

RECENT LITERATURE ON LEPIDOPTERA

Under this heading are listed each month papers on Lepidoptera from all the scientific journals which are accessible to us and our cooperating abstractors. It is hoped that eventually our coverage of the world's literature will be virtually complete. It is intended that every paper and book published after 1946 will be included. Abstracts give all new subspecies and higher categories, with type localities and generotypes. Papers of only local interest are merely listed. Papers devoted entirely to economic aspects will be omitted. Reprints are solicited from all publishing members. Initials of cooperating abstractors are as follows: [P.B.] - P. F. BELLINGER; [A.D.] - A. DIAKONOFF; [Y.O.] - Y. OKADA; [C.R.] - C. L. REMINGTON; [J.R.] - J. E. REMINGTON; [T.S.] - T. SHIRÖZU. A complete set of these pages for clipping and filing may be obtained for Vols. 4, 5, 6, and 7 for \$0.50 per volume.

E. DISTRIBUTION AND PHENOLOGY

- Box, Harold E., "The geographical and ecological distribution of some neotropical species of *Diatraea* Guild. (Lep., Pyral.) and certain of their parasites." *Proc. VIII Int. Congr.*, pp. 351-357. 1950. Discusses food plants and distribution of 9 spp. and some dipterous parasites. Evidence that both hosts and parasites differentiate into biological races in different parts of their ranges. [P.B.]
- Hellman, E. A., "Observations on the lepidopterous fauna of Paltamo Parish (Kn) in the summer of 1949" [in Finnish, English summary]. *Ann. Ent. Fennici*, vol. 15: pp. 121-123. 5 Dec. 1949. 39 new records. Discussion of causes of scarcity of Lepidoptera; notes on the biology of *Pieris napi*. [P.B.]
- Hoffman, Emil, "Sammelergebnis aus Warscheneckgebiet im Totengebirge aus dem Jahre 1944" [in German]. *Z. Wiener Ent. Ges.*, vol. 57: pp. 38-42. 30 June 1947. Annotated list (Macrolepidoptera).
- Komárek, Oldřich, "La contribution à la connaissance de la faune lépidoptérologique de la Bohême du nord-est, avec les diagnoses de deux formes nouvelles" [in Czech, French summary]. *Acta Soc. Ent. Českosloveniae*, vol. 47: pp. 41-45, 1 fig. 1 Feb. 1950. New records for the area and new localities. Names 2 aberrations. [P.B.]
- de Lesse, H., "Observations sur l'époque d'apparition et le comportement des Lépidoptères du Groënland occidental et remarques sur leur homochromie" [in French]. *Rev. Franç. Lépid.*, vol. 12: pp. 163-169, 1 pl. "Nov.-Dec. 1949" [26 Apr. 1950]: Phenological information on the spp. observed on the French expedition to west Greenland in 1949. Figures 15 spp. to illustrate their dull coloration, which blends with the rocks. [P.B.]
- Picard, J., "Nouvelles notes sur *Pyrgus* (*Pyrgus*) *malvae* Lin." [in French]. *Rev. Franç. Lépid.*, vol. 12: pp. 241-245. "Mar.-Apr." [25 Sept.] 1950. Notes on genitalia, biology, distribution [P.B.]
- de Puységur, K., "L'existence de *Libythea celtis* Fuessly dans les Alpes-Maritimes est connue depuis plus 75 ans" [in French]. *Rev. Franç. Lépid.*, vol. 12: pp. 81-83. "Mar.-Apr. [4 Oct.] 1949."
- Warnecke, Georg, "Weitere Ausbreitung des Landkärtchens (*Araschnia levana* L.)" [in German]. *Mitt. Faun. Arbeitsgem. Schleswig-Holst.*, n.s., vol. 3: pp. 14-15. 1950.

F. BIOLOGY AND IMMATURE STAGES

- Box, Harold E., "The more important insect pests of sugar cane in northern Venezuela." *Proc. Hawaiian Ent. Soc.*, vol. 14: pp. 41-51, 2 maps. Mar. 1950. Distribution and biology of *Casnia licoides* and 4 spp. of *Diatraea*. [P.B.]
- Diakonoff, A., "Viviparie bij Lepidoptera" [In Dutch: Viviparity in L.] *Verslag 83e Wintervergadering Nederl. Entom. Vereeniging*: pp. XXIX - XXXIII. 1 Feb. 1952. A preliminary report of studies on viviparity in *Monopis* (Tineidae). [A.D.]
- Gronvall, J. S., "Beiträge zur Kenntnis der Verbreitung und Biologie von *Cossus terebra*" [in German]. *Proc. VIII Int. Ent. Congr.*: pp. 781-784, 5 figs, 1 map. 1950. Distribution; notes on morphology and larval habits. [P.B.]
- Patočka, Jan, "La chrysalide de la géometride *Therapis evonymaria* Schiff. (Lep.)" [in Czech, French summary]. *Acta Soc. Ent. Českosloveniae*, vol. 47: pp. 59-60, 2 figs. 1 Feb. 1950. Describes and figures pupa. [P.B.]

