

CATALOGUE OF BUTTERFLIES AND MOTHS, MOSTLY COLLECTED
IN THE NEIGHBORHOOD OF HALIFAX AND DIGBY, NOVA
SCOTIA.—By JOSEPH PERRIN, MacNab's Island, Halifax,
and JOHN RUSSELL, Digby, N. S.

Read 15th February, 1909.

In preparing this list no trouble has been spared to make it as accurate as possible. Errors possibly exist in it, but in the main we feel that it is correct.

All specimens that could not easily be determined, were submitted to the late Dr. James Fletcher, entomologist and botanist of the Central Experimental Farm, Ottawa, who in turn sent the rarer or more difficult specimens to other specialists, such as Dr. Harrison G. Dyar, custodian of lepidoptera, U. S. National Museum, Washington, D. C.; Dr. J. B. Smith of New Brunswick, N. J.; Rev. G. W. Taylor of Departure Bay, British Columbia, and others; and we now take this opportunity of thanking these gentlemen for their kindness.

The nomenclature adopted is that of Dr. H. G. Dyar's *List of North American Lepidoptera* ("Bulletin of the U. S. National Museum," No. 52; Wash., 1902), and the numbers prefixed are those used in that list. Our list contains 60 nominal species and varieties of butterflies and 470 moths, total 530.

The list is almost entirely founded on specimens collected recently by the authors, the MacNab's Island (Halifax Harbour)* records being by Mr. Perrin and the Digby ones by Mr. Russell.† Other localities referred to have affixed the name of the one responsible for the record.

There have also been inserted a few additional species, not met by us, from specimens collected near Truro, Colchester

*It may be mentioned that MacNab's Island is situated in the mouth of Halifax Harbour. Fall River, to which reference is occasionally made in the list, is near Waverley, Halifax co., about 16 miles from Halifax.

†A set of Mr. Russell's specimens are now in the Provincial Museum at Halifax.

county, N. S., by Miss Lucy C. Eaton, her collection being now in the Provincial Museum at Halifax, accession no. 2900 (see *Trans. N. S. Inst. Science*, vol. 9, p. xvii), and also some species in the late Andrew Downs's small collection made about Halifax some years ago. These specimens have been personally examined and verified. Other species reported by other writers, but not seen by us, are not as a general rule included. Those interested may, however, consult the following papers:

Belt (Thomas).—List of butterflies observed in the neighborhood of Halifax, Nova Scotia. *Trans. N. S. Inst. Nat. Sc.*, vol. i, pt. 2, pp. 87-92. 1864. [30 nominal species mentioned].

Bethune (Rev. Charles J. S.).—Nova Scotian lepidoptera, with additional notes by J. Matthew Jones. *Ib.*, vol. ii, pt. 3, pp. 78-87. 1879. [79 nominal species mentioned, 7 of which belong to the Rhopalocera (butterflies).]

Jones (J. Matthew).—Review of Nova Scotian diurnal lepidoptera. *Ib.*, vol. iii, pp. 18-27, 100-103. 1871-2. [35 nominal species mentioned.]

Silver (Arthur P.).—List of Nova Scotian butterflies. *Ib.*, vol. vi, pp. 86-88. 1888. [46 nominal species listed, without further data.]

Bethune (Rev. Charles J. S.).—Butterflies of Eastern Provinces of Canada. *25th Annual Rept. of Entomological Soc. of Ontario*, 1894, pp. 29-44. [Sessional papers of Ontario, 1895, No. 18.]

Eaton (Miss Lucy C.).—The butterflies of Truro, N. S.; with remarks, by H. Piers, regarding a few of the species mentioned. *Trans. N. S. Inst. Sc.*, vol. ix, pp. xvii-xviii (Eaton), xviii-xxi (Piers). 1895. [26 nominal species mentioned in the Eaton list. Collection on which the paper was founded is now in the Provincial Museum.]

Order LEPIDOPTERA.

RHOPALOCERA (Butterflies).

Superfamily PAPILIONOIDEA

Family PAPILIONIDÆ.

- 11a. *Papilio turnus* Linn. Very common in all parts of the province; May 24 to July.
14. *P. thoas* Linn. (*P. cresphontes* Cram.). Lake View (near Windsor Junction), Hx. Co.; about Aug., 1901. One specimen taken by Miss Helen King. This specimen is now in the Provincial Museum, Halifax (access. no. 977). First occurrence in Nova Scotia

Family PIERIDÆ.

- 38d. *Pontia napi* var. *oleracea* Har. MacNab's Is., Halifax; scarce. Truro (Miss L. C. Eaton). Was formerly reported common at Halifax by T. Belt and J. M. Jones.
40. *P. rapæ* Linn. Very common everywhere; May to Aug.
66. *Eurymus philodice* Godt. Common everywhere; May to Sept.
71. *E. interior* Scud. Fall River, Hx. Co., and Digby; not so common as *E. philodice*; July, Aug.
85. *Eurema euterpe* Ménétries. MacNab's Is., Halifax; Aug. 24, 1904. Digby; Aug., 1904.

Family NYMPHALIDÆ.

99. *Argynnis cybele* Fabr. MacNab's Is.; July 22nd, 1904. Digby; very rare; July 13, 14, 1907.
100. *A. aphrodite* Fabr. MacNab's Is. and Digby; very common; July.
102. *A. atlantis* Edw. MacNab's Is. and Digby; very common; July.
131. *Brenthis myrina* Cram. MacNab's Is. and Digby; very common; June and Aug.

146. *Euphydryas phaton* Drury. Truro; Aug. 1901 (Miss Lucy C. Eaton).
169. *Cinclidia harrisii* Seud. Fall River, Hx. Co.; not common (Perrin). Formerly reported as *Charidryas nycteis* by Miss L. C. Eaton (*Trans. N. S. Inst. Sc.*, vol. ix).
186. *Charidryas ismeria* B. & LeC. Nova Scotia (J. M. Jones). Vide Bethune's "Butterflies of Eastern Canada," p. 32.
189. *Pyciodes tharos* Drury. Very common everywhere; June, July and Aug.
205. *Polygonia interrogationis* Fabr. MacNab's Is.; plentiful during some seasons. Digby; very rare.
- 205a. *P. interrogationis* var. *umbrosa* Lint. MacNab's Is. and Digby; but always rare.
206. *P. comma* Harris. Formerly reported from Halifax by T. Belt and J. M. Jones.
207. *P. satyrus* Edw. Digby; but not at all common; Aug.
- 207a. *P. satyrus* var. *marsyas* Edw. Digby; not common; Aug.
209. *P. faunus* Edw. MacNab's Is. and Digby; common; late July and Aug.
214. *P. progne* Cram. MacNab's Is. and Digby; common; late July and Aug.
215. *Eugonia j-album* B. & LeC. Fall River, Hx. Co., and Digby; common; Aug.
217. *Euvanessa antiopa* Linn. Very common everywhere; late July and Aug.
218. *Aglais milberti* Godt. Truro; Aug. 1900 (Eaton).
219. *Vanessa atalanta* Linn. MacNab's Is. and Digby; quite common; June, July, Aug.
220. *V. huntera* Fabr. MacNab's Is. and Digby; not common; Aug. and Sept.
221. *V. cardui* Linn. Very common everywhere; Aug.

237. *Basilarchia arthemis* Drury. MacNab's Is. and Digby; not common; July.
- 237a. *B. arthemis* var. *proserpina* Edw. Digby; rare; July. Halifax (Bethune, "Butterflies of Eastern Canada," doubtless on authority of J. M. Jones).
239. *B. archippus* Cram (*B. disippe* Godt.). Fall River, Hx Co. (Perrin).

