

ADDITIONS TO THE CATALOGUE OF BUTTERFLIES AND MOTHS
COLLECTED IN THE NEIGHBOURHOOD OF HALIFAX,
ETC., NOVA SCOTIA.—BY JOSEPH PERRIN, McNab's
Island, Halifax.

(Read 12 April 1915)

In the Transactions of this Institute, volume xii, part 3 (for 1908-09), Halifax, 1912, pages 258-290, there was published a Catalogue of Butterflies and Moths mostly collected in the neighbourhood of Halifax and Digby, by the present writer and Mr. John Russell, then of the latter place. Since 1909 the writer has continued collecting these insects, and has also received specimens and records of captures from Mr. George E. Sanders, field officer of the Department of Agriculture, entomological laboratory, Bridgetown, Annapolis County, N. S., and from Mr. E. Chesley Allen of Yarmouth, N. S. To those two gentlemen I wish to express my thanks.

In the present supplementary paper there is presented a list of two Butterflies and sixty Moths which were not previously reported; with additional remarks on species before listed, and on such as have been taken at Halifax for the first time. These notes are arranged in two groups: (a) species not hitherto reported from Nova Scotia, and (b) additional notes on species previously reported.

Our previous catalogue contained 60 nominal species and varieties of Butterflies, and 480 of Moths; total 540. The present supplement brings the number up to 62 Butterflies and 540 Moths, total 602.

The nomenclature and arrangement is that of Dr. Harrison G. Dyar's *List of North American Lepidoptera* (Bulletin U. S. National Museum, No. 52; Washington, 1902), and his numbers are prefixed.

All the specimens from McNab's Island (which is situated in the mouth of Halifax Harbour) were taken by myself; other localities have attached the names of those responsible for the records for those places. As before, doubtful specimens have been referred, as far as possible, to specialists for their opinion.

Species not hitherto reported from Nova Scotia.

Order LEPIDOPTERA.

RHOPALOCERA (Butterflies).

Superfamily PAPILIONOIDEA.

Family PIERIDÆ.

65. *Eurymas eurytheme* Bois. MacNab's Is., Halifax; Sept. 4, 1910, female; Sept. 12, 1913, male. (Perrin).

Family LYCENIDÆ.

432. *Rusticus scudderi* Edw. South East Passage, Halifax County; July 3, 1911, one male; and August 9, 1914, one male and one female. (Perrin).

HETEROCERA (Moths).

Superfamily SPHINGOIDEA.

Family SPHINGIDÆ.

706. *Sphinx chersis* Hübner. Digby, N. S.; July 26, 1907. (Russell).
721. *Ceratonia amyntor* Geyer. Bridgetown; June 16, 1913. (Sanders).

Superfamily BOMBYCOIDEA.

Family LITHOSIDÆ.

808. *Hypoprepia fucosa* Hübner. Yarmouth; July 27, 1913. (Allen).

Family ARCTIDÆ.

828. *Eubaphe lata* Guérin. Deerfield, Yarmouth Co.; July 28, 1913. (Allen).
853. *Estigmene prima* Slosson. South East Passage, Halifax Co.; June 9, 1912. (Perrin).

Family NOCTUIDÆ.

Subfamily Noctuinae.

960. *Panthea acronyctoides* Walker. MacNab's Is.; June 15, 1912.
1158. *Hadena modica* Guenée. MacNab's Is.; August 20, 1909, at light.
1418. *Platagrotis pressa* Grote. MacNab's Is.; July 15, 1912, at light.
1455. *Agrotis geniculata* Grote & Robinson. Deerfield, Yarmouth Co., August 16, 1911. (Allen).
1788. *Mamestra liquida* Grote. MacNab's Is.; July 14, 1911, at light.
2060. *Tricholita signata* Walker. MacNab's Is.; August 6, 1911.
2078. *Xylina disposita* Morrison. MacNab's Is.; Sept. 26, 1913, at light.
2079. *X. petulca* Grote. MacNab's Is.; Oct. 21, 1912.
2090. *X. antennata* Walker. Bridgetown; Sept. 17, 1913. (Sanders).
2092. *X. grotei* Riley. (*X. cinerosa* Grote.) Bridgetown; Oct. 11, 1913. (Sanders).
2095. *X. innominata* Smith. Bridgetown. (Sanders).
2102. *X. georgii* Grote. Bridgetown; Sept. 24, 1913. (Sanders).
2106. *X. unimoda* Lintner. Bridgetown; Oct. 17, 1913. (Sanders).
- . *Hydroecia micacea* Esp. Bridgetown; Oct. 10, 1912. (Sanders).
2244. *Scopelosoma devia* Grote. Yarmouth; May 17, 1913. (Allen).

