn., But. 4, pl. 1, f. 4, 4a, 1886.
- Hab.*—N. Y. to N. C.; N. Bruns.
- Var. *texana*** Edw., Can. Ent. 12, 23, 1880.
 Edw., But. 2, pl. 2, *Satyr.* 1882.
 Edw., Cat. 48, 1884.
- Hab.*—Texas.
- Var. *maritima*** Edw., Can. Ent. 12, 23, 1880.
 Edw., But. 2, pl. 2, *Satyr.* 1882.
 Edw., Cat. 48, 1884.
- Hab.*—Martha's Vineyard, L. I., east N. J., Grand Manan Island, N. B.
- Var. *nephele*** Kirby, Faun. Bor. Amer. 4, 297, 1837.
 Dbl.-Hew., Gen. Linn. Lep. 2, 380, 1850-52.
 Emm., Agr. Hist. N. Y. 213, t. 33, 1854.
 Morris, Syn. 76, 1862.
 Harris, Ins. Inj. Veg., Flint's Ed. 306, f. 130, 1862.
 Edw., Proc. Ent. Soc. Phil. 195, 1866.
 Kirby, Cat. 81, 1871.
 Scud., Syst. Rev. Am. But. 6, 1872.
 Scud., Buff. Bull. 2, 242, 1875.
 Streck., Cat. 157, 1875.
 Edw., Cat. 48, 1884.
 Mayn., But. 5, pl. 1, f. 5, 5a, 1886.
 Scud., But. 1, 171, pl. 11, f. 1, 1889.*
- olympus* Edw., Can. Ent. 12, 31, 1880.
 Edw., But. 2, pl. 3 of *Satyr.* 1882.*
 Edw., Cat. 48, 1884.
- ariane* Bdl., Ann. Soc. Ent. Fr. 2me ser. x, 307, 1852.
 Morris, Syn. 77, 1862.
 Reak., Proc. Ent. Soc. Phil. 6, 145, 1866.
 Kirby, Cat. 81, 1871.
 Scud., Buff. Bull. 2, 242, 1875.
 Streck., Cat. 157, 1878 (var. *ariane*).
 Edw., Cat. 19, 1884 (species *ariane*).
 Smith, Br. Bull. 6, 130, 1884.
- Hab.*—Ont., Queb., Brit. Am., N. E., N. Y., Ill. to Cal. and Oreg.
- Var. *boopis*** Behr, Proc. Cal. Acad. Nat. Sci. 3, 164, 1864.
 Edw., Proc. Ent. Soc. Phil. 6, 196, 1866.
 Kirby, Cat. 81, 1871.
 Scud., Buff. Bull. 2, 242, 1875.
 Streck., Cat. 157, 1878.
 Edw., Cat. 48, 1884.
- Hab.*—Cal. to Wash.
- Sub. var. *incana*** Edw., Can. Ent. 12, 91, 1880.
- Hab.*—Wash.
- Var. *baroni*** Edw., Can. Ent. 12, 91, 1880.
 Edw., Cat. 49, 1884 (as species *baroni*).
 Smith, Br. Bull. 6, 133, 1884.
- Hab.*—North. Cal.
212. **Wheeleri** Edw., Tr. Am. Ent. Soc. 4, 343, 1873.
 Mead, Wheeler's Rep. 5, 773, t. 39, 1875.
 Scud., Buff. Bull. 2, 242, 1875.
 Edw., But. 2, pl. 1 *Satyr.* 1877.
 Streck., Cat. 158, 1878.
 Edw., Cat. 49, 1884.
- hoffmani* Streck., Lep. Rhop.-Het. 31, t. 4, ♀, 66, t. 8 ♂, 1873.
- Hab.*—Apache, Ariz.; Owen's Lake, So. Cal.; So. Utah.
213. **Gabbii** Edw., Trans. Am. Ent. Soc. 3, 192, 1870.
 Kirby, Cat. 644, 1871.

Scud., Buff. Bull. 2, 242, 1875.
 Streck., Cat. 157, 1878 (var. *gabbii*).
 Edw., Cat. 49, 1884.
 Smith, Br. Bull. 6, 131, 1884.

Hab.—Oregon, Utah.

214. **Meadii** Edw., Trans. Am. Ent. Soc.
 4, 70, 1872.

Mead, Wheeler's Rep. 5, 774, 1875.
 Scud., Buff. Bull. 242, 1875.
 Streck., Cat. 156, 1878.
 Edw., Can. Ent. 12, 94, 1880.
 Edw., Cat. 49, 1884.
 Edw., But. 3, pl. 2, *Sat.* 1891.*

Hab.—Col., Mont., Utah, Ariz.

215. **Paulus** Edw., Can. Ent. 11, 50, 1879.

Edw., Can. Ent. 12, 54, 1880.
 Smith, Br. Bull. 6, 132, 1884.
 Edw., Cat. 49, 1884.

Hab.—Cala., Nev.

216. **Charon** Trans. Am. Ent. Soc. 4, 69,
 1872.

Mead, Wheeler's Rep. 5, 773, 1875.*
 Streck., Cat. 156, 1878.
 Edw., Cat. 49, 1884.
 Edw., But. pl. 3 *Sat.* 1895.*

Var. *silvestris* Edw., Proc. Acad. Nat.
 Sci. Phil. 1861.

Behr, Proc. Cal. Acad. Nat. Sci. 3, 163,
 1864.
 Reak., Proc. Ent. Soc. Phil. 6, 145, 1866.
 Kirby, Cat. 81, 1871.
 Scud., Buff. Bull. 2, 242, 1875.
 Streck., Cat. 156, 1878.
 Edw., Cat. 49, 1884.
 Edw., But. 3, pl. 3, *Sat.* 1895.

phocus Edw., Trans. Am. Ent. Soc. 5, 14,
 1875.

Hab.—N. W. Terr.; Br. Col. to Cala.; N.
 Mex. to Mont.

217. **Oetus** Bd., Lep. de la Cala. 63, 18692.

Scud., Buff. Bull. 242, 1875.
 Streck., Cat. 156, 1878.
 Edw., Cat. 49, 1884.

silvestris Kirby, Cat. 81, 1871.

Edw., Can. Ent. 12, 93, 1880.

Hab.—North. Cala.

218. **Sthenele** Bdl., Ann. Soc. Ent. Fr.
 2me ser. x, 308, 1852.

Morris, Syn. 77, 1862.

Behr, Proc. Cal. Acad. Sci. 3, 161, 1864.

Kirby, Cat. 81, 1871.

Streck., Lep. Rhop.-Het. 30. t. 4, 1873.

Scud., Buff. Bull. 2, 242, 1875.

Streck., Cat. 156, 1878.

Edw., Can. Ent. 12, 92, 1880.

Edw., Cat. 49, 1884.

Smith, Br. Bull. 6, 132, 1884.

Edw., Can. Ent. 18, 88, 1886.*

Hab.—Cala.

CHIONOBAS Boisduval.

219. **Macounii** Edw., Can. Ent. 17, 74,
 1885.

Fletcher, Ent. Am. 4, 159, 1888.*

Fletcher, 19th Ann. Rep. Ent. Soc. Ont.
 85, 1888.

Edw., But. 3, pl. 10, *Chion.* 1893.

Scud., But. 3, 1775, 1889.*

Hab.—Nepigon and Morley, Alberta, Can.

220. **Nevadensis** Felder, Reis. Nov.
 Lep. 3, 89, pl. 69, f. 4, 5, 1867.

Behr, Proc. Cal. Acad. Nat. Sci. 3, 163,
 1864.

Butl., Cat. *Satyr.* B. M. 161, 1868.

Kirby, Cat. 69, 1871.

Scud., Buff. Bull. 2, 240, 1875.

Streck., Cat. 154, 1878.

Edw., Cat. 50, 1884.

Elwes-Edw., Tr. Am. Ent. Soc. Lond.
 457, 1893.

gigas Butl., Cat. *Satyr.* B. M. 161, t. 2,
 1868.

Kirby, Cat. 69, 1871.

Edw., But. 2, t. 1, *Chion.* f. 5, 6, ♀,
 1874.

Edw., l. c. t. 2, *Chion.* f. 1, 2, ♂, 1875.

Scud., Buff. Bull. 2, 240, 1875.

Streck., Cat. 155, 1878.

Mosch., Stett. Ent. Zeit. 44, 155, 1883.

Edw., Cat. 50, 1884.

- Edw., But. 3, pl. 11, *Chion*. 1895.*
 Edw., l. c. pl. 12, 1897 (var.).
- californica* Bdl., Lep. Cal. 62, 1869.
 Kirby, Cat. 69, 1871.
 Edw., But. 2, t. 2, *Chion*. f. 3-6, 1875.
 Streck., Cat. 155, 1878.
 Edw., Cat. 50, 1884.
 Edw., But. 3, pl. 12, *Chion*. 1897.*
- iduna* Edw., But. 2, t. 1, *Chion*. f. 1-4, 1874.
 Scud., Buff. Bull. 2, 240, 1875.
 Streck., Cat. 155, 1878.
 Edw., Can. Ent. 11, 143, 1879.
 Edw., Cat. 50, 1884.
 Edw., But. 3, pl. 12, *Chion*. 1897.*
 Edw., But. Suppl. 1897.*
- Hab.*—Vanc. Is., Wash., Oreg., Cala.
221. **Chryxus** Dbl.-Hew., Gen. Diur. Lep. 2, 383, t. 64, 1851.
 Edw., Proc. Ent. Soc. Phil. 2, 82, 1863.
 Scud., l. c. 5, 5, 1865.
 Reak., l. c. 6, 145, 1866.
 Kirby, Cat. 69, 1871.
 Scud., Buff. Bull. 2, 240, 1875.
 Mead, Wheeler's Rep. 5, 777, 1875.
 Putnam, Proc. Davenport Acad. Nat. Sci. 1, 189, 1876.
 Streck., Cat. 154, 1878.
 Edw., Can. Ent. 14, 29, 1882.
 Edw., Cat. 50, 1884.
 Edw., But. 3, pl. 1 *Chion*. 1891.*
 Edw., l. c. pl. 2 *Chion*. and var. 1892.
- Hab.*—Utah, Col. to Br. Am., Rocky Mts.
- Var. calais** Scud., ♀, Pr. Ent. Soc. Phil. 5, 7, 1865.
 Streck., Cat. 154, 1878 (under *taygete*).
 Edw., Can. Ent. 15, 44, 1883.
 Edw., Cat. 50, 1884.
 Scud., But. 3, 1777, 1889.
 Edw., But. 3, pl. 2, *Chion*. 1892.
- Hab.*—Rupert House, Hudson's Bay: N. F'land.
222. **Norna** Thunb., Diss. Ins. Suec. 2, 36, t. 5, f. 11, 1791.
 Esp., Schmett. 1, 2, t. 108, f. 4, 1800.
- Hüb., Eur. Schmett. 1, f. 763-766, 1824-1826.
 Godt., Enc. Meth. 9, 518, 116, 1823.
 Moschl., Wien. Ent. Mon. 7, 189, n. 5, 1863.
 Kirby, Cat. 69, 1871.
 Edw., Can. Ent. 18, 16, 1886.
 Edw., But. pl. 8, *Chion*. 1894.
- Var. hilda** Quens. Act. Holm. 1791, 272, t. 9, f. 7, 8.
- Var. celæno** Hüb., Eur. Schmett. 1, f. 152, 153, 1793-94.
- Var. fulla** Eversm., Mosc. Bull. 1, 614, 1851.
 Herr.-Sch., Schmett. Eur. 1, f. 615, 616, 1851-56.
- bore* Hüb., Eur. Schmett. 1, f. 756 (1825?).
- Hab.*—Arctic regions—Europe and Am.
223. **Ivalda** Mead, Can. Ent. 10, 196, 1878.
 Edw., But. 2, pl. 4 of *Chion*. 1879.
 Edw., Cat. 50, 1884.
- Hab.*—Nev., east Cala.
224. **Alberta** Elwes, Tr. E. Soc. Lond. 467, 1893.
 Edw., But. 3, pl. 14, *Chion*. 1897.*
- Hab.*—Calgary, N. W. T.
225. **Varuna** Edw., Can. Ent. 14, 2, 1882.
 Edw., l. c. 14, 29, 1882.
 Edw., Cat. 50, 1884.
 Edw., But. 3, pl. 4, *Chion*. 1891.
 Edw., l. c. pl. 13, *Chion*. 1897.*
- Hab.*—Ariz., Dak., Calgary, Br. Am.
226. **Uhleri** Reak., Proc. Ent. Soc. Phil. 6, 143, 1866.
 Butl., Cat. *Satyr.* B. M. 163, 1868.
 Kirby, Cat. 69, 1871.
 Streck., Lep. Rhop.-Het. 28, t. 4, f. 5, 1873.
 Mead, Wheeler's Rep. 5, 776, 1875.
 Scud., Buff. Bull. 2, 240, 1875.
 Streck., Cat. 154, 1878.
 Edw., Cat. 50, 1884.

- Edw., But. 3, pl. 3, *Chion*. 1891.*
 Ckll., Can. Ent. 24, 101, 1892.
- Hab.*--Rocky Mts., Col., Mont.
227. **Tarpeia** Pall., Reis. 1, 18, 1771.
 Esp., Schmett. 1, 2, 190, t. 83, 1783.
 Brk., Schmett. 1, 101, 1788.
 Ochs., Schmett. 1, 1, 203, 1807.
 Hüb., Eur. Schmett. 1, f. 779 782, 1824-1826.
 Meigen, Eur. Schmett. 1, 128, t. 30, 1829.
 Dup., Lep. 1, 207, t. 31, 1832.
 Herr.-Sch., Schmett. Eur. 1, 67, f. 61-64, 1843 44.
 Frr., Neu. Beit. 5, t. 427, 1845.
 Mosch., Wien. Ent. Mon. 7, 184, 1863.
 Butl., Cat. *Satyr.* B. M. 161, 1868.
 Stgr., Cat. 27, 1871.
 Seud., Buff. Bull. 2, 239, 1875.
 Streck., Cat. 155, 1878.
 Edw., Can. Ent. 14, 120, 1882.
 Edw., Cat. 50, 1884.
 Lyman, Ent. News, 7, 172, 1896.
- tarpejus* Fab., Mant. Ins. 2, 32, 1787.
 Gmel., Syst. Nat. 1, 5, 2285, 498, 1788.
 Fab., Ent. Syst. 3, 1, 214, 1793.
 Herbst. Natursyst. Ins. Schmett. 8, 210, t. 213, 1796.
- tarpeius*, Godt., Enc. Meth. 9, 519, 1823.
- celimene* Cram., Pap. Ex. 4, t. 375, 1782.
 Kirby, Cat. 69, 1871.
- Hab.*—Europe, Arctic Am.
 (There is considerable doubt as to this species having been found in N. A.)
228. **Dauria** Streck., Can. Ent. 26, 225, 1894.
- Hab.*--Mt. Graham, Ariz.
229. **Taygete** Hüb., Samm. Ex. Schmett. 3, *Nymph.* 9, *Oread.* *D. nubilæ* 4, f. 1-4, 1816-24.
 Dbl.-Hew., Gen. Diur. Lep. 2, 383, 1850-52.
 Edw., Proc. Acad. Nat. Sci. Phil. 57, 1862.
- Mosch., Wien. Ent. Mon. 7, 213, 1863.
 Kirby, Cat. 70, 1871.
 Streck., Cat. 153, 1878.
 Edw., Cat. 50, 1884.
- bootes* Bdl., Icon. Hist. 191, t. 37, f. 4-6, 1832.
 Dup., Lep. 1, t. 32, f. 3-5, 1832.
 Ochs.-Treits., Schmett. 10, 1, 32, 1834.
 Bdl., Sp. Gen. 1, t. 13, f. 3, 1836.
 Hüb., Eur. Schmett. 1, f. 1025-1028, 1841.
 H.-S., Schmett. Eur. 1, 69, t. 80, f. 391, 392, 1843-50.
 Lederer, Vers. Zool. Bot. Ver. 1852.
 Walleng., Skand. Dagf. 46, 1853.
 Morris, Syn. 72, 1862.
 Mosch., Stet. Ent. Zeit. 124, 1870.
 Kirby, Cat. 70, 1871.
- Hab.*—Labrador, Alaska, Col. (?), Arctic Europe.
230. **Jutta** Hüb., Eur. Schmett. f. 614, 615, 1800-23.
 Bdl., Icones t. 38, f. 1-4, 1832.
 Dup., Lep. Sup. 1, t. 40, f. 3-5, 1832.
 Zett., Ins. Lap. 902, 1840.
 H.-S., Schmett. Eur. 1, f. 116 118, 1843.
 Dbl.-Hew., Gen. Diur. Lep. 2, 382, 1850-1852.
 Wallengr., Skand. Dagf. 46, 1853.
 Mosch., Wien. Ent. Mon. 7, 201, 1863.
 Seud., Proc. Ent. Soc. Phil. 5, 3, 1865.
 Pack., Guide 263, 1869.
 Mosch., Stet. Ent. Zeit. 122, 1870.
 Kirby, Cat. 68, 1871.
 Stgr., Cat. 1871.
 Seud., Buff. Bull. 2, 241, 1875.
 Streck., Cat. 152, 1878.
 Edw., Cat. 51, 1884.
 Fern., But. Me. 75, 1884.
 French, But. 248, 1885.*
 Mayn., But. 2, pl. 3, f. 2, 2a, 1886.
 Seud., But. 1, 149, pl. 14, f. 17, 1889.*
 Fyles, Can. Ent. 20, 31, 1888.*
 Fyles, l. c. 21, 12, 1889.*
 Edw., But. 3, pl. 5, *Chion*. 1892.*
- balder* Bdl., Icon. 1, 189, t. 39, f. 1-3, 1832.
 Bdl., Icon. du Reg. An. par. Guer. Ins. t. 80, f. 1, 1a, 1829 44.

- Dup., Lep. 1. t. 49, f. 4, 5, 1832.
 Bdl.-Lec., Lep. Am. Sept. 216, 1833.
 Zett., Ins. Lap. 902, 6. 1840.
 H.-S., Schmett. Eur. 1, f. 384-386, 1843.
 Morris, Syn. 71, 1862.
- norna* var. Ochs., Schmett. Eur. 1, 1, 202, 1807.
 Ochs., l. c. 4, 134, 1816.
 Ochs., l. c. 10, 31, 1834.
balderi Hüb., Zutr. f. 981, 982, 1837.
- Hab.*—Norway, Lapland, Sweden, N. Russia, Siberia, Me., Can., Br. Am., Lab.
231. **Semidea** Say, Am. Ent. 3, t. 50, 1828.
 Morris, Syn. 80, 351. 1862.
 Harris, Ins. Inj. Veg., Flint's Ed. 304, f. 126, 1862.
 Send. Bost. Jour. Nat. Hist. 7, 621, t. 14, f. 2-8, 1863.
 Scud., Proc. Ent. Soc. Phil. 5, 20, 1865.
 Pack., Guide 263, f. 190, 1869.
 Mosch., Stet. Ent. Zeit. 123, 1870.
 Stgr., Cat. 27, 1871.
 Kirby, Cat. 70, 1871.
 Scud., Buff. Bull. 2, 240, 1875.
 Mead, Wheeler's Rep. 5, 776, 1875.
 Streck., Cat. 153, 1878.
 Edw., Cat. 51, 1884.
 French, But. 249, f. 72, 1885.*
 Mayn., But. 1, pl. 1, f. 1, 1a, 1886.
 Scud., But. 1, 134, pl. 1, f. 9, 1889.*
 Edw., But. 3, pl. 9, *Chion*. 1894.
- Var. nigra** Edw., But. 3, pl. 9, *Chion*. 1894.*
- Hab.*—White Mts., N. H.; Col.
232. **Eno** Bd., Icones Hist. Lep. 1, 195, t. 39, f. 4-6.
 Dup., Hist. Lep. 1, t. 49, f. 1-3, 1832.
 Bdl.-Lec., Lep. Am. Sept. 220, 1833.
 H.-S., Schmett. Eur. 1, 71, f. 59, 60, f. 123, 124, 1843-56.
 Mosch., Wien. Ent. Mon. 7, 211, 1863.
 Edw., Bull. 15, U. S. Nat. Mus.
 Edw., But. 3, pl. 7, *Chion*. 1893.
 Edw., l. c. pl. 13, *Chion*. 1897.*
- Var. assimilis** Butl., Cat. *Satyr*. Brit. Mus. 163, pl. 2, f. 10, 1868.
 Edw., But. 3, pl. 7, *Chion*. 1892.
Hab.—Labrador; Col.
233. **Peartiae** Edw., But. 3, pl. 14, *Chion*. 1897.
Hab.—Winter Cove, Cambridge Bay, Victoria Land.
234. **Subhyalina** Curtis, App. Ross' 2nd Voy. 68, 1835.
 Kirby, Cat. 70, 1871.
 Edw., Cat. 1884.
 Elwes, Proc. Ent. Soc. Lond. 457, 1893.
- taygete* H.-S., Schmett. Eur. 1, 70, t. 24, f. 112-115, 1843.
 Lederer, Verz. Zool. Bot. Ver. 24, 1862.
- crambis* Frey., Neu. Beit. 5, t. 440, f. 3, 4, 1845.
 Dhl.-Hew., Gen. Diur. Lep. 2, 383, 1850-52.
 Mosch., Stet. Ent. Zeit. 123, 1870.
 Stgr., Cat. 27, 1871.
 Streck., Cat. 153, 1878.
 Edw., Cat. 51, 1884.
 Edw., But. pl. 3, *Chion*. 6, f. 1-4, 1892.
 Edw., l. c. pl. 7, *Chion*. 1892.*
 Edw., l. c. 1893.*
- also* Mosch., Wien. Ent. Monat. 7, 205, 1863.
- xeno* Scud., Proc. Ent. Soc. Phil. 5, 13, 1865.
- Hab.*—Arctic Am.; Labrador.
235. **Brucei** Edw., Can. Ent. 23, 33, 1891.
 Edw., But. 3, pl. 6, *Chion*. 1892.*
 Elwes, Proc. Ent. Soc. Lond. 457, 1893.
- Hab.*—Col.; Alberta.
236. **Beanii** Elwes, Proc. Ent. Soc. Lond. 476, 1893.
subhyalina Edw., But. 3, pl. 8, *Chion* 1894.
Hab.—Alberta; N. W. Terr.

LIBYTHEINÆ.

LIBYTHEA Fab.

237. **Bachmani** Kirtl., Sill. Jl. 2, 13, 336, 1852.

Morris, Syn. 63, 1862.

Saund., Can. Ent. 1, 25, f. 1, 1868.

Edw., But. 2, pl. 1 of *Liby*. 1874.*

Scud., Buff. Bull. 2, 269, 1875.

Streck., Cat. 105, 1878.

Scud., Can. Ent. 13, 226, 1881.*

Edw., Cat. 51, 1884.

French, But. 250, 1885.*

Mayn., But. 31, pl. 8, f. 36, 36a, 1886.

Scud., But. 1, 760, pl. 4, f. 4, 1889.*

Barber, Ent. News 6, 190, 1895.*

motya var. *a* Kirby, Cat. 283, 1871.

Hab.—Atl. States, Miss. Valley, Texas, Ariz., Ont.

238. **Carinenta** Cram., 2, 108, f. E, F, 1779.

Godt., Enc. Meth. 9, 170, 1819.

Mead, Wheeler's Rep. 5, 772, 1875.

Scud., Buff. Bull. 2, 269, 1875.

Streck., Cat. 105, 1878.

Biol. Cent.-Am. 1, 360, 1879.

Edw., Cat. 58, 1884.

Hab.—New Mex., Ariz., Mex., Cent. and South America.

Var. larvata Str., Lep. pt. 14, 1878.

Edw., Cat. 51, 1884 (syn. of *carinenta*).

Hab.—Texas.

ERYCINIDÆ.

ERYCININÆ.

LEMONIAS Westwood.

239. **Mormo** Feld., Wien. Ent. Monat. 3, 271, 1859.

Morr., 104, 1862.

Feld., Reise Nov. Lep. 2, 303, pl. 37, 1865.

Kirby, Cat. 324, 1871.

Scud., Buff. Bull. 103, 1876.

Streck., Cat. 104, 1878.

Edw., Cat. 51, 1884.

dumeti Behr., Pr. Cal. Ac. N. Sci. 3, 178, 1865.

Mead, Wheeler's Rep. 5, 786, 1875.

mormonia Bd., Lep. de la Cala. 52, 1869.

= Au. Soc. Calif. 1869.
Hab.—Cala., Utah, Ariz., New Mex.

240. **Duryi** Edw., Pap. 2, 47, 1882.
Edw., Cat. 52, 1884.

Hab.—New Mex.

241. **Cythera** Edw., Tr. Am. Ent. Soc. 4, 345, 1873.

Mead, Rep. Wheeler Exp. 5, 786, t. 36, 1875.

Scud., Buff. Bull. 3, 103, 1876.

Streck., Cat. 104, 1878 (under *mormo*).

Edw., Cat. 52, 1884.

Biol. Cent.-Am. 1, 467, 1879.

Hab.—Ariz., Mex.

242. **Virgulti** Behr., Pr. Cal. Ac. N. Sci. 3, 178, 1865.

Kirby, Cat. 324, 1871.

Scud., Buff. Bull. 3, 102, 1876.

Streck., Cat. 104, 1878.

Edw., Cat. 52, 1884.

Biol. Cent.-Am. 1, 303, 1879.

sonorensis Feld., Reise Nov. Lep. 2, 303, 1865.

Hab.—So. Cala., Mex.

243. **Nais** Edw. (*Chrysophanus*), Tr. A. E. Soc. 5, 291, 1876.

Edw., Trans. Am. Ent. Soc. 9, 7, 1882.

Edw., But. 2, pl. 1 of *Lemon*. 1883.

Edw., Cat. 52, 1884.

Biol. Cent.-Am. 1, 469, 1879.

Hab.—Ariz., New Mex., Col., Mex.

244. **Palmerii** Edw., Tr. Am. E. Soc. 3, 195, 1870.
 Edw., But. 2, pl. 1 of *Lemon*. 1883.
 Edw., Cat. 52, 1884.
 Biol. Cent.-Am. 1, 468, 1879.
Hab.—Utah, Ariz., New Mex., Mex.
245. **Zela** Butl., Ann. Mag. N. H. 4, 364, 1870.
 Butl., Lep. Ex. t. 14, f. 7. 1869-74.
 Biol. Cent.-Am. 1, 445, 1879.
- ares* Edw., Pap. 2, 136, 1882.
 Edw., Cat. 52, 1884.
- Var. cleis** Edw., Pap. 2, 137, 1882.
 Edw., Cat. 52, 1884.
- Hab.*—Ariz., Mex.
- CALEPHELIS** Grote and Robinson.
246. **Cænius** Linn., Syst. Nat. Ed. xii, 1, 2, 796, 1767.
 Grote and Rob., Trans. Am. Ent. Soc. 2, 310, 1869.
 Kirby, Cat. 319, 1871.
 Scud., Buff. Bull. 3, 102, 1876.
 Streck., Cat. 104, 1878.
 Edw., Cat. 52, 1884.
 French, But. 253, 1885.
- cerea* Hüb., Verz. Bek. Schmett. 18, 1816.
- virginiensis* Bdl., Griff. Cuv. An. King. 15, t. 58, 1832.
 Guer., Icon. Reg. An. Ins. 489, t. 81, 1844.
- pumila* Bdl.-Lec., Lep. Am. Sept. 131, t. 37, 1833.
 Morris, Syn. 104, 1862.
 Grote, Can. Ent. 5, 144, 1873.
cereus Bdl., List Lep. B. M. 2, 16, 1847.
Hab.—So. States; Va. to Texas.
247. **Borealis** Grote and Rob., Ann. N. Y. Lyc. Nat. Hist. 8, 351, 1866.
 Grote and Rob., Trans. Am. Ent. Soc. 2, 310, 1869.
 Kirby, Cat. 319, 1871.
 Grote, Can. Ent. 5, 144, 1873.
 Scud., Buff. Bull. 3, 102, 1876.
 Streck., Cat. 105, 1878.
 Edw., Cat. 52, 1884.
 French, But. 253, 1885.
 Scud., But. 2, 788, pl. 6, f. 2, 1889.
Hab.—N. Y. to Va.; Mich., Ill.
248. **Australis** Edw., Field and Forest 3, 87, 1877.
 Biol. Cent.-Am. 1, 430, 1879.
 Edw., Cat. 52, 1884.
guadeloupe Str., Lep. pt. 14, 1878.
 Streck., Cat. 187, 1878.
Hab.—So. Texas, Ariz., Mex.
249. **Nemesis** Edw., Tr. A. E. Soc. 3, 212, 1871.
 Edw., Cat. 52, 1884.
Hab.—So. Cala.

LYCÆNIDÆ.

LYCÆNINÆ.

- EUMÆUS** Hübner.
250. **Atala** Poey, Cent. Lep. Cuba t. 2, 1832.
 Guer., Icon. Reg. An. Ins. 489, 1844.
 Bdl.-Hew., Gen. Diur. Lep. t. 74, 1850-1852.
 Kirby, Cat. 426, 1871.
 Scud., Buff. Bull. 3, 103, 1876.
 Streck., Cat. 103, 1878.
 Edw., Cat. 53, 1884.
 French, But. 254, 1885.
- Send., Biol. Cent.-Am. 2, 5 and 110, 1887.
- tozea* Gray, Griff. An. King. 15, t. 43, 1832.
 Guer., Icon. Reg. An. Ins. t. 80, 1844.
Hab.—Fla., Cuba.
251. **Minyas** Hüb., Samm. Ex. Schmett. 1, 1806 16.
 Hüb., Verz. Bek. Schmett. 67, 1816.

Kirby, Cat. 426, 1871.
 Streck., Cat. 103, 1878.
 Biol. Cent.-Am. 2, 6, pl. 48, f. 1, 2, 3,
 1887.

toxea Godt., Enc. Meth. 9, 826, 1823.

Luc., Lep. Ex. t. 79, 1835.

godartii Boisd., Lep. Guat. 13.

toxana Boisd., l. c.

Hab.—S. W. Tex., Mex., Cent.-Am., So.
 America.

THECLA Fabricius.

252. **Grunus** Bd., Ann. Soc. Ent. Fr. 2,
 10, 289, 1852.

Bd., Lep. de la Cala. 43, 1869.

Hew., Ill. Diur. Lep. 67, Supp. 16, t. 6.

Morris, Syn. 100, 1862.

Kirby, Cat. 403, 1871.

Scud., Buff. Bull. 3, 113, 1876.

Streck., Cat. 86, 1878.

Edw., Cat. 53, 1884.

Dyar, Can. Ent. 25, 94, 1893.*

Hab.—No. and So. Cala., Nev.

253. **Crysalus** Edw., Tr. A. Soc. 4, 344,
 1873.

Mead, Wheeler's Rep. 5, 777, 1875.

Streck., Cat. 85, 1878.

Edw., Cat. 53, 1884.

Var. citima H. Edw., Pap. 1, 53, 1881.

Edw., Cat. 53, 1884.

Hab.—So. Cala., Ariz., Utah.

254. **Halesus** Cram., Pap. Ex. 2, t. 98,
 1779.

Fab., Ent. Syst. 3, 273, 1793.

Hüb., Verz. Bek. Schmett. 80, 1816.

Godt., Enc. Meth. 9, 626, 1823.

Bdl.-Lec., Lep. Am. Sept. 83, t. 25, 1833.

Morris, Syn. 91, 1862

Kirby, Cat. 383, 1871.

Mead, Wheeler's Rep. 5, 777, 1875.

Scud., Buff. Bull. 3, 112, 1876.

Streck., Cat. 86, 1878.

Edw., Cat. 53, 1884.

French, But. 225, 1885.*

H. Edw., Ent. Am. 3, 162, 1887.*

Biol. Cent.-Am. 2, 18, 1887.

Scud., But. 3, 1827, 1889.*

dolichos Hüb., Zutr. Ex. Schmett. f. 219,
 220, 1818.

dolichus Hüb., Verz. Bek. Schmett. 80,
 1816.

juanita Scud., Proc. Bost. Soc. Nat. Hist.
 11, 435, 1868.

Kirby, Cat. 383, 1871.

Hab.—Gulf St.; Ill., Nev., Cala., Ariz.,
 N. Mex., Mex., Cent. Am.

255. **M-album** Bd.-Lec., 86, pl. 26, 1833.*
 Morr., 92, 1862.

Scud., Buff. Bull. 3, 112, 1876.

Streck., Cat. 86, 1878.

Edw., Cat. 53, 1884.

French, But. 256, 1885.*

Biol. Cent.-Am. 2, 40, 1887.

Scud., But. 3, 1824, 1889.*

psyche Bd.-Lec., 88, pl. 27, 1833.

Hab.—Gulf States; Va., Pa., N. J., Ohio,
 Wis., Mex., Cent. Am.

256. **Telea** Hew., Desc. Lyc. 4, n. 10, 1868.
 Hew., Ill. Diur. Lep. 143, pl. 57, f. 350,
 351, 1862-78.

Kirby, Cat. 401, 1871.

Schaus, Ent. News, 9, 96, 1898,

Hab.—Miami, Fla.; Mex., Cent. and S.
 America.

257. **Martialis** H.-S., Corresp. Blatt.
 Regensb. 18, 164, 1864.

Kirby, Cat. 398, 1871.

Skinner, Ent. News 8, 123, 1897.

Hab.—Biscayne Bay, Fla. (Mrs. Slosson);
 Cuba.

258. **Hugon** Godt., Enc. Meth. 9, 640,
 1843.

hugo Dbl.-Hew., Gen. Diur. Lep. t. 74, f.
 4, 1852.

Streck., Cat. 87, 1878.

Hab.—Fla., West Indies.