Family AGAPETIDÆ

258. *Cercyonis alope* Fabr. MacNab's Is.; scarce; Digby common; July and Aug.
- 258c. *C. alope* var. *nephele* Kirby. MacNab's Is. and Digby; very common; July and Aug.
286. *Enodia portlandia* Fabr. Fall River, Hx. Co.; two specimens; July 23, 1905. (Perrin).
288. *Satyroides canthus* Linn. Truro; July 1901 (Eaton).

Family LYMNADIDÆ.

308. *Anosia plexippus* Linn. MacNab's Is.; plentiful during some seasons; Digby; always rare; July and Aug.

Family LYCÆNIDÆ.

335. *Uranotes melinus* Hüb. Digby; July 20, 1907.
371. *Incisalia augustus* Kirby. Northwest Arm, Hx.; not common; Digby; common; May.
374. *I. irus* Godt. *Irus* has recently been separated into two species (*Canadian Entomologist*, 1907), *irus*, Godt., and *polios*, Cook; and all the specimens taken at Digby come under the description of *polios* (Russell). Cole Harbour, Hx. Co.; scarce (Perrin); May.
- 374a. *I. irus* var. *arsace* B. & LeC. Digby; May 5 to 22, 1906.
376. *I. henrici* Grote & Rob. Digby; May 24, 1905; May 26, 1908.
378. *I. nippon* Hübn. Northwest Arm, Hx.; rare (Perrin).
383. *Erora lata* Edw. Mt. Beaman (Ben Lomond). Digby; very rare; June 19, 1905; June 7, 1906.

385. *Feniseca tarquinius* Fabr. Fall River, Hx. Co., and Digby; rare; May, Aug., Sept.
398. *Epidemia epixanthe* B. & LeC. MacNab's Is.; July 25, 1909.
399. *Heodes hypophleas* Boisd. Very common in all parts of the province; May, June, Aug.
- 440a. *Cyaniris ladon* var. *lucia* Kirby. MacNab's Is. and Digby; very common; May and June.
- 440b. *C. ladon* var. *marginata* Edw. MacNab's Is. and Digby; very common; May and June.
- 440c. *C. ladon* var. *violacea* Edw. MacNab's Is. and Digby; common; May and June.
- 440f. *C. ladon* var. *neglecta* Edw. MacNab's Is. and Digby; rare; June.

Family HESPERIIDÆ.

459. *Amblyscirtes vialis* Edw. Fall River, Hx. Co.; two specimens, June 12, 1906 (Perrin).
463. *A. samoset* Scud. Fall River; not common (Perrin).
469. *Pamphila palæmon* Pal. (*P. mandan* Edw.). Fall River; not common (Perrin).
484. *Atrytone hobomok* Har. Very common everywhere; June and July.
520. *Thymelicus mystic* Scud. MacNab's Is. and Digby; very common; June and July.
523. *T. cernes* B. & LeC. Very common everywhere; June and July.
526. *Polites peckius* Kirby. Very common everywhere; June and July.
617. *Thanaos brizo* B. & LeC. Formerly reported from Hx. by T. Belt and J. M. Jones.
618. *T. icelus* Lint. Fall River and Digby; common; May 31 to July 14.
625. *T. juvenalis* Fab. Fall River; rare (Perrin).

HETEROCERA (MOTHS).

Superfamily SPHINGOIDEA.

Family SPHINGIDÆ.

653. *Hemaris diffinis* Boisd. Halifax and Digby; not very common; July.
656. *H. thysbe* Fa. MacNab's Is. and Digby; common; June and July.
657. *Lepisesia flavofasciata* Walk. Digby; May 24, 1906.
670. *Deilephila gallii* Rottem. (*D. intermedia* Kirby). MacNab's Is.; summer of 1900; Digby; common in July.
671. *D. lineata* Fabr. MacNab's Is., 1900.
677. *Pholus vitis* Linn. MacNab's Is.; July 29, 1907.
681. *Ampelophaga chærilus* Cram. (*Darapsa pholus*). MacNab's Is.; July 17, 1901; June 27, 1906; Digby; very common in June.
700. *Sphinx (Hyloicus) kalmiae* S. & A. MacNab's Is. and Digby; quite common; June and July.
703. *S. gordius* Stoll. MacNab's Is. and Digby; not common; June and July.
704. *S. luscitiosa* Clem. Digby; quite rare; generally take 3 or 4 specimens each year; July 1 to 30 (Russell). One specimen taken at Dartmouth, N. S., July 10, 1910 (Perrin).
722. *Ceratonia undulosa* Walk. Digby; MacNab's Is.; 28 July, 1908 (Perrin): not common; June and July.
726. *Lapara coniferarum* S. & A. 11 July, 1908; MacNab's Is.
728. *Murumba modesta* Harris. Truro; June 1901 (Eaton); Halifax (Downs).
729. *Smerinthus jamaicensis* Drury (*S. geminatus* Say). Very common at both places; June and July.
730. *S. cerysii* Kirby. Digby; July 9, 1906; June 22, 1905; July 6, 7, 1905; rare.
731. *Paonius excæcatus* S. & A. MacNab's Is. and Digby; not common; July.
732. *P. myops* S. & A. Truro; June 1901 (Eaton). Halifax (Downs).

Superfamily SATURNOIDÆ.

Family SATURNIDÆ.

739. *Samia cecropia* Linn. Very common everywhere.
 747. *Tropœa luna* Linn. Dartmouth, N. S., July 10, 1910.
 (Perrin). Digby; very rare; June 20, 1905;
 June, 1908.
 748. *Telea polyphemus* Cram. MacNab's Is. and Digby; not
 so common as *S. cecropia*; June and July.

Family CERATOCAMPIDÆ.

770. *Anisota virginiensis* Drury. MacNab's Is.; July 8,
 1907; Jan. 3, 1908.
 771. *A. rubicunda* Fabr. MacNab's Is. and Digby; not com-
 mon; July.

Superfamily BOMBYCOIDÆ.

Family SYNTOMIDÆ.

798. *Otenucha virginica* Char. Plentiful everywhere; July.

Family LITHOSIDÆ.

817. *Clemensia albata* Pack. Digby; Aug. 3, 1905; Aug. 9,
 16, 1907; Aug. 9, 1908.

Family ARCTIIDÆ.

834. *Eubaphe aurantiaca* Hübn. Digby; July 22, 1906.
 834c. *E. aurantiaca* var. *brevicornis* Walk. Digby; generally
 quite common during late July.
 836. *Utetheisa bella* Linn. MacNab's Is. and Digby; rare;
 Sept.
 851. *Estigmene acrea* Drury. MacNab's Is. and Digby;
 common; late June, July.
 856. *Hyphantria textor* Harris. MacNab's Is. and Digby;
 plentiful.
 859. *Isia isabella* S. & A. MacNab's Is. and Digby; quite
 common; July.
 860. *Phragmatobia fuliginosa* Linn. MacNab's Is.; June
 21, 1908.

- 861a. *P. assimilians* var. *franconia* Slossin; Digby; June 6, 1906.
862. *Diacrisia virginica* Fabr. Plentiful in all parts of the Province; July.
872. *Hyphoraia parthenos* Harris. Very rare; MacNab's Is., 1900; Digby, July 3, 1905.
874. *Apantesis virgo* Linn. Very common everywhere; July.
922. *Halisidota maculata* Harris. MacNab's Is. and Digby; quite common; June and July.
923. *H. caryæ* Harris. MacNab's Is.; June 9, 1910. Digby; very common; July.

Family AGARISTIDÆ.

949. *Alypia octomaculata* Fabr. Digby; common; July.
952. *A. langtonii* Couper. MacNab's Is.; July 11, 1907; Digby; July 16-22, 1907.

Family NOCTUIDÆ.

Subfamily NOCTUINÆ.

