

RECENT LITERATURE ON LEPIDOPTERA

(Under the supervision of PETER F. BELLINGER)

Under this heading are included abstracts of papers and books of interest to lepidopterists. The world's literature is searched systematically, and it is intended that every work on Lepidoptera published after 1946 will be noticed here; omissions of papers more than 3 or 4 years old should be called to Dr. BELLINGER's attention. New genera and higher categories are shown in CAPITALS, with types in parentheses; new species and subspecies are noted, with type localities if given in print. Larval foodplants are usually listed. Critical comments by abstractors may be made. Papers of only local interest and papers from *The Lepidopterists' News* are listed without abstract. Readers, particularly outside of North America, interested in assisting with this very large task, are invited to write Dr. BELLINGER (University College of the West Indies, Mona, St. Andrew, Jamaica, B.W.I.). Abstractors' initials are as follows: [P.B.] — P. F. BELLINGER; [I.C.] — I. F. B. COMMON; [W.C.] — W. C. COOK; [A.D.] — A. DIAKONOFF; [W.H.] — W. HACKMAN; [J.M.] — J. MOUCHA; [E.M.] — E. G. MUNROE; [N.O.] — N. S. OBRAZTSOV; [C.R.] — C. L. REMINGTON; [J.T.] — J. W. TILDEN; [P.V.] — P. E. L. VIETTE.

A. GENERAL

- Komárek, Julius, & Jaroslav Tykač, *Atlas motýlů*, 115 pp., 48 col. pls. Prague. 1953. [See note in *Lepid. News*, vol.9: p.158.]
 Schwarz, Rudolf, *Motýli*. 3. 157 pp., 48 col. pls. Prague. 1953. [See note in *Lepid. News*, vol.9: p.158.]
 Swanepoel, D. A., *Butterflies of South Africa: where, when and how they fly*. 320 pp., 17 pls. Cape Town: Maskew Miller Ltd. 1953. [See review in *Lepid. News*, vol.9: p.81.]

B. SYSTEMATICS AND NOMENCLATURE

- Amsel, H. G., "Wissenschaftliche Ergebnisse der zoologischen Expedition des National Museums in Prag nach der Türkei. Microlepidoptera" [in German]. *Acta Ent. Mus. Nat. Pragæ*, vol.27: pp.411-429, 19 figs. 1952. Describes as new *Ethmia anatolica* (Sulhan); *Sarisophora occidentella* (Granada, Spain); *XANTHOCERA*, *X. laticostella*. Figures genitalia of new spp. and adult of *E. anatolica*. Lists 40 spp., 6 new to Turkey. [J. M.]
 Angel, F. M., "Notes on the Lepidoptera of the Northern Territory of Australia, with description of a new species." *Trans. Roy. Soc. So. Australia*, vol.74: pp.6-14, 1 pl. 1951. Describes as new *Ogyris hewitsoni parsonsi* (Lycaenidæ) (Aileron, N.T.); *Synemon wulwulam* (Castniidæ) (Pine Creek, N. T.); figures wings. [I. C.]
 Bauer, David L., "Notes on the *Papilio machaon* complex in Arizona." *Lepid. News*, vol.9: pp.7-10. 8 April 1955.
 Bernardi, Georges, "Note à propos de la *Leuconea cratægioides* H. Lucas (Lep. Pierididæ)" [in French, Czech summary]. *Folia Ent.*, vol.11: pp.28-29. 30 Sept. 1948. *L. cratægioides*, described from China, is a good species and not a synonym of *Aporia hippia*. [J. M.]
 Bernardi, G., "Notes sur la taxonomie de deux *Colotis* malgaches" [in French]. *Naturaliste Malgache*, vol.6: pp.57-60, 6 figs. March 1955. *C. evanthæ* is confined to Madagascar, Juan de Nova, & Comoro Is.; *C. evanthides*, confined to Madagascar, Aldabra Is., & Comoro Is., has no affinity with the continental African species; *C. evippe*, in the Madagascar area, is known only from the Comoro Is. [P. V.]
 Biezanko, C. M., "*Colias lesbia pyrrhothea* Hübn., 1823 (Lepidoptera, Rhopalocera, Pieridæ), inimigo de alfalfa e de outras plantas aparentadas" [in Portuguese; English summary]. *Escola Agron. "Eliseu Maciel"* Bol. (Pelotas), no. 29: 23 pp., 2 pls. 1954. Describes generic characters and immature stages, female forms, economic aspects of *C. l. pyrrhothea*; figures venation and adults. [C. R.]
 Bourgogne, J., "Un *Oreopsyche* nouveau de la chaîne des Pyrénées" [in French]. *Rev. franç. Lépid.*, vol. 14: pp.199-203, 9 figs. Jan. 1955. Describes as new *O. lessei* (Psychidæ); describes last stage larvæ & case, distribution, & ethology. [P.V.]
 Brown, F. Martin, Donald Eff, & Bernard Rottger, "Colorado butterflies. Part I. Satyridæ." *Proc. Denver Mus. Nat. Hist.*, no.3: 32 pp., 23 figs. 30 Sept. 1954. See review in *Lepid. News*, vol.9: p.21.