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Subfamily *Catocalinae*.

2905. *Catocala gracilis* Edw. MacNab's Is.; Aug. 21, 1914.
3006. *Erebus odora* Linn. Yarmouth; about June 20, 1906.
(Allen).

Subfamily *HYPERINÆ*.

3039. *Chytolita morbidatis* Guenée. MacNab's Is.; July 8,
1912, at light.

Family *NYCTEOLIDÆ*.

3083. *Nycteola revayana* Scopoli. MacNab's Is.; Sept. 19,
1914.

Family *LASIOCAMPIDÆ*.

- 3221c. *Malacosoma disstria erosa* Stretch. MacNab's Is.;
July 8, 1911, at light (Perrin); common at Bridge-
town (Sanders).

Family *GEOMETRIDÆ*.

Subfamily *Hydriomeninae*.

3352. *Eustroma triangulata*. Deerfield, Yarmouth Co.; July
28, 1913 (Allen)

Subfamily *Sterrhinae*.

3551. *Eois anticaria* Walker. MacNab's Is.; July 7, 1910.

Subfamily *Geometrinae*.

3578. *Synchlora wata* Fab. MacNab's Is.; July 9, 1912, at
light.

Subfamily *Ennominae*.

3881. *Phigalia titea* Cramer. MacNab's Is.; April 27, 1914.
3898. *Anagoga pulveraria* Linn. MacNab's Is.; July 14,
1907.
3931. *Plagodis phlogosaria* Guenée. MacNab's Is.; July
14, 1914. There is some uncertainty as to the
determination of this specimen. It was at first
named *Plagodis altruaria* by Dr. Henry Skinner of
the Academy of Natural Sciences, Philadelphia,
after inspection of the specimen itself. This name
does not appear in Dyar's List and possibly is a

new one. Subsequently it was determined as *Plagodis phlogosaria*, Guenée, by Mr. Albert F. Winn of Westmount, Montreal, from a drawing of the specimen.

3947. *Gonodontis obfirmaria* Hübner. South East Passage, Hx. Co.; June 8, 1912. (Perrin).
3956. *Euchlæna obtusaria* Hübner. Deerfield, Yar. Co.; July 8, 1913. (Allen).
3960. *E. johnsonaria* Fitch. Deerfield, Yar. Co.; July 6, 1913. (Allen).
4028a. *Abbotana clemataria transducens* Walker. Dartmouth, Hx. Co.; June, 1907. (Perrin).

Family EPIPLEMIDÆ.

4043. *Callizzia amorata* Packard. Digby; July 16, 1908. (John Bussell).

Superfamily TINEOIDEA.

Family PYRALIDÆ.

Subfamily Pyraustinæ.

4410. *Phlyctænia terrealis* Treitschke. MacNab's Is.; July 16, 1912.
4451. *Pyrausta rubricalis* Hübner. MacNab's Is.; June 10, 1910.

Subfamily Scopariinæ.

4510. *Scoparia centuriella* Denis & Schiffermüller. Digby; June 23, 1908 (Russell). MacNab's Is.; July 8, 1911 (Perrin).

Subfamily Pyralinæ.

4511. *Aglossa cuprealis* Hübner. MacNab's Is.; June 20, 1911.