259. **Jada** Hew., Ill. Diur. Lep. 87. pl. 34, f. 67, 68, 1862-78.
 Kirby, Cat. 385, 1871.
 Biol. Cent.-Am. 2, 35, pl. 52, f. 13, 14, 1887.
 Skinner, Ent. News 7, 319, 1896.
Hab.—Ariz., Mex.
260. **Favonius** Abb.-Sm., Ins. Ga. 1, 27, t. 14, 1797.*
 Godt., Enc. Meth. 9, 635, 1823.
 Dbl., List. Ins. B. M. 2, 31, 1847.
 Kirby, Cat. 395, 1871.
 Scud., Buff. Bull. 3, 111, 1876.
 Streck., Cat. 87, 1878.
 Edw., Cat. 53, 1884.
 French, But. 257, 1885.*
 Pack., U. S. Ent. Bull. 13, 31, 1887.*
Hab.—Gulf States; S. Car.
261. **Autolyceus** Edw., Trans. Am. Ent. Soc. 3, 271, 1871.
 Scud., Buff. Bull. 3, 111, 1876.
 Streck., Cat. 87, 1878 (and var. α .).
 Edw., Cat. 53, 1884.
 French, But. 258, 1885.
Hab.—Texas, Mo., Kans.
262. **Alcectis** Edw., Tr. Am. Ent. Soc. 3, 271, 1871.
 Scud., Buff. Bull. 3, 111, 1876.
 Streck., Cat. 87, 1878.
 Edw., Cat. 53, 1884.
Hab.—Texas, Ariz.
263. **Melinus** Hüb., Zutr. Ex. Schmiett. f. 121, 122, 1818.
 West., Gen. Diur. Lep. 486, 1852.
 Mead, Wheeler's Rep. 5, 778, 1875.
 Scud., Buff. Bull. 3, 107, 1876.
 Streck., Cat. 86, 1878.
 Biol. Cent.-Am. 2, 92, 1887.
 Scud., But. 2, 850, pl. 6, f. 20, 1889.*
hyperici Bdl.-Lec., Lep. Am. Sept. 90, t. 28, 1833.
 Morris, Syn. 94, 1862.
 Kirby, Cat. 396, 1871.
- favonius* Bdl.-Lec., Lep. Am. Sept. 95, t. 30, 1833.*
 Morris, Syn. 95, 1862.
humuli Harris, Ins. Inj. Veg. 1st ed. 215, 1841.
 Kirby, Cat. 395, 1871.
 Edw., Cat. 53, 1884.
 Aaron, Pap. 4, 179, 1885.
 French, But. 34, pl. 4, f. 42, 42a, 1886.
pan Harris, Hitch. Rep. Geol. Min., Mass. 590, 1833.
silenus Dbl., List. B. M. 2, 31, 1847.
melinus var. *pudica* H. Edw., Proc. Cal. Acad. Nat. Sci. 6, 1876.
 Edw., Cat. 54, 1884.
Hab.—Vanc.; Cala., Nev., Ariz., Mont., Mex., Cent. Am.; Atlantic States; Miss. Valley.
264. **Acadica** Edw., Proc. Acad. Nat. Sci. Phil. 55, 1862.
 Edw., But. 1, t. 1, *Thec.* 1868.
 Kirby, Cat. 396, 1871.
 Scud., Buff. Bull. 109, 1876.
 Streck., Cat. 88, 1878.
 Edw., Cat. 54, 1884.
 French, But. 260, 1885.
 Mayn., But. 34, pl. 6, f. 41, 41a, 1886.
 Scud., But. 2, 889, pl. 6, f. 13, 1889.*
souhegan Whitn., Pr. Bost. Soc. N. H. 12, 162, 1868.
 Kirby, Cat. 401, 1871.
Hab.—Ont.; Queb.; North. States; Iowa, Mont., Nev., Ariz.
265. **Californica** Edw., Pr. Ac. N. Sci. Phil. 233, 1862.
 Kirby, Cat. 396, 1871.
 Mead, Wheeler's Rep. 5, 779, 1875.
borus Bd., Lep. de la Cala. 43, 1869.
cygnus Edw., Tr. A. E. Soc. 3, 207, 1871.
Hab.—Nev., Cala. to Vanc. Is.
266. **Itys** Edw., Pap. 2, 23, 1882.
 Edw., Cat. 54, 1884.
Hab.—Ariz.

267. **Auretorum** Bd., Ann. Soc. Ent. Fr. 2, 10, 288, 1852.
 Morris, Syn. 99, 1862.
 Kirby, Cat. 396, 1871.
 Streck., Cat. 87, 1878.
 Edw., Cat. 54, 1884.
Hab.—Cala.
268. **Dryope** Edw., Tr. A. E. Soc. ♀, 3, 19, ♂, 3, 93, 1870.
 Kirby, Cat. 400, 1871.
 Scud., Buff. Bull. 3, 109, 1876.
 Edw., Cat. 54, 1884.
 Streck., Cat. 88, 1878 (under *acadica*).
Hab.—Cala., Nev., Utah.
269. **Sylvinus** Bd., Ann. Soc. Ent. Fr. 2, 10, 287, 1852.
 Morris, Syn. 99, 1862.
 Kirby, Cat. 396, 1871.
 Mead, Wheeler's Rep. 5, 778, 1875.
 Scud., Buff. Bull. 3, 109, 1875.
 Streck., Cat. 89, 1878.
 Edw., Cat. 54, 1884.
Hab.—Cala.
270. **Edwardsii** Saund., Can. Ent. 1, 99, 1869.
 Gr.-Rob., Tr. A. E. Soc. 1, 172, 1867.
 Scud., Buff. Bull. 3, 110, 1876.
 Streck., Cat. 88, 1878.
 Edw., Cat. 54, 1884.
falacer Harr. (not Godt.), 276, 1862.
calanus Gr.-Rob. (not Hüb.), l. c. 1, 173, 1867.
fabricii Kirby, Cat. 654, 1871.
Hab.—Ont.; Queb.; Brit. Amer.: Me. to Neb., Col.
271. **Wittfeldii** Edw., Can. Ent. 15, 136, 1883.
 Edw., Cat. 54, 1884.
 French, But. 262, 1885.
Hab.—Georgiana, Fla.
272. **Calanus** Hüb., Samm. Ex. Schmett. 1, 1806–1824.
 Hüb., Ind. Ex. Lep. 2, 1821.
 Dbl., List. Lep. B. M. 2, 30, 1847.
 Dbl.-Hew., Gen. Diur. Lep. 2, 486, 1850–52.
 Kirby, Cat. 395, 1871.
 Scud., Buff. Bull. 3, 110, 1876.
 Streck., Cat. 87, 1878.
 Edw., Can. Ent. 14, 28, 1882.
 Edw., Cat. 54, 1884.
 French, But. 263, f. 73, 1885.*
 Mayn., But. 33, pl. 14, f. 40, 40a, 1886.
 Scud., Psyche 5, 137, 1888.
falacer Godt., Enc. Meth. 9, 633, 1819.
 Bdl.-Lec., Lep. Am. Sept. 92. t. 29, 1833.*
 Morris, Syn. 95, 1862.
inorata Gr.-Rob., Trans. Am. Ent. Soc. 1, 323, 1868.
 Kirby, Cat. 395, 1871.
 Grote, Can. Ent. 19, 179, 1887.
Var. lorata Gr.-Rob., Tr. Am. Ent. Soc. 1, 323, 1868 (West Va.).
 Scud., But. 3, 1823, 1889.
Hab.—Atl. and West. St.; Tex., Col., N. Mex.; Ont.; Queb.
273. **Ontario** Edw., Tr. A. E. Soc. 2, 209, 1868.
 Edw., But. 1, 145, pl. 48, 1869.
 Kirby, Cat. 396, 1871.
 Streck., Cat. 88, 1878.
 Scud., Buff. Bull. 3, 111, 1876.
 Edw., Cat. 55, 1884.
 Scud., But. 2, 885, pl. 6, f. 15, 1889.
 Fletcher, Can. Ent. 27, 94, 1895.
Hab.—Ont.; N. E.
274. **Liparops** Bdl.-Lec., Lep. Am. Sept. 99, t. 31, 1833.
 Morris, Syn. 96, 1862.
 Kirby, Cat. 396, 1871.
 Scud., Buff. Bull. 3, 111, 1876.
 Streck., Cat. 87, 1878.
 Scud., But. 2, 877, pl. 6, f. 11, 1889.
strigosa Harris, Ins. Inj. Veg., Flint's Ed. 276, 1862.
 Morris, Syn. 101, 1862.
 Saund., Can. Ent. 1, 99, 1869.*

- Edw., But 1, t. 11, *Thecla* 1869.
 Kirby, Cat. 396, 1871.
 Fern., But. Me. 77, 1884.
 Edw., Cat. 55, 1884.
Hab.—Atl. St., Miss. Valley, Mont., Col.;
 Ont.; Queb.
275. **Putnami** H. Edw., Pr. Cal. Ac. N.
 Sci. 6, 1876.
 Streck., Cat. 86, 1878.
 Edw., Cat. 55, 1884.
Hab.—Spring Lake, Utah.
276. **Spadix** H. Edw., Pap. 1, 53, 1881.
 Edw., Cat. 55, 1884.
Hab.—So. Cala.
277. **Tetra** Behr, in Edw., Tr. A. E. Soc.
 3, 19, 1870.
 Kirby, Cat. 401, 1871.
 Scud., Buff. Bull. 3, 111, 1876.
 Streck., Cat. 88, 1878.
 Edw., Cat. 55, 1884.
Hab.—Cala.
278. **Chaleis** Behr, in Edw., Trans. Am.
 Ent. Soc. 2, 376, 1879.
 Kirby, Cat. 400, 1871.
 Streck., Cat. 88, 1878 (as *sæpium*).
 Edw., Cat. 55, 1884.
Hab.—Cala., Utah.
279. **Sæpium** Bd., Ann. Soc. Ent. Fr. 2,
 10, 288, 1852.
 Morr., 99, 1862.
 Scud., Buff. Bull. 3, 109, 1876.
 Mead, Wheeler's Rep. 5, 779, 1875.
 Streck., Cat. 88, 1878.
 Edw., Cat. 55, 1884.
Var. fulvescens H. Edw., Pr. Cal. Ac.
 N. Sci. 6, 1876.
Hab.—Cala., Wash., Utah, Nev., Col.
280. **Nelsonii** Bd., Lep. de la Cala. 43,
 1869.
 Kirby, Cat. 399, 1871.
 Scud., Buff. Bull. 3, 109, 1876.
 Streck., Cat. 89, 1878.
 Edw., Cat. 55, 1884.
 Lember, Ent. News, 6, 138, 1895.
Var. exoleta H. Edw., Pap. 1, 53, 1881.
Var. muiirii H. Edw., l. c. 53, 1881.
Hab.—Big Trees and Mendocino, Cal.;
 Col. (Bruce).
281. **Adenostomatis** H. Edw., Proc.
 Cal. Ac. N. Sci. 6, 1876.
 Scud., Buff. Bull. 3, 111, 1876.
 Streck., Cat. 88, 1878.
 Edw., Cat. 55, 1884.
 H. Edw., Proc. Cal. Acad. Nat. Sci. 7,
 144, 1878.
Hab.—N. and S. Cala.
282. **Tacita** H. Edw., Pap. 1, 54, 1881.
 Edw., Cat. 55, 1884.
Hab.—Mt. Shasta, Cala.
283. **Spinetorum** Bd., in Hew., Ill. pt.
 3, f. 198, 199, 1867.
 Bd., Lep. de la Cala. 42, 1869.
 Scud., Buff. Bull. 3, 109, 1876.
 Streck., Cat. 89, 1878.
 Edw., Cat. 55, 1884.
ninus Edw., Tr. A. E. Soc. 3, 20, 1871.
Hab.—N. Cala. to Wash., Col.
284. **Blenina** Hew., Desc. Lyc. 12, 29,
 1868.
 Hew., Ill. Diur. Lep. 127, 201, t. 50, f.
 256, 257, 1869.
 Aaron, Pap. 4, 179, 1885.
siva Edw., Tr. A. E. Soc. 5, 110, 1874.
 Mead, Wheeler's Rep. 5, 778, 1875.
 Scud., Buff. Bull. 3, 109, 1876.
 Streck., Cat. 89, 1878.
 Edw., Cat. 55, 1884.
Hab.—Vanc., Ariz., Mex.
285. **Castalis** Edw., Tr. A. E. Soc. 3, 205,
 1871.
 Streck., Cat. 89, 1878 (as *damon*).
 Edw., Cat. 55, 1884.
Hab.—Texas.

286. **Damon** Cram., Pap. Ex. 4, t. 90, C, D. 1782.
 Hew., Ill. Diur. Lep. t. 37, 1867.
 Harr., Hitch. Rep. 1st Ed. 590, 1833.
 Kirby, Cat. 387, 1871.
 Scud., Buff. Bull. 3, 108, 1876.
 Streck., Cat. 88, 1878.
 Scud., Psyche 5, 137, 1888.
 Scud., But. 2, 861, pl. 6, f. 17, 18, 1889.*
- gryneus* Hüb., Verz. Bek. Schmett. 74, 1816.
damastus Godt., Enc. Meth. 9, 640, 1823.
 Morris, Syn. 100, 1862.
smilacis Bd.-Lec., Lep. Am. Sept. 107, t. 33, 1833.*
 Morris, Syn. 98, 1862.
 Edw., Cat. 56, 1884.
 French, But. 268, 1885.*
 Mayn., But. 35, pl. 5, f. 43, 43a, 1886.
auburniana Harris, Ins. Inj. Veg., Flint's Ed. 277, 1862.
 Morris, Syn. 101, 1862.
 Var. *discoidalis* Skinner, Can. Ent. 29, 156, 1897 (Round Mt., Tex.).
 Hab.—Atl. and West. St., Texas; Ont.
287. **Simæthis** Dru., Ill. Ex. Ent. 1, t. 1, 1873.
 Godt., Enc. Meth. 9, 643, 1823.
 Godt., Samm. Ex. Schmett. 1806-24.
 Kirby, Cat. 398, 1871.
 Streck., Cat. 89, 1878 (*damon* Streck. not Dru.).
 Biol. Cent.-Am. 1, 81, 1887.
sarita Skinner, Ent. News 6, 112, 1895 (Comal Co., Tex.).
lycus Hüb., Samm. Ex. Schmett. 1816-41.
 Hab.—Tex., Mex., Cent. and S. Am.
288. **Acis** Dru., 1, pl. 1, 1773.
 Cram., 2, pl. 175, f. C, D, 1779.
 Morr., 101, 1862.
 Kirby, Cat. 398, 1871.
 Scud., Buff. Bull. 3, 108, 1876.
 Streck., Cat. 88, 1878.
 Edw., Cat. 56, 1884.
- French, But. 268, 1885.
 Skinner, Ent. News 5, 180, 1894.
- mars* Fab., Gen. Ins. 268, 1777.
 Fab., Ent. Syst. iii, 1, 265, 1793.
 Godt., Enc. Meth. 9, 635, 1823.
 Hüb., Samm. Ex. Schmett. ii, 1806-24.
 Hab.—Key West. Fla.; Palm Beach and Biscayne Bay, Fla. (Mrs. Slosson).
289. **Cecrops** Fab., Ent. Syst. 3, 1, 270, 1893.
 Godt., Enc. Meth. 9, 636, 1819.
 Dbl.-Hew., Gen. Diur. Lep. 485, 1850-1852.
 Kirby, Cat. 386, 1871.
 Scud., Buff. Bull. 3, 108, 1876.
 Streck., Cat. 86, 1878.
 Scud., But. 3, 1821, 1889.
- pæas* Hüb., Samm. Ex. Schmett. 1, 1806-1824.
 Bd.-Lec., 111, pl. 35, 1833.
 Morr., 103, 1862.
 Kirby, Cat. 395, 1871.
 Edw., Cat. 56, 1884.
 French, But. 270, 1885.
 Hab.—So. St., W. Va., Ky., Ind.
290. **Columella** Fab., Ent. Syst. 3, 1, 282, 1793.
 Godt., Enc. Meth. 9, 638, 1823.
 Scud., Buff. Bull. iii, 107, 1876.
 Streck., Cat. 89, 1878.
 Edw., Cat. 56, 1884.
 French, But. 271, 1885.
 Scud., But. 3, 1820, 1889.
- eurytulus* Hüb., Samm. Ex. Schmett. 2, 1806-24.
 Kirby, Cat. 395, 1871.
- modesta* Mayn., Am. Nat. 7, 178, 1873.
 Morr., Buff. Bull. 1, 188, 1874.
- ocellifera* Gro., Buff. Bull. 1, 78, 1873.
- istapa* Reek., Proc. Acad. Nat. Sci. Phil. 339, 1866.
- salona* Hew., Ill. Diur. Lep. 159, pl. 63, 1874.
 Hab.—N. Y., Fla., Tex., Mex., Antilles; Brazil.

291. **Clytie** Edw., Field and Forest 3, 88, 1877.
Edw., Pap. 2, 24, 1882.
Edw., Cat. 56, 1884.
Aaron, Pap. 4, 180, 1885 (says prob. = *adria* Hew.).
Hab.—San Antonio, Tex.; Ariz.
292. **Leda** Edw., Pap. 2, 23, 1882.
Edw., Cat. 56, 1884.
Biol. Cent.-Am. 2, 90, 1887.
Hab.—Ariz., Mex.
293. **Ines** Edw., Pap. 2, 25, 1882.
Edw., Cat. 56, 1884.
Hab.—Ariz.
294. **Behrii** Edw., Tr. A. E. Soc. 3, 18, 1870.
Scud., Buff. Bull. 3, 107, 1876.
Streck., Cat. 90, 1878.
Edw., Cat. 56, 1884.
kali Str., Lep. pt. 14, 129, 1878.
Graef., Br. Bull. 1, 91, 1881.
Hab.—Cal., Nev., Col., Oreg.
295. **Augustus** Kirby, Faun. Bor. Am. 4, 298, pl. 3, f. 4, 5, 1837.
Harr., 279, f. 108, 1862.
Morr., 103, 1862.
Scud., Buff. Bull. 3, 104, 1876.
Streck., Cat. 91, 1878.
Edw., Cat. 56, 1884.
Fern., But. Me. 79, 1884.
French, But. 272, 1885.
Mayn., But. 36, pl. 5, f. 44, 44a, 1886.
Scud., But. 2, 842, pl. 6, f. 25, 1889.*
augustinus West., Gen. Diur. Lep. p. 468, 1850-52.
Kirby, Cat. 395, 1871.
Hab.—Boreal Am., Ont., Queb., East. St.
296. **Iroides** Bd., Ann. Soc. Ent. Fr. 2, 10, 289, 1862.
Morr., 100, 1862.
Kirby, Cat. 399, 1871.
Mead, Wheeler's Rep. 5, 780, 1875.
H. Edw., Proc. Cal. Ac. N. Sci. June, 1878.*
Streck., Cat. 91, 1878 (under *augustus*).
Hab.—Br. Col. to Ariz., Vanc.
297. **Fotis** Str., Lep. pt. 14, 129, 1878.
Streck., Cat. 186, 1878.
Edw., Cat. 56, 1884.
Hab.—Ariz.
298. **Irus** Godt., Enc. Meth. 9, 674, 1823.
Bd.-Lec., 101, pl. 31, 1833.
Morr., 97, 1862.
Kirby, Cat. 399, 1871.
Scud., Buff. Bull. 111, 104, 1876.
Streck., Cat. 91, 1878.
Edw., Cat. 57, 1884.
Fern., But. Me. 80, 1884.
French, But. 273, 1885.*
Mayn., But. 37, pl. 5, f. 46, 46a, 1886.
Scud., But. 2, 834, pl. 6, f. 19, 22, 1889.*
iris Morris, Syn. 97, 1862.
Var. arsace Bd.-Lec., 103, pl. 32, 1833.
Var. mossii H. Edw., Pap. 1, 54, 1881.
Hab.—Atl. and West. St., Vanc. Isld.
299. **Henrici** Gr.-Rob., Tr. A. E. Soc. 1, 774, 1867.
Streck., Cat. 91, 1878 (var. of *irus*).
Edw., Pap. 1, 150, 1881.
Edw., Am. Nat. 16, 123, 1882.*
Fern., But. Me. 80, 1884.*
Edw., Cat. 57, 1884.
French, But. 273, 1885.
Hab.—W. Va.
300. **Eryphon** Bd., Ann. Soc. Ent. Fr. 1, 10, 290, 1852.
Morr., Syn. 1862.
Kirby, Cat. 399, 1871.
Mead, Wheeler's Rep. 5, 780, 1875.
Scud., Buff. Bull. 3, 104, 1876.
Streck., Cat. 90, 1878 (under *niphon*).
Edw., Cat. 57, 1884.
Hab.—Cal., Col.
301. **Niphon** Hübn., Zutr. Ex. Schmett. f. 203, 204, 1823.

- Fitch. 4th Rep. N. Y. Agr. Soc. 57, 1858.*
 Morr., 97, 1862.
 Harris, Ins. Inj. Veg. Flint's Ed. 278, 1862.
 Kirby, Cat. 399, 1871.
 Scud., Buff. Bull. 3, 104, 1876.
 Streck., Cat. 90, 1878.
 Edw., Cat. 57, 1884.
 Fern., But. Me. 82, 1884.*
 Fletcher, Can. Ent. 16, 92, 1884.*
 French, But. 276, 1885.*
 Mayn., But. 36, pl. 5, f. 45, 45a, 1886.
 Scud., But. 2, 829, pl. 6, f. 21, 23, 1889.
Hab.—Atl. and West. States, Col., Out., Queb., N. Sco.
302. **Affinis** Edw., Pr. Ac. N. Sci. Phil. 223, 1862.
 Streck., Cat. 91, 1878 (under *dumetorum*).
 Edw., Cat. 57, 1884.
Hab.—Utah.
303. **Dumetorum** Bd., Ann. Soc. Ent. Fr. 2, 10, 291, 1852.
 Morr., 100, 1862.
 Kirby, Cat. 402, 1871.
 Scud., Buff. Bull. 105, 1876.
 Streck., Cat. 91, 1878.
 Edw., Cat. 57, 1884.
 Lambert, Ent. News 6, 137, 1895.*
viridis Edw., Proc. A. N. Sci. Phil. 223, 1862.
Hab.—Cala., Oreg., Nev., Col.
304. **Apama** Edw., Pap. 2, 137, 1882.
 Edw., Cat. 57, 1884.
Hab.—Ariz.
305. **Sheridanii** Edw., Field and Forest 3, 48, 1877.
 Streck., Cat. 186, 1878.
 Edw., Cat. 57, 1884.
 Bruce, Ent. News 7, 15, 1896.
Hab.—Mont., Colo.
306. **Læta** Edw., Pr. Ac. N. Sci. Phil. 55, 1862.
 Edw., But. 1, 141, pl. 47, 1869.
 Kirby, Cat. 401, 1871.
 Scud., Buff. Bull. 106, 1876.
 Streck., Cat. 90, 1878.
 Edw., Pap. 2, 8, 1883.
 Fern., But. Me. 83, 1884.
 Edw., Cat. 57, 1884.
 French, But. 277, 1885.
 Mayn., But. 37, pl. 8, f. 47, 47a, 1886.
 Scud., But. 2, 819, pl. 14, f. 6, 9, 1889.*
 ♀ *clothilde* Edw., Pr. E. S. Phil. 2, 15, 1863.
 Scud., Proc. Bost. Soc. N. H. 11, 377, 1868.
Hab.—Me. to W. Va.; Atlantic City, N. J.; Ariz., Ont., Queb.
307. **Titus** Fab., Ent. Syst. 3, 297, 1793.
 Godt., Enc. Meth. 9, 688, 1823.
 Dbl.-Hew., Gen. Diur. Lep. 494, 1850-1852.
 Kirby, Cat. 399, 1871.
 Scud., Buff. Bull. 3, 105, 1876.
 Streck., Cat. 90, 1878.
 Edw., Cat. 57, 1884.
 Fern., But. Me. 84, 1884.*
 French, But. 278, 1885.*
 Mayn., But. 38, pl. 4, f. 48, 48a, 1886.
 Scud., But. 2, 809, pl. 6, f. 24, 26, 1889.*
mopsus Hüb., Zutr. Ex. Schmett. f. 135, 136, 1818.
 Bd.-Lec., 109, pl. 34, 1833.*
 Morr., 102, 1862.
 Harris, Ins. Inj. Veg. Flint's Ed. 278, 1862.
 Mead, Wheeler's Rep. 5, 779, 1875.
Hab.—N. E. to Ariz.; Ont., Queb., Old Man's River, Br. Am.
- FENISECA** Grote.
308. **Tarquinius** Fab. Ent. Syst. 3, 319, 1793.
 Don., Ins. Ind. t. 44, 1800.
 Herbst, Natursyt. Ins. Schmett. 11, 376, 1804.
 Godt., Enc. Meth. 9, 580, 1819.
 Dbl.-Hew., Gen. Diur. Lep. 499, t. 77, 1850-52.
 Grote, Tr. Am. Ent. Soc. 2, 307, 1869.

- Kirby, Cat. 345, 1871.
 Scud., Buff. Bull. 3, p. 29, 1876.
 Streck., Cat. 103, 1878.
 Fern., But. Me. 85, 1884.
 Edw., Cat. 58, 1884.
 French, But. 279, 1885.
 Mayn., But. 42, pl. 5, f. 54, 54a 1886.
 Edw., Can. Ent. 14, 141, 1886.*
 Riley, Can. Ent. 18, 191, 1886.*
 Seud., But. 2, 1016. pl. 5, f. 8, 1886.
 Ent. News 7, pl. 8, 1896.
- eratægi* Bd.-Lec., 128, pl. 37, 1833.
 Morr., Syn. 85, 1862.
- porsonna* Scud., Pr. Ess. Ins. 3, 163, 1863.
 Kirby, Cat. 345, 1871.
- Hab.*—Atl. St.; Miss. Valley, Ont., Queb.,
 N. Sco.
- CHRYSOPHANUS** Doubleday.
309. **Arota** Bd., Ann. Soc. Ent. Fr. 2, 10,
 293, 1852.
 Morr., 86, 1862.
 Kirby, Cat. 343, 1871.
 Str., Lep. pl. 10, f. 27, 28, 1874.
 Scud., Buff. Bull. 3, 125, 1876.
 Streck., Cat. 102, 1878.
 Edw., Cat. 58, 1884.
 Dyar, Can. Ent. 23, 204, 1891.*
- Hab.*—Cala.
310. **Virginienensis** Edw., Tr. A. E. Soc.
 3, 21, 1870.
 Kirby, Cat. 345, 1871.
 Streck., Lep. pl. 10, f. 21, 22, 1874.
 Scud., Buff. Bull. 3, 125, 1876.
 Streck., Cat. 102, 1878.
 Edw., Cat. 58, 1884.
- Hab.*—Cala., Nev., Col.
311. **Hermes** Edw., Tr. A. E. Soc. 3, 21,
 1870.
 Kirby, Cat. 345, 1871.
 Streck., Rhop.-Het. 91, 1874.
 Scud., Buff. Bull. 3, 125, 1876.
 Streck., Cat. 102, 1878.
 Edw., Cat. 58, 1884.
- Hab.*—Cala., Nev.
312. **Xanthoides** Bd., Ann. Soc. Ent.
 Fr. 2, 10, 292, 1852.
 Bd., Lep. de la Cala. 45, 1869.
 Morr., 86, 1862.
 Str., Lep. pl. 10, f. 12, 13, 1874.
 Scud., Buff. Bull. 3, 126, 1876.
 Streck., Cat. 102, 1878.
 Edw., Cat. 58, 1884.
 Hy. Edw., Ent. Am. 3, 162, 1887.*
- Hab.*—Cala.
313. **Dione** Scud., Tr. Chic. Ac. Sci. 1,
 330, 1869.
 Kirby, Cat. 343, 1871.
 Streck., Lep.-Het. 92, 1874 (var. *dione*).
 Scud., Buff. Bull. 3, 126, 1876.
 Streck., Cat. 102, 1878.
 Edw., Cat. 58, 1884.
 French, But. 280, 1885.
 Skinner, Can. Ent. 25, 22, 1893.*
- Hab.*—Ia. to Kans., Neb., Mont.
314. **Editha** Mead, Can. Ent. 10, 198,
 1878.
 Edw., Cat. 58, 1884.
- Hab.*—Lake Tahoe, Nev.
315. **Gorgon** Bd., Ann. Soc. Ent. Fr. 2,
 10, 292, 1852.
 Morr., 86, 1862.
 Kirby, Cat. 343, 1871.
 Str., Lep. pl. 10, f. 17, 1874.
 Scud., Buff. Bull. 3, 126, 1876.
 Streck., Cat. 102, 1878.
 Edw., Cat. 58, 1884.
- Hab.*—Cala., Nev.
316. **Thoe** Bd., Gray Griff. An. King. t.
 58, 1832.
 Bd.-Lec., Lep. Am. Sept. 125, t. 38,
 1833.
 Guér., Icon. Reg. An. t. 81, 1844.
 West.-Hew., Gen. Diur. Lep. 2, 498,
 1852.
 Morris, Syn. 84, 1862.
 Saund., Can. Ent. 1, 57, 1869.*
 Kirby, Cat. 343, 1871.
 Streck., Lep., Rhop.-Het. 91, 1874.
 Scud., Buff. Bull. 3, 127, 1876.

- Streck., Cat., 101, 1878.
 Edw., Cat. 58, 1884.
 Bean, Can. Ent. 16, 68, 1884.*
 French, But. 281, 1885.*
 Mayn., But. 40, pl. 5, f. 51, 51a, 1886.
 Scud., But. 2, 977, pl. 5, f. 12, 1889.*
- Hab.*—Mé. to Neb., Ohio, Kans., Colo.,
 Ont., Queb.
317. **Mariposa** Reak., Pr. E. Soc. Phil.
 6, 149, 1866.
 Kirby, Cat. 342, 1871.
 Str., Lep. pl. 10, f. 25, 26, 1874.
 Scud., Buff. Bull. 3, 127, 1876.
 Streck., Cat. 101, 1878.
 Edw., Cat. 59, 1884.
 Lambert, Ent. News 6, 138, 1895.*
- nivalis* Bd., Lep. de la Cala. 44, 1869.
Hab.—Cala., Col., Mont., Br. Am.
318. **Zerore** Bd., Lep. de la Cala. 45, 1869.
 Scud., Buff. Bull. 3, 127, 1876.
 Streck., Cat. 102, 1878.
 Edw., Cat. 59, 1884.
- ianthe* Edw., Tr. A. E. Soc. 3, 211, 1871.
 Str., Lep. pl. 10, f. 23, 24, 1874.
 Mead, Wheeler's Rep. 5, 781, 1875.
- Hab.*—Cala., Col.
319. **Hellroides** Bd., Ann. Soc. Ent. Fr.
 2, 10, 291, 1852.
 Morr., 86, 1862.
 Kirby, Cat. 342, 1871.
 Str., Lep. 10, f. 19, 20, 1874.
 Mead, Rep. Wheeler Exp. 5, 780, 1875.*
 Scud., Buff. Bull. 3, 128, 1876.
 Streck., Cat. 102, 1878.
 Edw., Cat. 59, 1884.
 Lambert, Ent. News 6, 138, 1895.*
 Healy, Ent. News 6, 297, 1895.*
- castro* Reak., Pr. E. Soc. Phil. 6, 148, 1866.
 Kirby, Cat. 342, 1871.
 Mead, Wheeler's Rep. 5, 781, 1875.
- Hab.*—Mont. to Ariz., Oreg., Cala., Utah,
 Iowa, Ill., Vanc.
320. **Florus** Edw., Can. Ent. 15, 210,
 1883.
 Edw., Cat. 59, 1884.
Hab.—Garrett's Ranch, Br. Am. (by Ged-
 des).
321. **Dorcas** Kirby, Faun. Bor. Am. 4,
 299, pl. 4, 1837.
 Dbl.-Hew., Gen. Diur. Lep. 498, 1850-
 1852.
 Morr., 90, 1862.
 Kirby, Cat. 343, 1871.
 Scud., Buff. Bull. 3, 128, 1876.
 Streck., Cat. 101, 1878 (under *epixanthe*).
 Edw., Cat. 59, 1884.
 Scud., But. 3, 1380, 1889.
Hab.—Kodiak, Alaska; Brit. Am., So.
 Labr.; Mich.
322. **Epixanthe** Bd.-Lec., 127, pl. 38,
 1833.
 Harr., 274, 1862.
 Morr., 85, 1862.
 Mosch., Stett. Ent. Zeit. 114, 1870.
 Stgr., Cat. Eur. Lep. 8, 1871.
 Kirby, Cat. 343, 1871.
 Streck., Lep.-Het. 90, 1874.
 Scud., Buff. Bull. 3, 128, 1876.
 Streck., Cat. 101, 1878.
 Edw., Cat. 59, 1884.
 Fern., But. Me. 86, 1884.
 French, But. 282, 1885.*
 Mayn., But. 41, pl. 5, f. 53, 53a, 1886.
 Scud., But. 2, 985, pl. 5, f. 5, 7, 1889.*
- Hab.*—Br. Am., Ont., Queb., N. F'land,
 Me., N. E., Kans., Iowa, Neb.
323. **Hypophleas** Bd., Ann. Soc. Ent.
 Fr. 2, 10, 291, 1852.
 Morris, Syn. 84, 1862.
 Kirby, Cat. 344, 1871.
 Scud., Buff. Bull. 3, 128, 1876.
 Edw., Cat. 59, 1884.
 French, But. 283, f. 75, 76, 1885.*
 Mayn., But. 4, pl. 5, f. 52, 52a, 1886.
 Scud., But. 2, 998, pl. 5, f. 11, 1889.*
- phleas* Bd.-Lec., 123, 1833.
- phleas* var. *americana* D'Urban, Can. Nat.
 5, 246, 1857.

americana Harr., 273, 1862.

Morris, Syn. 81, 1862.

Kirby, Cat. 344, 1871.

Streck., Lep. Rhop.-Het. 9, 1874.

Streck., Cat. 101, 1878.

Fern., But. Me. 87, 1884.*

Aber fasciata Str., Cat. 101, 1878.

Var. fulliolus Hulst, Ent. Am. 2, 182, 1886.

Hab.—North., Mid., West. St., Cala., Br. Am. to Pac., Ont., Queb., N. Sco.

Var. feildeni McLachl., Linn. Soc. Jl. pl. 14, 111, 1878.