- Planes, Silverio, "Influencia de la temperatura en el desarrollo del *Earias insulana*" [in Spanish]. *Bol. Patol. Veg. Ent. Agric.*, vol. 16: pp. 23-30. 1949. Analysis of relation between temperature and duration of early stages. [P.B.]
- Rougeot, Pierre-Claude, "Description des stades post-embryonnaires de quelques saturnioides gabonis [in French]. *Bull. Mens. Soc. Linn. Lyon*, vol. 18: pp. 208-217, 3 figs. Dec. 1949. Describes all stages of *Holocera angulata*, *Pseudanthberaea discrepans* (food plants *Poga olessa*, *Terminalia*); *Bunaeopsis macrophthalmus*; *Bunaea alcinoe alcinoe*; *Nudarelia dione*; *N. anthina*; *Imbrasia epimethea epimethea*; *I. e. obscura*; *Drepanoptera ploetzi*; incomplete information on *Lobobunaea goodi*, *L. phaedusa*, *Pseudobunaea* sp., *P. alinda sjöstedti*, *Nudarelia alopi rhodophila*, *Drepanoptera vacuna*. Most food plants are identified only by the native names. [P.B.]
- Ruiz Castro, Aurelio, "La polilla del olivo en España, *Prays oleellus* (F.)" [in Spanish]. *Bol. Patol. Veg. Ent. Agric.*, vol. 16: pp. 165-202, 19 figs. 1949. Taxonomic history, distribution, morphology and biology of this gelechiid. Lists numerous primary and higher parasites. [P.B.]
- Sarlet, L., "Iconographie des oeufs de Lépidoptères [in French]. *Lambillonea*, vol. 49: pp. 51-54, 62-67, 97-100; vol. 50: pp. 29-33. 25 June, 25 Aug., 25 Oct. 1949; 25 Apr. 1950. Outline of a universal system for describing eggs; notes on morphology and oviposition; glossary of descriptive terms. [P.B.]
- Sevastopulo, D. G., "Comments on 'Observations on the life histories of certain butterflies of Freetown, Sierra Leone'. *Ent. Rec.*, vol. 62: pp. 33-34. Mar. 1950.
- Suire, Jean, "Les premiers états d'*Epidola stigma* Stgr. (Lep. Gelechiidae)" [in French]. *Bull. Soc. Ent. France*, vol. 53: pp. 146-150, 14 figs. 28 Jan. 1949. Describes and figures all stages and discusses habits. A general feeder. [P.B.]
- Tiensuu, L., "Ein Massenauftreten von Insekten in lagerndem Mais" [in Finnish, German summary]. *Ann. Ent. Fennici*, vol. 13: pp. 153-170, 3 figs. "31 Dec. 1947" [1948]. Account of an infestation involving *Sitotroga*, *Plodia*, and *Ephestia cautella*. [P.B.]
- van Zwaluwenburg, R. H., "Notes on parasites of *Agonoxena argaula* Meyrick." *Proc. Hawaiian Ent. Soc.*, vol. 13: pp. 477-448. Mar. 1949. 4 parasites recorded. [P.B.]

G. PHYSIOLOGY AND BEHAVIOR

- Cazal, P., "Anatomie comparée des glandes rétro-cérébrales et du sympathique cephalique des insectes - son utilité pour la systématique" [in French]. *Proc. VII Int. Ent. Congr.*: pp. 116-123, 16 figs. 1950. Describes and figures morphology of retrocerebral glands, stomogastric nervous system and associated structures in 16 orders, and gives a phylogenetic chart of the insects based on this information. [P.B.]
- Cazal, P., "Conception histophysiologique des glandes rétro-cérébrales des insectes" [in French]. *Proc. VIII Int. Ent. Congr.*, pp. 214-217, 8 figs. 1950. Description of paracardiac bodies, corpora allata, and neurosecretory cells of brain in some insects, including "*Hyloicus*". [P.B.]
- Del'man, H. M., "Nekotorye zakonomernosti sutochnogo ritma dykhaniia nacekomykh (some regularities in the diurnal respiratory rhythm of insects)" [in Russian]. *Zool. Zhurn.* vol. 29: pp. 427-434, 8 figs. 1950.
- Larchenko, K. I., "Zakonomernosti razvitiia i razmnozheniia ozimī sovki (*Agrotis segetum* Schiff.)" [in Russian; the principles of development and reproduction in *A. segetum*]. *Isvest. Akad. Nauk SSSR, Ser. Biol.*, 1949: pp. 470-494.
- Stephen, W. P. & R. D. Bird, "The effect of barometric pressure upon oviposition of the Imported Cabbageworm, *Pieris rapae* (L.)." *Canad. Ent.*, vol. 81: p. 132. May 1949. Number of eggs laid per ♀ higher at lower pressures. [P.B.]
- Wilson, Kent H., "Swarming of *Eurema nicippe* (Cramer) (Lepidoptera: Pieridae)." *Bull. Brooklyn Ent. Soc.*, vol. 44: p. 20. Feb. 1949. Swarm in Texas, in fall; specimens suffused with red beneath. [P.B.]

H. MIGRATION

- Darlow, H. M., "Insects taken at sea in 1949." *Entomologist*, vol. 84: pp. 36-39. Feb. 1951. Includes records of 23 spp. of Lepidoptera [P.B.]
- Urquhart, F. A., "Marked Monarchs." *Nat. Hist.*, vol. 61: pp. 226-229, 6 figs. May 1952. Describes method of marking migrating Monarch butterflies used by Royal Ontario Museum of Zoology, Toronto: tiny label folded in half and glued through hole punched in wing. Also gives life history and general migrating habits. [J.R.]