958. *Panthea portlandia* Grote. MacNab's Is.; June 25, 1907. (Perrin).* Halifax (Downs).
961. *Demas propinquinelinea* Grote. MacNab's Is.; 15 June, 1906.
964. *Charadra deridens* Guenée. MacNab's Is.; July 11, 1907; Digby; quite common in June.
968. *Raphia frater* Grote. MacNab's Is.; July 15, 1907.
972. *Apatela americana* Harris. MacNab's Is. and Digby; common; June and July.
975. *A. dactylina* Grote, Digby; June 11, to July 15, 1907.
984. *A. lepusculina* Guenée. Digby; Aug. 9, 1907. MacNab's Is.; June 27, 1908.
988. *A. innotata* Guenée. MacNab's Is. and Digby; common; June and July.

*This specimen was examined by Dr. J. B. Smith of New Brunswick, N. J., who writes regarding it, "I cannot make it the same as *P. acronyctoides*, Walker, as that stands in my collection. If we had a female it might help us out; but as between the males I must place it with *portlandia*, unlikely as it seems." *P. portlandia* occurs in the Pacific States, whereas *P. acronyctoides* is an Atlantic States species.

990. *A. morula* Grote. MacNab's Is.; June 26, 1907; Digby; common; June and July.
991. *A. interrupta* Guenée. MacNab's Is.; Aug. 12, 1907; Digby; June 20, July 1, 1907.
999. *A. radcliffei* Harvey. MacNab's Is.; July 26, 1907; Digby; common; June.
1003. *A. hamamelis* Guenée. Digby; June 20, Aug. 2, 16, 1907.
1004. *A. superans* Guenée. Digby; very common; June.
1006. *A. tritonia* Hübn. MacNab's Is.; July 2, 1905.
1008. *A. funeralis* Grote. MacNab's Is.; June 29, 1907.
1009. *A. fragilis* Guenée. Digby; Aug. 2, 1907; June 23, 1908; MacNab's Is.; rare.
1013. *A. revelata* Smith. MacNab's Is.; July 20, 1906; Digby; June 22, 1906; Aug. 2 to 9, 1907; June 25, 1908.
1014. *A. grisea* Walk. Digby; June 20 to July 14, 1907; June 17 to 23, 1908; scarce.
1026. *A. brumosa* Guenée. MacNab's Is.; June 26, July 2, 1907; Digby; very common; June and July.
1028. *A. retardata* Walk. Digby; June 28, July 14, 1906.
1029. *A. sperata* Grote. Digby; June 17 to 25, 1907; June 8 to 17, 1908.
1030. *A. noctivaga* Grote. Digby; very common; June.
1031. *A. impressa* Walk. MacNab's Is.; May 13, 1906; Digby; very common; July and Aug.
1039. *A. impleta* Walk. MacNab's Is.; rare; Digby; common; June and July.
1041. *A. oblinata* S. & A. MacNab's Is. and Digby; scarce; June.
1046. *Aphareta dentata* Grote. Digby; Aug. 29, 1907; one specimen.
1053. *Harrisimemna trisignata* Walk. Have several times found the larva of this species on lilac about Digby (Russell).

1054. *Microcelia dipteroides* Guenée. Digby ; June, 1907 ;
June 30, 1908 ; not common.
- 1054a. *M. dipteroides* var. *obliterata* Grote. MacNab's Is.;
July 11, 1907 ; Digby ; June 17, 1907.
1055. *Jaspidia lepidula* Grote. MacNab's Is. and Digby ;
plentiful ; June.
1060. *Diphthera fallax* H. S. MacNab's Is.; Aug 1, 1905 ;
Aug. 9, 1907 ; Digby ; always very common ; June
19 to Aug. 11.
1067. *Chytonix palliatricula* Guenée. Digby ; very common ;
June.
1075. *Baileya doubledayi* Guenée. MacNab's Is.; July 17,
1906 ; Digby ; July 7, 1905 ; very rare.
1078. *Hadenella minuscula* Morrison. Digby ; very rare ;
Aug. 3, 1906 ; Sept. 11, 19, 1907.
1092. *Balsa malana* Fitch. Digby ; June 8, 1908.
1102. *Caradrina multifera* Walk. Digby ; July 31, 1906.
1136. *Oligia festivoidea* Guenée. Digby ; very common ;
June.
1138. *O. versicolor* Grote. MacNab's Is.; July 5, 1909.
1149. *Hadena bridghami* Grote & Rob. Digby ; Aug. 3,
1905 ; Aug. 7 to 28, 1906 ; Sept. 9 to 30, 1907.
1153. *H. clau lens* Walk. MacNab's Is.; July 26, 1907.
1166. *H. mactata* Guenée. MacNab's Is. and Digby ; Sept.
1211. *H. stipata* Morrison. MacNab's Is.; Sept. 13, 1909.
1212. *H. passer* Guenée. Digby ; July 9, 1906.
1217. *H. remissa* Hübn. MacNab's Is.; not common ; Digby ;
July 9, 1906 ; Aug. 28, 1907 ; rare.
1220. *H. vultuosa* Grote. MacNab's Is. and Digby ; not
common ; June and July.
1224. *H. finitima* Guenée. MacNab's Is.; rare ; Digby ; July
9, 1906.
1227. *H. dubitans* Walk. MacNab's Is. and Digby ; very
common ; Aug.
1230. *H. ducta* Grote. Digby ; not common.

1231. *H. impulsula* Guenée. MacNab's Is.; scarce; Digby; June 28, 1907.
1232. *H. devastatrix* Brace. MacNab's Is. and Digby; common; July and Aug.
1235. *H. arctica* Boisd. MacNab's Is. and Digby; common; July and Aug.
1241. *H. verbascoides* Guenée. MacNab's Is. and Digby; scarce; July 1 to Aug.
1250. *H. lignicolor* Guenée. MacNab's Is.; scarce; Digby; July 26, 1906.
- . *H. rorulenta*. MacNab's Is.; July 11, 1905; July 31, 1909. Identified by Dr. James Fletcher.
1268. *Polia medialis* Grote. Digby; Sept. 20, 1906.
1277. *Dryobota illocata* Walk. MacNab's Is. and Digby; very common; Aug. and Sept.
1278. *Hypa xylinoides* Guenée. MacNab's Is. and Digby; June and Aug.
1282. *Feralia jocosa* Guenée. MacNab's Is.; June 21, 1907.
1286. *Momophana comstocki* Grote. MacNab's Is.; June 10, 1909.
1288. *Euplexia lucipara* Linn. Common at MacNab's Is. and Digby; July.
1291. *Actinotia ramosula* Guenée. Digby; common; Aug.
1295. *Pyrophila pyramidoides* Guenée. Digby; scarce; Aug.
1296. *P. tragopoginis* Linn. MacNab's Is.; quite rare; Digby; very common; Aug. 23 to Sept. 12.
1297. *Heliotropha reniformis* Grote. MacNab's Is. and Digby; common; Aug. 8 to 28.
- 1297a. *H. reniformis* var. *atra* Grote. MacNab's Is.; Aug. 13, 1906. Digby; not common; Aug. 8 to 28.
1341. *Oncocnemis atrifusciata* Morrison. Halifax (Downs).
1370. *Adita chionanthi* S. & A. Digby; Sept. 19, 1907.
1389. *Rhynchagrotis gilvipennis* Grote. MacNab's Is.; rare; Digby; not very common; July 24, to Aug. 10.
1390. *R. rufipectus* Morrison. Digby; July 7, 1906.