Hab.—Arctic, lat. 81° 45'.

324. **Cupreus** Edw., Trans. A. E. Soc. 3, 20, 1870.

Edw., But. 2, pl. 1, of *Chrys.* 1874.

Kirby, Cat. 345, 1871.

Streck., Lep. Rhop.-Het. 92, 1874.

Scud., Buff. Bull. 3, 125, 1876.

Streck., Cat. 101, 1878.

Edw., Cat. 59, 1884.

Hab.—Shasta, Cala.; Oreg.

325. **Snowi** Edw., Trans. Kans. Ac. Sci. 7, 69, 1881.

Edw., Cat. 60, 1884.

Hab.—Col.; Laggan, Alberta.

326. **Rubidus** Behr, Pr. E. Soc. Phil. 6, 208, 1866.

Edw., But. 2, pl. 1 of *Chrys.* 1874.

Kirby, Cat. 345, 1871.

Streck., Lep. Rhop.-Het. 92, 1874.

Streck., Cat. 100, 1878.

Edw., Cat. 60, 1884.

rubida Scud., Buff. Bull. 3, 126, 1876.

Hab.—Oreg., Nev., Mont.

327. **Sirius** Edw., Tr. A. E. Soc. 3, 270, 1871.

Edw., But. 2, pl. 1 of *Chrys.* 1874.

Str., Lep. pl. 10, f. 29, 30, 1874.

Mead, Wheeler's Rep. 5, 781, 1875.

Scud., Buff. Bull. 3, 126, 1876.

Streck., Cat. 100, 1878.

Edw., Cat. 60, 1884.

Hab.—Mont. to Ariz.; Ft. McCleod, Br. Am.

LYCÆNA Fabricius.

328. **Fuliginosa** Edw. (*Lycæna*), Pr. Ac. N. Sci. Phil. 164, 1861.

Morr., 330, 1862.

Kirby, Cat. 364, 1871.

Streck., Lep. Rhop.-Het. 89, 1874 (prob. not this species).

Scud., Buff. Bull. 3, 106, 1876.

Edw., Cat. 57, 1884.

Holland, Jour. N. Y. Ent. Soc. 6, 57, 1898.

suasa Bd., Lep. de la Cala. 51, 1869.

Hab.—Cala.; Lake Tahoe, Nev.; Utah.

329. **Heteronea** Bd., Ann. Soc. Ent. Fr. 2, 10, 298, 1852.

Morr., 89, 1862.

Kirby, Cat. 363, 1871.

Edw., But. 2, pl. 1 of *Lyc.* 1874.

Str., Lep. pl. 10, f. 5, 6, 1874.

Mead, Wheeler's Rep. 5, 781, 1875.

Scud., Buff. Bull. 3, 120, 1876.

Streck., Cat. 100, 1878.

Edw., Cat. 60, 1884.

Hab.—Cala., Utah, Nev., Col.

330. **Clara** H. Edw., Pr. Cal. Ac. N. Sci. 6, 1877.

Streck., Cat. 100, 1878.

Edw., Cat. 60, 1884.

Hab.—S. Cala.

331. **Lycea** Edw., Proc. Ent. Soc. Phil. 2, 507, 1864.

Edw., Trans. Am. Ent. Soc. 3, 273, 1871.

Kirby, Cat. 377, 1871.

Streck., Lep. Rhop.-Het. 88, 1874.

Mead, Wheeler's Rep. 5, 785, 1875.*

Streck., Cat. 98, 1878 (under *icarioides*).

Edw., Cat. 60, 1884.

rapohæ Reak., Proc. Ent. Soc. Phil. 6, 146, 1866.

- Kirby, Cat. 377, 1871.
 Streck., Lep. Rhop.-Het. 87, t. 10, f. 14,
 15, 1874.
 Mead, Wheeler's Rep. 5, 784, 1875.
Hab.—Col., Nev., Mont., Ariz., N. Mex.
332. **Fulla** Edw., Trans. Am. Ent. Soc.
 3, 194, 1870.
 Kirby, Cat. 653, 1871.
 Streck., Lep. Rhop.-Het. 89, 1874.
 Scud., Buff. Bull. 3, 118, 1876.
 Streck., Cat. 97, 1878.
 Edw., Cat. 60, 1884.
fuliginosa Streck., Lep. Rhop.-Het. 89,
 1874.
Hab.—Cala., Wash., Vanc.
333. **Icarioides** Bdl., Ann. Soc. Ent.
 Fr. 2, 10, 297, 1852.
 Morris, Syn. 78, 1862.
 Kirby, Cat. 336, 1871.
 Streck., Lep. Rhop.-Het. 87, 1874, 120,
 1876.
 Scud., Buff. Bull. 3, 119, 1876.
 Streck., Cat. 98, 1878.
 Edw., Cat. 60, 1884.
- pardalis* Behr, Proc. Cal. Acad. Sc. 3, 279,
 1867.
 Kirby, Cat. 374, 1871.
 Streck., Lep. Rhop.-Het. 89, 1874.
 Scud., Buff. Bull. 3, 119, 1876.
- dædalus* Behr, Proc. Cal. Acad. Sc. 3, 280,
 1867.
 Kirby, Cat. 366, 1871.
 Streck., Lep. Rhop.-Het. 90, 1874.
 Streck., Cat. 98, 1878.
 Edw., Cat. 60, 1884.
- erymus* Bdl., Lep. Cal. 48, 1869.
 Kirby, Cat. 366, 1871.
 Streck., Lep. Rhop.-Het. 86, 1874.
- mintha* Edw., Trans. Am. Ent. Soc. 3, 194,
 1870.
 Streck., Lep. Rhop.-Het. 89, 1874.
 Scud., Buff. Bull. 3, 119, 1876.
- mincha* Kirby, Cat. 653, 1871.
- Var. maricopa** Reak., Pr. Ac. N. Sci.
 Phil. 245, 1866.
- Kirby, Cat. 377, 1871.
 Streck., Lep. Rhop.-Het. 85, 1874.
 Scud., Buff. Bull. 3, 119, 1876.
- Hab.*—Cala.
334. **Sæpiolus** Bdl., Ann. Soc. Ent. Fr.
 2, 10, 297, 1852.
 Morris, Syn. 88, 1862.
 Kirby, Cat. 373, 1871.
 Streck., Lep. Rhop.-Het. 90, 1874.
 Mead, Wheeler's Rep. 5, 784, 1875.
 Scud., Buff. Bull. 3, 119, 1876.
 Streck., Cat. 98, 1878.
 Mead, Wheeler's Rep. 5, 784, 1878.*
 Edw., Cat. 60, 1884.
- æhaja* Behr, Proc. Cal. Acad. Nat. Sci. 3,
 280, 1867.
 Scud., Buff. Bull. 3, 121, 1876.
- achaja* Kirby, Cat. 366, 1871.
 Streck., Lep. Rhop.-Het. 89, 1874.
- rufescens* Bdl., Lep. Cal. 48, 1869.
 Mead, Wheeler's Rep. 5, 784, 1875.
- Hab.*—Cala., Nev., Col., Mont., Br. Am.,
 Vanc.
335. **Amica** Edw., Pr. E. Soc. Phil. 2, 20,
 1863.
 Kirby, Cat. 376, 1871.
 Streck., Lep. Het. 85, 1874.
 Streck., Cat. 100, 1878.
 Edw., Cat. 61, 1884.
- orbitulus* Scud., Buff. Bull. 3, 121, 1876.
- Hab.*—Mackenzie River, Br. Am.
336. **Pembina** Edw., Pr. Ac. N. Sci.
 Phil. 224, 1862.
 Kirby, Cat. 401, 1871.
 Streck., Lep. Rhop.-Het. 88, 1874.
 Scud., Buff. Bull. 3, 119, 1876.
 Streck., Cat. 99, 1878.
 Edw., Cat. 61, 1884.
- Hab.*—Slave Lake, Br. Am.
337. **Pheres** Bdl., Ann. Soc. Ent. Fr. 2,
 10, 297, 1852.
 Morr., 89, 262.
 Kirby, Cat. 362, 1871.
 Streck., Lep. Het. 85, 1874.

- Mead, Wheeler's Rep. 5, 785, 1875.
 Scud., Buff. Bull. 3, 118, 1876.
 Streck., Cat. 97, 1878.
 Scud., Bull. U. S. Geol. Surv. 4, 256, 1878.
 Edw., Cat. 61, 1884.
Var. evius Bd., Lep. de la Cala. 49, 1869.
 Kirby, Cat. 363, 1871.
 Streck., Lep. Het. 39, 1874.
Hab.—Cala. to Br. Col., Nev., Col.
338. **Phileros** Bd., Lep. de la Cala. 50, 1869.
 Kirby, Cat. 366, 1871.
 Streck., Lep. Rhop.-Het. 87, 1874.
 Scud., Buff. Bull. 3, 118, 1876.
 Streck., Cat. 97, 1878.
 Edw., Cat. 61, 1884.
helios Edw., Tr. A. E. Soc. 3, 208, 1871.
 Streck., Lep. Het. 89, 1874.
Hab.—Cala., Utah, Nev., Ariz.
339. **Ardea** Edw., Tr. A. E. Soc. 3, 209, 1871.
 Streck., Lep. Rhop.-Het. 86, 1874.
 Scud., Buff. Bull. 3, 118, 1876.
 Streck., Cat. 97, 1878.
 Edw., Cat. 61, 1884.
Hab.—Nev.
340. **Kodiak** Edw., Tr. A. E. Soc. 3, 20, 1870.
 Kirby, Cat. 376, 1871.
 Streck., Lep. Het. 87, 1874.
 Scud., Buff. Bull. 3, 120, 1876.
 Streck., Cat. 98, 1878 (under *icarioides*).
 Edw., Cat. 61, 1884.
Hab.—Kodiak, Alaska.
341. **Xerces** Bd., Ann. Soc. Ent. Fr. 2, 10, 296, 1852.
 Morr., 88, 1862.
 Kirby, Cat. 373, 1871.
 Streck., Lep. Het. 86, 1874.
 Scud., Can. Ent. 8, 21, 1876.
 Scud., Buff. Bull. 3, 117, 1876.
 Streck., Cat. 97, 1878.
 Edw., Cat. 61, 1884.
Hab.—San Francisco, Cala.
342. **Antiacis** Bd., Ann. Soc. Ent. Fr. 2, 10, 300, 1862.
 Morr., 90, 1862.
 Kirby, Cat. 371, 1871.
 Streck., Lep. Rhop.-Het. 84, 1874.
 Mead, Wheeler's Rep. 5, 785, 1875.
 Scud., Can. Ent. 8, 22, 1876.
 Scud., Buff. Bull. 3, 117, 1876.
 Streck., Cat. 96, 1878.
 Edw., Cat. 61, 1884.
polypheumus Bd., Lep. de la Cala. 1869.
Var. behrii Edw., Pr. Ac. N. Sci. Phil. 224, 1862.
Var. mertila Edw., Pr. E. Soc. Phil. 6, 206, 1866.
 Streck., Lep. Rhop.-Het. 85, 1874.
Hab.—Cala., Nev., Ariz.
Aberr. oreus Edw., Tr. A. E. Soc. 2, 376, 1869.
Hab.—Cala.
343. **Couperii** Grote, Buff. Bull. 1, 185, 1874.
 Scud., Can. Ent. 8, 22, 1876.
 Scud., Buff. Bull. 3, 117, 1876.
 Streck., Cat. 96, 1878.
 Edw., Cat. 61, 1884.
 Scud., But. 2, 952, pl. 14, f. 8, 10, 1889.*
pembina Str. (not Edw.), Lep. pl. 10, f. 10, 11, 1874.
Hab.—Anticosti, So. Labr., N. F. land.
afra Edw., Can. Ent. 15, 211, 1883.
Hab.—Saskn. (by Geddes); Brandon, N. W. Terr.
344. **Lygdamas** Doubl., Entom. 209, 1842.
 Edw., But. 1, 150, pl. 49, 1869.
 Kirby, Cat. 368, 1871.
 Streck., Lep. Rhop.-Het. 84, 1874.
 Mead, Wheeler's Rep. 5, 784, 1875.
 Scud., Can. Ent. 8, 23, 1876.
 Scud., Buff. Bull. 3, 117, 1876.
 Streck., Cat. 96, 1878.
 Edw., Cat. 61, 1884.
Hab.—Mich., Wis. to Ga., W. Va.

- Western form *oro* Scud., Can. Ent. 8, 23, 1876.
Hab.—Col., N. Mex., Cala.
345. **Sagittigera** Feld., Reise Nov. Lep. 2, 281. t. 35, 1865.
 Kirby, Cat. 354, 1871.
 Scud., Buff. Bull. 3, 116, 1876.
 Streck., Cat. 96, 1878.
 Edw., Cat. 62, 1884.
 Biol., Cent.-Am. 2, 103, 1887.
- catalina* Reak., Proc. Acad. Nat. Sci. Phil. 244, 1866.
 Kirby, Cat. 376, 1871.
 Streck., Lep. Rhop.-Het. 86, 105, 120, t. 10, f. 1, 2, 1874-76.
- lorquini* Behr, Proc. Cal. Acad. Nat. Sci. 3, 280, 1867.
 Kirby, Cat. 377, 1871.
 Streck., Lep. Rhop.-Het. 90, 1874, 120, 1876.
- rhæa* Bdl., Lep. Cal. 51, 1869.
 Kirby, Cat. 367, 1871.
 Streck., Lep. Rhop.-Het. 88, 1874, 105, 1875.
- viaca* Edw., Trans. Am. Ent. Soc. 3, 209, 1871.
 Streck., Lep. Rhop.-Het. 89, 1874.
- daunia* Edw., Trans. Am. Ent. Soc. 3, 272, 1871.
 Mead, Wheeler's Rep. 5, 785, 1875.
Hab.—Oreg., Cala., Nev., Col., Mex.
346. **Speciosa** H. Edw., Pr. Cal. Ac. N. Sci. 6, 1876.
 Streck., Cat. 100, 1878.
 Hy. Edw., Pap. 1, 55, 1881.
 Edw., Cat. 62, 1884.
Hab.—S. Cala.
347. **Sonorensis** Feld., Reise, Nov. Lep. 2, 281, pl. 35, 1865.
 Kirby, Cat. 354, 1871.
 Streck., Lep. Rhop.-Het. 105, 1875.
 Streck., Cat. 137, 1878.
 Edw., Cat. 62, 1884.
 Biol. Cent.-Am. 2, 103, 1887.
 Wright, Ent. Am. 4, 71, 1888.*
- regia* Bd., Lep. de la Cala. 46, 1869.
 Kirby, Cat. 336, 1871.
 Edw., But. 2, pl. 1 of *Lyc.* 1874.
 Streck., Lep. Rhop.-Het. 87, 1874.
Hab.—S. Cala., Mex.
348. **Podarce** Feld., Reise, Nov. Lep. 2, 282, pl. 35, 1865.
 Edw., Cat. 62, 1884.
- tehamia* Reak., Pr. Ac. N. Sci. Phil. 246, 1866.
- cilla* Behr, Pr. Cal. Ac. N. Sci. 3, 281, 1867.
- nestos* Bd., Lep. de la Cala. 50, 1869.
- orbitulus* Str. (not De Prun., not Esp.), Lep. pl. 10, f. 16, 1874.
 Streck., Cat. 99, 1878.
Hab.—Cala., Nev., Col.
349. **Aquilo** Bd., Icon. 62, pl. 12, f. 7, s. 1833.
 Dup., Hist. Nat. Lep. Suppl. 1, 47, 6, 7, 1832.
 H.-S., Schmett. Eur. 1, f. 24, 25, 1843.
 Walleng., Skand. Dagf. 211, 1847.
 Mosch., Wien. Ent. Mon. 4, 343, 1860.
 Streck., Lep. Rhop.-Het. 86, 1874.
 Scud., Buff. Bull. 3, 120, 1876.
 Streck., Cat. 100, 1878.
 Edw., Cat. 62, 1884.
 McLach., Jour. Linn. Soc. Lond. 14, 111, 1878.
- franklinii* Curt. App. Ross Exp. 69, pl. A. f. 8, 9, 1835.
Hab.—Arc. Am., Labr.
350. **Rustica** Edw., Pr. E. Soc. Phil. 4, 203, 1865.
 Kirby, Cat. 377, 1871.
 Mead, Wheeler's Rep. 5, 783, 1875.
 Streck., Cat. 99, 1878 (under *orbitulus*).
Hab.—Col., Br. Am.
351. **Enoptes** Bd., Ann. Soc. Ent. Fr. 2, 10, 298, 1852.
 Morr., 89, 1862.
 Kirby, Cat. 363, 1871.

- Streck., Lep. Rhop.-Het. 89, 1874.
 Scud., Buff. Bull. 3, 122, 1876.
 Streck., Cat. 94, 1878.
 Edw., Cat. 62, 1884.
Hab.—Cala., Wash., Ariz.
352. **Glaucon** Edw., Tr. A. E. Soc. 3, 210, 1871.
 Streck., Lep. Rhop.-Het. 88, 1874.
 Mead, Wheeler's Rep. 5, 782, 1875.
 Streck., Cat. 94, 1878 (under *battoides*).
 Edw., Cat. 62, 1884.
Hab.—Col.
353. **Battoides** Behr, Pr. Cal. Ac. N. Sci. 3, 282, 1867.
 Kirby, Cat. 360, 1871.
 Streck., Lep. Rhop.-Het. 87, 1874.
 Mead, Wheeler's Rep. 5, 782, 1875.
 Scud., Buff. Bull. 3, 122, 1876.
 Streck., Cat. 94, 1878.
 Edw., Cat. 63, 1884.
Hab.—Cala., Nev., Col.
354. **Shasta** Edw., Pr. Ac. N. Sci. Phil. 224, 1862.
 Kirby, Cat. 401, 1871.
 Streck., Lep. Rhop.-Het. 83, 1874.
 Scud., Buff. Bull. 3, 121, 1876.
 Streck., Cat. 94, 1878.
 Edw., Cat. 63, 1884.
zelmira Feld., Reise Nov. Lep. 282, pl. 35, 1865.
 Kirby, Cat. 359, 1871.
calchas Behr, Pr. Cal. Ac. N. Sci. 3, 281, 1867.
 Kirby, Cat. 358, 1871.
 Streck., Lep. Rhop.-Het. 88, 1874.
 Mead, Wheeler's Rep. 5, 782, 1875.
nivium Bd., Lep. de la Cala. 47, 1869.
lupini Bd., l. c. 46, 1869.
minehana Scud., Pr. Bost. Soc. N. Hist. 17, 88, 1875.
Hab.—Cala. to Oreg., Utah, Nev., Mont., Col.
355. **Melissa** Edw., Tr. A. E. Soc. 4, 346, 1873.
 Str., Lep. pl. 10, f. 8, 9, 1874.
 Mead, Wheeler's Rep. 5, 783, t. 36, 1875.
 Scud., Buff. Bull. 3, 122, 1876.
 Streck., Cat. 93, 1878.
 Edw., Cat. 63, 1884.
 Edw., Pap. 4, 91, 1884.*
Hab.—Ariz., N. Mex., Col., Nev., Mont., Kans.
356. **Scudderii** Edw., ♂, Pr. Ac. N. Sci. Phil. 164, 1861.
 Edw., ♀, l. c. 225, 1862.
 Morr., 329, 1862.
 Kirby, Cat. 358, 1871.
 Streck., Lep. Rhop.-Het. 87, 1874.
 Scud., Buff. Bull. 3, 122, 1876.
 Streck., Cat. 94, 1878.
 Edw., Cat. 63, 1884.
 Scud., Psyche 5, 13, 1885.
 French, But. 285, 1885.
 Scud., But. 2, 964, pl. 6, f. 6, 7, 1889.*
 Scud., Psyche 5, 13, 1891.*
Hab.—N. Y., Mich., Wis., Br. Col., Can.
357. **Lotis** Lint., 30th Rep. N. Y. St. Mus. Nat. Hist. 169, 1879.
 Lint., Ent. Cont. 4, 57, 1878.
 Edw., Cat. 63, 1884.
Hab.—Mendocino, Cala.
358. **Acmion** Dbl.-Hew., Gen. Di. Lep. pl. 76, 1852.
 Morr., Cat. Lep. N. Am. 12, 1860.
 Kirby, Cat. 358, 1871.
 Streck., Lep. Rhop.-Het. 88, 1874.
 Mead, Wheeler's Rep. 5, 782, 1875.
 Scud., Buff. Bull. 3, 122, 1876.
 Streck., Cat. 93, 1878.
 Edw., Cat. 63, 1884.
 Biol. Cent.-Am. 2, 103, 1887.
 Lember, Ent. News 6, 138, 1895.
antægon Bd., Ann. Soc. Ent. Fr. 2, 10, 295, 1852.
 Morris, Cat. Lep. N. Am. 12, 1860, Syn. 87, 1862.
 Kirby, Cat. 358, 1871.
Hab.—Cala. to Wash., Ariz. to Mont.
359. **Aster** Edw., Can. Ent. 14, 194, 1882.
 Edw., Cat. 63, 1884.
Hab.—N. F'land.

360. **Annetta** Mead mss., Edw., Pap. 2, 48, 1882.
Edw., Cat. 63, 1884.
Hab.—Utah.
361. **Anna** Edw., Pr. Ac. N. Sci. Phil. 163, 1861.
Morr., 329, 1862.
Kirby, Cat. 329, 1871.
Str., Lep. pl. 10, f. 4, 5, 1874.
Mead, Wheeler's Rep. 5, 782, 1875.
Scud., Buff. Bull. 3, 122, 1876.
Streck., Cat. 93, 1878.
Edw., Cat. 63, 1884.
cajona Reak., Pr. E. Soc. Phil. 6, 147, 1866.
argyrotoxus Behr., Pr. Cal. Ac. N. Sci. 3, 281, 1867.
philemon Bd., Lep. de la Cala. 47, 1869.
Hab.—Cala. to Col., Oreg., Mont., Belly River, Br. Am. (by Geddes).
362. **pseudargiolus** Ed.-Lec. (text, not plate), 118, 1833.
Edw., But. 1, 153, pl. 50, 1869.
Edw., Can. Ent. 10, 1, 131, 1878.*
Edw., But. 2, pl. cit. f. 8, 9, l. c. pl. 3 of Lyc.*
Edw., Pap. 3, 86, 1883.
Edw., Can. Ent. 17, 10, 1885.
French, But. 286, 6, 78-80, 1885.*
Scud., But. 2, 927, pl. 6, f. 1-8, 1889.*
argiolus Abb.-Sm., pl. 15, 1797.
Var. lucia Kirby, ♂, Faun. Bor. Amer. 4, 299, pl. 3, f. 8, 9, 1837.
Edw., But. 2, pl. 2 of Lyc. f. 1, 2, 1884.
Fern., But. Me. 89, 1884.
Hab.—Alaska, Br. Am. to Queb., Antic, N. E., N. Y., Col., Vanc.
Var. marginata Edw., Pap. 3, 86, 1883.
Edw., But. 2 pl. cit. f. 3, 4, 1884.
Fern., l. c. 88, 1884.
Hab.—Ont., Queb. to Long Isld., Col.
Var. violaces Edw., Pr. E. Soc. Phil. 6, 201, 1866.
Edw., Pap. 3, 86, et seq. 1883.
Edw., But. 1, 149, pl. 49, 1868; 2, pl. cit. f. 5, 6, pl. 3 Lyc. 1884.*
Fern., l. c. 88, 1884.
Edw., But. 3, Suppl. 1897.*
Hab.—Alaska, Lake Winnipeg. Br. Am., Ont., Queb., Antici., N. E. to W. Va., Col.
Var. nigra Edw., But. 1, pl. 49, 1868; 2, pl. cit. f. 7.
Hab.—W. Va., Col.
Var. cinerea Edw., Pap. 3, 8, 1883.
Edw., But. 2, pl. cit. f. 16, 17.
Hab.—Pa. to Ga., Wis., Tenn.
Var. arizonensis Edw., But. 2, pl. 2, cit. f. 18, 19.
Hab.—Ariz.
Var. neglecta Edw., Pr. Ac. N. Sci. Phil. 56, 1862.
Edw., But. 1, 155, pl. 50, 1869.
Edw., Can. Ent. 7, 81, 1875.*
Lintn., Can. Ent. 7, 122, 1875.
Edw., l. c. 10, 1, 1878.*
Edw., But. 2, pl. 2 of Lyc. f. 10 to 15, pl. 3, larva, etc. 1884.
Fern., But. Me. 89, 1884.*
Hab.—Ont., Queb., N. E. to W. Va., Mont., Nev.
Var. piasus Bd., Ann. Soc. Ent. Fr. 2, 10, 299, 1852.
Edw., But. 2, pl. 2 of Lyc. f. 20, ♂, pl. 3, f. 26, 27, ♂, 1884.
Biol. Cent.-Am. 2, 105, 1887.
Wright, Can. Ent. 20, 97, 1888.
Lembert, Ent. News 6, 138, 1895.*
Var. echo Edw., Pr. E. Soc. Phil. 2, 506, 1864.
Edw., But. 2, pl. 2 of Lyc. f. 21, ♀.
Hab.—Cala., Ariz., Mex.
Var. gozora Boisd., Lep. Guat. 17, 1870.
Hab.—Ariz., Mex.
Aber. intermedia Streck., Cat. 95, 1870.
Hab.—Virginia.

363. **Amyntula** Bd., Ann. Soc. Ent. Fr. 2, 10, 294, 1852.
 Morr., Syn. 87, 1862.
 Streck., Lep. Rhop.-Het. 7, 82, 1874.
 Scud., Buff. Bull. 3, 144, 1876.
 Streck., Cat. 92, 1878.
 Edw., Cat. 64, 1884.
 Wright, Pap. 4, 126, 1884.*
comyntas var. *amyntula* Kirby, Cat. 356, 1871.
Hab.—Cala., W. Terr., Ariz., Nev., Calgary, Br. Am.
364. **Comyntas** Godt., Enc. Meth. 9, 660, 1823.
 Bd.-Lec., 120, pl. 36, 1833.*
 Morr., 83, 1862.
 Harris, Ins. Inj. Veg. Flint's Ed. 275, 1862.
 Kirby, Cat. 356, 1871.
 Streck., Lep. Rhop.-Het. 82, 1874.
 Mead, Wheeler's Rep. 5, 783, 1875.
 Scud., Buff. Bull. 3, 114, 1876.
 Edw., Can. Ent. 8, 202, 1876.*
 Streck., Cat. 92, 1878.
 Fern., But. Me. 91, 1884.*
 Edw., Cat. 65, 1884.
 French, But. 292, f. 81, 1885.*
 Mayn., But. 40, pl. 5, f. 50, 50a, 1886.
 Biol. Cent.-Am. 2, 108, 1887.
Hab.—Atl. St. to Rocky Mts., Col., Mex., Cent. Am.
365. **Monica** Reak., Pr. Ac. N. Sci. Phil. 244, 1866.
 Kirby, Cat. 356, 1871.
 Str., Lep. pl. 10, f. 18, 1874.
 Streck., Cat. 116, 1878.
 Edw., Cat. 65, 1884.
Hab.—So. Cala., Ariz.
366. **Isola** Reak., Proc. Acad. Nat. Sci. Phil. 332, 1866.
 Streck., Lep. Rhop.-Het. 84, 1874.
 Mead, Wheeler's Rep. 5, 783, 1875.
 Scud., Buff. Bull. 3, 123, 1876.
 Streck., Cat. 93, 1876.
 Aaron, Pap. 4, 180, 1884.
 Biol. Cent.-Am. 2, 104, t. 58, f. 33-35, 1887.
- zachæina* Butl.-Druce Cist. Ent. 1, 104.
alce Edw., Tr. A. A. Soc. 3, 272, 1871.
 Streck., Lep. Rhop.-Het. 88, 1874.
 Edw., Cat. 65, 1884.
Hab.—Col., N. Mex., Ariz., Kans., Mex.
367. **Gyas** Edw., l. c. 3, 210, 1871.
 Streck., Lep. Rhop.-Het. 84, 1874.
 Streck., Cat. 93, 1878 (under *isola*).
 Edw., Cat. 65, 1884.
Hab.—Ariz.
368. **Cyna** Edw., l. c. 9, 3, 1881.
 Edw., Cat. 65, 1884.
Hab.—San Antonia, Texas.
369. **Hanno** Stoll, Suppl. Cram. t. 39, f. 2, 2 B. 1790.
 Hub., Sam. Exot. Schmett. 1, 1806-1816.
 Kirby, Cat. 350, 1871.
 Streck., Lep. Rhop.-Het. 83, 1874.
 Biol. Cent.-Am. 2, 106, 1887.
antibubastus Hub., Zutr. Exot. Schmett. 19, f. 99, 100, 1818.
 Dbldy.-Hew., Gin. Diur. Lep. 486, 1850-52.
 Kirby, Cat. 350, 1871.
 Scud., Buff. Bull. 3, 123, 1876.
 Streck., Cat. 92, 1878.
- hamo* Lucas, Sagra Hist. Nat. Cuba 7, 612, 1856.
pseudoptiletes Bdl.-Lec. Lep. Am. Sept. 114, t. 35, 1833.
astenida Bdl., Mss. Luc. Sagra Hist. Nat. Cuba 7, 613, 1856.
filenus Poey, Cent. Lep. Cuba pl. 2, 1832.
 Bd.-Lec., 114, pl. 35, 1833.
 Bd.-Lec., Lep. Am. Sept. 114, 1833.
 Edw., Cat. 65, 1884.
 Aaron, Pap. 4, 180, 1885.
 French, But. 295, 1885.
Hab.—Gulf States, Mex., Antilles, Cent. and Sth. Am.

370. **Isophthalma** Herr.-Sch., Corr.-Blatt. Zool. Min. Ges. Regensburg 16, 141, 1862.
 Herr.-Sch., Stett. Ent. Zeit. 73, 1869.
 Kirby, Cat. 350, 1871.
 Scud., Buff. Bull. 3, 123, 1876.
 Streck., Cat. 92, 1878.
 Edw., Cat. 65, 1884.
 French, But. 295, 1885.
pseudofeu Morr., Buff. Bull. 1, 186, 1784.
Hab.—Fla., Ga.
371. **Exilis** Bd., Ann. Soc. Ent. Fr. 2, 10, 294, 1852.
 Morr., 87, 1862.
 Kirby, Cat. 351, 1871.
 Streck., Lep. Rhop.-Het. 83, 1874.
 Scud., Buff. Bull. 3, 124, 1876.
 Streck., Cat. 92, 1878.
 Edw., Cat. 65, 1884.
 French, But. 295, 1885.
 Biol. Cent.-Am. 2, 109, t. 58, f. 30-32, 1887.
exile Scud., Buff. Bull. 3, 124, 1876.
fea Edw., Tr. A. E. Soc. 3, 211, 1871.
Hab.—Cala., Ariz., N. Mex., Col, Texas, Fla., Mex., Cent. and Sth. Am.
372. **Ammon** Luc., Sagr. Hist. Cuba 7, 612, pl. 16, 7, 7a, 1856.
 Kirby, Cat. 351, 1871.
 Scud., Buff. Bull. 3, 122, 1876.
- Streck.*, Cat. 93, 1878.
 Edw., Cat. 65, 1884.
 French, But. 295, 1885.
Hab.—Indian River and So. Fla.
373. **Marina** Reak., Pr. Ac. N. Sci. Phil. 87, 1868.
 Kirby, Cat. 351, 1871.
 Scud., Buff. Bull. 3, 124, 1876.
 Streck., Cat. 92, 1878.
 Edw., Cat. 65, 1884.
 Biol. Cent.-Am. 2, 106, 1887.
Hab.—So. Cala., So. Col., Ariz., Mex., Cent.-Am.
374. **Theonus** Luc., Sagr. Hist. Cuba, 7, 611, pl. 16, f. 8, 8a, b, 1856.
 Kirby, Cat. 351, 1871.
 Scud., Buff. Bull. 3, 124, 1876.
 Streck., Cat. 92, 1878.
 Edw., Cat. 65, 1884.
 French, But. 298, 1895.
cassius Morr., Buff. Bull. 1, 187, 1873.
Hab.—Fla., Cuba.
375. **Striata** Edw., Field and Forest 3, 86, 1877.
 Streck., Cat. 186, 1878.
 Edw., Cat. 65, 1884.
Hab.—San An. Tex., occasl. near Racine, Wis. (by Hoy).

PAPILIONIDÆ.

PIERINÆ.

LEPTALIS Dalman.**NEOPHASIA** Behr.

376. **Melite** Linn., Syst. Nat. 1, 2, 775, 1767.
 Clerck, Icones t. 44, 1764.
 Cram., Pap. Ex. 2, t. 153, 1779.
 Fab., Syst. Ent. 3, 160, 1793.
 Godt., Enc. Meth. 9, 165, 1819.
 Swains, Zool. Ill. 1, t. 22, 1820.
 Bdl., Sp. Gen. 1, 422, 1836.
 Kirby, Cat. 436, 1871.
 Streck., Cat. 73, 1878.
Hab.—New Mex.; Mex.
377. **Menapia** Feld., Wien. Ent. Monat. 3, 271, 1859.
 Feld., Rei. Nov. Lep. 181, pl. 25, 1865.
 Kirby, Cat. 450, 1871.
 Edw., But. 1, 27, pl. 8, 1871.
 Edw., ♀ l. c. Supp. Not. 1872.
 Str., Lep. pl. 2, f. 4, ♀ 1873.
 Hy. Edw., Pr. Cal. Ac. N. Sci. 5, 165, 1873 *
 Mead, Rep. Wheeler Exp. 5, 743, 1875.
 Streck., Cat. 74, 1878.