Subfamily Schœnobinæ.

4547. *Schœnobias forficellus* Thunberg. MacNab's Is.; July 14, 1911.

Subfamily Crambinae.

4560. *Crambus hamellus* Thunberg. Yarmouth. (Allen).
 4566. *C. unistriatellus* Packard. Yarmouth, July 30, 1912.
 (Allen).
 4574. *C. alboclavellus* Zeller. Yarmouth. (Allen).
 4579. *C. hortuellus* Hübner. Yarmouth. (Allen).
 4580. *C. peritellus* Scopoli. Yarmouth; August 14, 1911.
 (Allen).
 4583. *C. myellus* Hübner. Yarmouth. (Allen).
 4585. *C. vulgivagellus* Clemens. MacNab's Is.; Aug. 10,
 1909.
 4587. *C. ruricolellus* Zeller. Yarmouth. (Allen).

Subfamily Phycitinae.

4874. *Ephestia kuehniella* Zeller. MacNab's Is.; Jan. 8,
 1915. This pest has only lately been imported
 into the Island in one of the cereals for family
 use (Perrin).

Family PTEROPHORIDÆ.

4981. *Pterophorus monodactylus* Linn. MacNab's Is. (Per-
 rin). Yarmouth, Sept. 20, 1913 (Allen).

Family TORTRICIDÆ.

Subfamily Olethreutinae.

5031. *Olethreutes nimbatana* Clemens. Bridgetown; Aug.
 9, 1912. (Sanders).
 5142. *Eucosma otiosana* Clemens. Bridgetown; Aug. 8,
 1912. (Sanders).
 5143. *E. similana* Hübner. Bridgetown; Sept. 2, 1912.
 (Sanders).
 5237. *Tmetocera ocellana* Schiffermüller. Bridgetown; Aug.
 13, 1913. (Sanders).

Subfamily Tortricinae.

5335. *Cenopsis reticulatana* Clemens. Bridgetown; Aug. 16, 1912. (Sanders).
5382. *Platynota flavedana* Clemens. MacNab's Is.; July 7, 1911.
5391. *Pandemis limitata* Robinson. Bridgetown; Aug. 15, 1912. (Sanders).
5406. *Tortrix fumiferana* Clemens. MacNab's Is.; July 7, 1911; at light.

Family ECOPHORIDÆ.

5894. *Simioscopsis allenella* Walsingham. MacNab's Is.; July. 19, 1911.

Additional notes on species previously reported.

Family NOCTUIDÆ.

975. *Apatela dactylina* Grote. MacNab's Is.; June 26, 1908.
1053. *Harrisimemna trisignata* Walk. One specimen, MacNab's Is.; July 9, 1912.
1067. *Chytonix palliatricula* Guenée. Reported by J. Russell as very common at Digby; but only one specimen has been taken at MacNab's Is., July 11, 1911, in sixteen years of collecting.

Family GEOMETRIDÆ.

3331. *Venusia comptaria* Walk. Only four specimens of this pretty little moth were taken by J. Russell at Digby, the last being captured on July 20, 1908. Four years later one specimen was collected at MacNab's Is.; July 18, 1912.
3370. *Percnoptilota fluvialata* Hübn. Several forms were taken at light on MacNab's Is., in July, 1912.

3390. *Hydriomena tæniata* Stephens. The moth so named by us has been redetermined *Larentia* [*Hydriomena*] *basaliata* Walk., by Mr. A. F. Winn of Montreal from a specimen taken by me at MacNab's Is., August 14, 1914. Mr. Winn says that *H. tæniata* is European, and has not as yet been taken on this side. Dyer considered *H. basaliata* Walk., as a synonymn of *H. tæniata* Stephens. It is merely a question as to the two forms being distinct.
3909. *Therina athasiaria* Walk. MacNab's Is.; May 26. 1910.

Family SESIIDÆ.

4191. *Bembecia marginata* Harris. This species has also been taken at Yarmouth by Mr. E. C. Allen, August 29, 1912.