1393. *R. anchocelioides* Guenée. Aug 31, 1906.
1393a. *R. anchocelioides* var. *brunneipennis* Grote. Digby ;
Aug. 28, 1906.
1397. *R. alternata* Grote. Digby ; common ; Aug.
1415. *Adelphagrotis prasina* Fabr. MacNab's Is. and Digby ;
very common ; Aug. 3 to 17.
1423. *Eueretagrotis perattenta* Grote. MacNab's Is. and
Digby ; plentiful ; July 29 to Aug. 10.
1424. *E. attenta* Grote. Digby ; July 31 to Aug. 7.
1426. *Semiophora elimata* Guenée. Digby ; very common ;
Aug. 18 to Sept. 11.
1426 b. *S. elimata* var. *janualis* Grote. MacNab's Is ; June 11,
1909. Digby ; very common ; Aug. 15 to 31.
1429. *S. youngii* Smith. Digby ; not common ; Aug. 15 to
31, 1907 ; Aug. 20 to 30, 1907.
1437. *Pachnobia salicarum* Walk. MacNab's Is. ; scarce.
1454. *Agrotis ypsilon* Rottemb. MacNab's Is. and Digby ;
very common ; Aug. 10 to Sept. 4.
1462. *Peridroma occulta* Linn. MacNab's Is. and Digby ;
very common ; Aug.
1464. *P. astricta* Morrison. Digby ; common ; Aug 3 to 14. ;
1467. *P. margaritosa* Haworth. Digby ; common ; Aug.
1467a. *P. margaritosa* var. *saucia* Hübn. MacNab's Is. and
Digby ; scarce ; Aug.
1475. *Noctua smythii* Snellen. MacNab's Is. and Digby ;
very common ; Aug. 1 to 17.
1476. *N. normaniana* Grote. Digby ; very common ; Aug.
3 to 17.
1478. *N. bicarnea* Guenée. MacNab's Is. and Digby ; very
common in both places ; Aug. 3 to 17.
1481. *N. c-nigrum* Linn. MacNab's Is. and Digby ; June 26
to Aug. 20.
1484. *N. phyllophora* Grote. MacNab's Is. and Digby ; scarce ;
Aug. 3 to 17.
85. *N. rubifera* Grote. Digby ; very common ; Aug. 1 to 25.

1487. *N. rosaria* Grote. Digby; July 1, 1907; one specimen.
1489. *N. fennica* Tauscher. Digby; Aug. 8, 1905; Sept. 3, 1907.
1490. *N. plecta* Linn. MacNab's Is. and Digby; very common; July 28 to Aug. 10.
1491. *N. collaris* G. & R. Digby; scarce; Aug. 23, 1905; Aug. 4, 1906.
1493. *N. haruspica* Grote. MacNab's Is. and Digby; not common; July 29 to Aug. 7.
1496. *N. clandestina* Harris. MacNab's Is. and Digby; July 17, 1905; July 27, 1906.
- 1540a. *Feltia jaculifera* var. *herilis* Grote. MacNab's Is. and Digby; not common; Aug. 7 to 22.
1545. *F. venerabilis* Walk. MacNab's Is.; scarce; Digby; Sept. 11, 1907.
1549. *F. valubilis* Harvey. Digby; June 28, 1905.
1552. *Porosagrotis vetusta* Walk. MacNab's Is.; Aug. 28, 1906; one specimen.
1556. *P. mimallonis* Grote. Digby; Sept. 17, 1907.
1603. *Paragrotis velleripennis* Grote. Digby; Sept. 19, 1907.
1620. *P. scandens* Riley. MacNab's Is.; Aug. 20, 1903.
1649. *P. messoria* Harris. Digby; quite common; Aug. 22, to 31.
1707. *P. insulsa* Walk. Digby; quite common; Aug. 10 to 28.
1719. *P. ochrogaster* Guenée. MacNab's Is.; scarce; Digby; Aug. 10, 12, 1905; Aug. 22, 1906.
- . *P. bestitura*. MacNab's Is.; Aug. 12, 1909; determined by Dr. J. B. Smith.
1737. *P. redimicula* Morrison. Digby; not common; July 29 to Aug. 22.
1753. *Anytus privatus* Walk. MacNab's Is.; not common; Digby; very common; Aug. 3 to Sept. 11.
1756. *A. profundus* Smith. Very common at Digby during August.

1762. *Ufeus satyricus* Grote. MacNab's Is.; April 4, 1906.
 1773. *Mamestra nimbosa* Guenée. Digby; Aug. 12, 1907.
 1774. *M. umbrifera* Guenée. MacNab's Is.; scarce; Digby;
 common; July 14 to Aug. 3.
 1775. *M. purpurissata* Grote. Digby; common; Aug. 3 to 14.
 1792. *M. atlantica* Grote. MacNab's Is.; Digby; June 22,
 1907.
 1793. *M. radix* Walk. Digby, June 17, 1907.
 1796. *M. subjuncta* G. & R. Digby; Aug. 17, 20, 1907;
 June 25, 1908.
 1800. *M. grandis* Bois. MacNab's Is.; June 6, 1910.
 1801. *M. trifolii* Rottemb. MacNab's Is.; Aug. 11, 1907; not
 common. Digby; June 28, 1905; June 19, 1907.
 1803. *M. rosea* Harvey. Digby; July 22, 1905; June 25, 1907.
 1806. *M. rubefacta* Morrison. Digby; June 18, 1906.
 1807. *M. picta* Harris. MacNab's Is. and Digby; June 21,
 1905; June 22, 1906.
 1808. *M. cristifera* Walk. MacNab's Is.
 1809. *M. assimilis* Morrison. MacNab's Is. and Digby; rare.
 1810. *M. latex* Guenée. Digby; July 8, 1907.
 1812. *M. adjuncta* Boisd. MacNab's Is.; rare; Digby; July
 3, 1906; June 8, 1908.
 1822. *M. legitima* Grote. MacNab's Is. and Digby; June 20,
 1907.
 1823. *M. lilacina* Harvey. MacNab's Is.; rare.
 1829. *M. renigera* Stephens. MacNab's Island and Digby;
 not common; July 18 to Aug. 22.
 1832. *M. olivacea* Morrison. MacNab's Is. and Digby; very
 common; Aug. 3 to 22.
 1842. *M. lorea* Guenée. Digby and MacNab's Is.; common;
 June 15 to July 14.
 1882. *Barathra curialis* Smith. MacNab's Is.; rare; Digby;
 July 13, 1906.
 1885. *Morrisonia sectilis* Guenée. Digby; not common;
 June.

- 1885a. *M. sectilis* var. *vomerina* Grote. Digby; common; June.
1950. *Nephelodes minians* Guenée. MacNab's Is.; common; Digby; common; Aug. 15 to Sept. 4.
1953. *Heliophila unipuncta* Haworth. MacNab's Is. and Digby; common; Aug. 14 to Sept. 5.
1954. *H. pseudargyria* Guenée. Digby; July 17, 1907; June 17, 1908.
1957. *H. luteopallens* Smith. MacNab's Is. and Digby; very common; June 20 to Aug. 2.
1975. *H. insueta* Guenée. MacNab's Is.; Sept. 7, 1907.
1979. *H. commoides* Guenée. MacNab's Is. and Digby: not common; July 12 to 22.
1996. *Orthodes crenulata* Butler. MacNab's Is.; Aug. 15, 1906; Digby; common; July 15 to Aug. 3.
1997. *O. cynica* Guenée. MacNab's Is.; July, 1907; Digby; very common; July 22 to 28.
1998. *O. vecors* Guenée. MacNab's Is.; June 3, 1910. Digby; July 15, 1905; Aug. 31, 1908; June 8, 1908.
2009. *Crocigrapha normani* Grote. Digby; Feb. 3, 1905; June 18, 1907.
2015. *Graphiphora oviducta* Guenée. Digby; June 6, 1907; June 6, 1908.
2024. *G. furfurata* Grote. Digby.
2040. *G. alia* Guenée. MacNab's Is. and Digby; May, 1906; June 13, 1907; May 7, 1908.
2077. *Lithomora germana* Morrison. Digby; quite common; Aug. 31 to Sept. 13.
2091. *Xylina laticinerea* Grote. Digby; Sept. 1, 1906.
2093. *X. ferrealis* Grote. Digby; Sept. 20, 1906.
2094. *X. signosa* Walk. Digby; not common; Aug. 23 to Sept. 10.
2097. *X. bethunei* G. & R. Digby; Sept. 2, 1905; Aug. 6 to 20, 1906; nine specimens.