- Stretch, Pap. 2, 103, 1882.*
 Hag., Pr. Bost. Soc. N. Hist. 22, 134, 1882.
 Edw., Cat. 15, 1884.
 Edw., But. 3, 1897.
- tau* Scud., Pr. Bost. Soc. N. Hist. 3, 183, 1861.
- ninonia* Bd., Lep. de la Cala. 38, 1869.
- Var. suffusa** Stretch, Pap. 2, 110, pl. 2, 1882.
- Hab.*—Cala., Oreg., W. Terr., Vanc. Isld., Col.
- PIERIS** Schrank.
378. **Amaryllis** Fab., Ent. Syst. 3, 1, 189, 1797.
 Don., Ins. Ind. pl. 28, 1800.
 Edw., Cat. 15, 1884.
 Lint., Pap. 4, 136, 1885.
- josephina* Godt., Enc. Meth. 9, 158, 1819.
 Bd., Spec. Gen. 1, 532, 1836.
- Hab.*—So. Tex., Mex.
379. **Ilai** Godt., Enc. Meth. 9, 142, 1819.
 Poey. Cent. Lep. Cuba pl. 19, 1833.
 Bd., Spec. Gen. 1, 491, 1836.
 Van Duzee, Can. Ent. 21, 39, 1889.
- Var. neumoegeni** Skinner, Ent. News 5, 110, 1894.
- Hab.*—Indian Riv. Fla., Tex., Ariz. (by Morrison), N.Y., Antilles, Sth. Am.
380. **Monuste** Linn., Mus. Lud. Ulr. 237, 1764.
 Linn., Syst. 1, 2, 760, 1767.
 Fab., Syst. Ent. 470, 1775.
 Godt., Enc. Meth. 9, 141, 1819.
 Riley, U. S. Agr. Rep. 117, pl. 10, 1833.*
 Bd., Sp. Gen. 1, 495, 1836.
 Morr., 4, 1862.
 Kirby, Cat. 458, 1871.
 Streck., Cat. 78, 1878.
 Jones, Proc. Liverpool Soc. 37, 240, 1883.
 Edw., Cat. 15, 1884.
 Biol. Cent.-Am. 2, 132, 1887.
- monusta* Cram., 2, pl. 141, f. F, 1779.
- cleomes* Bd.-Lec., 43, pl. 16, 1883.*
- Hab.*—Southn. St., Tex., Mex., Antilles, Cent. and Sth. Amer.
381. **Beckerii** Edw., But. 1, 30, pl. 8, 1871.
 Edw., l. c. 2, pl. 1 of Pieris 1883.*
 Mead, Rep. Wheeler Exp. 5, 745, 1875.
 Edw., Proc. Cal. Ac. N. S. 7, 1876.
 Mead, Psyche, 2, 183, 1878.*
 Streck., Cat. 76, 1878 (under chloridice).
 Hag., Pr. Bost. Soc. N. H. 22, 139, 1882.
 Edw., Cat. 15, 1884.
- Hab.*—Nev., Utah, Cala., Oreg., W. Terr., Col., Ariz.
382. **Sisymbri** Bd., Ann. Soc. Ent. Fr. 2, 10, 284, 1852.
 Kirby, Cat. 451, 1871.
 Mead, Psyche 2, 184, 1878.*
 Streck., Cat. 76, 1878.
 Edw., But. 2, pl. 1 of Pieris 1883.*
- Hab.*—Cala., Nev., Col., Ariz.
383. **Nelsoni** Edw., But. 2, pl. 1 of Pieris 1883.
 Edw., Cat. 16, 1884.
- Hab.*—St. Michael's, Alaska.
384. **Occidentalis** Reak., Pr. E. Soc. Phil. 6, 133, 1866.
 Kirby, Cat. 462, 1871.
 Mead, Psyche 2, 184, 1878.
 Streck., Cat. 76, 1878.
 Edw., Cat. 16, 1884.
 H. Edw., Ent. Am. 3, 162, 1887.*
- Var. calyce** Edw., Tr. A. E. Soc. 3, 189, 1870.
- leucodice* Bd., (not Eversm.) Ann. Soc. Ent. Fr. 2, 10, 284, 1852.
- Hab.*—Rocky Mts. to Pac., Cala. to Oreg., Br. Am.
385. **Protodice** Bd.-Lec., 42, pl. 17, 1833.
 Riley, Sec. Mo. Ent. Rep. 104, 1870.*
 Kirby, Cat. 451, 1871.
 Saund., Can. Ent. 5, 42, 1873.

- Streck., Cat. 76, 1878.
 Riley, U. S. Agr. Rep. pl. 10, 114, 1883.*
 Edw., Cat. 16, 1884.
 French, But. 107, f. 23-25, 1885.*
 Mayn., But. 43, pl. 5, f. 65, 65a, 1886.
 Biol. Cent.-Am. 2, 130, 1887.
 Seud., But. 2, 1163, pl. 7, f. 1, 2, 1889.*
- nasturtii* Edw., (not Boisdu.) Pr. E. Soc. Phil. 501, 1864.
- Var. vernalis** Edw., Pr. E. Soc. Phil. 2, 501, 1864.
 Edw., But. 1, 33, pl. 9, 1871.
 Bean, Can. Ent. 9, 201, 1877.*
- Hab.*—Mid., South., Westn. St. to Pac., Br. Am.
386. **Napi** Linn., Faun. Suec. 271. 1761.
 Linn., Syst. Nat. 1, 2, 760, 1767.
 Seba, Rer. Nat. Thes. 4, t. 2, 1765.
 Esper, Schmett. 1, 1, t. 3, 1777.
 Hub., Eur. Schmett. 1, f. 406, 407, 1793-1827.
 Godt., Enc. Meth. 9, 161, 1819.
 Bdl., Sp. Gen. 1, 518, 1836.
 Stgr., Cat. 3, 1871.
 Kirby, Cat. 453, 1871.
 Streck., Lep. Rhop.-Het. t. 8, 61, 1873.
 Streck., Cat. 74, 1878.
 Edw., Cal. 16, 1884.
 French, But. 110, 1885.
 Edw., Pap. 1, 95, 1881.
- Var. bryoniæ** Ochs., Eur. Schmett. 1, 2, 151, 1808.
 Edw., Pap. 1, 86, pl. 2, f. 4, 1881.
- Hab.*—Alaska.
- Var. hulda** Edw., Tr. A. E. Soc. 2, 370, 1869.
 Edw., Pap. 1, pl. 2, f. 5.
- Hab.*—Kodiak, Alaska.
- Var. venosa** Scud., Pr. Bost. Soc. N. Hist. 8, 182, 1861.
 Str., Lep. 8, f. 2, 3, 1874.
 Edw., Pap. 1, pl. 2, f. 6, 1881.
 Scud., Mem. Bost. Soc. N. H. 4, 66, 1887.
- Hab.*—Cala. to Br. Col.
- Aber. flava** Edw., l. c. 98, 1881.
- Hab.*—Cala.
- Var. oleracea-hiemalis** Harr., N. E. Farm. 8, 402, 1829.
 Harr., in Agas. L. Supr. 386, 1850.*
 Edw., l. c. pl. 2, f. 8, 1881.
 Riley, U. S. Agr. Rep. pl. 1, 108, 1883.*
- Var. borealis** Gro., Buff. Bull. 1, 185, 1873.
 Edw., l. c. pl. 2, f. 9, 1881.
- Hab.*—Labr., Antici.
- Var. frigida** Scud., l. c. 8, 181, 1861.
- Hab.*—Boreal Am.
- Var. virginensis** Edw., Tr. A. E. Soc. 3, 13, 1870.
 Edw., But. 1, 34, pl. 9, 1871.
 Edw., Pap. 1, 95, pl. 3, f. 17, 18, 1881.
 French, But. 111, 1885.
 Edw., But. 3, Suppl. 1897.
- Hab.*—N. Y., Ont., W. Va.
- Var. acadica** Edw., Pap. 1, 87, pl. 3, f. 10, 11, 1881.
- Hab.*—N. F'land.
- Var. pallida** Scud., l. c. 183, 1861.
 Str., Lep. 8, f. 5, ♀.
 Edw., l. c. pl. 3, f. 12, 13.
- nasturtii* Bd., Lep. de la Cala. 38, 1869.
- Hab.*—Cala. to Br. Col.
- Var. castoria** Reak., ♂, Pr. A. N. Sci. Phil. 31, 1866.
 Str., Lep. 8, f. 4, 1874.
 Edw., l. c. pl. 3, f. 14, 1881.
- reseda* Bd., Lep. de la Cala. 39, 1869.
- Hab.*—Cala. to Br. Col.
- Var. oleracea-æstiva** Harr., in Agas. L. Supr. 386, pl. 7, f. 1, ♀, 1850.
 Harr., Ins. Mass. 270, f. 99,
 Edw., l. c. pl. 3, f. 15, 16,
 Fern., But. Me. 25, 1884.*
 Mayn., But. 47, pl. 6, f. 64, 64a, 1886.
 Scud., Mem. Bost. Soc. N. H. 4, 65, 1887.
 Scud., But. 2, 1191, pl. 7, f. 3, 1889.*

casta Kirby, Faun. Bor. Am. 4, pl. 3, f. 1, 1837.

cruciferarum Bd., Sp. Gen. 1, 519, ♂ 1836.

Hab.—N. E. to Mich., Ont., Queb.

387. **Ochsenheimeri** Staud., Stett. Ent. Zeit. 199, 1886.

Romanoff, Mem. Sur. les. Lep. 4, 220, pl. 14, f. 1, *a*, *b*, 1890.

Skinner, Can. Ent. 29, 156, 1897.

Hab.—Asia, Alaska.

388. **Rapae** Linn., Syst. Nat. Ed. 10, 1, 468, 1758.

Linn., Faun. Suec. 270, 1761.

Linn., Syst. Nat. Ed. 12, 759, 1767.

Esper, Schmett. 1, t. 3, 1777.

Hub., Eur. Sch. 1, 404, 1798.

Ochs., 1, 2, 146, 1808.

Godt., Enc. Meth. 9, 161, 1819.

Bdl., Sp. Gen. 1, 520, 1836.

Duncan, Nat. Lib. 3, 117, t. 7, 1835.

Berge, Schmett. 94, t. 30, 1842.

Stgr., Cat. 3, 1871.

Kirby, Cat. 454, 1871.

Streck., Lep. Rhop.-Het. 63, t. 8, 1873.

Streck., Cat. 75, 1878.

Edw., Cat. 18, 1884.

French, But. 114, f. 28-30, 1885.*

Scud., But. 2, 1205, pl. 7, f. 10, 11, 1889.*

Mayn., But. 47, pl. 5, f. 62, 63*a*, 1886.

marginalis Scud., Proc. Bost. Soc. Nat. Hist. 8, 183, 1861.

Morris, Syn. 321, 1862.

Kirby, Cat. 454, 1871.

Edw., Syn. N. Am. Lep. 5, 1872.

Streck., Lep. Rhop.-Het. 63, t. 8, 1873.

Edw., Cat. 18, 1884 (var. *marginalis*).

greka Reak., Proc. Acad. Nat. Sci. Phil. 238, 1866.

Kirby, Cat. 455, 1871.

Edw., Syn. Lep. N. Am. 4, 1872.

Streck., Lep. Rhop.-Het. 63, t. 8, 1873.

Edw., Cat. 18, 1884 (var. *greka*).

resedæ Bdl. Lep. de la Cala, 39, 1869.

Var. nov.-angliæ Scud., Can. Ent. 4, 79, 1872.

Scud., But. 2, pl. 7, f. 11, 1889.

Var. immaculata Skinner and Aaron, Can. Ent. 21, 128, 1889.

Cockerell, Ent. 99, 1889.

Hab.—Can., Br. Am. to Pacific, N. E. to Cala., Europe.

NATHALIS Boisduval.

389. **Iole** Bd., Sp. Gen. 1, 589, 1836.

Morris, Syn. 22, 1862.

Reak., Proc. Ent. Soc. Phil. 6, 134, 1866.

Kirby, Cat. 504, 1871.

Mead, Rep. Wheeler Exp. 5, 747, 1875.

Hy. Edw., Proc. Cal. Ac. N. Sci. vii, 1876.

Streck., Cat. 78, 1878.

Edw., Cat. 18, 1884.

Scud., But. 3, 1842, 1889.

Biol. Cent.-Am. 2, 172, t. 64, f. 15-18, 1889.

irene Fitch, Tr. N. Y. St. Ag. Soc. 485, 1856.

felicia Poey, Mem. Cuba 1, 443, t. 18, 1851.

luteolus Reck., Proc. Ent. Soc. Phil. 2, 350, 1863.

Kirby, Cat. 504, 1871.

Hab.—Ill., Mo. to Cala., N. Mex., Ariz., Tex., Mex., Cent. Am. Antilles.

ANTHOCHARIS Boisduval.

390. **Lanceolata** Bd., Ann. Soc. Ent. Fr. 2, 10, 284, 1852.

Luc., Rev. Zoo. 338, 1852.

Morr., 4, 1862.

Scud., Proc. Bost. Soc. Nat. Hist. 12, 406, 1869.

Kirby, Cat. 509, 1871.

Streck., Lep. Rhop.-Het. 49, t. 6, 1873.

Hy. Edw., Proc. Cal. Ac. N. Sci. vii, 168, 1876.

Mead, Ptsche 2, 183, 1878.*

Streck., Cat. 77, 1878.

Edw., Cat. 18, 1884.

Edw., But. pl. 1, Anth. 1888.*

Lembert, Ent. News 6, 138, 1895.*

edwardsii Behr., Tr. A. E. Soc. 2, 304, 1869.

Kirby, Cat. 508, 1871.

Hab.—Or., Cala., Nev., Ariz.

391. **Creusa** Doubl.-Hew., Gen. Di. Lep. pl. 7, 1847.
Kirby, Cat. 506, 1871.
Hy. Edw., Proc. Cal. Ac. N. Sci, vii, 168, 1876.
Streck., Cat. 77, 1878.
Edw., Cat. 18, 1884.
Hab.—So. Cala., Ariz., Utah.
392. **Olympia** Edw., Tr. Am. Ent. Soc. 3, 266, 1871.
Edw., But. 2, pl. 1 of Anth. 1874.
Streck., Lep. Rhop.-Het. 64, t, 8, ♂, 1874.
Hy. Edw., Cal. Ac. N. Sci. vii, 1876.
Streck., Cat. 78, 1878.
Edw., Cat. 18, 1884.
Scud., But. 3, 1844, 1889
Edw., But. 3, pl. 2, Anth. 1889.
Edw., But. 3, Supp. 1897.*
Hab.—W. Va., Ind., Neb., Col., Minn., Summit, N. W. T.
Var. rosa Edw., Pap. 2, 45, 1882.
Edw., But. 3, pl. 2, Anth. 1889.
Hab.—West Texas.
393. **Ausonides** Bd., Ann., Soc. Ent. Fr. 2, 19, 286, 1852.
Lucas, Rev. Zool. 340, 1852.
Edw., Proc. Ent. Soc. Phil. 2, 81, 1863.
Kirby, Cat. 506, 1871.
H. Edw., Proc. Cal. Ac. N. Sci. 5, 1874.
Edw., But. 2, pl. 1 of Anth. 1874.
Mead, Rep. Wheeler Exp. 1, 747, 1875.*
Streck., Cat. 77, 1878 (*var ausonides*).
Edw., Cat. 19, 1884.
Edw., But. Supp. 1897.
coloradensis H. Edw., Pap. 1, 1881.
Hab.—Col. to Cala., Ariz., Br. Am., Alaska, Vanc. Isld.
Var. hyantis Edw., Tr. A. E. Soc. 3, 205, 1871.
H. Edw., Pr. Cal. Ac. N. Sci. 1878.
Mead, Psyche 2, 183, 1878.*
Streck., Cat. 77, 1878 (*under creusa*).
Edw., Cat. 18, 1884.
Hab.—Col., Cala., Ariz.
394. **Cethura** Feld., Reise Nov. Lep. 2, 182, pl. 25, 1865.
Kirby, Cat. 508, 1871.
Streck., Cat. 78, 1878.
Edw., Cat. 19, 1884.
cooperi Behr., Tr. A. E. Soc. 2, 304, 1869.
Edw., But. 1, 38, pl. 10, 1870.
angelina Bd., Lep. de la Cala. 40, 1869.
Hab.—Or., Cala., Ariz., Utah.
Var. morrisoni Edw., Pap. 1, 143, 1881.
Hab.—Kern River, Cala.
395. **Sara** Bd., Ann. Soc. Ent. Fr. 2, 10, 285, 1852.
Lucas, Rev. Zool. 21, 1852.
Morris, Syn. 21, 1862.
Kirby, Cat. 508, 1871.
Edw., But. 1, 39, pl. 11, 1871.
Streck., Cat. 77, 1878.
Edw., Cat. 19, 1884.
Hy. Edw., Pr. Cal. Ac. N. Sci. 7, 169, 1878.
Edw., Can. Ent. 24, 52, 1892.*
Lembert, Ent. News 6, 137, 1895.
Edw., But. Supp. 1897.*
thoosa Scud., ♀ Hayden Bull. 4, 257, 1878.
Edw., ♂, ♀, Can. Ent. 11, 87, 1879.
Streck., Cat. 184, 1878.
Edw., Cat. 19, 1884.
flora Wright, Can. Ent. 24, 154, 1892.
Var. reakerlii Edw., Tr. A. E. Soc. 2, 369, 1869.
Edw., But. 1, 37, pl. 10, 1870.
Edw., Can. Ent. 24, 52, 1892.*
Lembert, Ent. News 6, 137, 1895.*
Edw., But. Supp. 1897.
stella Edw., Can. Ent. 11, 87, 1879.
Hab.—Vanc., Wash., Cala., Oreg.
Var. julia Edw., Tr. A. E. Soc. 4, 61, 1872.
Edw., But. pl. 2 of Anth. 1878.
Str., Lep. pl. 6, f. 6, 7, 1873.
Str., Cat. 78, 1878.
Edw., Cat. 19, 1884.
Hab.—Col., N. Mex., Ariz., Mont., Utah.

396. **Pima** Edw., Can. Ent. 158, 1888.
Edw., But. 3, pl. 2, Anth. 1889.

Hab.—Ariz.

397. **Genutia** Fab., Ent. Syst. 3, 193, 1793.

Bd., Sp. Gen. 1, 565, 1836.

Morris, Syn. 20, 1862.

Kirby, Cat. 508, 1871.

Streck., Cat. 77, 1878.

Edw., l. c. 2, pl. 2 of Anth. 1878.

Edw., Cat. 19, 1884.

French, But. 118, 1885.

Edw., But. 3, pl. 1, Anth. 1888.*

Edw., Can. Ent. 24, 109, 1892.*

Scud., But. 2, 1147, pl. 15, f. 13, 15, 1889.*

midea Hub., Ex. Schmiett. 1806, 1816.

Hab.—Conn., N. Y. to Va., West. St., Texas.

CATOPSILIA Hubner.

398. **Eubule** Linn., Syst. Nat. 2, 743, 1766.

Cram., Pap. Ex. 2, 120, 1779.

Sm.-Abb., pl. 5, 1797.*

Bd.-Lec., 74, pl. 24, 1833.*

Morris, Syn. 1862.

Kirby, Cat. 482, 1871.

Butl., Lep. Ex. 58, pl. 22, 1874.

Streck., Cat. 79, 1878.

Edw., Tr. A. E. Soc. 9, 12, 1881.

Edw., Cat. 19, 1884.

Aaron, Pap. 4, 172, 1885.

French, But. 119, 1886.

Mayn., But. 43, pl. 4, f. 55, 55a, 1886.

Biol. Cent.-Am. 2, 141, 1887.

Scud., But. 2, 1053, pl. 15, f. 14, 16, 1889.*

sennæ Linn., Syst. Nat. 1, 2, 764, 1769.

Butl., Lep. Ex. 59, pl. 23, 1874.

Edw., Tr. Am. Ent. Soc. 9, 11, 1881.

Aaron, Pap. 4, 172, 1884.

Edw., Cat. 20, 1884.

Scud., But. 3, 1831, 1889.*

drya Fabr., Syst. Ent. 478, 1775.

marcellina Cram., Pap. Ex. 2, 163, 1779.

Godt., Enc. Meth. 9, 92, 1819.

Don., Nat. Rep. 1, t. 6, 1823.

Bdl., Sp. Gen. 1, 615, 1836.

Bates, Jn. Ent. 1, 238, 1861.

Morris, Syn. 26, 1862.

Hab.—N. Y., R. I. to Fla., Iowa, Ohio to So. Cala., Ariz., Mex., Cent. and Sth. Am., Antilles.

399. **Statira** Cram., Pap. Ex. 2, t. 120, C. D. 1779.

Swains, Zool. Ill. 1, t. 5, 1820-21.

Kirby, Cat. 485, 1871.

Dyar, Ent. News 1, 105, 1890.

Biol. Cent.-Am. 2, 147, 1889.

fabia Fabr., Ent. Syst. Supp. 426, 1798.

evadne Godt., Enc. Meth. 9, 98, 28, 1819.

Boisd., Sp. Gen. 1, 628, 22, 1836.

alcmeone Cram., Pap. Ex. 2, t. 143, E 1779.

Hab.—Fla., Antilles, Cent. and Sth. Am.

400. **Neleis** var **floridensis** Neum., Can. Ent. 23, 122, 1891.

Hab.—Indian River, Florida.

401. **Philea** Linn., Syst. Nat. 2, 764, 1776.

Butl., l. c. 02, pl. 35, 1874.

Edw., l. c. 9, 13, 1881.

Edw., Cat. 20, 1884.

Jones, Proc. Liverpool Soc. 37, 40, pl. 4, f. 9, 1883.*

Biol. Cent.-Am. 2, 140, 1887.

Hy. Edw., Ent. Am. 3, 162, 1887.*

Hab.—Tex., Wis., Ill., Mex., Cent. and Sth. Am.

402. **Agarithe** Bd., Sp. Gen. 1, 623, 1836.

Butl., l. c. 121, pl. 45, 1874.

Edw., l. c. 9, 13, 1881.

Edw., Cat. 20, 1884.

Gund., Pap. 1, 112, 1881.

Lint., Pap. 4, 137, 1885.

Aaron, Pap. 4, 174, 1885.

Lint., Pap. 4, 137, 1885.

Biol. Cent.-Am. 2, 145, 1889.

- Var. maxima** Neum., Can. Ent. 23, 122, 1891.
- Hab.* Indian River, Fla.
- Hab.*—Fla., Tex., Kans., Ariz., Neb., S. Ill., Mex., Cent. and Lth Am., Antilles.
403. **Argante** Fabr., Sys. Ent. 470, 1775.
 Fabr., Ent. Syst. 1, 189, 1793.
 Hub., Sam. Ex. Schmett. 1806-1816.
 Godt., Enc. Meth. 9, 92, 1819.
 Swains. Zool. Ill. 1, t. 52, 1820-21.
 Bdl., Sp. Gen. 1, 622, 1836.
 Lucas, Lep. Ex. 81, t. 40, 1835.
 Kirby, Cat. 484, 1871.
 Butl., Lep. Ex. 119, t. 44, 1872.
 Streck., Cat. 78, 1878.
 Biol. Cent.-Am. 2, 144, 1887.
- hersilia* Cram., Pap. Ex. 2, 173, 1779.
 Herbst, Nat. Schmett. 5, 192, t. 110, 111, 1792.
 Butl., Lep. Exot. 106, t. 39, 1872.
- cypriis* Cram., Pap. Ex. 2, t. 99, 1779.
 Hub., Sam. Ex. Schmett. 1806-1816.
- pallideflavus* Geoeze, Ent. Beyt. 3, 1, 185, 1779.
- larra* Fabr., Ent. Syst. 428, 1798.
 Godt., Enc. Meth., 9, 94, 1819.
- volcanica* Perry, Arcana 1811.
- cnidia* Godt., Enc. Meth. 9, 93, 1819.
- xantha* Sepp, Surin. Vlind. 2, 75, 1848
- Hab.*—Fla., Tex., Mex., Cent. and Sth. Am., Antilles.
- KRICOGONIA** Reakirt.
404. **Lyside** Godt., Enc. Meth. 9, 98, 1819.
 Figured in Hub., Zutr. Exot. Schmett. 843, 844, 1818.
 Men. Nouv. Mem. Soc. Nat. Mosc. 3, 119, 1834.
 Bdl., Sp. Gen. 1, 603, 1836.
 Morris, Syn. 24, 1862.
 Dbldy., Hew. Gen. Siur. Lep. 1, 71, 1847.
- Reak., Proc. Ent. Soc. Phil. 2, 356, 1863.
 Kirby, Cat. 487, 1871.
 Streck., Cat. 79, 1878.
 Edw., Cat. 20, 1884.
 French, But. 126, 1885.
 Aaron, Pap. 4, 174, 1885.
 Biol. Cent.-Am. 2, 150, 1889.
- Var. terissa** Luc., Rev. Zool. 429, 1852.
 Kirby, Cat. 487, 1871.
 Edw., Cat. 20, 1884.
 Lint., Pap. 4, 138, 1885.
 Aaron, Pap. 4, 174, 1885.
 French, But. 127, 1885.
- lyside* Hubn. Zutr. Ex. Schmett. f. 847 848, 1837.
- Hab.*—Tex., Fla., Mex., Cent. Am., Sth. Am., Antilles.
405. **Fantasia** Butl., Tr. Ent. Soc. Lond. 170, pl. 7, f. 6, 1871.
 Edw., Cat. 20, 1884.
 Lint., Pap. 4, 138, 1885.
 Aaron, Pap. 4, 174, 1885.
- Hab.*—Texas.
406. **Lanice** Lint., Pap. 4, 138, 1885.
 Edw., Cat. 20, 1884.
 Aaron, Pap. 4, 174, 1885.
- Hab.*—Rio Grande, Tex.
407. **Unicolor** Godam.-Sal., Biol. Cent.-Am. 2, 151, 1889.
 Skinner, Ent. News 6, 112, 1895.
- Hab.*—Comal Co., Tex.; Mex.
- NOTE.—I believe the names listed under *Kricogonia* will eventually prove to be but varieties of a single species
- COLIAS** Fabricius.
408. **Eurydice** Bd., Ann. Soc. Ent Fr 3, 32, 1855.
 Edw., But. 1, 53, pl. 16, 1870.
 Kirby, Cat. 490, 1871.
 Hy. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.*
 Streck., Cat. 80, 1878.
 Edw., Can. Ent. 15, 224, 1883.*

- Edw., Cat. 20, 1884.
 Edw., Can. Ent. 17, 109, 1885.*
 Edw., But. 3, pl. 1, *Colias* 1887.*
- wosnesenski* Men., Cat. Mus. Petr. 1, 77,
 pl. 1, 1855.
 Morris, Syn. 32, 1862.
- ♀ *rhodoceri lorguini* Bd., l. c. 3, 52, 1855.
- helena* Reak., Proc. Ent. Soc. Phil. 2, 358,
 1863.
 Kirby, Cat. 489, 1863.
- Var. amorphæ** Hy. Edw., Pr. Cal. Ac.
 N. Sci. 6, 1876.
 Edw., But. 3, pl. 1, *Colias* 1887.
- Var. bernardino** Edw., But. 3, pl. 1,
Colias 1887.
- Hab.*—Cala., Ariz., Oreg.
409. **Caesonia** Stoll, Supp. Cram. pl. 41,
 f. 2, 2b, 1790.
 Hub., Sam. Ex. Schmett. 1806-24.
 Godt., Enc. Meth. 9, 98, 1819.
 Bd.-Lec., 67, pl. 22, 1833.*
 Lucas, Pap. Ex. 79, t. 39, 1835.
 Bd., Sp. Gen. 1, 635, 1836.
 Dbldy.-Hew., Gen. 74, 1847.
 Morr., 27, 1862.
 Reak., Proc. Ent. Soc. Phil. 2, 358, 1863.
 Kirby, Cat. 489, 1871.
 H. Edw., Proc. Cal. Acad. 1874.
 Streck., Cat. 80, 1878.
 Edw., Cat. 20, 1884.
 French, But. 127, f. 32, 1885.
 Edw., Can. Ent. 20, 21, 1888.*
 Seud., But. 3, 1836, 1889.*
- caroliniana* Petiv., Gazoph. 2, t. 7, 1702.
- Var. rosea** McNeill, Can. Ent. 21, 43,
 1889.
- Hab.*—Miss. Valley, Texas to Cala.,
 Ontario, Minn., Missouri, Mex.,
 Cent. and Sth. Am., Antilles.
410. **Meadii** Edw., Tr. A. E. Soc. 3, 267,
 1871.
 Edw., But. 1, 60, pl. 19, 1872.
 Mead., Rep. Wheeler Exp. 5, 750, 1875.
 Streck., Cat. 83, 1878.
- Hag., Proc. Bost. Soc. Nat. Hist. 22,
 175, 1883.
 Edw., Cat. 21, 1884.
 Edw., Can. Ent. 21, 41, 1839.
 Edw., But. 3, Supp. 1897.*
- Hab.*—Col., Mont., N. Mex., N. W. Terr.
411. **Elis** Streck., Proc. Acad. Nat. Sci.
 Phil. 24, 1885.
 Streck., Ent. Am. 1, 55, 1885.
 Bean, Psyche 7, 1895.
 Edw., But. 3, Supp. 1897.*
- Hab.*—Brit. Col., Alberta.
412. **Hecla** Lef., Ann. Soc. Ent. Fr. 5,
 383, pl. 8, 1836.
 Kirby, Man. Eur. But. 17, 1862.
 Stgr., Cat. 6, 1871.
 Kirby, Cat. 492, 1871.
 Streck., Cat. 83, 1878.
 Hag., Proc. Bost. Soc. Nat. Hist. 32,
 176, 1883.
 Edw., Cat. 21, 1884.
 Schilde, Ent. Nachr. 10, 335, 1884.
- Var. glacialis** McLach., Jour. Linn. Soc.
 14, 108, 1878.
- Var. hela** Streck., Br. Bull. 3, 33, 1880.
- Var. pallida** Skinner and Men., Proc.
 Acad. Nat. Sci. Phil. 156, 1892.
 Skinner, Ent. News 3, 49, f. 4, 1892.
 Bean, Psyche 7, 219, 1895.
 Skinner, Psyche 7, 224, 1895.
- Hab.*—Arctic America and Europe.
413. **Boothii** Curt., App. Ross Exp. 65,
 pl. A, f. 3-5, 1835.
 Herr.-Sch., Schmett. Eur. 1, f. 39, 40,
 1843.
 Gn., Ann. Soc. Ent. Fr. 198, 1864.
 Stgr., Stett. Ent. Zeit. 47, 1866.
 Stgr., Cat. Eur. Lep. 5, 1871.
 Kirby, Cat. 493, 1871.
 Streck., Cat. 84, 1878.
 Edw., Cat. 21, 1884.
- Var. chione** Curt., l. c. pl. A, f. 6, 1835.
 Geddes, Can. Ent. 21, 59, 1889.
- Hab.*—Boothia-Felix.

414. **Eurytheme** Bdl., Ann. Soc. Ent. Fr. 286, 1852.
 Morris, Syn. 29, 1862.
 Reak., Proc. Ent. Soc. Phil. 2, 136, 1866.
 Edw., But. 1, t. 3, Col. 1869.
 Kirby, Cat. 493, 1871.
 Hy. Edw., Proc. Cal. Acad. Sc. 5, 162, 1873.
 Mead, Wheeler's Rep. 5, 748, 1875.
 Streck., Cat. 83, 1878 (under *chrysotheme* Esp.).
 Edw., But. 2, pl. 4, Col. 1878.*
 Boll, Deuts. Entom. Zeitz. 24, 249, 1880.
 Sprague, Can. Ent. 100, 1880.
 Edw., Pap. 3, 182, 1883.
 Hag., Proc. Bost. Soc. Nat. Hist. 22, 173, 1883.
 Edw., Cat. 21, 1884.
 Aaron, Pap. 4, 174, 1885.
 French, But. 128, 1885.*
 Scud., But. 2, 1126, pl. 15, f. 4. 7, 1889.*
 Biol. Cent.-Am. 2, 151, 1889 (under *chrysotheme* Esp.).
amphidusa Bdl., Ann. Soc. Ent. Fr. 286, 1852.
edusa var. *californiana* Men., Cat. Mus. Petr. Lep. 1, 80, 1855.
 Hab.—Br. Am., Mid. South and Westn. States, Mex.
 Var. *ariadne* Edw., Tr. Am. Ent. Soc. 3, 12, 1870.
 Kirby, Cat. 494, 1871.
 Edw., But. 2, pl. 4, *Colias* 1878.
 Var. *keewaydin* Edw., But. 1, 49, pl. 15, 1869.
 Edw., But. 2, pl. 4, *Colias* 1878.
 Var. *pallida* Cockerell, West Am. Scientist 217, 1887.
 Var. *intermedia* Cockerell, West Am. Scientist 42, 1888.
 Var. *autumnalis* Cockerell, West Am. Scientist 42, 1888.
 Var. *eriphyle* Edw., Trans. Am. Ent. Soc. 5, 202, 1876.
 Streck., Cat. 83, 1878 (var. of *philodice*).
 Hag., Proc. Bost. Soc. Nat. Hist. 22, 169, 1883.
 Edw., Can. Cat. 22, 169, 1883.
 Edw., Cat. 22, 1884.
hagenii Edw., Pap. 3, 163, 1883.*
 Edw. Cat. 21, 1884.
 Edw., Can. Ent. 19, 170, 1887.*
 Edw., Can. Ent. 19, 218, 1887.
 Hab.—Br. Col., Brit. Am., Lake Sup. Col., Mont., Utah.
 415. **Philodice** Godt., Enc. Meth. 9, 100, 1819.
 Swains., Zool. Ill. 2, 2, t. 60, 1831.
 Bdl.-Lec., Lep. Am. Sept. 64, t. 21, 1833.
 Bdl., Sp. Gen. 1, 647, 1836.
 Lucas, Lep. Ex. 78, t. 39, 1835.
 Harris, Ins. Inj. Veg. 272, f. 100, 102, 1862.
 Morris, Syn. 29, 1862.
 Reak., Proc. Ent. Soc. Phil. 4, 218, 1865.
 Saund., Can. Ent. 1, 54, 1869.
 Riley, 2nd. Mo. Ent. Rep. 116, 1870.
 Kirby, Cat. 494, 1871.
 Mead, Wheeler's Rep. 748, 1875.
 Edw., But. 2, t. 2, 3, *Colias* 1876.
 Streck., Cat. 82, 1878.
 Hag., Proc. Bost. Soc. Nat. Hist. 22, 167, 174, 1883.
 Edw., Cat. 21, 1884.
 French, But. 133, 1885.*
 Scud., But. 2, 1111, pl. 7, f. 6, 8, 9, 1889.*
 Biol. Cent.-Am. 2, 152, 1889.
 Scud., Psyche 3, 69, 1892.*
palæno Cram., Pap. Exot. 1, t. 14, 1774.
europome Steph., Ill. Brit. Ent. Haush. 1, 10, t. 1, 1828.
 Swains., Zool. Ill. 2, 2, t. 70, 1831.
 Humph., West. Brit. But. 17, t. 3, 1848.
chrysotheme, nastes et santes Fitch. Rep. N. Y. State Agric. Soc. 8, 378, 1854.
 Var. *anthyale* Hub., Zutr. Exot. Schmett. f. 307, 308, 1823.
 Var. *albinic* Edw., But. 2, t. 2, *Colias* 1876.

- Ehrman, Ent. News 1, 93, (♂) id. 130, 1890.
- pallidice* Scud., But. 2, 1115, 1889.
- Var. *melanic* Edw., But. pl. 3, *Colias* 1876.
- nigridice* Scud., But. 2, 1114, 1889.
- Aber. *virida* Streck., Cat. 82, 1884.
- Aber. *hybrida ex philodice et eurytheme* Edw., But. 2, t. 3, *Colias* 1876.
- Var. *luteicincta* Wolcott, Can. Ent. 25, 104, 1893.
- Var. *miscidice* Scud., But. 2, 1115, 1889.
- Hab.—Canada, Atl. States, Miss. Valley, Mex., Cent. Am.
416. **Harfordii** H. Edw., Proc. Cal. Ac. Nat. Sci. 7, 1877.
- Streck., Cat. 83, 1878 (under *Chrysotheme*).
- Edw., Cat. 22, 1884.
- Edw., But. 3, pl. 2, *Colias* 1887.*
- Var. *barbara* H. Edw., Proc. Cal. Ac. Nat. Sci. 6, 1877.
- Edw., Pap. 4, 2, 1884.*
- Edw., But. 3, pl. 2, *Colias* 1887.
- Hab.—Cala.
417. **Occidentalis** Scud., Proc. Bost. Soc. Nat. Hist. 9, 109, 1862.
- Edw., But. 1, t. 7, *Col.* 1871.
- Kirby, Cat. 493, 1871.
- Streck., Cat. 82, 1878 (under *philodice*).
- Edw., Cat. 22, 1884.
- Hab.—Fort Simpson, Br. Am., Vanc.
- Var. *chrysomelas* H. Edw., Proc. Cal. Ac. Nat. Sci. 7, 1877.
- Edw., But. 3, pl. 4, *Colias* 1887.
- Hab.—North Cala., Utah.
418. **Christina** Edw., Pr. E. Soc. Phil. 2, 79, 1863.
- Edw., But. 1, 43, pl. 13, 1868.
- Streck., Cat. 81, 1878 (under *pelidne*).
- Edw., Pap. 4, 30, 1884.
- Lyman, Can. Ent. 16, 5, 1884.
- Edw., Cat. 22, 1884.
- Edw., Can. Ent. 24, 110, 1892.
- Edw., But. 3, Supp. 1897.*
- Hab.—Brit. Am., Mt. Judith, Mont.
- Var. *astræa* Edw., Tr. A. E. Soc. 4, 61, 1872.
- Edw., Pap. 4, 30, 1884.
- Var. *pallida* Lyman, Can. Ent. 19, 6, 1884.
- Cockerell, Ent. 128, 1889.
- Hab.—Yellowstone and Mt. Judith, Mont., Br. Am.
419. **Alexandra** Edw., Pr. E. Soc. Phil. 2, 14, pl. 11, 1863.
- Reak., Proc. Ent. Soc. Phil. 6, 135, 1866.
- Edw., But. 1, 41, pl. 12, 1868.
- Kirby, Cat. 494, 1871.
- Mead, Wheeler's Rep. 5, 749, 1875.*
- Streck., Cat. 81, 1878.
- Edw., Cat. 22, 1884.
- Hag., Proc. Bost. Soc. Nat. Hist. 22, 156, 1883.*
- Edw., Can. Ent. 19, 226, 1887.
- Edw., But. 3, Supp. 1897.*
- Hab.—Col., Mont., Br. Am.
- Var. *edwardsii* Behr, But. N. Am. 1, 55, pl. 17, 1870.
- Kirby, Cat. 494, 1871.
- Streck., Cat. 82, 1878.
- Edw., Cat. 22, 1884.
- Edw., Can. Ent. 19, 229, 1887.
- Var. *alba* Streck., Cat. 81, 1878.
- pallida* Cockerell, Ent. 128, 1889.
- Hab.—Nev., Utah, Cala., Br. Am., Lake Sup. (Can. Ent. 18, 205, 1886).
- Var. *emilia* Edw., Tr. A. E. Soc. 3, 12, 1870.
- Kirby, Cat. 494, 1871.
- Streck., Cat. 82, 1878.
- Edw., Cat. 22, 1884.
- Hab.—Oregon, Br. Col.

420. **Interior** Scud., Proc. Bost. Soc. Nat. Hist. 9, 108, 1862.
 Kirby, Cat. 493, 1871.
 Streck., Cat. 81, 1878 (var. of *pelidne*).
 Edw., Cat. 23, 1884.
 Fern., But. Me. 32, 1884.
 French, But. 135, 1885.
 Fletcher, Ent. Am. 4, 159, 1888.*
 Scud., But. 2, 1105, pl. 7. f. 7. 11, 1889.*
 Lyman, Can. Ent. 29, 249, 1897.*
 Lyman, Can. Ent. 30, 49, 1898.
- philodice* var. *laurentina* Scud., Proc. Bost. Soc. Nat. Hist. 18, 4, 1876.
- Hab.*—Cape Breton Isld., Lower St. Lawrence, Queb., Ont., Nepigon River, Saskatch., Me., Newf'd, Adirondacks.
421. **Scudderii** Reak., Pr. E. Soc. Phil. 4, 217, 1865.
 Kirby, Cat. 496, 1871.
 Edw., But. 1, 59, pl. 19, 1872.
 Mead., Rep. Wheeler Exp. 5, 749, 1875.
 Streck., Cat. 81, 1878 (under *pelidne*).
 Edw., Cat. 23, 1884.
 Edw., But. Supp. 1897.*
- Hab.*—Col., Mont., Br. Col., Br. Am. (by Geddes).
422. **Pelidne** Bd., Icones pl. 8, 1832.
 Bd.-Lec., 66, 1833.
 Bd.-Lec., Sp. Gen. 1, 644, 1836.
 Herr.-Sch., Schmiett. Eur. t. 7, f. 35, 36, t. 8, f. 43, 44, 1843.
 Freyer, Neue Beit. 6, t. 511, 1831-1838.
 Men., Cat. Mus. Petr. Lep. 1, 84, 1855.
 Mosch., Wein. Monat. 4, 349, 1860.
 Morris, Syn. 30, 1862.
 Kirby, Cat. 493, 1871.
 Edw., But. 2, pl. 1 of *Colias* 1874.
 Streck., Cat. 81, 1878.
 Edw., Cat. 23, 1884.
- labradorensis* Scud., Proc. Bost. Soc. Nat. Hist. 9, 107, 1862.
- Hab.*—Labr., Ungava Bay, Arctic Eur.
- Var. skinneri** Barnes, Can. Ent. 29, 39, 1897.
- Hab.*—Mont., Wy., Id., Alberta.
423. **Palæno** Linn., Syst. Nat. 2, 764, 1767.
 Fabr., Syst. Ent. 476, 1775.
 Fabr., Ent. Syst. 3, 207, 1793.
 Ochs., Schmiett. 1, 2, 184, 1808.
 Godt., Enc. Meth. 9, 101, 1819.
 Bdl., Sp. Gen. 1, 645, 1836.
 Stgr., Cat. 5, 1871.
 Kirby, Cat. 493, 1871.
 Streck., Cat. 80, 1878.
 Edw., Cat. 23, 1884.
- europomene* Esp., Schmiett. 1, t. 42, 1778.
 Hub., Eur. Schmiett. 434, 435, 1793-1827.
- philomene* Hub. Eur. Schmiett. 602, 603, 740, 741, 1793-1827
 Dup., Lep. Supp. 1, t. 47, 1832.
- lapponica* Stgr., Cat. 5, 1871.
- chippewa* Edw., But. 1, t. 1, *Colias* 1868.
- helena* Edw. (name preoccupied), Pr. E. Soc. Phil. 2, 80, 1863.
 Kirby, Cat. 495, 1871.
- Var. werdandi** Herr.-Schaff., Schmiett. Eur. f. 403, 404, 1848.
- Hab.*—Labr., Fort Simpson., St. Michaels, Alaska., Kotzebue Sound, Eur., Asia.
424. **Nastes** Bd., Icones pl. 8, 1832.
 Godt., Dup. Supp. Lep. 1, t. 15, 1832.
 Bd., Sp. Gen. 1, 648, 1836.
 Herr.-Schaff., Eur. Schmiett. pl. 7, f. 41, 42, pl. 85, f. 403, 404, 1843.
 Walleng., Skand. Dagf. 142, 1853.
 Mösch., Wien. Ent. Monat. 4, 354, pl. 9, 1860.
 Morris, Syn. 30, 1862.
 Stgr., Cat. 5, 1871.
 Kirby, Cat. 494, 1871.
 Edw., But. 2, pl. 1 of *Colias* 1874.
 Edw., Cat. 23, 1884.
- Hab.*—Labr., Ungava Bay, Laggan, Can., Hudson Bay, Arctic Europe.
- Var. rossii** Gn., Ann. Soc. Ent. Fr. 199, 1864.

Stgr., Cat. 5, 1871.

Kirby, Cat. 495, 1871.

Hab.--Boothia Felix.

425. **Moina** Str., Br. Bull. 3, 34, 1880.

Edw., Cat. 23, 1884.

Hab.—Hudson Bay.

426. **Behrii** Edw., Pr. E. Soc. Phil. 6, 1866.

Edw., But. 1, 44, pl. 13, 1868.

Kirby, Cat. 495, 1871.

Streck., Cat. 84, 1878.

Edw., Cat. 23, 1884.

Dyar, Can. Ent. 25, 158, 1893.*

Edw., But. Supp. 1897.

Hab.—Yosemite, Cal. (Alpine).

TERIAS Swainson.

427. **Gundlachia** Poey, Hist. Nat. de Cuba 1, 246, pl. 24, 1851.

Bdl., Sp. Gen. 1, 655, 1836.

Kirby, Cat. 441, 1871.

Streck., Cat. 85, 1878.

Edw., Cat. 23, 1884.

Biol. Cent.-Am. 2, 156, 1889.

Hab.—Texas, Ariz., Mex., Antilles, Cent. and Sth. Am.

428. **Proterpia** Fab. Syst. Ent. 478, 1775.

Fab., Sp. Ins. 2, 50, 1781.

Fab., Mant. Ius. 2, 24, 1787.

Fab., Ent. Syst. 3, 1, 210, 1793.

Godt., Enc. Meth. 9, 91, 1819.

Lucas, Lep. Exot. 74, t. 38, 1835.

Bd., Sp. Gen. 1, 654, 1836.

Morr., 35, 1862.

Kirby, Cat. 441, 1871.

Streck., Cat. 84, 1878.

Edw., Cat. 23, 1884.

Biol. Cent.-Am. 2, 155, 1889.

Hab.—Texas, Ariz., Mex., Cent. and Sth. Am., Antilles.

429. **Nicippe** Cram., Pap. Exot. 3, 210, 1782.

Herbest, Nat. Schmett. 5, 176, t. 107, f. 3, 4, 1792.

Fabr., Ent. Syst. 3, 208, 1793.

Hub., Zutr. Ex. Schmett. n. 819, 820, ♀, 1818.

Godt., Enc. Meth. 9, 103, 1819.

Say, Am. Ent. 2, pl. 30, 1825.

Bd.-Lec., 55, pl. 20, 1833.*.

Lucas, Pap. Exot. 76, t. 38, 1835.

Morris, Syn. 33, 1862.

Kirby, Cat. 441, 1871.

H. Edw., Pr. Cal. Ac. N. Sci. 166, 1873.*

Mead, Wheeler's Rep. 5, 750, 1875.

H. Edw., Proc. Cal. Ac. N. Sci. 7, 1876.

Streck., Cat. 84, 1878.

Edw., Can. Ent. 13, 61, 1881.

Edw., Cat. 24, 1884.

Mayn., But. 46, pl. 4, f. 62, 62a, 1886.

Scud., But. 2, 1066, pl. 15, f. 10, 12, 1886.*

Biol. Cent.-Am. 2, 155, 1889.

Var. flava Streck., Cat. 84, 1878.

Hab.—Pa. to Gulf Mex., Miss. Valley, Ariz., Cal., occasl. N. Eng.

430. **Mexicana** Bd., Sp. Gen. 1, 653, pl. 3, 1836.

Hub., Zutr. Exot. Schmett. f. 917, 918, 1835.

Duncan, Nat. Lib. Ent. 5, 125, t. 8, ♂, 1837.

Morr., 36, 1862.

Kirby, Cat. 441, 1871.

Streck., Cat. 85, 1878.

Edw., Cat. 24, 1884.

Saund., Can. Ent. 16, 52, 1884.

Biol. Cent.-Am. 2, 157, 1889.

Scud., But. 3, 1840, 1889.

Hab.—Tex., Ariz., So. Cal., Kans., occasl. Neb., Iowa, Ill., Grant County and Racine, Wis., also Point Pelee, Ont. (auct. Saunders), Col., Mex., Cent. Am.

431. **Damaris** Feld., Reise Nov. Lep. 198, 1865.

Edw., Pap. 2, 20, 1882.

Edw., Cat. 24, 1884.

(Godman and Salvin put this under *Mexicana*).

Hab.—Ariz.

432. **Westwoodii** Bd., Sp. Gen. 1, 666, 1836.
Kirby, Cat. 445, 1871.
Strecker, Cat. 85, 1878.
Edw., Cat. 24, 1884.
Biol. Cent.-Am. 2, 163, 1889 (as *dina* Poey).
dina Hub., Zutr. Ex. Schmett. f. 951, 952, 1837.
Hab.—Tex. (coll. Mead), Mex., Cent. Am., Cuba.
433. **Lisa** Bd.-Lec., 53, pl. 19, 1833.
Bd., Sp. Gen. 1, 661, 1836.
Morr., 34, 1862.
Kirby, Cat. 443, 1871.
Strecker, Cat. 85, 1878.
Fern., But. Me. 32, 1884.
Edw., Cat. 24, 1884.
French., But. 139, 1885.
Mayn., But. 45, f. 60, 60a, 1886.
Scud., But. 2, 1087, pl. 7, f. 4, 5, 1889.*
Skinner, Ent. News 1, 8, 1890.*
Var. alba Strecker, Cat. 85, 1878.
Hab.—Isle of Shoals, Me. (by Thaxter), south to Gulf Mex., Westn. States, Ariz., Hamilton, Ont. (by Moffat).
Var. clappii Mayn., Man. App. 216, 1891.
Hab.—Enterprise, Fla.
434. **Linda** Edw., Pap. 4, 53, 1884.
Hab.—Ariz.
435. **Delia** Cram., Pap. Exot. pl. 273, f. A, 1782.
Bd.-Lec., 49, pl. 18, 1833.*
Bd., Sp. Gen. 1, 663, 1836.
Morr., 34, 1862.
Kirby, Cat. 444, 1871.
Strecker, Cat. 85, 1878.
Edw., Cat. 24, 1884.
demoditas Hub., Verz. Bek. Schmett. 96, 1816.
daira Godt., Enc. Meth. 9, 137, 1819.
Hab.—Gulf States.
436. **Jucunda** Bd.-Lec., 52, pl. 19, 1833.
Bd., Sp. Gen. 1, 665, 1836.
Morr., 35, 1862.
Kirby, Cat. 445, 1871.
Strecker, Cat. 85, 1878.
Edw., Cat. 24, 1884.
French., But. 140, 1885.
Biol. Cent.-Am. 2, 168, t. 64, f. 9-12, 1889.
ebriola Poey, Mem. Nat. Hist. Is. Cuba 1, t. 24, 1851.
♀ *albina* Poey, l. c.
Hab.—Gulf States, Mex., Cent. Am.
437. **Blakei** Mayn., Man. App. 216, 1891.
Hab.—Sandford, Fla., West Indies.

PAPILIONINÆ.

PARNASSIUS Latreille.

438. **Clodius** Mén. Cat. Mus. Petr. 1, 73, 1855.
Edw., But. 1, 18, pl. 4, f. 5, 6, 6, 1871.
Kirby, Cat. 513, 1871.
H. Edw., Pr. Cal. Ac. N. Sci. 6, 1876.
Strecker, Cat. 73, 1878.
Edw., Cat. 14, 1884.
Butl., Proc. Zool. Soc. Lond. 16, 472, 1882.
Edw., Can. Ent. 17, 61, 1885.*
Elwes, Proc. Zool. Soc. Lond. 49, p. 4, f. 1, 2, 1886.
Fletcher, Can. Ent. 25, 163, 1893.
- clarus* Bd. (not Eversm.), Ann. Soc. Ent. Fr. 2, 10, 283, 1852.
Edw., But. 1, 17, pl. 1, f. 1-4, 1871.
- baldur* Edw., Cat. Lep. 12, 1877.
Mead, Psyche 2, 180, 1878.
- Hab.*—Cal., Utah, Nev., Mont., Vanc., Oregon.
- Var. ménétrièrei** H. Edw., Pr. Cal. Ac. Nat. Sci. 7, 164, 1878.
= *P. l.*, #50 pl. 12.
- Hab.*—Sier. Nev., Lake Tahoe, Mt. Nebo, Utah.

439. **Smintheus** Dbl.-Hew., Gen. Di. Lep. pl. 4, 1847.
 Reak., Proc. Ent. Soc. Phil. 6, 127, 1866.
 Kirby, Cat. 512, 1871.
 Edw., But. 1, 21, pl. 5, 6, 7, 1872.*
 Streck., Cat. 73, 1878.
 Edw., Cat. 14, 1884.
 Elwes, Can. Ent. 17, 61, 1885.*
 Fletcher, Can. Ent. 25, 163, 1893.
sayii ♀, Edw., Proc. Ent. Soc. Phil. 2, 78, 1863.
 Edw., But. 1, pl. 5, f. 2, 1872.
 Mead, Rep. Wheeler Exp. 7, 742, 1875.
 Behr., Pap. 2, 50, 1882.
Hab.—Rocky Mts., Col. to Mont., N. Mex., Mt. Bradley, Cal.
Var. behrii Edw., Tr. A. E. Soc. 3, 10, 1870.
 Edw., But. 1, pl. 6, f. 3 ♂, 4 ♀, 1872.
 Mead, Psyche 2, 181, 1878.*
Hab.—Nev., Utah.
Var. hermodur H. Edw., Pap. 1, 4, 1881.
 Edw., Pap. 3, 158, 1883.
 Edw., But. 3, pl. 1, Parn. 1895.*
Hab.—Col., Mont., Br. Am.
Var. nanus Neum., Ent. Am. 6, 61, 1890.
Hab.—Brit. Col.
Var. sedakovii Mén., Cat. Mus. Petr.: Lep. 1, 71, 107, t. 1, f. 1, 1855.
 Neum., Ent. Am. 6, 62, 1890.
Hab.—Colo.
440. **Nomion** Fisch., Ent. Russ. 2, 242, pl. 6, 1823.
 Bd., Sp. Gen. 1, 397, pl. 2, 1836.
 Boisd., Sp. Gen. 1, 397, 2, t. 6, f. 1, 1836.
 Herr.-Schaff., Schmett. Eur. 1, f. 316, 1-46.
 Kirby, Cat. 511, 1871.
 Edw., Cat. 14, 1884.
Hab.—Alaska; Siberia.
441. **Eversmanni** Mén., Cat. Mus. Petr. 1, 73, pl. 1, f. 1, 2, ♂, 1855.
 Scud., Pr. Bost. Soc. Nat. Hist. 12, 45, 1869.
 Kirby, Cat. 513, 1871.
 Stgr., Cat. 2, 1871.
 Edw., But. 1, 27, pl. 7, f. 6, 7, ♂, 1872.
 Streck., Cat. 73, 1878.
 Edw., Cat. 14, 1884.
 ♀ *wosnesenski* Mén., l. c. pl. 1, f. 3, 1855.
Var. ♀ thor H. Edw., Pap. 1, 4, 1881.
 H. Edw., l. c. 2, 148, 1882.
Hab.—Alaska, Siberia.
- PAPILIO** Linnaeus.
442. **Ajax** Linn., Syst. Nat. 1, 2, 750, 1767.
 Fab., Syst. Ent. 445, 1775.
 Abb.-Sm., Ins. Ga. 1, t. 4, 1797.
 Godt., Enc. Meth. 9, 53, 1819.
 Bdl., Sp. Gen. 1, 258, 1836.
 Morris, Syn. 8, 1862.
 Kirby, Cat. 558, 1871.
 Edw., Can. Ent. 7, 236, 1875.
 Streck., Cat. 68, 1878.
 Edw., Psyche 3, 3, 17, 1880.
 Edw., Cat. 10, 1884.
 Grub., Pap. 4, 88, 1884.*
 Grub., Jen. Zeitschr. Nat. 17, 473, pl. 7, f. 16-19, 1884.*
 French, 84, 1885.
 Edw., Can. Ent. 18, 15, 140, 1886.*
 Scud., But. 3, pl. 15, f. 11, 1889.
 Scud., But. 2, 1624, 1889.
 Edw., But. 3, 1897.
Var. walshii Edw., But. 1, pl. 1, 1871.*
marcellus Cram., 2, pl. 98, f. F. G. 1779.
Var. abbotii Edw., l. c. pl. 1, f. 6, 1871.
 Mundt, Can. Ent. 15, 87, 1883.
ajax Sm.-Abb., pl. 4, 1797.
Var. telamonides Feld., Reise Nov. Lep. 1, 60, 1865.
 Feld., Sp. Lep. 59, 1864.
 Edw., But. 1, 5, pl. 2, 1871.*
ajax Bd.-Lec., pl. 1, 1833.
Var. marcellus Bd.-Lec., pl. 2, 1833.
 Edw., But. 1, 7, pl. 3, 1871.*

- ajax* Esp. Eur. Schmett. 1. pl. 51, 1780.
 Hub., Verz. Bek. Schmett. 82, 1816.
 Hub., Sam. Ex. Schmett. 1806-24.
Hab.—Pa. to Texas, Miss. Valley, occasl.
 Hamilton, Ont. (by Moffat).
443. **Sinon** Fabr., Syst. Ent. 452, 1775.
 Fabr., Sp. Ins. 2, 15, 59, 1781.
 Cram., Pap. Ex. 4, t. 317, C. D, 1782.
 Fabr., Man. Ins. 2, 8, 67, 1787.
 Fabr., Ent. Syst. 3, 26, 75, 1793.
 Godt., Enc. Meth. 9, 53, 1819.
 Bdl.-Lec., Lep. Am. Sep. 11, t. 3, 1833.
 Bdl., Sp. Gen. 1, 260, 1863.
 Kirby, Cat. 557, 1871.
 Streck., Cat. 68, 1878.
 Skinner, Ent. News 3, pl. 4, 1892.
Hab.—Florida, Antilles.
444. **Philenor** Linn., Mant. 535, 1771.
 Sm.-Abb., pl. 3, 1797.*
 Godt., Enc. Meth. 40, 1819.
 Say, Am. Ent. 1, pl. 1, 1824.
 Hub., Exot. Schmett. 1, 1806-1824.
 Bd.-Lec., 29, pl. 11, 1833.*
 Lucas, Lep. Exot. 15, t. 8, 1835.
 Bd., Sp. Gen. 1, 324, 1836.
 Morr., Syn., 6, 1862.
 Riley, 3d Mo. Ent. Rep. 116, 1870.*
 Kirby, Cat. 521, 1871.
 H. Edw., Pr. Cal. Ac. N. Sci. 161, 1873.*
 Streck., Cat. 67, 1878.
 Edw., Can. Ent. 13, 9, 1881.*
 Grub., Jen. Zeitschr., Nat. 17, 474, pl. 7,
 f. 20-42, 1884.*
 Edw., Cat. 10, 1884.
 Gruber, Pap. 4, 88, 1884.*
 Mayn., But. 49, pl. 7, f. 68, 68a, 1886.
 Scud., But. 2, 1241, pl. 16, f. 3, 1889.*
 Biol. Cent.-Am. 2, 204, 1890.
astinuous Dru., 1, pl. 11, 1773.
 Cram., 3, 208, f. A, B, 1782.
Hab.—U. S. generally, Ont., Mex.
445. **Acauda** Oberthur, Etud. d'Ent. 4,
 98, 1880.
nezahualcoyotl Streck., Proc. Ac. Nat. Sci.
 Phil. 174, 1885.
- corbis* Godman and Salvin, Biol. Cent.-
 2, 205, t. 66, f. 7, 8, 1890.
orsua Godman and Salvin, Biol. Cent.-
 2, 205, t. 66, f. 9, 10, 1890.
 Skinner, Ent. News 7, 318, 1896.
Hab.—N. Mex., Mex.
446. **Polydamas** Linn., Mus. Lud. Ulr.
 192, 1764.
 Dru., 1, 17, 1773.
 Fabr., Syst. Ent. 447, 1775.
 Fabr., Sp. Ins. 8, 1781.
 Cram., 3, 211, f. D, E, 1782.
 Fabr., Mant. Ins. 2, 4, 1787.
 Fabr., Ent. Syst. 3, 14, 1793.
 Hub., Ex. Schmett. 1806, 1824.
 Godt., Enc. Meth. 9, 39, 1819.
 Bd.-Lec., 37, pl. 15, 1833.
 Lucas, Lep. Ex. 33, t. 17, 1835.
 Bd., Spec. Gen. 1, 321, 1836.
 Morris, Syn. 13, 1862.
 Kirby, Cat. 521, 1871.
 Streck., Cat. 67, 1878.
 Jones, Pr. Liverpool Soc. 37, 241, 1883.
 Muller, Kosmos 12, 448, 1883.*
 Edw., Cat. 14, 1884.
 Biol. Cent.-Am. 2, 200, 1890.
 Merian, Ins. Sur. t. 31, 1705.
 Seba, Thes. 4, t. 39, 1765.
Hab.—Indian River, Fla. (by Wittfeld),
 Mex., Antilles.
447. **Machaon** var. *aliaska* Scud., Pr.
 Bost. Soc. Nat. Hist. 12, 45, 1869.
 Kirby, Cat. 566, 1871.
 Streck., Cat. 71, 1878 (Syn. *machaon*).
 Edw., Can. Ent. 13, 63, 1881.
 Edw., Pap. 2, 74, 1882; 3, 50, 1883.
 Edw., But. 2, pl. 14, 1884.*
 Hag., Proc. Bost. Soc. Nat. Hist. 22,
 105, 1883.
 Edw., Cat. 11, 1884.
 Grub., Pap. 4, 86, 1884.*
Hab.—Oreg., Br. Am., Alaska.
448. **Bairdii** Edw., ♂, Proc. Ent. Soc.
 Phil. 2, 200, 1869.
 Kirby, Cat. 567, 1871.
 Mead, Wheeler's Rep. 5, 740, 1875.

- Streck., Cat. 72, 1878.
 Edw., Can. Ent. ♀, 11, 83, 1879.
 Edw., But. 2, pl. 10, 1880.
 Edw., Cat. 11, 1884.
 Edw., Can. Ent. 25, 250, 1893.
 Edw., Can. Ent. 30, 49, 1898.*
- utahensis* Streck., Cal. 72, 1878.
Hab.—Ariz., Col.
- Var. oregonia** Edw., But. 2, pl. 7, 1880.
 Hag., Pap. 2, 152, et seq. 1882.
 Hag., Pr. Bost. Soc. Nat. Hist. 22, 105, 1882.
 Edw., Pap. 3, 45, et seq. 1883.
 Stretch, Pap. 2, 119, 1882.*
 Edw., l. c. 2, pl. 14, 1884.*
 Edw., Cat. 11, 1884.
- hippocrates* var. *oregonia* Edw., Tr. A. E. Soc. 5, 208, 1876.
Hab.—Oregon, W. Terr., Vanc. Island., Col.
- Var. brucei** Edw., Can. Ent. 27, 11, 1895.
 Edw., But. 3, 1897.
Hab.—Colo.
- Var. hollandii** Edw., Can. Ent. 24, 50, 1892.
 Edw., Can. Ent. 25, 253, 1893.
Hab.—Hab. Col.
- 449. Zolicaon** Bd., Ann. Soc. Ent. Fr. 2, 10, 281, 1852.
 Men., Cat. Mus. Petr. Lep. 1, 69, 1855.
 Morr., Syn. 4, 1862.
 Kirby, Cat. 566, 1871.
 Edw., But. 2, pl. 6, 1875.*
 H. Edw., Pr. Cal. Ac. Nat. Sci. 5, 163, 1873.*
 Str., Lep. pl. 6, f. 3, ♀, 1873.
 Hag., Pap. 2, 152, et seq. 1882.
 Hag., Proc. Bost. Soc. Nat. Hist. 22, 105, et seq. 1882.
 Edw., Pap. 3, 45, et seq. 1883.
 Edw., Cat. 11, 1884.
 Edw., Pap. 4, 162, 1885.
 Edw., But. 3, pl. 3, Pap. 1891.*
- zelicayn* Luc., Rev. Zool. 136, 1852.
- californica* Men., Cat. Mus. Petr. Lep. 1, 69, 1855.
Hab.—Oreg. to Ariz., Mont., Col., Vanc.
- 450. Americus** Koll., Denkschr. Ak. Wiss. Wien. Math. Nat. Cl. 1, 354, 1850.
 Edw., Pap. 3, 55, 1883.
 Edw., Cat. 11, 1884.
 Edw., But. 3, pl. 3, Pap. 1891.
 Biol. Cent.-Am. 2, 243, 1893.
- sadulus* Luc., Rev. Zool. 133, pl. 10, 1852.
Hab.—Ariz., Mex., Cent. and Sth. Am.
- 451. Nitra** Edw., Pap. 3, 162, 1883.
 Edw., Cat. 11, 1884.
 Edw., But. 3, pl. 1, Pap. f. 1, 2, 3, 4, 1886.
Hab.—Mont., Regina, N. W. T.
- 452. Indra** Reak., Proc. Ent. Soc. Phil. 6, 123, 1866.
 Kirby, Cat. 567, 1871.
 Str., Lep. pl. 2, f. 1, ♂, 1873.
 Putn., Pr. Dav. Ac. Nat. Sci. 1, pl. 35, ♀, 1876.
 Streck., Pr. Ac. N. Sci. Phil. 150, 1876.
 Edw., But. 2, pl. 9, 1878.
 Streck., Cat. 71, 1878.
 Edw., Cat. 11, 1884.
 Edw., But. 3, pl. 1, Pap. 1888.
 Bruce, Can. Ent. 23, 110, 1891.
 Edw., But. 3, Supp. 1897.*
- pergamus* H. Edw., Pr. Cal. Ac. Nat. Sci. 5, 423, 1874.
Hab.—Col., Nev., Cal., N. W. Terr.
- 453. Brevicauda** Saund., in Packard's Guide 245, 1869.
 Kirby, Cat. 567, 1871.
 Edw., But. 2, pl. 8, 1875.
 Streck., Cat. 71, 1878.
 Edw., But. 2, pl. 8, 1880.*
 Gosse, Can. Ent. 15, 44, 1883.*
 Edw., Cat. 11, 1884.
 Scud., But. 3, 1851, 1889.*
- anticostiensis* Str., Lep. pl. 2, f. 2, ♂, 1873.
Hab.—N. F'land., Antic., Labr., Queb.