2100. *X. fagina* Morrison. MacNab's Is; June 3, 1910.
Digby; July 1, 1905; April 25, 1907.
2107. *X. tepida* Grote. MacNab's Is.; April 7, 1904. Digby;
Sept. 28, 1907.
2108. *X. baileyi* Grote. Digby; Sept. 17, 28, 1907.
2111. *X. thaxteri* Grote. MacNab's Is.; June 12, 1909.
2112. *X. pexata* Grote. Digby; March 14; 1906; Sept. 17,
1906.
- . *X. fletcherii*. Digby; Sept. 20, 1906; Sept. 19,
1907.
2115. *Litholomia napcea* Morrison. MacNab's Is.; rare.
2118. *Calocampa nupera* Lint. MacNab's Is.; rare.
2121. *C. curvimacula* Morrison. MacNab's Is. and Digby;
not common; July and Aug.
2122. *Cucullia convexipennis* G. & R. MacNab's Is. and
Digby.
2127. *C. asteroides* Guenée. MacNab's Is. and Digby; not
common; July.
2132. *C. intermedia* Speyer. MacNab's Is. and Digby; June
26 to July 27.
2149. *Sphida obliqua* Walk. Digby; June 9, 1907.
2161. *Gortyna velata* Walk. MacNab's Is. and Digby; not
common; Aug. 2 to 22.
2162. *G. nictitans* Bork. MacNab's Is. and Digby; common;
Aug.
2199. *Xanthia flavago* Fabr. MacNab's Is. and Digby; not
common; Sept. 9 to 18.
2203. *Brotolomia iris* Guenée. Digby and MacNab's Is.; July
18, 1907; not common; June.
2204. *Trigonophora periculosa* Guenée. MacNab's Is. and
Digby; common; July 25 to Aug. 6.
- 2204a. *T. periculosa* var. *v-brunneum* Grote. Very common
at Digby; July 29 to Aug. 12.
2206. *Eucirrædia pampina* Guenée. MacNab's Is. and
Digby; common; Aug. 28 to Sept. 21.

2207. *Scoliopteryx libatrix* Linn. MacNab's Is. and Digby ;
common ; Oct. 4 to 9.
2217. *Cosmia paleacea* Esper. Digby ; common ; Aug. 24 to 31.
2222. *Orthosia bicolorago* Guenée. Sept. 19, 28, 1907.
- 2222a. *O. bicolorago* var. *ferruginoides* Guenée. MacNab's Is.
and Digby ; very common ; Aug. 14 to Sept. 11.
2235. *Parastichtis discivaria* Walk. Digby ; not common ;
Aug. 20 to 29.
2241. *Scopelosoma walkeri* Grote. Digby ; May 7, 1906.
2242. *S. sulus* Guenée. Digby ; April 3, 1906.
2247. *Glaea inulta* Grote. MacNab's Is.; one specimen ; 1900 ;
Digby ; common ; Aug. 4 to 31.
2261. *Ipimorpha pleonectusa* Grote. MacNab's Is.; Sept. 14,
1906.
2307. *Rhodophora florida* Guenée. MacNab's Is.; July 19,
1906 (one specimen). Common at Digby ; July 7
to 14.
2473. *Polychrysia formosa* Grote. MacNab's Is.; Aug. 17,
1906.
2475. *Plusia ceroides* Grote. MacNab's Is. and Digby ;
common ; July and Aug.
2476. *P. balluca* Geyer. Digby ; 1904. MacNab's Is.; Aug.
20, 1907.
- 2479a. *Euchalcia festucae* var. *putnami* Grote. MacNab's Is.
and Digby ; not common ; July.
2480. *E. venusta* Walk. MacNab's Is ; 20 July, 1908 (Perrin).
Halifax (Downs).
2481. *Eosphropteryx thyatiroides* Guenée. MacNab's Is ;
rare. Digby ; Aug. 14, 1906.
2482. *Autographa mappa* G. & R. MacNab's Is. and Digby ;
Aug. 5, 1905 ; July 20, 1906 ; very rare.
2483. *A. bimaculata* Stephens. MacNab's Is. and Digby ;
not common ; Aug. 3 to 23.
2488. *A. precatationis* Guenée. MacNab's Is.; scarce. Digby ;
Aug. 10, 1906.

2491. *A. flugellum* Walk. MacNab's Is. and Digby; July 25, 1907.
2496. *A. brassicae* Riley. MacNab's Is.; Sept. 23, 1909.
2501. *A. alias* Ottol. MacNab's Is.; scarce. Digby; Aug. 8, 1906.
2503. *A. altera* Ottol. (?) MacNab's Is.; rare.
2505. *A. rectangula* Kirby. MacNab's Is.; plentiful. Digby; scarce; Aug.
2509. *A. selecta* Walk. MacNab's Is.; rare. Digby; Aug. 21, 1906.
2515. *A. epigaea* Grote. MacNab's Is.; common.
2517. *A. ampla* Walk. Digby; July 8, 1905; July 20, 1906. MacNab's Is.
2519. *A. falcigera* Kirby. MacNab's Is. and Digby; common; June, Aug., Sept.
2555. *Alabama argillacea* Hübn. MacNab's Is.; Oct. 8, 1905.
2568. *Rivula propinqualis* Guenée. Digby; Aug. 7, 1907; July 6, 1908.
2601. *Eustrotia albidula* Guenée. Digby; common; June 15 to July 13. MacNab's Is.; one specimen; June 14, 1906.
2604. *E. concinnimacula* Guenée. Digby; 1904; June 20, 1908.
2612. *E. apicosa* Haworth. MacNab's Is. and Digby; Sept. 3, 1907; June 25, 1908.
2613. *E. carneola* Guenée. MacNab's Is.; July 9, 1909, Digby; July 7, 1906; June 25, July 20, 1908.
2622. *Lithacodia bellicula* Hübn. Digby; 1904.
2715. *Metathorasa montifera* Guenée. MacNab's Is. and Digby; not common; June 19 to 22.
2716. *Euherrichia mollissima* Guenée. Digby; June 22, 1906.
2725. *Pangrapta decoralis* Hübn. MacNab's Is. and Digby; common; June 7 to Aug. 14.

2734. *Homopyralis contracta* Walk. MacNab's Is.; Aug. 9, 1909. Digby; rare; June 28, 1906; Aug., 1907; June 17, 1908.
2754. *Drasterea erecta* Cramer. MacNab's Is. and Digby; common; Aug.
2755. *D. crassiuscula* Haworth. Digby; common; May 5 to 10; Aug. 10 to 20.
2769. *Meliopotis limbolaris* Geyer. North West Arm, Halifax; Aug. 15, 1909 (Perrin). Digby; 1904; July 28, 1907; June 17, 1908.
2826. *Catocala relictata* Walk. MacNab's Is.; scarce. Digby; not common; Aug. 17 to Sept. 15.
- 2826a. *C. relictata* var. *bianca* Edw. Digby; rare; Sept. 1 to 15.
2830. *C. concumbens* Walk. MacNab's Is. and Digby; common; Aug. 11 to Sept. 28.
2848. *C. unijuga* Walk. Digby; common; Aug. 10 to Sept. 11.
2854. *C. briseis* Edw. MacNab's Is.; Aug. 12, 1905. Digby; not common; Aug. 22 to Sept. 4.
2857. *C. parta* Guenée. MacNab's Is. and Digby; Aug. 17 to Sept. 14.
2864. *C. ultronia* Hübn. Digby; not common; Aug. 30 to Sept. 4.
2865. *C. ilia* Cramer. Digby; Sept. 31, 1906.
2872. *C. cerogama* Guenée. Digby; Aug. 25, 1906.
2884. *C. antinympa* Hübn. Digby; not common; Aug. 14 to 26.
2886. *C. cœlebs* Grote. Digby; not common; Aug. 10 to 24.
2892. *C. polygama* Guenée. MacNab's Is.; Aug. 25, 1904.
- 2892a. *C. polygama* var. *cratægi* Saunders. MacNab's Is.; Aug. 17, 1907. Digby; Sept. 17, 1907.
2900. *C. præclara* G. & R. Digby; Sept. 17, 1907.
- 2905a. *C. gracilis* var. *sordida* Grote. MacNab's Is. and Digby; very common; Aug. and Sept.

2921. *Parallelia bistriaris* Hübn. MacNab's Is. and Digby ;
June 22 to Aug. 12:
2977. *Zale horrida* Hübn. Digby ; very common ; June 15
to 24.
- 2983a. *Ypsia undularis* var. *æruiginosa* Guenée. Digby ; com-
mon ; June.
2986. *Homoptera lunata* Drury. MacNab's Is. and Digby ;
very common ; May 17 to June 22.
- 2986a. *H. lunata* var. *edusa* Drury. MacNab's Is. and Digby ;
common ; June.
3002. *H. duplicata* Bethune. Digby ; scarce ; June 6 to 20.

Subfamily HYPERINÆ.

3008. *Epizeuxis americana* Guenée. MacNab's Is. and
Digby ; common ; Aug. 3 to 10.
3009. *E. æmula* Hübn. MacNab's Is. and Digby ; common ;
Aug.
3012. *E. lubricalis* Geyer. Digby ; not common ; July.
3025. *Zanclognatha marcidilinea* Grote. Digby ; common ;
Aug.
3036. *Philonetra metonalis* Walk. Digby ; July 18, Aug. 2,
1907 ; June 30, 1908.
3044. *Renia sobrialis* Walk. MacNab's Is. ; Aug. 10, 1909.
Digby ; Aug., 1906.
3045. *R. clitosalis* Walk. Digby ; Aug., 1906.
3049. *Bleptina caradrinalis* Guenée. MacNab's Is.
3054. *Heterogramma pyramusalis* Walk. MacNab's Is.
3058. *Palthis angulalis* Hübn. Digby ; not common ; June.
3060. *Capis curvata* Grote. MacNab's Is. ; Aug. 22, 1909 ;
July 10, 1910.
3063. *Lomanaltes eductalis* Walk. Digby ; June 24, 1907 ;
June 27, July 21, 1908.
3065. *Bomolocha baltimoralis* Guenée. Digby.
3066. *B. bijugalis* Walk. MacNab's Is. ; Aug. 8, 1907. Digby.
3072. *B. toreuta* Grote. Digby ; July 27, 1907 ; June 27, 1908.

3079. *Plathyphena scabra* Fabr. Digby; common; Aug. 29 to Sept. 8.
 3080. *Hypena humuli* Harris. MacNab's Is.; very common. Digby; scarce; Aug.

Family NOTODONTIDÆ.

- 3092a. *Melalopha apicalis* var. *ornata* G. & R. MacNab's Is. and Digby; July 2, 1907.
 3094. *M. inclusa* Hübner. MacNab's Is.; June 10, 1910.
 3096. *M. albosigma* Fitch. MacNab's Is.; July 4, 1907.
 3098. *Datana ministra* Drury. MacNab's Is. and Digby; not common; July.
 3111. *Hyperæschra stragula* Grote. Digby; March 15, 1905; June 30, July 12, 1906.
 3118. *Pheosia dimidiata* H.-S. MacNab's Is.; one specimen emerged July 3, 1910.
 3120. *Lophodonta furruginea* Pack. MacNab's Is.; June 15, 1906.
 3123. *Nadata gibbosa* S. & A. MacNab's Is.; rare.
 3125. *Symmerista albifrons* S. & A. Digby and MacNab's Is.; not common; June 16 to July 5.
 3137. *Heterocampa manteo* Doubl. MacNab's Is.
 3140. *H. biundata* Walk. MacNab's Is. and Digby; July 2, 1907.
 3148. *Schizura ipomæa* Doubl. MacNab's Is.
 3148b. *S. ipomæa* var. *cinereofrons* Pack. MacNab's Is.
 3151. *S. unicornis* S. & A. MacNab's Is. and Digby.
 3153. *S. badia* Packard. MacNab's Is.; Aug. 6, 1907; Aug. 7, 1910.
 3164. *Harpyia scolopendrina* Boisd. Halifax (Downs).
 3164b. *H. scolopendrina* var. *albicoma* Strecker. MacNab's Is.; Aug. 10, 1907.
 3166. *Gluphisia septentrionalis* Walk. MacNab's Is.; Aug. 16, 1906.

Family THYATIRIDÆ.

3173. *Habrosyne scripta* Gosse. MacNab's Is. and Digby ; common ; June 22 to Aug. 3.
3176. *Pseudothyatira cymatophoroides* Guenée. MacNab's Is. and Digby ; July 21 to 29.
3177. *P. expultrix* Grote. MacNab's Is. and Digby ; common ; June 19 to July 19.

Family LIPARIDÆ.

3187. *Notolophus antiqua* Linn. MacNab's Is. and Digby ; not common ; Sept. and Oct.
3190. *Hemerocampa leucostigma* S. & A. MacNab's Is. and Digby ; very common ; Aug. and Sept.
3195. *Olene plagiata* Walk. MacNab's Is. ; Aug. 6, 1907.
3197. *Euproctis chrysorrhœa* Linn. Digby ; July 14, 1905 ; first specimen taken in Nova Scotia.

Family LASIOCAMPIDÆ.

3208. *Tolyte velleda* Stoll. MacNab's Is. ; Oct. 4, 1909.
3214. *Mulacosoma americana* Fabr. Digby and MacNab's Is. ; rare ; July.
3221. *M. disstria* Hübn. Digby ; very common during July 1905, less so in 1907, scarce 1908.
3223. *Epicnaptera americana* Harris. Digby ; Jan. 17, 1905 ; bred ; and MacNab's Is.

Family PLATYPTERYGIDÆ.

3226. *Oreta rosea* Walk. MacNab's Is. ; Aug. 4, 1904. Digby ; Aug. 2, 1905.
3229. *Drepana arcuata* Walk. MacNab's Is. and Digby ; not common ; June 16 to July 18.
- 3229a. *D. arcuata* var. *genicula* Grote. MacNab's Is. and Digby ; not common.
3231. *Falcaria bilineata* Pack. MacNab's Is. ; Aug. 9, 1909. Digby ; July 26, 1907.

Family GEOMETRIDÆ.

Subfamily DYSPTERIDINÆ.

3234. *Nyctobia limitata* Walk. MacNab's Is. and Digby ;
common ; April and May.
3237. *Cludora atroliturata* Walk. MacNab's Is. and Digby ;
not common ; May 7 to June 13.
3240. *Rachela bruceata* Hulst. Digby ; not common ; Nov.

Subfamily HYDRIONINÆ.

3247. *Alsophila pomataria* Harris. MacNab's Is. Digby ;
Nov. 23, 1905.
3248. *Eudule mendica* Walk. MacNab's Is. ; not common.
Digby ; very common ; June 7 to 19.
3256. *Tulledega tabulata* Hulst. Digby ; June 13, 1907.
3282. *Tephroclystis albicapitata* Pack. MacNab's Is. ; not
common.
3287. *T. latipennis* Hulst. Digby ; July 29, 1908.
——. *T. togatu*. Digby ; June 18, July 7, 1906 ; July 22,
1907 ; June 22-29, 1908.
——. *T. quebecatu* Taylor. Digby ; Sept. 11, 19, 1907.
——. *T. catskillatu*. MacNab's Is. ; one, May 5, 1909. Digby ;
Aug. 18, 1908.
——. *T. mutata*.* Digby ; July 27, 1908.
3323. *Eucymatoge anticaria* Walk. MacNab's Is. ; Aug. 10,
1906. Digby ; not common ; Aug. 14 to 29.
3327. *E. intestinuta* Guenée. MacNab's Is. and Digby
3328. *E. vitalbata* Denis & Schif. Digby.
3329. *Venusia cambrica* Curtis. MacNab's Is. ; June 10, 1906,
3330. *V. duodecimlineata* Pack. MacNab's Is.
3331. *V. comptaria* Walk. Digby ; July 26, Aug. 29, 1907 ;
June 29 to July 20, 1908.
3332. *Euchæca albovittata* Guenée. MacNab's Is. and Digby ;
common ; June 13 to July 7.