454. **Polyxenes** Fabr., Syst. Ent. 444, 1775.
 Kirby, Cat. 566, 1871.
 Scud., But. 2, 1353, pl. 8, f. 2, 3, 1889.*
 Biol. Cent.-Am. 2, 242, 1893.
- ajax* Clerck, Icones, t. 33, 1764.
- troilus* Dru., Ill. Exot. Ent. 1, t. 11, f. 2-5, 1773.
 Cram., Pap. Exot. 3, t. 207, 1782.
 Fabr., Ent. Syst. 3, 4, 1793.
 Abb.-Sm., Ins. Ga. 1, t. 1, 1797.
- asterius* Cram., Pap. Exot. 4, t. 385, 1782.
 Esp., Aus. Schmett. t. 11, f. 1, 2, t. 40, f. 6, 1785-98.
 Hub., Verz. Bek. Schmett. 83, 1816.
- asterias* Fabr., Man. Ins. 2, 2, 1787.
 Fabr., Ent. Syst. 3, 6, 1793.
 Godt., Enc. Meth. 9, 58, 1819.
 Bdl.-Lec., Lep. Am. Sept. t. 4, 1833.*
 Lucas., Lep. Ex. 38, t. 20, 1835.
 Bdl., Sp. Gen. 1, 332, 1836.
 Morris. Syn. 5, 1862.
 Harr., Ins. Inj. Veg. Flint's Ed. 265, t. 4, 1862.
 Lint., Pr. Ent. Soc. Phil. 3, 51, 1864.
 H. Edw., Pr. Cal. Ac. Nat. Sci. 164, 1873.*
 Streck., Cat. 71, 1878.
 Edw., Cat. 12, 1884.
 Grub., Pap. 4, 84, 1884.*
 Edw., But. 2, pl. 14, 1884.*
 Grub., Jen. Zeitschr. Nat. 17, 467, pl. 7, f. 1-5, 1884.*
 Fern., But. Me. 21, 1884.*
 French, But. 89, f. 14-16, 1885.*
 Tepper, Ent. Am. 1, 186, 1886.
 Mayn., But. 51, pl. 6, f. 71, 71a, 1886.
 French, Can. Ent. 29, 263, 1897.*
- Aber. calverleyii** Grote, Proc. Ent. Soc. Phil. 2, 441, pl. 10, ♂, 1864.
 Mead, Am. Nat. 3, 332, ♀, 1869.
 Kirby, Cat. 566, 1871.
 Edw., But. 2, pl. 11, ♂, ♀, 1877.
 Streck., Cat. 72, 1878.
 Edw., Cat. 12, 1884.
- Var. ampliata** Men., Cat. Mus. Petr. Lep. 2, 99, 1857.
- Var. alunata** Skinner and Aaron, Can. Ent. 21, 127, 1889.
- Hab.*—Ont., Queb., Atl. to Pacific, Mex., Cent. Am., Antilles.
455. **Troilus** Linn., Mus. Lud. Ulr. 187, 1764.
 Cram., Pap. Exot. 3, t. 207, 1782.
 Hub., Verz. Bek. Schmett. 83, 1816.
 Godt., Enc. Meth. 9, 60, 1819.
 Hub., Sam. Ex. Schmett. 1816-24.
 Lucas. Lep. Exot. t. 19, 1835.
 Harr., 266, 1862.*
 Morr., Syn. 5, 1862.
 Saund., Can. Ent. 1, 73, 1869.*
 Streck., Cat. 72, 1878.
 Scud., Psyche 3, 73, 1882.*
 Skinner, Proc. Ac. Nat. Sci. Phil. 239, 1882.
 Gruber, Jen. Zeitschr. Nat. 17, 471, pl. 7, f. 12-15, 1884.*
 Gruber, Pap. 4, 87, 1884.*
 Edw., Cat. 12, 1884.
 French, But. 93, 1885.
 Mayn., But. 49, pl. 7, f. 68, 68a, 1886.
 Scud., But. 2, 1313, pl. 8, f. 4, 5, 1889.*
- ilioneus* Sm.-Abb., pl. 2, 1797.
 Feld., Verh. Zool. Bot. Ges. 14, 315, 364, 1864.
 Feld., Sp. Lep. 76, 1864.
 Kirby, Cat. 567, 1871.
- Hab.*—Atl., Sthn., Westn. States., N. W. Terr.
- Aber. a.** Streck., Cat. 72, 1878.
- Aber. b.** Streck., Cat. 72, 1878.
456. **Palamedes** Dru., 1, 19, 1773.
 Cram., Pap. Ex. 1, 93, f. A, B, 1779.
 Kirby, Cat. 543, 1871.
 Streck., Cat. 73, 1878.
 Edw., Cat. 12, 1884.
 French, 94, 1885.*
 Skinner, Ent. News 1, 110, 1890.
- calchas* Fabr., Syst. Ent. 453, 1775.
 Herbst., Nat. Schmett. 3, t. 42, 1788.
 Hub., Verz. Bek. Schmett. 83, 1816.
 Godt., Enc. Meth. 9, 59, 1823.
 Bdl.-Lec., Lep. Am. Sept. 17, t. 5, 1833.*

- Bd., Sp. Gen. 1, 373, 1836.
 Edw., Can. Ent. 13, 119, 1881.*
Hab.—Gulf States. Fla. to Va., Penna.
457. **Turnus** Linn., Man. 536, 1771.
 Fabr., Syst. Ent. 452, 1775.
 Fabr., Sp. Ins. 2, 16, 1751.
 Esp., Aus. Schmett. t. 48, f. 1, 1785-98.
 Hub., Verz. Bek. Schmett. 83, 1816.
 Godt., Enc. Meth. 9, 55, 1819.
 Say, Am. Ent. 3, t. 40, 1828.
 Bdl.-Lec., Lep. Am. Sept. 19, t. 6, 7, 1833.*
 Bdl., Sp. Gen. 1, 338, 1836.
 Luc., Lep. Ex. 35, t. 18, 1835.
 Harr., Ins. Inj. Veg. Flint's Ed. 268, f. 97, 1862.*
 Morr., Syn. 2, 1862.
 Saund., Can. Ent. 1, 74, 1869.
 Saund., Can. Ent. 6, 2, 1874.*
 Edw., But. 2, pl. 3, 4, 5, 1877.
 Streck., Cat. 69, 1878.
 Edw., Cat. 12, 1884.
 Grub., Pap. 4, 86, 1884.*
 French, But. 84, f. 17-19, 1885.*
 Fern., Can. Ent. 18, 50, 1885.
 Mayn., But. 51, pl. 6, f. 70, 70a, 1886.
 Scud., But. 2, 1288, pl. 8, f. 1, 1889.*
 Van Winkle, Can. Ent. 25, 215, 1893.
- ulcidamus* Cram., Pap. Ex. 1, t. 38, A, B, 1776.
- antilocheus* Linn., Mus. Lud. Ulr. 207, 1764.
 Linn., Syst. Nat. 1, 2, 751, 1767.
 Catesby, Nat. Hist. Carolina 2, t. 83, 1771.
 Bdl., Sp. Gen. 340, 1836.
Hab. - Atl. States, Miss. Valley to Texas. Queb., Ont., N. F'land., Alaska, Br. Am., Vanc.
- Var. glaucus** ♀, Linn., Mus. Lud. Ulr. 190, 1764.
 Linn., Syst. Nat. 1, 2, 746, 1767.
 Clerck, Icones t. 24, 1764.
 Fabr., Syst. Ent. 445, 1775.
 Cram., Pap. Ex. 2, t. 139, 1779.
 Hub., Verz. Bek. Schmett. 83, 1816.
 Godt., Enc. Meth. 9, 60, 1819.
 Bdl.-Lec., Lep. Am. Sept. 22, t. 8, 9, 1833.
- Bdl., Sp. Gen. 1, 335, 1836.
 Morr., Syn. 2, 1862.
 Ridings, Pr. Ent. Soc. Phil. 1, 266, 1862.
 Walsh, Pr. Ent. Soc. Phil. 1, 349, 1862.
 Kirby, Cat. 565, 1871.
 Edw., But. 2, pl. 3, 4, 1877.
- Hab.*—New York and Sth. and West, Fort McLeod, Br. Am.
- Var. australis** Mayn., Man. App. 215.
458. **Eurymedon** Bdl., Ann. Soc. Ent. Fr. 2, 10, 280, 1852.
 Luc., Rev. Zool. 140, 1852.
 Morr., Syn. 4, 1862.
 Scud., Pr. Bost. Soc. N. Hist. 13, 1870.*
 Kirby, Cat. 565, 1871.
 Str., Lep. pl. 4, f. 1, ♂, 1873.
 H. Edw., Proc. Cal. Ac. Nat. Sci. 5, 164, 1873.*
 Edw., But. 2, pl. 1, 1874.*
 Mead, Psyche 2, 180, 1878.*
 Streck., Cat. 70, 1878.
 Edw., Cat. 13, 1884.
- Var. albanus** Feld., Reise Nov. Lep. 1, 93, 1865.
 H. Edw., Pap. 2, 122, 1882.
- Hab.*—Cala. to Br. Col., Ariz. to Mont., Br. Am. (auct. Geddes).
459. **Rutulus** Bdl., Ann. Soc. Ent. Fr. 2, 10, 279, 1852.
 Luc., Rev. Zool. 183, 1852.
 Morr., Syn. 3, 1862.
 Kirby, Cat. 565, 1871.
 H. Edw., Pr. Cal. Ac. N. Sci. 5, 165, 1873.*
 Mead, Psyche 2, 180, 1878.*
 Streck., Cat. 70, 1878.
 H. Edw., Pap. 2, 112, 1882.*
 Hag., Pap. 2, 160, 1882.
 Edw., Pap. 3, 2, 1883.
 Edw., But. 2, t. pl. 12, 13, 1884.*
 Edw., Cat. 13, 1884.
- Hab.*—Pac. States, Br. Col., Col. to Mont.
- Var. arizonensis** Edw., Pap. 3, 4, 1883.
 Edw., But. 2, pl. 13, 1884.
- Hab.*—Ariz., N. Mex., Col.
- Var. ammoni** Behr., Can. Ent. 19, 199, 1887.

460. **Daunus** Bd., Sp. Gen. 1, 342, 1836.
 Rid., Proc. Ent. Soc. Phil. 1, 278, f. 2, 1862.
 Kirby, Cat. 564, 1871.
 H. Edw., Pr. Cal. Ac. Nat. Sci. 5, 325, 1873.*
 Str., Lep. pl. 6, f. 1, 2, 1873.
 Edw., But. 2, pl. 2, 1874.
 Mead, Rep. Wheeler Exp. 5, 741, 1875.
 Streck., Cat. 69, 1878.
 Edw., Pap. 3, 2, 1883.*
 Edw., Cat. 13, 1884.
 Schaus, Pap. 4, 100, 1884.*
 Biol. Cent.-Am. 2, 240, 1893.
 Edw., But. Supp. 1897.*
- Hab.*—Osoyoos, B. C., Mont., Col., Utah, Nev., Ore., Tex., Ariz., Mex., Cent. Am.
461. **Pilumnus** Bd., Sp. Gen. 1, 340, 1836.
 Mén., Cat. Mus. Petr. 2, 110, pl. 7, f. 2, 1857.
 Kirby, Cat. 564, 1871.
 Str., Lep. pl. 2, f. 3, ♂, 1873.
 Streck., Cat. 69, 1878.
 Edw., Cat. 13, 1884.
 Schaus, Pap. 4, 100, 1884* (says this sp. belongs near *troilus*).
 Edw., But. 3, pl. 2, Pap. 1889.
 Biol. Cent.-Am. 2, 241, 1893.
 Edw., But. Supp. 1897.*
- Hab.*—Ariz., N. Mex., Mex., Cent. Am.
462. **Thoas** Linn., Man. Plant. 536, 1771.
 Dru., Ill. Ex. Ent. 1, t. 22, f. 1, 2, 1773.
 Cram., Pap. Ex. 2, t. 167, A, B, 1779.
 Godt., Enc. Meth. 9, 62, 103, 1819.
 Boisd., Sp. Gen. 1, 355, 197, 1836.
 Hub., Sam. Ex. Schmett. 1806-1836.
 Bdl.-Lec., Lep. Am. Sept. 31, t. 12, 13, 1833.*
 Kirby, Cat. 541, 1871.
 Aaron, Pap. 4, 172, 1885.
 Biol. Cent.-Am. 2, 223, 1890.
- cresphontes* Cram., Pap. Ex. 2, t. 165, 166, 1779.
- Men., Cat. Mus. Petr. Lep. 2, 111, 1857.
 Feld., Verh. Zool. Bot. Ges. 14, 310, 294, 357, 168, 1864.
 Saund., Can. Ent. 10, 48, 1878.*
 Burm., Desc. Phys. Repul. Argent. 5, 1878.
 Boll, Can. Ent. 10, 154, 1878.
 Ashm., Orange Ins. 47, 1880.*
 French, Can. Ent. 13, 177, 1881.
 Mundt., Pap. 3, 25, 1883.
 Edw., Cat. 13, 1884.
 French, But. 101, f. 20-22, 1885.*
 Mayn., But. 50, pl. 5, f. 69, 69a, 1886.
 Scud., But. 2, 1334, pl. 14, f. 12, 1889.*
 Bethune, Can. Ent. 25, 260, 1893.
- oxilus* Hub., Verz. Bek. Schmett. 83, 850, 1816.
- Hab.*—St. John's, N. B., Ont., Queb., Conn., N. Y. to Tex., Ohio, Mich., Ariz., Mex., Antilles, Cent. and Sth. Am.
463. **Cresphontinus** Mart., Psyche t. 3, f. 8, t. 4, f. 10, 1797.
 Skinner, Ent. News 6, 112, 1895.
- aristodemus* Esp., Aus. Schmett. t. 59, f. 2, 1785-98.
 Boisd., Sp. Gen. 1, 357, 199, 1836.
 Luc., Sagra Hist. Cuba 483, t. 14, f. 2, 2a, 1857.
- temenes* Godt., Enc. Meth. 9, 63, 104, 1819.
- dophnis* Gray, Cat. Lep. Ins. B. M. 1. 39, 198, 1852.
- Hab.*—Kest West, Fla., Antilles.
464. **Mylotes** Bates, Trans. Ent. Soc. Lond. 5, 346, 1861.
 Kirby, Cat. 530, 1871.
 Streck., Cat. 68, 1872.
 Biol. Cent.-Am. 2, 198, t. 64, 1889.
 Skinner, Ent. News 3, pl. 4, ♂, ♀, 1892.
- Hab.*—Sth. Cala., Mex., Cent. Am.

HESPERIDÆ.

CARTEROCEPHALUS Lederer.465. **Palæmon** Pall., Reise 1, 471, 1771.

Kirby, Cat. 624, 1871.

Mosch., Verh. Bot. Ges. 34, 283, 1884.

Bean, Can. Ent. 25, 145, 1893.

Skinner, Can. Ent. 25, 257, 1893.

paniscus Fabr., Syst. Ent. 531, 377, 1775.Esp., Schmett. 1, 1, t. 28, f. 2, 1778 ? 1,
2, t. 95, f. 5, 1778.

Latr., Enc. Meth. 9, 773, 126, 1823.

brontes Wien., Verz. 160, 6, 1776.Hub., Eur. Schmett. 1, f. 475, 476,
1796-1803.*mandan* Edw., Proc. Ent. Soc. Phil. 2, 20,
pl. 5, 1863.

Kirby, Cat. 624, 1871.

Scud., Syst. Rev. Am. But. 75, 1872.

Streck., Cat. 175, 1878.

Fern., But. Me. 93, 1884.

Edw., Cat. 66, 1884.

French, But. 299, 1885.

Mayn., But. pl. 8, f. 85, 85a, 1886.

Fletcher, Ent. Am. 4, 159, 1888.*

Scud., But. 2, 1569, pl. 10, f. 2, 1889.*

Fletcher, Can. Ent. 21, 118, 1889.*

mesapano Scud., Pr. Bost. Soc. Nat. Hist.
11, 383, 1868.

Kirby, Cat. 624, 1871.

skada Edw., Trans. Am. Ent. Soc. 3, 196,
1870.

Kirby, Cat. 656, 1871.

Scud., Syst. Rev. Am. But. 75, 1872.

Hab. Eur., Asia., Alaska to Labr., Queb.,
Cala., N. H., Me.466. **Dara** Kollar, Hugel's Kashmir 4,
455, 1848.

Kirby, Cat. 603, 1871.

mæsoïdes Butl., Trans. Linn. Soc. Lond.
1, 554, 1879.See Holland, Jour. N. Y. Soc. 6, 57,
1898.*omaha* Edw., Pr. E. Soc. Phil. 2, 21, 1863.

Reak., l. c. 6, 150, 1866.

Kirby, Cat. 607, 1871.

Scud., Syst. Rev. Am. Butt. 75, 1872.

Streck., Cat. 175, 1878.

Edw., Cat. 66, 1884.

French, But. 299, 1886.

mingo Edw., l. c. 6, 207, 1866.

Kirby, Cat. 607, 1871.

californica Scud., Syst. Rev. 54, 1872.*Hab.* Asia (W. Va., Col., Cala.?).**ANCYLOXPHA** Felder.467. **Numitor** Fab., Ent. Syst. 3, 324,
1793.

Don., Ins. Ind. t. 44, 1800.

Lat., Enc. Meth. 9, 776, 1823.

Dbldy.-Hew., Gen. Diur. Lep. 2, 523
1850-52.

Morr., Syn. 120, 1862.

Kirby, Cat. 609, 1871.

Scud., Syst. Rev. Am. Butt. 74, 1872.

Streck., Cat. 175, 1878.

Fern., But. Me. 94, 1884.

Edw., Cat. 66, 1884.

French, But. 301, 1885.

Mayn., N. Eng. But. 56, pl. 5, f. 88, 84a,
1886.

Scud., But. 2, 1558, pl. 10, f. 7, 1889.*

puer Hub., Zutr. Ex. Schmett. f. 275,
276, 1823.*marginatus* Harr., 308, 1862.

Kirby, Cat. 610, 1871.

Hab., Me. to Texas, Neb.468. **Longleyi** French, Can. Ent. 29, 80,
1897.*Hab.*—Chicago, Ill.**COPÆODES** Speyer.469. **Procris** Edw., Trans. Am. Ent.
Soc. 3, 215, 1871.

Streck., Cat. 174, 1878.

Edw., Cat. 66, 1884.

Plotz, Stet. Ent. Zeit. 45, 284, 1884.

Aaron, Pap. 4, 180, 1885.

minima Edw., Trans. Am. Ent. Soc. 3, 196,
1870.

Kirby, Cat. 656, 1871.

candida Wright, Pr. Cal. Ac. Sci, 2, 3, 34, 1890.

Var. waco Edw., Trans. Am. Ent. Soc. 2, 122, 1868.

Kirby, Cat. 608, 1871.

Scud., Syst. Rev. Am. But. 74, 1872.

Hab.—Tex., N. Mex. Ariz., So. Cal.

470. **Arene** Edw., l. c. 3, 214, 1871.

Scud., Syst. Rev. Am. Butt. 75, 1872.

Streck., Cat. 175, 1878.

Edw., Cat. 66, 1884.

Hab. Texas, Ariz.

471. **Wrightii** Edw., Can. Ent. 14, 152, 1882.

Edw., Cat. 66, 1884.

Hab. Mohave, Cal.

472. **Myrtis** Edw., Pap. 2, 26, 1882.

Edw., Cat. 66, 1884.

Hab.—Ariz.

473. **Eunus** Edw., Pap. 1, 47, 1881.

Edw., Cat. 66, 1884.

Hab.—Kern River, Cal.

THYMELICUS Speyer.

474. **Garita** Reak., Pr. E. Soc. Phil. 6, 150, 1866.

Kirby, Cat. 607, 1871.

Streck., Lep. Rhop.-Het. 93, 1874.

Streck., Cat. 175, 1878.

Edw., Cat. 66, 1884.

hyla Edw., Tr. A. E. Soc. 3, 274, 1871.

Hab.—Col., Dak., Fort Ellis, Br. Am.

475. **Poweschiek** Park., Am. Ent. 2, 271, 1870.

Scud., Syst. Rev. Am. Butt. 75, 1872.

Streck., Cat. 175, 1878.

Edw., Cat. 66, 1884.

French, But. 301, 1885.

Scud., But. 3, 1859, 1889.

Willard, Ent. News 3, 232, 1892.*

Hab.—Ia., Ill., Mont., Col., Utah.

— 476. **Edwardsii** Barnes, Can. Ent. 29, 42, 1897.

Hab.—Denver, Col.

PAMPHILA Fabricius.

477. **Massasoit** Scud., Pr. Ess. Ins. 3, 171, 1862.

Kirby, Cat. 607, 1871.

Scud., Syst. Rev. Am. Butt. 76, 1872.

Streck., Cat. 172, 1878.

Edw., Cat. 67, 1884.

French, But. 44, 26, 1885.

Mayn., But. 59, pl. 7, f. 92, 92a, 1886.

Scud., But. 2, 1597, pl. 10, f. 6, 1889.

— **Var. suffusa** Laurent, Ent. News 3, 15, 1892.

French, But. 394, 1896.

Hab.—East., Mid. St., Neb., Tex., Col.

478. **Zabulon** Edl.-Lec. Lep. Am. Sept. t. 76, f. 6, 7, 1833.

Dbldy.-Hew., Gen. Diur. Lep. 2, 523, 1850-52.

Morr., Syn. 116, 1862.

Kirby, Cat. 603, 1871.

Scud., Syst. Rev. Am. Butt. 77, 1872.

Streck., Cat. 172, 1878.

Edw., Cat. 67, 1884.

Mayn., But. 59, 1886.

French, But. 303, 1886.

Jones, Ent. News 8, 121, pl. 7, f. 1, 2, 1897.

Hab.—Mid. and Sthn. States.

479. **Hobomok** Harr., Ins. Inj. Veg. Flint's Ed. 313, f. 137, 1862.

Morr., Syn., 110, 1862.

Scud., Proc. Ess. Ins. 3, 171, 1862.

Scud., Proc. Chicago Acad. 335, 1868.

Saund., Can. Ent. 1, 66, 1869.

Kirby, Cat. 603, 1871.

Streck., Cat. 172, 1878.

French, But. 303, 1886.

Fletcher, Can. Ent. 4, 159, 1888.*

Scud., But. 2, 1618, pl. 10, f. 8, 10, 1889.*

Jones, Ent. News 121, pl. 7, f. 3, 4, 1897.

Var. pocahontas Scud., Proc. Ess. Ins. 3, 171, 1862.

Scud., Proc. Bost. Soc. Nat. Hist. 11, 381, 1868.

Kirby, Cat. 603, 1871.

Streck., Lep. Rhop.-Het. 7, 1872.

- Streck., Cat. 172, 1878.
 Edw., Cat. 67, 1884.
 French, But. 303, 1886.
 Scud., But. 2, 1617, pl. 10, f. 9, 1889.
 Jones, Ent. News 121, pl. 7, f. 5, 6, 1897.
quadraguina Scud., Proc. Bost. Soc. Nat. Hist. 11, 381, 1868.
Hab.—Queb., Ont. to Pa., Miss. Valley. Calgarry, Br. Am.
480. **Taxiles** Edw., Trans. Am. Ent. Soc. 9, 5, 1881.
 Edw., Cat. 67, 1884.
Hab.—Ariz., Utah, Nev., S. Cal., N. Mex.
481. **Ruricola** Bd., Ann. Soc. Ent. Fr. 2, 10, 1852.
 Morr., 109, 1862.
 Kirby, Cat. 602, 1871.
 Streck., Cat. 167, 1878.
 Edw., Cat. 67, 1884.
Hab.—Napa Co., Cal.
482. **Comma** Linn., Syst. Nat. Ed. 10, 484, 1758.
 Linn., Faun. Suec. 258, 1761.
 Scop., Ent. Carn. 181, 463, 1763.
 Linn., Syst. Nat. Ed. 12, 1, 2, 793, 1767.
 Fabr., Syst. Ent. 531, 1775.
 Wien, Verz. 5, 160, 1776.
 Esp., Schmett. Eur. 1, 1, t. 23, 1777.
 Fabr., Sp. Ins. 2, 131, 1781.
 Fabr., Man. Ins. 2, 84, 1787.
 Fabr., Ent. Syst. 3, 1, 325, 1793.
 Engr., Pap. Eur. 1, 194, t. 45, f. 95d, 1779.
 Brk., Schmett. 1, 179, 284, 1788.
 Ross, Faun. Etr. 2, 158, 1790.
 Lewin, Pap. Gt. Brit. 94, t. 45, f. 1, 2, 1795.
 Don., Nat. Hist. Ins. 9, 17, t. 295, 1800.
 Hub., Eur., Schmett. 1, 479, 481.
 Ross, Faun. Etr. 2, 2, 251, 1807.
 Fabr., Ill. Mag. Ins. 6, 287, 1807.
 Ochs., Schmett. 1, 2, 224, 1808.
 Hub., Verz. Bek. Schmett. 112, 1816.
 Godt., Hist. Nat. Lep. Fr. 1, t. 12, f. 4, 1821.
 Latr., Enc. Meth. 9, 769, 1823.
 Meig., Handbuch 78, t. 8, f. 8, 1827.
 Meig., Eur. Schmett. 2, 66, 1830.
 Steph., Ill. Br. Ent. Haust. 1, 102, 1828.
 Steph., Cat. Br. Ins. Haust. 28, 1829.
 Dun., Nat. Lib. Ent. 4, 119, t. 2, 1836.
 West.-Hum., Br. But. 128, t. 41, 1841.
 Wood, Ind. Ent. 10, t. 3, 1845.
 Bdl., Ann. Soc. Ent. Fr. 10, 313, 1852.
 Dbldy.-Hew., Gen. Diur. Lep. 2, 522, 1850-52.
 Chenu, Pap. 226, 383, 1851-53.
 Morr., Syn. 109, 1862.
 Stgr., Cat. 35, 1871.
 Kirby, Cat. 602, 1871.
 Scud., Mem. Bost. Soc. Nat. Hist. 2, 350, t. 10, 1874.
 Streck., Cat. 167, 1878.
 Scud., Can. Ent. 20, 149, 1888.
virgula Retz., Gen. Sp. Ins. 31, 7, 1783.
Hab.—Europe, Siberia, Nth. Am.
 —**Var. oregonia** Edw., Can. Ent. 15, 150, 1883.
 Edw., Cat. 67, 1884.
Hab.—Cal., Nev., Br. Am.
Var. columbia Scud., Syst. Rev. 56, 1872.
 Streck., Cat. 168, 1878.
 Edw., Cat. 67, 1884.
sylvanoides Scud. (not Bd.), Mem. Bost. Soc. Nat. Hist. 2, 349, pl. 10, f. 21, 22, 1874.
Hab.—Cal.
 —**Var. colorado** Scud., Mem. Bost. Soc. Nat. Hist. 349, pl. 10, f. 16-18, 1874.
 Streck., Cat. 168, 1874.
 Edw., Cat. 67, 1884.
Hab.—Cal., Wash., Col., Ariz.
 —**Var. idaho** Edw., Can. Ent. 15, 148, 1883.
Hab.—Cal., Oreg., Wash., Br. Am.
 —**Var. nevada** Scud., l. c. 347, pl. 10, f. 1-4, 1874.
 Streck., Cat. 168, 1878.
 Edw., Cat. 67, 1884.
Hab.—Nev., Col., Ariz., Br. Am., Vanc. Isld.

- **Var. manitoba** Scud., l. c. 351, pl. 10, f. 8-11, 1874.
 Streck., Cat. 168, 1878.
 Edw., Cat. 67, 1884.
 Scud., But. 2, 1646, pl. 17, f. 1, 4, 1889.*
Hab.—Lake Winnipeg, Br. Col., Wash., Cal., Br. Am., Col., Nepigon.
- Var. assiniboia** Lyman, Can. Ent. 24, 57, 1892.
Hab.—Regina, Canada.
- Var. laurentina** Lyman, Can. Ent. 25, 58, 1893.
Hab.—Lower St. Lawrence.
- Var. manitoboides** Fletcher, Rept. Ent. Soc. Ont. 19, 86, 1888.
Hab.—Nepigon.
- **Var. juba** Scud., Syst. Rev. Am. But. 77, 1872.
 Scud., Mem. Bost. Soc. Nat. Hist. 2, 349, t. 10, f. 19, 20, 1874.
 Streck., Cat. 168.
 Edw., Cat. 68, 1884.
Hab.—Cala., Col.
- Var. viridis** Edw., Can. Ent. 15, 147, 1883.
 Edw., Cat. 68, 1884.
Hab.—Los Vegas, N. Mex.
483. **Sassacus** Harris, Ins. Inj. Veg. Flint's Ed. 315, 1862.
 Morr., Syn., 110, 1862.
 Scud., Proc. Ess. Ins. 3, 173, 1862.
 Scud., Proc. Chicago Acad. 335, 1868.
 Kirby, Cat. 599, 1871.
 Scud., Syst. Rev. Am. Butt. 77, 1872.
 Scud., Mem. Bost. Soc. Nat. Hist. 2, 346, t. 10, 1874.
 Streck., Cat. 165, 1878.
 Fern., Butt. Me. 96, 1834.
 Edw., Cat. 68, 1884.
 French, But. 305, 1885.
 Mayn., But. 60, pl. 6, f. 93, a, b, 1886.
 Scud., But. 2, 1641, pl. 10, f. 13, 16, 1889.*
Hab.—N. E., N. Y. to Neb., Ga., Fla., Col., Nepigon, Can. (Fletcher).
484. **Harpalus** Edw., Tr. A. E. Soc. 9, 3, 1881.
 Edw., Cat. 68, 1884.
Hab.—Nev.
485. **Pawnee** Dodge, Can. Ent. 6, 44, 1874.
 Streck., Cat. 167, 1878.
 Edw., Cat. 68, 1884.
Hab.—Neb., Mont.
486. **Ottoe** Edw., Proc. Ent. Soc. Phil. 6, 207, 1866.
 Kirby, Cat. 602, 1871.
 Scud., Syst. Rev. Am. Butt. 78, 1872.
 Scud., Mem. Bost. Soc. Nat. Hist. 2, 348, pl. 10, f. 6, 1874.
 Streck., Cat. 165, 1878.
 Edw., Cat. 68, 1884.
Hab.—Neb., Ind. Terr., Ariz.
487. **Lasus** Edw., ♀, Pap. 4, 54, 1884.
 Edw., Cat. 68, 1884.
Hab.—So. Ariz.
488. **Cabelus** Edw., Tr. A. E. Soc. 9, 4, 1881.
 Edw., Cat. 68, 1884.
Hab.—Nev., Cala.
489. **Napa** Edw., Proc. Ent. Soc. Phil. 4, 202, pl. 1, 1864.
 Reak., Proc. Ent. Soc. Phil. 150, 1866.
 Scud., Proc. Chicago Acad. 335, 1868.
 Kirby, Cat. 602, 1871.
 Scud., Syst. Rev. Am. Butt. 77, 1872.
 Streck., Cat. 165, 1878.
 Edw., Cat. 68, 1884.
dacotah Edw., Trans. Am. Ent. Soc. 3, 277, 1871.
Hab.—Col.
490. **Meteca** Scud., Proc. Ess. Ins. 3, 177, 1862.
 Kirby, Cat. 607, 1871.
 Scud., Syst. Rev. Am. Butt. 76, 1872.
 Streck., Cat. 169, 1878.

- Edw., Cat. 68, 1884.
 French, But. 306, 1886.
 Mayn., But. 58, pl. 7, f. 88. 88a, 1886.
 Scud., But. 2, 1650, pl. 10, f. 5, 11, 1889.*
- ridingsii* Reak., Proc. Ent. Soc. Phil. 6,
 151, 1866.
 Kirby, Cat. 615, 1871.
 Streck., Cat. 168, 1878.
- Hab.*—N. H., Conn., N. Y., Penna., N.
 J., N. C., Tenn., Mo., Col., Fla.,
 Tex.
491. **Rhesus** Edw., Field and Forrest 3,
 116, 1877.
 Streck., Cat. 191, 1878.
 Edw., Cat. 68, 1884.
- Hab.*—Col., Ariz.
492. **Carus** Edw., Can. Ent. 15, 34, 1883.
 Edw., Cat. 68, 1884.
- Hab.*—West Tex., Ariz.
493. **Uncas** Edw., Proc. Ent. Soc. Phil. 2,
 19, pl. 5, ♂, 1863.
 Kirby, Cat. 600, 1871.
 Scud., Syst. Rev. Am. But. 78, 1872.
 Streck., Cat. 169, 1878.
 Edw., Cat. 68, 1884.
 French, But. 308, 1885.
 Scud., But. 3, 1862, 1889.
- Hab.*—Del. to Ohio, Dak. to Ariz., Br.
 Am.
494. **Licinus** Edw., Tr. A. E. Soc. 3,
 275, 1871.
 Streck., Cat. 169, 1878.
 Edw., Cat. 68, 1884.
- Hab.*—Tex.
495. **Attalus** Edw., Tr. A. E. Soc. 3,
 276, 1871.
 Streck., Cat. 169, 1878.
 Edw., Cat. 69, 1884.
 Scud., But. 3, pl. 17, f. 9, 12, 1889.
- seminole* Scud., Syst. Rev. 55, 1872.
 Streck., Cat. 169, 1878.
 Edw., Cat. 68, 1884.
- slossonæ* Skinner, Ent. Am. 6, 138, 1890.
 French, But. 397, 1896.
- Hab.*—Io., N. J., N. C., Fla., Tex.
496. **Yuma** Edw., l. c. 4, 346, 1873.
 Streck., Cat. 165, 1878.
 Edw., Cat. 69, 1894.
- Hab.*—Ariz.
497. **Snowi** Edw., ♂, Can. Ent. 9, 27,
 1877.
 ♀ Field and Forrest 3, 117, 1877.
 Streck., Cat. 169, 1878.
 Edw., Cat. 68, 1884.
- Hab.*—Col., N. Mex., Ariz.
498. **Leonardus** Harr., 314, f. 138, 1862,
 Morr., 110, 1862.
 Scud., Proc. Ess. Ins. 3, 172, 1862.
 Scud., Proc. Chicago Acad. 335, 1868.
 Kirby, Cat. 599, 1871.
 Scud., Syst. Rev. Am. But. 78, 1872.
 Streck., Cat. 169, 1878.
 Edw., Cat. 69, 1884.
 Fern., Butt. Me. 95, 1884.
 Mayn., 61, pl. 8, f. 95, 95a, 1886.
 Scud., But. 2, 1673, pl. 10, f. 12, 14,
 1889.*
 Winn, Can. Ent. 23, 97, 1891.
- Hab.*—Montreal, Can., N. E. to W. Va.,
 Indian River, Fla., Kans, Queb.
499. **Meskei** Edw., Can. Ent. 9, 58, 1877.
 Streck., Cat. 169, 1878.
 Edw., Cat. 69, 1884.
- straton* Edw., ♂, ♀, Pap. 1, 78, 1881.
- Hab.*—Tex., Indian River, Fla.
500. **Nemorum** Bd., Ann. Soc. Ent. Fr.
 2, 10, 314, 1852.
 Kirby, Cat. 602, 1871.
 Scud., Syst. Rev. Am. But. 78, 1872.
 Streck., Cat. 166, 1878.
 Edw., Cat. 69, 1884.
- yreka* Edw., Proc. Ent. Soc. Phil. 6, 207,
 1866.
- Hab.*—Cal.