*The last four species were identified for Mr. Russell, and in his absence the authority for names, which do not appear in Dyar's list, cannot be inserted.—ED.

3337. *Epirrita dilutata* D. & S. MacNab's Is. and Digby ;
Oct. 10, 1907.
3340. *Hydria undulata* Linn. MacNab's Is. and Digby ;
common ; July 7 to 31.
3348. *Eustroma diversilineata* Hübn. MacNab's Is. and
Digby ; not common ; Aug. 28 to Sept. 11.
3352. *E. prunata* Linn. Digby ; not common ; Aug.
3353. *E. nubilata* Pack.* Digby ; Aug. 3, 1906.
3355. *E. explanata* Walker. MacNab's Is.; Aug. 1, 1909.
3359. *Rheumaptera hystata* Linn. MacNab's Is. and Digby ;
common ; June 12 to July 23.
3361. *R. sociata* Bork. Digby ; Aug. 16, 1907 ; July 14, 1908.
3370. *Percnoptilota fluviata* Hübn. Digby ; Sept. 11, 1907.
3371. *Mesoleuca ruficiliata* Guenée. MacNab's Is. and
Digby ; common ; July.
3374. *M. lacustrata* Guenée. MacNab's Is.
3376. *M. intermediata* Guenée. Digby ; Aug. 3 to 17, 1906.
3379. *M. truncata* Hufnagel. MacNab's Is. and Digby ;
common ; Sept.
3381. *M. silaceata* Hübn. Digby ; not common ; June 15
to 20.
3383. *M. hersiliata* Guenée. Digby ; May 9, 1905 ; July
22, 1907.
3386. *M. vasaliata* Guenée. MacNab's Is. and Digby ; not
common ; May 22 to June 30.
3387. *Hydriomena sordidata* Fabr. Digby ; common ; June
1 to 18.
3388. *H. autumnalis* Strömeyer. MacNab's Is.; common.
3390. *H. teniata* Stephens. Digby ; Aug. 16, 1907.
3395. *H. contracta* Pack. Digby ; Aug. 10 to Sept.
3401. *H. multiferata* Walk. MacNab's Is.; July 18, 1906 ;
Digby ; July 2, 1906.

*The range of *E. nubilata* is given as "the Pacific States" in Dyar's list, which would cause us not to expect it here.--Ed

3402. *H. latirupta* Walk. MacNab's Is.; July 10, 1906.
 3416. *Triphosa dubitata* Linn. MacNab's Is.; Sept. 13, 1909.
 3438. *Gypsochroa designata* Hufnagel. MacNab's Is.; May 15, 1910.
 3449. *Petrophora incurсата* Hübn. MacNab's Is.
 3450. *P. abrasaria* Herrich-Schaeffer. Digby; July 7, 1906. MacNab's Is., two specimens, July 6, 1906; July 4, 7, 1908.
 3457. *P. ferrugata* Clerck. Digby; common; June.
 3463. *P. fluctuata* Linn. MacNab's Is. and Digby; July 2, 1906; June 29, 1908.
 —, *P. planata* Taylor. Digby; July 2, 1906.

Subfamily STERCHIINÆ.

3480. *Cosymbia lumenaria* Hübn. MacNab's Is. and Digby; not common.
 3486. *Synelys alabastaria* Hübn. Digby; not common; July.
 3487. *S. ennucleata* Guenée. Digby; not common; June 28 to July 11.

Subfamily GEOMETRINÆ.

3568. *Eucrostis incertata* Walk. MacNab's Is. and Digby; common; May.
 3587. *Aplodes mimosaria* Guenée. MacNab's Is. Digby; June 12, July 1, 1907; June 8 to 28, 1908.

Subfamily ENNOMINÆ.

3603. *Epelis truncataria* Walk. MacNab's Is. and Digby; common; June.
 3604. *Eufidonia notataria* Walk. MacNab's Is. and Digby; common; June 14 to 24.
 3605. *Orthofidonia exornata* Walk. MacNab's Is. and Digby; not common; June.
 3606. *O. semiclarata* Walk. MacNab's Is. and Digby; common; June.

3608. *O. vestaliata* Guenée. MacNab's Is. and Digby; June 24 to July 3.
3618. *Psysostegania pustularia* Guenée. MacNab's Is.; Aug. 18, 1906. Digby; July 12 to Aug. 13. Not common.
3619. *Gueneia basiaris* Walker. MacNab's Is.; Aug. 15 1907.
3623. *Deilinia variolaria* Guenée. Digby and MacNab's Is.; common; June.
3624. *D. erythemaria* Guenée. MacNab's Is.; one specimen; June 25, 1906.
3647. *Sciagraphia granitata* Guenée. MacNab's Is. and Digby; common; May 28 to June 16.
3666. *Philobia notata* Linn. Digby.
3667. *P. enotata* Guenée. MacNab's Is. and Digby; not common; July.
3683. *Macaria glomeraria* Grote. MacNab's Is.; May 25, 1908.
3695. *Cymatophora brunneata* Thunberg. Digby; July 7, 1906; July 6, 1908.
3705. *C. subcessaria* Walk. Digby; not common; July 14 to 22.
3708. *C. wauaria* Linn. MacNab's Is.; July 30, 1906.
3748. *Homochlodes fritillaria* Guenée. MacNab's Is. and Digby; common; June.
3753. *Apacasia detersata* Guenée. Digby; common; May and June.
3754. *A. deducta* Walk. MacNab's Is. and Digby.
3755. *A. defluata* Walk. MacNab's Is. and Digby; common; May and June.
3764. *Caripeta divisata* Walk. MacNab's Is. and Digby; common; June 18 to July 29.
3780. *Nepytia semiclusaria* Walk. Digby.
3803. *Paraphria subatomaria* Wood. MacNab's Is.; common.
3850. *Cleora pampinaria* Guenée. Digby; Aug. 17, 1907.

3855. *C. larvaria* Guenée. MacNab's Is. and Digby; not common; June 17 to 30.
3858. *Melanolophia canadaria* Guenée. MacNab's Is. and Digby; not common.
3859. *Æthaloptera intextata* Walker. MacNab's Is. and Digby.
3862. *Ectropis crepuscularia* Denis & Sch. MacNab's Is. and Digby; June 6, 20, 1907.
3867. *Lycia cognataria* Guenée. MacNab's Is.; July 11, 1907.
3873. *Nacophora quernaria* S. & A. MacNab's Is.; March 24, 1907.
3884. *Erannis tiliaria* Harris. MacNab's Is.: Sept. 21, 1906 (Perrin). Halifax (Downs).
3886. *Cingilia catenaria* Drury. MacNab's Is.; Sept. 22, 1901. Digby; very common; Sept. 15 to 21.
- 3898a. *Anagoga pulveraria* var. *occiduaris* Walker. Digby; June 20, 1907; July 6, 1908.
3902. *Sicya macularia* Harris. MacNab's Is.: Aug. 28, 1904. Digby; Aug. 3, 1906.
3908. *Therina endropiaria* G. & R. Digby; June 22, 1907; June 18 to 29, 1908.
3909. *T. athasiaria* Walker. Digby; June, 1908.
3910. *T. fuscularia* Guenée. Digby; very common; Sept 10 to 22.
3911. *T. fervidaria* Hübn. MacNab's Is.; very common.
3913. *Metrocampa praegrandaria* Guenée. MacNab's Is. and Digby; not common; July 26 to 31.
3922. *Ennomos subsignarius* Hübn. MacNab's Is.; Aug. 9, 1904.
3923. *E. magnarius* Guenée. MacNab's Is.
3925. *Xanthotype crocatoria* Fabr. MacNab's Is. and Digby; July.
3927. *Plagodis serinaria* H.-S. MacNab's Is.; June 24, 1904. Digby; June 24, 1905.