501. **Sylvanoides** Bd., Ann. Soc. Ent.
Fr. 2, 10, 313, 1852.
Morr., 107, 1862.
Kirby, Cat. 602, 1871.
Streck., Cat. 167, 1878.
Edw., Cat. 69, 1884.
sonora Scud., Syst. Rev. 57, 1872.
Hab.—Cala., Neb., Col., Utah, Wash.,
Vanc. Isld.
502. **Agricola** Bd., Ann. Soc. Ent. Fr.
2, 10, 314, 1852.
Morr., 108, 1862.
Kirby, Cat. 602, 1871.
Scud., Syst. Rev. Am. Butt. 78, 1872.
Streck., Cat. 166, 1878.
Edw., Cat. 69, 1884.
Hab.—Cala.. Nev., Wash.
503. **Milo** Edw., Can. Ent. 15, 34, 1883.
Edw., Cat. 69, 1884.
Hab.—Mt. Hood, Oreg.
504. **Pratincola** Bd., l. c. 2, 10, 315,
1852.
Morr., 108, 1862.
Kirby, Cat. 602, 1871.
Scud., Syst. Rev. Am. Butt. 83, 1872.
Streck., Cat. 167, 1878.
Edw., Cat. 69, 1884.
Hab.—Cala., Wash.
505. **Verus** Edw., Trans. Am. Ent. Soc. 9,
4, 1881.
Edw., Cat. 69, 1884.
Hab.—Havilah, Cala.
506. **Campestris** Bdl., Ann. Soc. Ent.
Fr. 2, 10, 316, 1852.
Morr., Syn. 108, 1862.
Kirby, Cat. 602, 1871.
Scud., Syst. Rev. Am. Butt. 78, 1872.
(var.) Streck., Cat. 164, 1878.
Edw., Cat. 69, 1884.
Aaron, Pap. 4, 180, 1885.
huron Edw., Proc. Ent. Soc. Phil. 11, 16,
t. 1, 1863.
Reak., l. c. 6, 150, 1866.
Kirby, Cat. 600, 1871.
Scud., Syst. Rev. Am. Butt. 78, 1872.
Streck., Cat. 164, 1878.
Edw., Cat. 69, 1884.
French, But. 312, 1885.
Mayn., But. 60, pl. 8, f. 94, 94a, 1886.
Scud., But. 2, 1661, pl. 17, f. 8, 16, 1889*.
507. **Stigma** Skinner, Can. Ent. 28, 188,
1896.
Hab.—Tex., N. Mex.
508. **Morrisonii** Edw., Field and For-
rest 3, 116, 1878.
Streck., Cat. 191, 1878.
Edw., Cat. 69, 1884.
Hab.—So. Col., Ariz.
509. **Phylæus** Dru., Ill. Ex. Ent. pl. 13,
1770.
Latr., Enc. Meth. 9, 767, 1823.
Bdl.-Lec., Lep. Am. Sept. t. 78, 1833.
Dldy.-Hew., Gen. Diur. Lep. 2, 522,
1850 52.
La Sagra, Hist. Cuba An. Art. 645,
1857.
Kirby, Cat. 600, 1871.
Morris, Syn. 118, 1862.
H.-S., Reg. Corr.-blatt. 19, 53, 1865.
Scud., Syst. Rev. Am. Butt. 77, 1872.
Streck., Cat. 164, 1878.
Chapin. Can. Ent. 11, 190, 1879.*
Plotz., Stett. Ent. Zeit. 44, 26, 1883.
Edw., Cat. 70, 1884.
Godm.-Salv., Proc. Zool. Soc. Lond.
318, 1884.
French, But. 313, 1886.
Scud., But. 2, 1630, pl. 17, f. 10, 13,
1889.*
Panton, Jour. Inst. Jamaica 2, 440,
1898.*
augias Hub., Zutr. Ex. Schmett. f. 227,
228, 1823.
bucephalus Steph., Ill. Br. Ent. Haust.
102, t. 10, ♀, 1828.

- Steph., Cat. Br. Ins. Haust. 28, 1829.
 Humph.-West., Br. But. 126. t. 40, ♂, 1841.
 Wood, Ind. Ent. 10, 1845.
- Hab.*—Mid. and Gulf Sts. to Pac., Mex., West Indies., Cent. Am., Brazil to Argentina.
510. **Brettus** Bdl.-Lec., Lep. Am. Sept. t. 75, ♀, (♂), 1833.
 Dbldy.-Hew., Gen. Diur. Lep. 2, 523, 1850-52.
 La Sagra, Hist. Cuba An. Art. 646, 1857.
 Morr., Syn. 118, 1862.
 Kirby, Cat. 600, 1871.
 Scud., Syst. Rev. Am. But. 79, 1872.
 Streck., Cat. 165, 1878.
 Edw., Can. Ent. 11, 190, 1879.*
 Edw., Cat. 70, 1884.
 French, But. 314, 1885.*
 Mayn., But. 62, pl. 8, f. 97, 97a, 1886.
 Scud., But. 2, 1701, pl. 17, f. 11, 15, 1889.
- ♂ *wingina* Scud., Proc. Ess. Ins. 3. 173, 1862.
- Var. brettoides* Edw., Pap. 3, 71, 1883.
 Edw., Cat. 70, 1884.
- Hab.*—W. Va., N. C., Gulf States.
511. **Chusca** Edw., Trans. Am. Ent. Soc. 4, 346, 1873.
 Edw., Cat. 70, 1884.
- Hab.*—Arizona.
512. **Draco** Edw., Trans. Am. Ent. Soc. 3, 274, 1871.
 Streck., Cat. 165, 1878.
 Edw., Cat. 70, 1884.
- Hab.*—Col., Br. Am.
513. **Sabuleti** Bd., Ann. Soc. Ent. Fr. 2, 10, 316, 1852.
 Morr., 109, 1862.
 Kirby, Cat. 602, 1871.
 Scud., Syst. Rev. Am. But. 78, 1872.
 Streck., Cat. 168, 1878.
 Edw., Cat. 70, 1884.
- Hab.*—Cala., N. Mex.
514. **Otho** Abb.-Sm., Ins. Ga. 1, 31, t. 16, 1797.
 Kirby, Cat. 603, 1871.
 Streck., Cat. 170, 1878.
 Edw., Cat. 70, 1884.
 French, 315, 1885.
- Var. egeremet* Scud., Proc. Ess. Ins. 3, 174, 1862.
 French, But. 315, 1885.
 Mayn., But. 62, pl. 8, f. 98, 98a, 1886.
- otho* Bdl.-Lec., Lep. Am. Sept. t. 77, 1833*.
- ætina* Scud., Syst. Rev. Am. But. 79, 1872.
 Scud., But. 2, 1696, pl. 10, f. 15, 19, 1889.*
- ursa* Worth., Can. Ent. 12, 49, 1880.
- Hab.*—Atl. Sts., Miss. Valley, Tex., Ont.
515. **Peekius** Kirby, Faun. Bor. Am. 4, 300, t. 4, 1837.
 Emm., Nat. Hist. N. Y. Agri. 5, 216, t. 32, f. 8, 1854.
 Harr., Ins. Inf. Veg. Flint's Ed. 315, f. 139, ♀, 1862.
 Morr., Syn. 120, 1862.
 Kirby, Cat. 600, 1871.
 Scud., Syst. Rev. Am. But. 78, 1872.
 Streck., Cat. 166, 1878.
 Edw., Cat. 70, 1884.
 Fern., But. Me. 97, 1884.
 French, But. 316, f. 84, 1885.
 Mayn., But. 61, pl. 8, f. 96, 96a, 1889.
 Scud., But. 2, 1683, pl. 10, f. 18, 22, 1889.*
- ♂ *wamsutta* Harr., Ins. Inf. Veg. Flint's Ed. 318, f. 141, 1862.
 Morr., Syn. 111, 1862.
 Scud., Proc. Ess. Ins. 3, 174, 1862.
 Saund., Can. Ent. 1, 66, 1869.*
 Kirby, Cat. 600, 1871.
- Hab.*—N. E. to Wis., W. Va. to Tex., Kans., Ont., Queb.
516. **Mystic** Scud., Proc. Ess. Ins. 3, 172, 1862.
 Edw., Proc. Ent. Soc. Phil. 2, 15, pl. 1, 1863.
 Saund., Can. Ent. 1, 66, 1869.*
 Kirby, Cat. 599, 1871.

- Scud., Syst. Rev. Am. But. 80, 1872.
 Streck., Cat. 165, 1878.
 Edw., Cat. 70, 1884.
 Fern., But. Me. 98, 1884.*
 French, But. 318, 1885.*
 Mayn., Ent. 62, pl. 8, f. 99, 99a, b, 1886.
 Fletcher, Can. Ent. 4, 159, 1888.*
 Scud., But. 2, 1705, pl. 10, f. 25, 26, 1889.*
Hab.—N. E., N. Y., Ohio, N. J., Io., Dak.
517. **Siris** Edw., Pap. 1. 47, 1881.
 Edw., Cat. 70, 1884.
Hab.—Puget Sound, Wash.
518. **Mardon** Edw., Pap. 1, 47, 1881.
 Edw., Cat. 70, 1884.
Hab.—Puget Sound, Wash.
519. **Cernes** Bdl.-Lec., Lep. Am. Sept. t. 76, f. 1, 2, 1833.
 Dbldy.-Hew., Gen. Diur. Lep. 2, 523, 1850-52.
 Kirby, Cat. 599, 1871.
 Streck., Cat. 169, 1878.
 Plotz., Stett. Ent. Zeit. 44, 26, 1883.
 Edw., Cat. 70, 1884.
 French, But. 320, 1885.
 Mayn., But. 64, pl. 6, f. 102, 1886.
ahaton Harr., Ins. Inj. Veg. Flint's Ed. 317, f. 140, 1862.
 Morr., Syn. 111, 1862.
 Scud., Proc. Ess. Inst. 3, 176, 1862.
 Scud., Proc. Chicago Acad. 335, 1868.
 Kirby, Cat. 600, 1871.
taumas Scud., But. 2, 1725, pl. 10, f. 17, 1889.*
Hab.—Br. Am., Ont., Queb., N. E. to Mont., Utah, Dak., Fla.
520. **Aleina** Skinner, Ent News 4, 513, 1893. *na 511 1894*
Hab.—Col.
521. **Baracoa** Luc., Sagra Hist. Cuba 7, 650, 1857.
 Kirby, Cat. 606, 1871.
 Aaron, Pap. 4, 150, 1885.
amadis Herr., Schaff. Gundlach Pap. 1, 113, 1881.
myus French, Can. Ent. 17, 34, 1884.
 French, But. 321, 1885.
Hab.—Fla., Antilles.
522. **Manataaqua** Scud., Pr. Ess. Ins. 3, 175, 1-62.
 Kirby, Cat. 599, 1871.
 Scud., Syst. Rev. Am. But. 80, 1872.
 Streck., Cat. 170, 1878.
 Edw., Cat. 71, 1884.
 Fern., But. Me. 100, 1884.
 French, But. 322, 1885.
 Mayn., But. 63, pl. 8, f. 101, 101a, b, 1886.
 Scud., But. 2, 1720, pl. 10, f. 23, 28, 1889.*
cernes Harr., 316, 1862.
Hab.—U. S. generally; B. Am.
523. **Verna** Edw., Proc. Ac. Nat. Sci. Phil. 57, 1862.
 Kirby, Cat. 599, 1871.
 Scud., Syst. Rev. Am. But. 80, 1872.
 Streck., Cat. 171, 1878.
 Edw., Cat. 71, 1884.
 French, But. 324, 1885.
 Mayn., But. 64, pl. 8, f. 104, 104a, 1886.
 Scud., But. 2, 1742, pl. 10, f. 27, 33, 1889.*
pottawattomie Worth., Can. Ent. 12, 50, 1880.
Hab.—N. Y., Md. to Ga., W. Va. Ohio, Ind., Kans.
524. **Metacomet** Harr., 317, 1862.
 Morr., Syn. 111, 1862.
 Scud., Proc. Chicago Acad. 335, 1868.
 Kirby, Cat. 600, 1871.
 Scud., Syst. Rev. Am. But. 80, 1872.
 Putnam, Proc. Dav. Ac. 1, 168, 1876.
 Streck., Cat. 171, 1878.
 Edw., Cat. 71, 1884.
 Fern., But. Me. 100, 1884.
 French, But. 326, 1885.
 Mayn., But. 64, pl. 8, f. 103, a, b, 1886.
 Scud., But. 2, 1739, pl. 10, f. 29, 30, 1889.*

- rurea* Edw., Proc. Ac. Nat. Sci. Phil. 58, 1862.
- Hab.*—N. E. to Mont., Kans., Nev., Ont., Queb.
- Var. vestris* Bd., ♀, Ann. Soc. Ent. Fr. 2, 10, 317, 1852.
- Morr., Syn. 109, 1862.
- Kirby, Cat. 597, 1871.
- Scud., Syst. Rev. Am. But. 80, 1872.
- Streck., Cat. 171, 1878.
- Edw., Cat. 71, 1884.
- kiowah* Reak., Proc. Ent. Soc. Phil. 6, 150, 1866.
- osceola* Lint., 30th Rep. N. Y. St. Mus. Nat. Hist. 170, 1878.
- Litn., Ent. Cont. 4, 58, 1878.
- Hab.*—Cala., Col., Indian River, Fla.
525. **Bellus** Edw., Pap. 4, 57, 1884.
- Edw., Cat. 74, 1884.
- Hab.*—So. Ariz.
526. **Accius** Sm.-Abb., pl. 23, ♀, 1797.
- Hew., Gen. Diur. Lep. 2, 523, 1850-52.
- Kirby, Cat. 597, 1871.
- Scud., Syst. Rev. Am. But. 82, 1871.
- Streck., Cat. 171, 1878.
- Chap., Can. Ent. 11, 191, 1879.*
- Edw., Cat. 71, 1884.
- French, But. 327, 1885.
- Mayn., But. 65, pl. 8, f. 105, 105a, 1886.
- Scud., But. 2, 1768, pl. 17, f. 3, 7, 1889.*
- monoco* Scud., Pres. Ess. Ins. 3, 178, 1862.
- nortonii* Edw., Tr. A. E. Soc. 1, 287, 1867.
- punctella* Gr.-Rob., Tr. A. E. Soc. 1, 1, 1867.
- Hab.*—Gulf St., N. C., East Pa. (auct. Aaron).
527. **Loammi** Whitn. Can. Ent. 8, 76, 1876.
- Streck., Cat. 191, 1878.
- Edw., Cat. 71, 1884.
- French, But. 328, 1885.
- regulus* Edw., Tr. A. E. Soc. 9, 5, 1881.
- Hab.*—Fla., N. C.
528. **Horus** Edw., Tr. A. E. Soc. 3, 277, 1871.
- Streck., Cat. 171, 1878.
- Edw., Cat. 71, 1884.
- Hab.*—Texas.
529. **Deva** Edw., ♀, Tr. Am. Ent. Soc. 5, 292, 1876.
- Edw., ♂, l. c. 9, 5, 1881.
- Edw., Pap. 2, 138, 1882.
- Edw., Pap. 4, 55, 1884.
- Hab.*—So. Col., Ariz.
530. **Lunus** Edw., Pap. 4, 56, 1884.
- Edw., Cat. 71, 1884.
- Hac.*—So. Ariz.
531. **Maculata** Edw., Pr. Ent. Soc. Phil. 4, 201, pl. 1, 1865.
- Kirby, Cat. 599, 1871.
- Scud., Syst. Rev. Am. Rep. 81, 1872.
- Streck., Cat. 173, 1878.
- Chapm., Can. Ent. 11, 191, 1879.*
- Edw., Cat. 71, 1884.
- French, But. 330, 1885.
- Scud., But. 2, pl. 17, f. 6, 1889.*
- Hab.*—Gulf St., occasl. N. Y.
532. **Panoquin** Scud., Pr. Ess. Ins. 3, 178, 1662.
- Kirby, Cat. 608, 1871.
- Scud., Syst. Rev. Am. But. 81, 1872.
- Streck., Cat. 173, 1878.
- Edw., Cat. 72, 1884.
- Aaron. Pap. 4, 22, 1884.
- French, But. 332, 1885.
- Scud., But. 3, 1867, 1889.
- Skinner, Ent. News 1, 8, 1890.*
- ophis* Edw., Tr. A. E. Soc. 3, 216, 1871.
- Hab.*—Gulf St., Atlantic City, N. J.
533. **Panoquinoides** Skinner, Ent. News 2, 175, 1891.
- French, But. 398, 1896.
- Hab.*—Key West, Fla.

534. **Ocola** Edw., Proc. Ent. Soc. Phil. 2, 20, pl. 11, 1863.
 Kirby, Cat. 607, 1871.
 Scud., Syst. Rev. Am. But. 81, 1872.
 Streck., Cat. 173, 1878.
 Edw., Cat. 72, 1884.
 French, But. 332, 1885.
 Scud., But. 3, 1866, 1889.
Hab.—Gulf St., East Pa., Whitings, Ind.
535. **Errans** Skinner, Ent. News 3, 174, 1892.
 Dyar, Ent. News 3, 175, 1892.*
Hab.—Yosemite, Cal.
536. **Ethlius** Cram., 4, pl. 392, f. A, B, 1782.
 Hub., Verz. Bek. Schmett. 107, 1816.
 Kirby, Cat. 596, 1871.
 Scud., Syst. Rev. Am. But. 82, 1872.
 Streck., Cat. 173, 1878.
 Edw., Cat. 72, 1884.
 French, But. 332, f. 85, 1885.*
 H. Edw., Ent. Am. 3, 163, 1887.*
 Scud., But. 2, 1750, pl. 17, f. 14, 1889.*
 Cockerell, Ent. News 3, 78, 1892.*
 Dyar, Ent. News 9, 163, 1898.*
chemnis Fab., Ent. Syst. 3, 331, 1793.
olyntus Bd.-Lec., pl. 75, 1833.
Hab.—Gulf St., occasl. N. Y., W. Indies, St. Am.
537. **Pittacus** Edw., Pap. 2, 138, 1882.
 Edw., Cat. 72, 1884.
Hab.—Ariz.
538. **Python** Edw., l. c. 2, 139, 1882.
 Edw., Cat. 72, 1884.
Hab.—Ariz.
539. **Cestus** Edw., l. c. 4, 57, 1884.
 Edw., Cat. 72, 1884.
Hab.—So. Ariz.
540. **Rhena** Edw., Field and Forrest 3, 115, 1877.
 Streck., Cat. 119, 1878.
 Edw., Cat. 72, 1884.
Hab.—So. Col.
541. **Biniacula** Gr.-Rob., Ann. N. Y. Lyc. Nat. Hist. 8, 433, 1867.
 Kirby, Cat. 603, 1871.
 Scud., Syst. Rev. Am. But. 80, 1872.
 Streck., Cat. 170, 1878.
 Edw., Cat. 72, 1884.
 Fern., But. Me. 101, 1884.
 French, But. 334, 1885.
 Mayn., But. 63, pl. 8, f. 100, 100a, b, 1886.
 Scud., But. 2, 1718, pl. 10, f. 20, 24, 1889.
acanootus Scud., Pr. Bost. Soc. Nat. Hist. 11, 381, 1868.
illinois Dodge, Can. Ent. 4, 217, 1872.
Hab.—N. E. to Neb., Ill.
542. **Pontiac** Edw., Proc. Ent. Soc. Phil. 2, 17, pl. 11, ♂, 1863.
 Kirby, Cat. 600, 1871.
 Streck., Cat. 169, 1878.
 Edw., Cat. 72, 1884.
 French, But. 335, 1885.
 Mayn., But. 59, pl. 7, f. 91, 91a, 1886.
 Scud., But. 2, 1732, pl. 17, f. 2, 5, 1889.
conspicua Edw., l. c. 2, 17, pl. 5, ♀, 1863.
 Scud., Pr. Chicago Ac. Nat. Sci. 336, ♂, 1868.
 Kirby, Cat. 600, 1871.
 Parker, ♂, Can. Ent. 3, 51, 1871.
 Kirby, Cat. 606, 1871.
 Scud., Syst. Rev. Am. But. 77, 1872.
orono Scud., Syst. Rev. 58, 1872.
Hab.—Mass. to Neb., N. J.
543. **Yehl** Skinner, Ent. News 4, 212, 1893.
 French, But. 396, 1896.
Hab.—Tenn., Ga., Fla.
544. **Dion** Edw., Can. Ent. 11, 238, 1879.
 Edw., Cat. 72, 1884.
 French, But. 337, 1885.
palatka Scud., But. 3, 1863, 1889.
Hab.—Neb., Hamilton, Ont., N. Y., N. J.

545. **Vitellius** Fabr. Ent. Syst. 3, 1, 327, 1793.
 Hub., Samm. Ex. Schmett. 2, Lep. 1, Pap. 2, Gent. 6, Astyci G. Vig 6, 1816-1844.
 Hub., Verz. Bek. Schmett. 113, 1816.
 Streck., Cat. 171, 1878.
delaware Edw., Proc. Ent. Soc. Phil. 2, 19, t. 5, f. 2, ♀, 1863.
 Scud., Proc. Chicago Ac. 336, 1868.
 Kirby, Cat. 336, 1868.
 Edw., Can. Ent. 11, 190, 1879.*
 Edw., Cat. 73, 1884.
 French, But. 342, 1885.*
 Aaron, Pap. 4, 181, 1885.
 Mayn., But. 59, pl. 7, f. 90, 90a, 1886.
logan Edw., Proc. Ent. Soc. Phil. 2, 18, t. 1, f. 5, ♀, 1863.
 —Edw., Trans. Am. Ent. Soc. 2, 228, 1867.
 Scud., Proc. Chicago Ac. 336, 1868.
 Kirby, Cat. 607, 1871.
 Scud., Syst. Rev. Am. But. 77, 1882.
Hab.—Mass. to Fla., Mont., Dak., Kans., Illinois.
546. **Lagus** Edw., Trans. Am. Ent. Soc. 9, 5, 1881.
 Edw., Cat. 73, 1884.
Hab.—West Texas, So. Col.
547. **Streckeri** Skinner, Ent. News 4, 212, 1893.
Hab.—Fla.
548. **Arpa** Bd.-Lec., pl. 68, 1833.
 Dbldy.-Hew., Gen. Diur. Lep. 2, 523, 1850-52.
 Morr., Syn. 117, 1862.
 Kirby, Cat. 597, 1871.
 Scud., Syst. Rev. Am. But. 80, 1872.
 Streck., Cat. 170, 1878.
 Chapm., Can. Ent. 11, 191, 1879.*
 Edw., Cat. 72, 1884.
 French, But. 339, 1885.
Hab.—Gulf States.
549. **Palatka** Edw., Trans. Am. Ent. Soc. 1, 287, 1867.
 Chapm., l. c. 11, 192, 1879.*
 Edw., Cat. 340, 1885.
Hab.—Gulf States, Neb.
550. **Howardi** Skinner, Can. Ent. 28, 187, 1896.
Hab.—Florida.
551. **Aaroni** Skinner, Ent. News 1, 6, 1890.
 French, But. 395, 1896.
 Jones, Ent. News 8, 121, pl. 7, f. 7, 8, 1897.
Hab.—Cape May Co., N. J., Va. (coast).
552. **Melane** Edw., Trans. Am. Ent. Soc. 2, 312, 1869.
 Kirby, Cat. 607, 1871.
 Streck., Cat. 172, 1878.
 Edw., Cat. 73, 1884.
Hab.—Cal., Mex.
553. **Arogos** Bd.-Lec., Lep. Am. Sept. t. 76, f. 3, 4, 5, 1833.
 Dbldy.-Hew., Gen. Diur. Lep. 2, 523, 1850-52.
 Morr., Syn. 118, 1862.
 Kirby, Cat. 600, 1871.
- vitellius* Abb.-Sm., Ins. Ga. 1, 34, t. 17, 1797.
 Dbldy.-Hew., Gen. Diur. Lep. 2, 52, 1850-52.
 Morris, Syn. 120, 1862.
 Kirby, Cat. 603, 1871.
 Edw., Cat. 73, 1884.
- iowa* Scud., Trans. Chicago Ac. 336, 1868.
 Scud., Syst. Rev. Am. But. 77, 1872.
 Kirby, Cat. 610, 1871.
 Streck., Cat. 173, 1878.
Hab.—Iowa, Nebraska, Gulf States.
554. **Byssus** Edw., Can. Ent. 12, 224, 1880.
 Edw., Cat. 73, 1884.
 French, But. 334, 1885.
Hab.—Indian River, Fla., Tex.
555. **Phylace** Edw., Field and Forrest 3, 117, 1877.
 Streck., Cat. 191, 1878.
 Edw., Cat. 73, 1884.
Hab.—So. Col., Ariz.

556. **Osyka** Edw., Trans. Am. Ent. Soc. 1, 228, 1867.
Kirby, Cat. 607, 1871.
Scud., Syst. Rev. Am. But. 79, 1872.
Streck., Cat. 173, 1878.
Edw., Cat. 73, 1884.
Scud., But. 3, 1865, 1889.
Hab.—Gulf Sts., Whitings, Ind.
557. **Comus** Edw., Trans. Am. Ent. Soc. 5, 206, 1876.
Streck., Cat. 174, 1878.
Edw., Cat. 73, 1884.
Aaron, Pap. 4, 181, 1885.
nilus Edw., Field and Forrest 3, 118, 1877.
Hab.—Texas, So. Col.
558. **Eufala** Edw., Trans. Am. Ent. Soc. 2, 311, 1869.
Kirby, Cat. 606, 1871.
Scud., Syst. Rev. Am. But. 79, 1872.
Streck., Cat. 173, 1878.
Edw., Cat. 73, 1884.
French, But. 345, 1855.
Hab.—Fla., Texas.
559. **Arabus** Edw., Pap. 2, 26, 1882.
Edw., Cat. 73, 1884.
Hab.—Ariz.
560. **Fusca** Gr.-Rob., Trans. Am. Ent. Soc. 1, 2, 1867.
Kirby, Cat. 607, 1871.
Scud., Syst. Rev. Am. But. 80, 1872.
Streck., Cat. 174, 1878.
Edw., Cat. 73, 1884.
French, But. 346, 1885.
Hab.—Gulf Sts., Penna.
561. **Nereus** Edw., Trans. Am. Ent. Soc. 5, 205, 1876.
Streck., Cat. 174, 1878.
Edw., Pap. 2, 139, 1882.
Edw., Cat. 73, 1884.
Hab.—Ariz.
562. **Hianna** Scud., Proc. Bost. Soc. Nat. Hist. 11, 382, 1868.
Kirby, Cat. 599, 1871.
Scud., Syst. Rev. Am. But. 80, 1872.
Streck., Cat. 171, 1878.
Edw., Cat. 73, 1884.
French, But. 347, 1885.
Mayn., But. 65, pl. 8, f. 106, 106a, 1886.
Scud., But. 2, 1771, pl. 10, f. 31, 32, 1889.
Hab.—Mass. to Neb.
563. **Viator** Edw., Proc. Ent. Soc. Phil. 4, 202, pl. 1, 1865.
Kirby, Cat. 608, 1871.
Scud., Syst. Rev. Am. But. 77, 1872.
Streck., Cat. 172, 1878.
Edw., Cat. 73, 1884.
French, But. 347, 1885.
Scud., But. 2, 1604, pl. 17, f. 20, 1889.
Hab.—Gulf Sts., Mass., N. J., Ill., Wis., Hamilton, Ont.
564. **Carolina** Skinner, Ent. News 3, 222, 1892.
Hab.—Hamlet, Richmond Co., N. C.
- Hesperia* (Pamphila) **unna** Plotz, Stett. Ent. Zeit. 44, 204, 1883.
Hab.—Phila. (unknown to American Entomologists).
Pamphila floridæ Mabilie, Bull. Soc. Ent. Fr. 67, 1876.
Hab.—Fla., Tex. (unknown to American Entomologists).
- AMBLYSCHIRTES** Speyer.
565. **Vialis** Edw., Pr. Ac. Nat. Sci. Phil. 58, 1862.
Kirby, Cat. 608, 1871.
Scud., Syst. Rev. Am. But. 75, 1872.
Streck., Cat. 174, 1878.
Edw., Cat. 73, 1884.
Fern., But. Me. 101, 1884.
French, But. 348, 1885.
Mayn., But. 57, pl. 6, f. 86, 86a, 1886.
Scud., But. 2, 1582, pl. 10, f. 4, 1889.*
Hab.—Orono, Me., Mid., So., West. Sts., Queb., Vanc.

566. **Nysa** Edw., Can. Ent. 9, 191, 1877.
 Streck., Cat. 175, 1878.
 Edw., Cat. 74, 1884.
similis Str., Lep. Pt. 14, 1878.
Hab.—Texas.
567. **Eos** Edw., Trans. Am. Ent. Soc. 3, 276, 1871.
 Streck., Cat. 174, 1878.
 Edw., Cat. 74, 1884.
 Aaron, Pap. 4, 181, 1885.
 French, But. 349, 1885.
Hab.—Tex., Ga., Fla.
568. **Celia** Skinner. Ent. News 6, 113, 1895.
Hab.—Blanco, Comal and Neueces Cos., Fla.
569. **Samoset** Scud., Pr. Ess. Ins. 3, 176, 1862.
 Scud., Syst. Rev. Am. But. 75, 1872.
 Streck., Cat. 174, 1878.
 Edw., Cat. 74, 1884.
 Fern., But. Me. 102, 1884.
 French, But. 350, 1886.
 Mayn., But. 58, pl. 7, f. 87, 87a, 1886.
 Scud., But. 2, 1587, pl. 10, f. 1, 3, 1889.*
hegon Scud., l. c. 3, 176, 1862.
 Kirby, Cat. 613, 1871.
- * *nemoris* Edw., Pr. Ent. Soc. Phil. 2, 507, 1863.
 Edw., l. c. 4, pl. 1, 1865.
alternata Gr.-Rob., Trans. Am. Ent. Soc. 1, 3, 1867.
 Kirby, Cat. 606, 1871.
Hab.—North. and Mid. Sts., Me. to Ga., Wis., Ia., Ont., Queb.
570. **Ænus** Edw., Field and Forrest 3, 118, 1877.
 Streck., Cat. 191, 1878.
 Edw., Cat. 74, 1884.
Hab.—West Tex., So. Col., N. Mex., Ariz.
571. **Simius** Edw., Trans. Am. Ent. Soc. 9, 6, 1881.
 Edw., Cat. 74, 1884.
Hab.—So. Col., Ariz.
572. **Cassus** Edw., Pap. 3, 71, 1883.
 Edw., Cat. 74, 1884.
Hab.—Mt. Graham, Ariz.
573. **Nanno** Edw., Pap. 2, 142, 1882.
 Edw., Cat. 74, 1884.
Hab.—Ariz.
574. **Textor** Hub. Zutr. Ex. Schmett. f. 515, 516, 1825.
 Dbldy.-Hew., Gen. Diur. Lep. 2, 518, 1850-52.
 Kirby, Cat. 606, 1871.
 Scud., Syst. Rev. Am. But. 76, 1872.
 Streck., Cat. 174, 1878.
 Edw., Cat. 74, 1884.
 French, But. 351, 1885.
oneko Scud., Pr. Ess. Ins. 3, 176, 1862.
wakulla Edw., Trans. Am. Ent. Soc. 2, 311, 1869.
Hab.—N. C. to Texas.
- PYRGUS** Westwood.
575. **Ericetorum** Bd., Ann. Soc. Ent. Fr. 2, 10, 313, 1852.
 Morr., 122, 1862.
 Kirby, Cat. 617, 1871.
 Scud., Syst. Rev. Am. But. 72, 1872.
 Streck., Cat. 177, 1878.
 Edw., Cat. 74, 1884.
- * *alba* Edw., Pr. Ent. Soc. Phil. 6, 206, 1866.
 Kirby, Cat. 614, 1871.
Hab.—N. Mex., Ariz., Cala., Oreg.
576. **Macaira** Reak., Proc. Ac. Nat. Sci. Phil. 334, 1866.
 Biol. Cent.-Am. 2, 447, 1897.
oceanus Edw., Trans. Am. Ent. Soc. 3, 213, 1871.
 Scud., Syst. Rev. Am. But. 72, 1872.
 Streck., Cat. 177, 1878.
 Edw., Cat. 74, 1884.
Leuc. locutia Hew., Ex. But. Leuc. t. 2, f. 19, 20, 1875.
 Edw., Cat. 83, 1884.
 Aaron, Pap. 4, 181, 1884.
Hab.—Ariz., Mex., Cent. Am.

577. **Domicella** Erichs., Schomb. Reise.
3, 601, 1848.
Biol. Cent. Am. 2, 444, 1897.
Var. nearchus Edw., Pap. 2, 26, 1882.
Hab.—Ariz., Mex., Cent. and Sth. Am.
578. **Tessellata** Scud. Syst. Rev. Am.
But. 73, 1872.
Scud., Can. Ent. 4, 77, 1872.
Edw., Cat. 75, 1884.
Putnam, Proc. Dav. Acad. 1, 197, 1876.
French, But. 352, f. 86, 1885.
communis Grote, Can. Ent. 4, 69, 220, 1872.
montivaga Scud., But. 2, 1536, 1889.*
Hab.—Br. Am., Pa. to Gulf of Mex., Atl.
to Pac.
579. **Montivagus** Reak., Proc. Ac. Nat.
Sci. Phil. 46, 1866.
Panton, Jour. Inst. Jamaica 2, 436,
1898.*
Hab.—Rocky Mts., Key West, Florida,
Antilles. Mex., Sth. Am.
580. **Centaureæ** Ramb., Faun. Ent.
And. pl. 8, f. 10, 1839.
Bdl., Gen. Sp. Ind. 36, 1840.
H.-S., Schmett. Eur. 1, Hesp. f. 1-3,
1845.
Wallgr., Skand. Dagf. 265, 1853.
Ramb., Cat. Lep. And. 1, 78, 1858.
Mosch., Wien. Ent. Mon. 8, 193, 1864.
Stgr., Cat. 34, 1871.
Kirby, Cat. 614, 1871.
Scud., Syst. Rev. Am. But. 74, 1872.
Streck., Cat. 176, 1878.
Edw., Cat. 75, 1884.
French, But. 353, 1885.
Scud., But. 2, 1542, pl. 15, f. 5, 1889.
ruralis Bd., Ann. Soc. Ent. Fr. 2, 10, 311,
1852.
Morr., Syn. 121, 1862.
Kirby, Cat. 616, 1871.
wyandot Edw., Pr. Ent. Soc. Phil. 2, 21,
pl. 5, 1863.
Kirby, Cat. 614, 1871.
Hab.—N. Y., W. Va., Col., Labr., Norway,
Lapland.
581. **Philetas** Edw., Pap. 1, 46, 1881.
Edw., Cat. 75, 1884.
Hab.—West Texas.
582. **Cæspitalis** Bd., Ann. Soc. Ent. Fr.
2, 10, 312, 1852.
Morr., 121, 1862.
Kirby, Cat. 616, 1871.
Scud., Syst. Rev. Am. But. 74, 1872.
Streck., Cat. 176, 1878.
Edw., Cat. 75, 1884.
ricara Edw., Pr. Ent. Soc. Phil. 4, 203, pl.
1, 1865.
Reak., l. c. 6, 150, 1866.
Kirby, Cat. 614, 1871.
petreius Edw., Trans. Am. Ent. Soc. 3,
195, 1870.
Streck., Cat. 176, 1878.
Hab.—Col., Nev., Cal., Oreg., Vanc.
583. **Xanthus** Edw., Field and Forrest
3, 142, 1877.
Edw., Cat. 75, 1884.
Hab.—So. Col.
584. **Scriptura** Bd., Ann. Ent. Soc. Fr.
2, 10, 312, 1852.
Morr., 121, 1862.
Kirby, Cat. 616, 1871.
Scud., Syst. Rev. Am. But. 73, 1872.
Streck., Cat. 177, 1878.
Edw., Cat. 75, 1884.
Hab.—Cal., Ariz., Mont.
585. **Nessus** Edw., Can. Ent. 9, 192, 1877.
Edw., Cat. 75, 1884.
notabilis Str., Lep. Pt. 14, 131, 1878.
Streck., Cat. 177, 1878.
Hab.—Coast to San Antonio, Texas.