3934. *Hyperitis micaria* H.-S. MacNab's Is. and Digby ;
June 23, 1908.
3939. *Ania limbata* Haworth. Digby ; common ; Aug.
3941. *Gonodontis hy ochra ia* H.-S. MacNab's Is.; two
specimens ; July 9, 1909
3944. *G. duaria* Guenée. MacNab's Is. and Digby ; June 12,
1907 ; June 4 to 11, 1908.
3957. *Euchlana effectaria* Walk. Digby ; July 4 to 10, 1906.
3971. *Eut. apeli kentaria* Grote. MacNab's Is ; three speci-
men's.
3981. *Metanema inatomaria* Guenée. MacNab's Is. and
Digby ; not common ; July.
3982. *M. determinata* Walk. MacNab's Is. and Digby ; not
common ; July.
3986. *M. quercivoraria* Guenée. MacNab's Is.; June 12, 1906.
3990. *Priocycla armantaria* H. & S. MacNab's Is.; July 21,
1905.
4001. *Azelina anctaria* Hübn. MacNab's Is. and Digby ; not
common ; July.
4007. *Caberodes confusaria* Hübn. MacNab's Is.; June 2, 1906.
4011. *Tetracis crocallata* Guenée. MacNab's Is. and Digby ;
June.
4016. *Subulodes lorata* Grote. MacNab's Is. and Digby ;
common ; June 14 to 22.
4026. *S. transversata* Drury. Digby ; very common ; Sept.
4028. *Abbotana clemataria* S. & A. MacNab's Is. Digby ;
June 25, 1908.

Subfamily BREPHINÆ.

4037. *Brephos infans* Möschler. MacNab's Is. and Digby ;
May 7, 1907 ; May 16, 1908.

Superfamily TINEOIDEA.

Family COCLIDIDÆ.

4106. *Tortrizidia testacea* Pack. Digby ; June 24, 1907.

Family SESIIDÆ.

4191. *Bembecia marginata* Harris. Digby ; July.

Family PYRALIDÆ.

Subfam PYRAUSTINÆ.

4276. *Hymenia fascialis* Cram. MacNab's s.; two specimens.
 4277. *Desmia funeralis* Hübner. MacNab's Is.; rare.
 4336. *Evergestis straminealis* Hübner. MacNab's Is. and
 Digby ; common ; July.
 4342. *Nomophila noctuella* D. & S. MacNab's Is.
 4347. *Loxostege chortalis* Grote. Digby ; June 17, 1907.
 4413. *Phlyctænia tertialis* Guenée. MacNab's Is.; July 20,
 1906.
 4418. *Pyrausta fissalis* Grote. MacNab's Is.; Aug. 9, 1909.
 4436. *P. fumalis* Guenée. MacNab's Is.; Aug. 1, 1909.
 4454. *P. inæqualis* Guenée. Digby ; June 5, 1907.
 4472. *P. funebris* Ström. Digby ; June.
 ———. *P. ochosalis* Fitch, MS. (See W. H. Holland's "Moth
 Book," p. 398, and pl. 47, fig. 57.) MacNab's Is.;
 rare.

Subfamily PYRALINÆ.

4516. *Pyralis farinalis* Linn. MacNab's Is. and Digby ; July
 18, 1905, and Aug. 2, 1907.
 4521. *erculia olinalis* Guenée. MacNab's Is.; Aug. 7, 1908.
 4523. *H. himonialis* Zeller. Digby ; Aug. 2, 1907.

Subfamily CRAMBINÆ

4575. *Crambus agitatellus* Clemens. Digby; June 9, 11, 1906.

Subfamily PHYCITINÆ

4832. *Euzophera semifuneralis* Walk. Digby; July 14, 1906;
June 5, Sept. 19, 1907.
——. *Palpita hortulata*. (Identified by Prof. C. H. Fernald.)
MacNab's Is.; not common. Formerly reported by
Dr. J. Fletcher as *Pyrausta generosa* G. & R.

Family PTEROPHORIDÆ

4962. *Pterophorus homodactylus* Walker. MacNab's Is.

Family TORTRICIDÆ

Subfamily OLETHREUTINÆ

5167. *Thiodia aspidiscana* Hübner. Digby.
5296. *Cydia pomonella* Linn. Digby.

Subfamily TORTRICINÆ

5331. *Epagoge sulfureana* Clemens. Digby; Aug. 9, 1905.
5352. *Sparganothis violaceana* Robinson. Digby.
5356. *Archips rosaceana* Harris. MacNab's Is.; Aug. 16, 1909.
5379. *A. persicana* Fitch. Digby.

Family YPONOMEUTIDÆ

- 5537a. *Orchemia diana* var. *betuliperda* Dyar. MacNab's Is.;
Sept. 1, 1909.

Family ECOPHORIDÆ

5889. *Depressaria heracliana* De Geer. MacNab's Is.; Aug.
15, 1909.
5893. *Semioscopsis ackardella* Clemens. MacNab's Is.; May
12, 1909.

Family TINEIDÆ.

6236. *Bucculatrix canadensisella* Chambers. Dr. A. H. MacKay, of Halifax, reports this species very common during the last two years, the larvæ attacking the leaves of birches. It has been associated, at least in Pictou, Colchester and Halifax counties, with the birch-leaf sawfly, *Phlebotrophia mathesoni*,* MacGillivray. *Bucculatrix* larvæ eat patches out of the leaves, leaving the epidermis of one side; *Phlebotrophia* larvæ mine between the upper and lower epidermis, forming circular patches deprived of the green central layer of the leaf.
6487. *Tineola bisselliella* Hummel. (Clothes moth). Very common.
6532. *Trichophaga tapetzella* Linn. This may be 6520, *Tinea pellionella* Linn. (the fur moth), there not being a specimen at hand to be certain (Perrin).
6557. *Adela purpura* Walker. MacNab's Is.

Superfamily MICROPTERYGOIDEA.

Family HEPIALIDÆ.

6604. *Sthenopis argenteomaculatus* Harris. Halifax (Downs collection).
6609. *Hepialus mustelinu* Pack. MacNab's Is.; Aug. 25, 1907.
6610. *H. gracilis* Grote. MacNab's Is.; Aug. 16, 1907.

**Phlebotrophia mathesoni* MacGillivray may be only a variety of the European species.—ED.

ADDITIONS TO THE CATALOGUE.

The following additional species should be inserted in the foregoing list, as indicated by their respective numbers:

1225. *Hadena lateritia* Hübner. MacNab's Is.; common.
 1226. *Hadena cogitata* Smith. MacNab's Is.; June 30, 1910.
 1252. *Hadena inordinata* Morrison. MacNab's Is.; June 21, 1910.
 1805. *Mamestra congermana* Morrison. MacNab's Is.; July 23, 1907.
 ——. *Mamestra incallida*. (Identified by Dr. J. B. Smith): MacNab's Is.; June 9, 1909.
 2197p. *Pyrhia umbra* var. *exprimens* Walker. MacNab's Is.; July 30, 1907.
 2240. *Scopelosoma tristigmatu* Grote. MacNab's Is.; May 21, 1907.
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Amended number of nominal species and varieties in the preceding catalogue: Butterflies, 60; moths, 480; total, 540.

Since the preparation of the catalogue, one of the authors, Mr. John Russell, has removed from Nova Scotia, and his present address is Hope Station, British Columbia.