NISONIADES Speyer.

586. **Brizo** Bd.-Lec. Lep. Am. Sept. pl.
66, 1833.*
Bdl., Ann. Soc. Ent. Fr. 2, 10, 310, 1852.
Dhldy.-Hew., Gen. Diur. Lep. 2, 520,
1850-52.
Morr., 114, 1862.
Harr., 309, f. 132, 1862.

- Scud.-Burg., Proc. Bost. Soc. Nat. Hist.
13, 289, 1870.
Kirby, Cat. 629, 1871.
Lint., Ent. Cont. 23d Rep. N. Y. State
Mus. t. 7, f. 9, 10, 1872.
Scud., Syst. Rev. Am. But. 71, 1872.
Streck., Cat. 179, 1878.
Edw., Cat. 75, 1884.
Fern., But. Me. 102, 1884.
French, But. 354, 1885.
Mayn., But. 55, pl. 7, f. 80, 80a, 1886.
Scud., But. 2, pl. 9, f. 3, 9, 1889.*
Hab.—Atl. to Rocky Mts., Col., Ariz., Br.
Am., Ont., Queb.
587. **Icelus** Lint., 23d Rep. N. Y. State
Cab. Nat. Hist. 162, 1872.
Scud.-Burg., Proc. Bost. Soc. Nat. Hist.
13, 288, 1870.
Kirby, Cat. 630, 1871.
Lint., Ent. Cont. 1, 30, pl. 7, f. 5, 6,
1872.
Scud., Syst. Rev. Am. But. 71, 1872.
Streck., Cat. 179, 1878.
Lint., Pap. 1, 72, 1881.
Edw., Cat. 75, 1884.
Fern., But. Me. 103, 1884.
Edw., Can. Ent. 17, 98, 1885.*
French., But. 355, 1885.*
Mayn., But. 54, pl. 7, f. 79, 79a, 1886.
Fletcher, Ent. Am. 4, 159, 1888.*
Scud., But. 2, 1507, pl. 9, f. 6, 1889.*
Hab.—N. E. to Mich., Ill., Fla., Col.,
Ariz., W. Terr., Ont., Assa.
588. **Somnus** Lint., Pap. 1, 73, 1881.
Edw., Cat. 76, 1884.
French, But. 556, 1885.
Hab.—Indian River, Fla.
589. **Lucilius** Lint., 23d Rep. N. Y.
State Cab. Nat. Hist. 162, 1872.
Lint., Ent. Cont. 1, 32, pl. 7, f. 1, 2, 1872.
Scud.-Burg., Proc. Bost. Soc. Nat. Hist.
13, 287, 1870.
Kirby, Cat. 630, 1871.
Lint., l. c. 4, 67, 1878.*
Streck., Cat. 178, 1878 (var. *lucilius*).
Edw., Cat. 76, 1884.
French, But. 357, 1885.*
Mayn., But. 54, pl. 7, f. 78, 78a, 1886.
Scud., But. 2, 1458, pl. 9, f. 4, 1889.*
Hab.—N. Eng., Mid. and Westn. Sts.
590. **Persius** Scud., Pr. Ess. Ins. 3, 170,
1862.
Scud.-Burg., Proc. Bost. Soc. Nat. Hist.
13, 286, 1870.
Kirby, Cat. 629, 1871.
Scud., Syst. Rev. Am. But. 71, 1872.
Lint., Ent. Cont. 23d Rep. N. Y. State
Mus. t. 7, f. 3, 4, 1872.
Streck., Cat. 178, 1878.
Edw., Cat. 76, 1884.
Fern., But. Me. 103, 1884.
French, But. 359, 1885.
Mayn., But. 54, pl. 7, f. 77, 77a, 1886.
Scud., But. 2, 1468, pl. 9, f. 1, 1889.*
Hab.—N. E. to Mont., W. Terr., Col., N.
Mex., Ariz., Tex.
591. **Ausonius** Lint., 23d Rep. N. Y.
State Cab. N. Hist. 166, 1872.
Lint., Ent. Con. 34, pl. 7, f. 11, 12, 1872.
Streck., Cat. 179, 1878.
Edw., Cat. 76, 1884.
French, But. 360, 1885.
Scud., But. 2, 1498, pl. 15, f. 2, 1889.
Hab.—Mid. Sts., W. Va.
592. **Afraninus** Lint. 30th Rep. N. Y.
Mus. Nat. Hist. 175, 1878.
Lint., Ent. Con. 4, 63, 1878.
Edw., Cat. 76, 1884.
Hab.—So. Col., Ariz.
593. **Martialis** Scud., Tr. Chicago Ac.
Nat. Sci. 1, 335, 1869.
Scud.-Burg., Proc. Bost. Soc. Nat. Hist.
13, 291, 1870.
Kirby, Cat. 629, 1871.
Lint., Ent. Cont. pl. 7, f. 7, 8, 1872.
Scud., Syst. Rev. Am. But. 71, 1872.
Streck., Cat. 178, 1878.
Edw., Cat. 76, 1884.
French, But. 362, 1885.
Mayn., But. 55, pl. 8, f. 81, 81a, 1886.
Scud., But. 2, 1493, pl. 9, f. 12, 1889.*
Hab.—Atl. St. to Fla., Miss. Vall., Kans.,
Col.

594. **Juvenalis** Fab., Ent. Syst. 3, 339, 1793.
Sm.-Abb., pl. 21, 1797.*
Latr., Enc. Meth. 9, 789, 1823.
Bdl.-Lec., Lep. Am. Sept. t. 65, 1833.*
Dbldy.-Hew., Gen. Diur. Lep. 2, 519, 1850-52.
Harr., Ins. Inj. Veg. Flint's Ed. 309, 1862*
Morr., Syn. 114, 1862.
Scud.-Burg., Proc. Bost. Soc. Nat. Hist. 13, 297, 1870.
Kirby, Cat. 629, 1871.
Scud., Syst. Rev. Am. But. 72, 1872.
Streck., Cat. 177, 1878.
Edw., Cat. 76, 1884.
French, But. 363, 1885.*
Mayn., But. 56, pl. 7, f. 82, 82a, 1886.
Scud., But. 2, 1476, pl. 9, f. 13, 14, 1889*.
- juvenis* Hub., Verz. Bek. Schmett. 108, 1816.
- costalis* Dbldy.-Hew., Gen. Diur. Lep. 2, 518, t. 79, f. 3, 1852.
- ennius* Scud.-Burg., Proc. Bost. Soc. Nat. Hist. 13, 296, 1870.
- Hab.*—Atl. Sts. to Fla., Miss. Valley, Col., Ariz., Ont., Queb., Vanc.
595. **Petronius** Lint. Pap. 1, 70, 1881.
Edw., Cat. 76, 1884.
French, But. 364, 1885.*
Hab.—Indian River, Fla.
596. **Horatius** Scud.-Burg., Proc. Bost. Soc. Nat. Hist. 13, 301, 1870.
Scud., But. 2, 1468, pl. 9, f. 7, 10, 1889.*
virgilius Scud.-Burg., Proc. Bost. Soc. Nat. Hist. 13, 302, 1870.
Hab.—Mass. to Fla.
597. **Terentius** Scud.-Burg., Proc. Bost. Soc. Nat. Hist., 13, 292, 1870.
Scud., But. 2, 1490, pl. 9, f. 15, 1889.
ovidius Scud.-Burg., Proc., Bost. Soc. Nat. Hist. 13, 295, 1870.
Hab.—Mass. to Fla.
598. **Propertius** Lint., Pap. 1, 71, 1881.
Edw., Cat. 76, 1884.
Hab.—Cala., Vanc.
599. **Nævius** Lint. Pap. 1, 69, 1881.
Edw., Cat. 76, 1884.
French, But. 366, 1885.
Hab.—Indian River, Fla.
600. **Paenivius** Lint., 30th Rep. N. Y. State Mus. Nat. Hist. 172, 1878.
Lint., Ent. Cont. 4, 60, 1878.
Streck., Cat. 178, 1878.
Edw., Cat. 76, 1884.
Hab.—N. Mex., Ariz., Col.
601. **Tatius** Edw., Pap. 2, 179, 1882.
Edw., Cat. 77, 1884.
Hab.—Ariz.
602. **Clitus** Edw., Pap. 2, 180, 1882.
Edw., Cat. 77, 1884.
Hab.—Ariz.
603. **Funeralis** Scud.-Burg., Proc. Bost. Soc. Nat. Hist. 13, 293, 1870.
Lint., 30th Rep. N. Y. State Mus. Nat. Hist. 173, 1878.
Lint., Ent. Cont. 4, 61, 1878.
Streck., Cat. 178, 1878.
Edw., Cat. 77, 1884.
Lint., Pap. 4, 144, 1885.
Aaron, Pap. 4, 182, 1885.
Hab.—Tex., Ariz., So. Cala.
604. **Tristis** Bd., Ann. Soc. Ent. Fr. 2, 10, 311, 1852.
Morr., 115, 1862.
Scud.-Burg., Proc., Bost. Soc. N. H. 13, 303, 1870.
Kirby, Cat. 630, 1871.
Scud., Syst. Rev. Am. But. 71, 1872.
Putnam, Proc. Dav. Acad. 186, 1876.
Lint., Ent. Cont. 4, 62, 1878.
Streck., Cat. 178, 1878.
Edw., Cat. 77, 1884.
Aaron, Pap. 4, 182, 1885.
Lint., Pap. 4, 144, 1885.
Hab.—Cala., Ariz.

605. **Tibullus** Scud.-Burg., Proc. Bost. Soc. Nat. Hist. 13, 298, 1870.

Hab.—Cala.

606. **Plantus** Scud.-Burg., Proc. Bost. Soc. Nat. Hist. 13, 304, 1870.

Hab.—Fla.

SYSTASEA Butler.

607. **Pulverulenta** Feld., Verh. Zool. Bot. Ges. Wien. 478, 1869.

Biol. Cent.-Am., 2, 413, t. 87, f. 24, 25, 1895.

Skinner, Can. Ent. 29, 156, 1897.

zampa Edw., Trans. Am. Ent. Soc. 3, 207, 1876.

Edw., l. c. 6, 1877.

Edw., Can. Ent. 9, 120, 1877.

Streck., Cat. 179, 1878.

Edw., Cat. 77, 1884.

Hab.—Ariz., So. Texas, N. Mex., Mex., Cent. Am.

PHOLISORA Speyer.

608. **Catullus** Fab., Ent. Syst. 3, 348, 1793.

Sm.-Abb., pl. 24, 1797.*

Don., Ins. Ind. t. 50, 1800.

Latr., Enc. Meth. 9, 777, 1823.

Reak., Proc. Ent. Soc. Phil. 150, 1866.

Kirby, Cat. 630, 1871.

Scud., Syst. Rev. Am. But. 72, 1872.

Streck., Cat. 179, 1878.

Edw., Cat. 77, 1884.

French, But. 367, f. 87, 1885.

Edw., Can. Ent. 17, 245, 1885.*

Mayn., But. 56, pl. 7, f. 83, 83a, 1886.

Scud., But. 2, 1519, pl. 9, f. 2, 1889.*

Hab.—U. S. generally. Vanc.

609. **Mexicana** Reak., Proc. Acad. Nat. Sci. Phil. 334, 1866.

Biol. Cent.-Am. 2, 441, pl. 90, f. 11, 12, 1897.

Hab.—Col. (?), Cala. (?), Nev. (?), Mex.

610. **Pirus** Edw., ♂, Field and Forrest 3, 119, 1878.

Streck., Cat. 179, 1878.

Edw., ♀, Trans. Am. Ent. Soc. 9, 7, 1881.

Edw., Cat. 77, 1884.

Hab.—So. Col., N. Mex., Ariz., Utah.

611. **Ceos** Edw., Pap. 2, 140, 1882.

Edw., Cat. 77, 1884.

Biol. Cent.-Am. 2, 432, t. 89, f. 7, 8, 1896.

Hab.—Ariz., Mex.

612. **Hayhurstii** Edw., Trans. Am. Ent. Soc. 3, 22, 1870.

Kirby, Cat. 631, 1871.

Scud., Syst. Rev. Am. But. 71, 1872.

Streck., Cat. 179, 1878.

Edw., Cat. 77, 1884.

Scud., But. 3, 1857, 1889.*

Hab.—W. Va. to Kans., Fla., Texas, N. Mex.

613. **Libya** Scud., Rep. Hayden Bull. 4, 258, 1878.

Streck., Cat. 192, 1878.

Edw., Cat. 77, 1884.

Hab.—Utah, Mohave Cala.

614. **Alpheus** Edw., Trans. Am. Ent. Soc. 5, 206, 1876.

Streck., Cat. 179, 1878.

Edw., Pap. 2, 139, 1882.

Edw., Cat. 76, 1884.

Biol. Cent.-Am. 2, 442, t. 90, f. 15, 1897.

Hab.—Ariz., Nev., N. Mex., Mex.

615. **Lena** Edw., Can. Ent. 14, 5, 1882.

Edw., Cat. 77, 1884.

Hab.—Mont.

ACHLYODES Westwood.

616. **Thraso** Hub., Samm. Ex. Schmett. 1, 1806-1816.

Hub., Verz. Bek. Schmett. 108, 1816.

Bdl., Sp. Gen. t. 13, f. 6, 1836.

Kirby, Cat. 631, 1871.

- Scud., Syst. Rev. Am. But. 70, 1871.
 Streck., Cat. 180, 1878.
 Edw., Cat. 77, 1884.
 Biol. Cent.-Am. 2, 405, t. 87, f. 7, 1895.
- tamenund* Edw., Trans. Am. Ent. Soc. 3, 215, 1871.
- Hab.*—Tex., Mex., Antilles, Cent. and Sth. Am.
- EUDAMUS** Swainson.
617. **Electra** Lint., Can. Ent. 13, 63, 1881.
 Edw., Cat. 78, 1884.
 Scud., But. 3, 1856, 1889.
- Hab.*—Hamilton, Ont. (by Moffat).
618. **Pylades** Scud., Proc. Bost. Soc. Nat. Hist. 13, 207, 1870.
 Kirby, Cat. 578, 1871.
 Scud., Syst. Rev. Am. But. 71, 1872.
 Streck., Cat. 163, 1878 (var. *pylades*).
 Edw., Cat. 78, 1884.
 Fern., But. Me. 104, 1884.*
 French, But. 368, f. 88, 1885.
 Mayn., 53, pl. 7, f. 76, 76a, 1886.
 Scud., But. 2, 1436, pl. 9, f. 5, 1889.*
 Biol. Cent.-Am. 2, 336, t. 80, f. 23, 1894.
- bathyllus* Harr. (not Sm.-Abb.), 312, f. 135, 1862.
- Hab.*—N. E. to Fla., Dak., Col., Cal., Ont., Queb.
619. **Mexicana** Herr.-Schaff., Prodr. 3, 68, 1868.
 Biol. Cent.-Am. 2, 334, t. 80, f. 15, 16, 17.
- nevada* Scud., Syst. Rev. 50, 1872.
 Streck., Cat. 163, 1878.
 Lint., Pap. 1, 74, 1881.
 Edw., Cat. 78, 1884.
- ananius* Plotz, Stett. Ent. Zeit. 99, 1882.
- Hab.*—Tex., Ariz., Col., Cal., Mex.
620. **Bathyllus** Sm.-Abb., pl. 22, 1797.*
 Latr., Enc. Meth. 9, 764, 1823.
 Bdl.-Lec., Lep. Am. Sept. t. 74, 1833.
 Morr., Syn. 106, 1862.
 Scud., Proc. Ess. Ins. 3, 170, 1862.
- Scud., Proc. Chicago Acad. 335, 1868.
 Pack., Guide 269, 1869.
 Kirby, Cat. 578, 1871.
 Scud., Syst. Rev. Am. But. 71, 1872.
 Streck., Cat. 162, 1878.
 Edw., Cat. 78, 1884.
 French, But. 369, 1885.
 Mayn., But. 53, pl. 7, f. 75, 75a, 1886.
 Scud., But. 2, 1432, pl. 17, f. 18, 1889.*
- Hab.*—W. Va. to Fla., Kans., N. Mex., Ariz., Tex.
621. **Aemilea** Skinner, Ent. News 4, 64, 1893.
- Hab.*—Ft. Klamath, Or.
622. **Caicus** Herr.-Schaff., Prodr. 3, 68, 1868.
 Biol. Cent.-Am. 2, 335, pl. 80, f. 18-20, 1394.
- schæfferi* Plotz, Stett. Ent. Zeit. 99, 1882.
- moschus* Edw., Pap. 2, 141, 1882.
 Edw., Cat. 78, 1884.
- Hab.*—Ariz., Mex., Cent. Am.
623. **Hippalus** Edw., l. c. 2, 27, 1882.
 Edw., Cat. 78, 1884.
 Biol. Cent.-Am. 2, 340, t. 80, f. 29-31, 1894.
- Hab.*—Ariz., Mex.
624. **Outis** Skinner, Ent. News 5, 332, 1894.
- Hab.*—Blanco Co., Tex.
625. **Drusius** Edw., Can. Ent. 15, 211, 1883.
 Edw., Cat. 78, 1884.
 Biol. Cent.-Am. 2, 336, 1894.
- Hab.*—So. Ariz., Mex.
626. **Coyote** Skinner, Can. Ent. 24, 164, 1892.
- Hab.*—Tex.

627. **Epigona** Herr.-Schaff., Prodr., 3, 59, 1868.
 Biol. Cent.-Am. 2, 332, t. 80, f. 9-11, 1893.
epigena Butl., Trans. Ent. Soc. Lond. 4, 493, 1870.
 Butl., Lep. Ex. 65, pl. 25, f. 6, 1870.
 Kirby, Cat. 665, 1871.
 Streck., Cat. 162, 1878.
 Lint., Ent. Cont. 4, 69, 1878.
 Edw., Pap. 2, 141, 1882.
 Edw., Cat. 78, 1884.
orestes Lint., Mss. Edw. Trans. Am. Ent. Soc. 6, 1877.
Hab.—Texas, Ariz.
628. **Lycidas** Sm.-Abb., pl. 20, 1797.*
 Latr., Enc. Meth. 9, 751, 1823.
 Bd.-Lec., pl. 71, 1833.*
 Dbldy.-Hew., Gen. Diur. Lep. 2, 572, 1850-52.
 Morr., 106, 1862.
 Scud., Proc. Ess. Ins. 3, 170, 1862.
 Scud., Proc. Chicago Acad. 334, 1868.
 Kirby, Cat. 571, 1871.
 Scud., Syst. Rev. Am. But. 71, 1872.
 Streck., Cat. 161, 1878.
 Edw., Cat. 78, 1884.
 French, But. 370, 1885.
 Mayn., But. 53, pl. 6, f. 74, 74a, 1886.
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lyciades Hub., Zutr. Ex. Schmett. f. 621, 622, 1832.
Hab.—Mass. to Gulf Mex., Miss. Valley.
629. **Cellus** Bd.-Lec., pl. 73, 1833.*
 Dbldy.-Hew., Gen. Diur. Lep. 2, 526, 1850-52.
 Morr., Syn. 105, 1862.
 Kirby, Cat. 578, 1871.
 Streck., Cat. 162, 1878.
 Edw., Cat. 78, 1884.
 French, But. 371, 1885.
 Biol. Cent.-Am. 2, 331, t. 80, f. 8, 1893.
festus Hub., Zutr. Ex. Schmett. f. 907, 908, 1837.
 Dbldy.-Hew., Gen. Diur. Lep. 2, 526, 1850-52.
 Kirby, Cat. 571, 1871.
Hab.—W. Va. to Gulf Mex., Tex., Ariz., Mex.
630. **Hesus** West.-Hew., Gen. Diur. Lep. pl. 78, 1852.
 Kirby, Cat. 574, 1871.
 Scud., Syst. Rev. Am. But. 70, 1872.
 Streck., Cat. 163, 1884.
 Edw., Cat. 78, 1884.
 Aaron, Ent. News 1, 25, 1890.
Hab.—Tex., Mex., Cent. Am., Brazil.
631. **Zestos** Hub., Zutr. Ex. Schmett. f. 615, 616, 1832.
 Kirby, Cat. 574, 1871.
 Edw., Cat. 79, 1884.
 Worth., Pap. 4, 61, 1884.
 French, But. 372, 1885.
oberon Worth., Pap. 1, 132, 1881.
tityrus var. *oberon* Aaron, Pap. 4, 26, 1884.
Hab.—Fla., Sanford, Marco Is., Sth. Am.
632. **Tityrus** Fabr., Syst. Ent. 532, 1775.
 Fabr., Sp. Ins. 2, 132, 1781.
 Fabr., Mant. Ins. 2, 85, 1787.
 Fabr., Ent. Syst. 3, 1, 331, 1793.
 Abb. Sm., Ins. Ga. 1, t. 19, 1797.*
 Latr., Enc. Meth. 9, 743, 1823.
 Bdl.-Lec., Lep. Am. Sept. t. 72, 1833.*
 Dbldy.-Hew., Gen. Diur. Lep. 2, 512, 1852-52.
 Emmons, Agr. Nat. Hist. N. Y. 215, t. 38, 1854.
 La Sagra, Hist. Cuba An. Art. 632, 1857.
 Harr., Ins. Inj. Veg. Flin.'s Ed. 310, f. 133, 134, t. 5, f. 1, 1862.
 Morr., Syn. 112, 1862.
 Scud., Proc. Ess. Ins. 3, 170, 1862.
 Scud., Proc. Chicago Acad. 334, 1868.
 Pack., Guide 269, 1869.
 Kirby, Cat. 571, 1871.
 Scud., Syst. Rev. Am. But. 70, 1872.
 Putnam, Proc. Dacv. Aad. 1, 197, 1876.
 Streck., Cat. 162, 1878.

Reed, Can. Ent. 14, 160, 1882.*

Moffat, Can. Ent. 14, 200, 1882.*

Edw., Cat. 79, 1884.

French, But. 374, f. 89, 90, 1885.

Mayn., But. 52, pl. 6, f. 73, 73a, 1886.

Scud., But. 2, 1339, pl. 9, f. 8, 1889.*

Hab.—U. S. generally, Br. Am., Ont.,
Queb., Antilles, Sth. Am.

633. **Proteus** Linn., Syst. Nat. Ed. 10,
484, 1758.

Linn., Mus. Lud. Ubr. 333, 1764.

Linn., Syst. Nat. Ed. 12, 1, 2, 794, 1767.

Clerck, Icones t. 42, 1764.

Fabr., Syst. Ent. 532, 1775.

Fabr., Sp. Ins. 2, 132, 1781.

Fabr., Maut. Ins. 2, 85, 1787.

Fabr., Ent. Syst. 3, 1, 331, 1793.

Cram., Pap. Ex. 3, t. 260, D. E. 1782.

Abb.-Sm., Ins. Ga. 1, t. 18, 1797.

Hub., Samm. Ex. Schmiett. 1, 1806-
1816.

Hub., Verz. Bek. Schmiett. 104, 1816.

Latr., Enc. Meth. 9, 730, 1823.

Bdl.-Lec., Lep. Am. Sept. t. 69, 1833*.

Dblidy.-Hew., Gen. Diur. Lep. 2, 511, t.
79, var. 1850-52.

Chenu., Pap. Diur. 224, f. 374, 1851-53.

La Sagra, Hist. Cuba An. Art. 622, 1857.

Morr., Syn. 106, 1862.

Herr-Schaff., Reg. Corr.-blatt. 56, 1865.

Kirby, Cat. 570, 1871.

Scud., Syst. Rev. Am. But. 69, 1872.

Streck., Cat. 161, 1878.

Chapm., Can. Ent. 11, 193, 1879.

Jones, Proc. Liverpool Soc. 36, 45, pl.
4, 1883.*

Edw., Cat. 79, 1884.

French, But. 377, 1885.*

Mayn., But. 52, pl. 6, f. 72, 72a, 1886.

Scud., But. 2, 1386, pl. 15, f. 1, 1889.*

Biol. Cent.-Am. 2, 277, t. 75, f. 1, 1893.

Quaintance, Bull. Fla. Agr. Expmt.
Sta. 45, 1898.*

Hab.—N. Y., Stln. Sts., Mex., Cent. and
Sth. Am., Antilles.

634. **Simplicius** Stoll, Supp. Cram. pl.
39, f. 6, 6e, 1791.

Hub., Verz. Bek. Schmiett. 104, 1816.

Dblidy.-Hew., Gen. Diur. Lep. 2, 511,
1850-52.

La Sagra, Hist. Cuba An. Art. 622,
1857.

Kirby, Cat. 569, 1871.

Scud., Syst. Rev. Am. But. 67, 1872.

Edw., Cat. 79, 1884.

Biol. Cent.-Am. 2, 270, t. 75, f. 1, 1893.

Hab.—Tex., Ariz., Mex., Cent. and Sth.
Am.

635. **Protillus** var. *rauterbergi* Skin-
ner, Ent. News 6, 113, 1895.

Hab.—Tex., Ariz.

636. **Albofasciatus** Hew., Desc. Hesp.
Pt. 2, No. 2, 1867.

Kirby, Cat. 571, 1871.

Edw., Cat. 79, 1884.

Aaron, Pap. 4, 182, 1885.

Biol. Cent.-Am. 2, 280, t. 75, f. 11, 1893.

Hab.—Tex., Ariz., Mex., Cent. Am.

637. **Dorus** Edw., Pap. 2, 140, 1882.
Edw., Cat. 79, 1884.

Biol. Cent.-Am. 2, 290, t. 76, f. 8, 9, 1893.

Hab.—So. Ariz., Mex.

ERYCIDES Westwood.

638. **Urania** West.-Hew., Gen. Diur. Lep.
510, pl. 79, 1852.

Kirby, Cat. 574, 1871.

Scud., Syst. Rev. Am. But. 70, 1872.

Streck., Cat. 163, 1878.

Edw., Cat. 79, 1884.

Aaron, Ent. News 1, 23, 1890.

Biol. Cent.-Am. 2, 294, t. 76, f. 22, 1893.

texana Scud., Syst. Rev. 47, 1872.

Streck., Cat. 163, 1878.

Edw., Cat. 79, 1884.

Hab.—Tex., Mex., Cent. Am.

639. **Lilea** Reak., Proc. Acad. Nat. Sci.
Phil. 339, 1866.

Biol. Cent.-Am. 2, 296, t. 76, f. 23, 24,
1893.

albicilla Herr.-Schaff., Prodr. Syst. Lep.
3, 61, 1869.

cruentus Scud., Rep. Peab. Ac. Sc. 4, 67,
1872.

sanguinea Scud., Syst. Rev. Am. But. 47,
1872.

Streck., Cat. 163, 1884.

Edw., Cat. 79, 1884.

socius Butl.-Druce, Cist. Ent. 1, 112.

decolor Mab., Bull. Soc. Ent. Fr., pl. 46,
1880.

Hab.—Tex., Mex.

640. **Batabano** Lef., Sagr. Hist. Cuba
7, 624, pl. 1, f. 4, 5, 1867.

Herr.-Schaff., Reg. Corr.-blatt. 56, 1865.

Kirby, Cat. 589, 1871.

Streck., Cat. 163, 1878.

Edw., Cat. 79, 1884.

French, But. 379, 1885.

Dyar, Can. Ent. 22, 211, 1890.*

mancinus Herr.-Schaff., Corr. Regensb. 16,
624, 1856.

okeechobee Worth., Pap. 1, 133, 1881.

Hab.—Fla., Cuba.

641. **Amyntas** Fab., Syst. Ent. 533, 1885.

Streck., Cat. 163, 1878.

Edw., Cat. 79, 1884.

Biol. Cent.-Am. 2, 304, t. 77, f. 9, 1892.

Dyar, Ent. News 8, 182, 1897.*

savignyi Latr., Enc. Meth. 9, 741, 1823.

Hab.—Key West, Fla., Phoenix, Ariz.,
Mex., Cent. Am., Antilles.

PYRRHOPYGA Westwood.

642. **Araxes** Hew., Desc. Hesp. Pt. 2, 3,
1867.

Kirby, Cat. 587, 1871.

Streck., Cat. 163, 1878.

Edw., Pap. 2, 142, 1882.

Edw., Cat. 80, 1884.

Biol. Cent.-Am. 2, 251, t. 73, f. 14, 15, 16,
1893.

Hab.—Ariz., Mex.

ÆGIALE Feld.

643. **Yuccæ** Bd.-Lec., pl. 70, 1833.*

Walk., List. Lep. B. M. 7, 1853-56.

Morr., Syn. 113, 1862.

Kirby, Cat. 608, 1871.

Scud., Syst. Rev. Am. But. 82, 1872.

Scud., Hist. Skitch Gen. Names But.
213, 1875.

Grote, Can. Ent. 7, 173, 1875.

Riley, Tr. Ac. Sci. St. Louis 323-344,
1876.

Riley, 8th Mo. Ent. Rep. 169, 1876.

Streck., Proc. Ac. Nat. Sci. Phil. 149,
1876.

Riley, 9th Mo. Ent. Rep. 129, 1877.*

Streck., Cat. 163, 1878.

Edw., Cat. 80, 1884.

French, But. 381, f. 91, 92, 1855.*

Hab.—Sthn. Sts., N. Mex., Ariz.

Var. coloradensis Riley, Tr. Ac. Sci.
St. Louis 3, 566-568, 1877.*

Hab.—Col.

644. **Cofaqui** Str., Proc. Acad. Nat. Sci.
Phil. 148, ♀, 1876.*

Streck., Cat. 164, 1878.

Streck., Lep. Rhop.-Het. pl. 15, f. 2,
1878.

Edw., Cat. 80, 1884.

French, But. 386, 1885.

Hab.—Fla., Col., Ga.

645. **Streckeri** Skinner, Can. Ent. 27,
179, 1895.

cofaqui ♂, Streck., Br. Bull. 3, 66, 1880.

Hab.—Col., Tex., Ariz.

645. **Neumoegenii** Edw., Pap. 2, 27,
1882.

Edw., Cat. 80, 1884.

Ottoleng., Ent. News 6, 218, 1895.

Biol. Cent.-Am. Het. 2, 320, t. 69, f. 3,
♂, 4, ♀, 1896.

Hab.—Ariz., Mex.

PLEASE MAKE THE FOLLOWING CORRECTIONS.

Page 9, No. 54, insert *Hab.*--Cala.

- " 10, under No. 62, for *artica* read *arctica*.
- " 14, under No. 96, for *ubrica* read *ulrica*.
- " 19, No. 128, for Form *crocale* read Form *crocale*.
- " 29, under No. 162, for Form *prosperspina* read Var. *prosperspina*.
- " 29, for 164 **Misippus** read 164 **Archippus** Cram., Pap. Ex. 1, t. 16, A, B, 1779.
- " 34, No. 191, for **Typhon** var. *laidon* read **Typhon** var. *laidon*.
- " 35, No. 201, for **Disa** var. *mancinus* read **Disa** var. *mancinus*; in reference for *mancinus* read pl. 64 instead of 54.
- " 35, No. 203, for **Tyndarus** var. *callias* read **Tyndarus** var. *callias*.
- " 38, No. 216, after **Charon** read Edw.,
- " 45, under No. 263, for *melinus* var. *pudica* read *melinus* var. *pudica*.
- " 48, under No. 290, for *istapa* Reck., read *istapa* Reak.
- " 53, under No. 331, for *rapohæ* read *rapahæ*.
- " 58, No. 362, for **pseudargiolus** read **Pseudargiolus**.
- " 58, under 362, for Var. *violaces* read Var. *violacea*.
- " 59, under No. 363, for *comyntas* var. *amyntuta* read *comyntas* var. *amyntula*.
- " 59, under No. 369, for *astenida* read *astenidas*.
- " 61, under No. 380, insert Var. *phileta* Fab., Syst. Ent. 471, 1775.
- " 61, under No. 380, read Streck., Cat. 76, 1878 instead of 78, 1878.
- " 63, under No. 389, for *luteolus* Reck., read *luteolus* Reak.
- " 63, under No. 390, for *Phsche* read *Psyche*.
- " 64, No. 392, for Tr. Am. Ent. Soc. read Tr. Am. Ent. Soc.
- " 64, under No. 394, for *augelina* read *angelina*.
- " 64, under No. 395, for Var. *reakerlii* read Var. *reakirtlii*.
- " 65, No. 400, for **Neleis** var. *floridensis* read **Neleis** var. *floridensis*.
- " 72, under No. 438, for Var. *ménétriésh* read Var. *ménétriésii*.
- " 78, under No. 463, for *dophnis* read *daphnis*.
- " 84, under No. 509, for Chapin. read Chapm.
- " 85, under No. 510, for Var. *brettoi* es read Var. *brettoides*.
- " 91, under No. 568, for *Hab.*--Blanco, Comal and Neueces Cos., Fla. read *Hab.*--Blanco, Comal and Neueces Cos., Texas.

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