- Burns, A. N., "Notes on Australian Rhopalocera with descriptions of new subspecies and life histories." *Mem. Nat. Mus. Victoria*, no.17: pp.83-105, 6 pls., 2 figs. 1951. Describes as new *Geitoneura klugi insula* (Rottneest Is., W. Australia) (Satyridæ) and *Ialmenus icilius parvus* (Geraldton, W. Australia) (Lycænidae). Figures wings; gives life history notes and figures of wings and some genitalia of several other Rhopalocera. [I. C.]
- Clench, Harry K., "Another case of a partially replaced lost vein in a new nymetierum from West Africa." *Rev. Zool. Bot. Afric.*, vol.50: pp.296-301, 1 fig. 1954. Describes as new *NOCTASOTA*, *N. curiosa* (Cameroons). Replacement of lost vein previously reported for *Masurgina leta* (Agaristidae). [P. V.]
- Common, I. F. B., "The Australian species of *Heliothis* (Lepidoptera: Noctuidæ) and their pest status." *Australian Journ. Zool.*, vol.1: pp. 319-344, 1 pl., 4 figs. 1953. Four Australian species are recognized, three of which (*armigera*, *punctigera*, *rubrescens*) were previously confused under the name of *H. armigera*. The North American species is distinguished from *H. armigera*. Figures genitalia & wings of both sexes. [I. C.]
- Common, I. F. B., "The Australian armyworms of the genus *Persectania* (Lepidoptera: Noctuidæ)." *Australian Journ. Zool.*, vol.2: pp.86-99, 1 pl., 4 figs. 1954. Describes as new *P. dyscrita* (Canberra, A. C. T.); retains 2 Australian & 1 New Zealand species. Figures genitalia and wings of both sexes. [I. C.]
- Couchman, L. E., "Notes on a collection of Hesperiidæ made by F. M. Angel in the Northern Territory." *Trans. Roy. Soc. So. Australia*, vol.74: pp.15-17, 1 pl. 1951. Describes as new *Suniana larrakia* (Darwin, Australia) and figures the wings. [I. C.]
- Descimon, H., & H. de Lesse, "Nouvelle note sur *Erebia serotina* escimon et Lesse" [in French]. *Rev. franç. Lépid.*, vol.14: pp. 237-241. March 1955. New captures of *E. serotina* in the Pyrenees, with study of the ♂ genitalia and the chromosome number. [P. V.]
- Diakonoff, A., "Microlepidoptera of New Guinea. Results of the Third Archbold Expedition (American-Netherlands Indian Expedition 1938-1939). Part I." *Verhandel. K. Nederl. Akad. Wetensch., Natuurk., Sect. 2*, vol.49: pp.1-167, 1 pl., 208 figs., 1 map., Dec. 1952. Describes as new: (Alucitidæ) *Diacrotricha guttuligera*; FLETCHERELLA, and type *F. niphadothysana*; *Platypilia monotrigena*, *P. phanerozona*; *Oidematomphorus mesoleucus*, *O. irenæus*; *Stenoptilia galactostacta*, *S. iriana*; (Phalonidæ) ARACHNIOTES, and type *A. dactylota*; *Clysiana scydalephora*; (Tortricidæ, Tortricinæ) *Zacorisca aptycha*, *Z. basilica*, *Z. aquamarina*, *Z. bovisanguis*; CHIONOTHREMMMA, and type *C. placida*, *C. mesoxantha*, *C. ferratilis*, *C. sanguens*, *C. obscura*, *C. gracilis*, *C. ochricauda*, *C. nebulicola*, *C. auripes*, *C. caelestis*, *C. combusta*, *C. ocellata*, *C. citricaput*, *C. carbonifera*, *C. nigrangula*, *C. marginata*, *C. euxantha*, *C. mutans*, *C. pallescens*, *C. nivispermensis*, *C. auriflua*, *C. soligena*; DIPHTHEROPYGA, and type *D. niphadea*; *Isotenes megalea*, *I. melanotes*, *I. pudens*, *I. mesonephela*, *I. marmorata*, *I. prosantes*, *I. erasa*, *I. rhodosphen*, *I. sematophora*, *I. melanopa*, *I. melancalymma*; ANISOTENES, and type *A. leucopthalma*, *A. cacotechna*, *A. phanerogonia*, *A. schizolitha*, *A. dracodontonta*, *A. bathygrapha*, *A. libidinosa*, *A. stemmatostola*, *A. decora*, *A. pyrra*, *A. amphibloga*, *A. fallax*, *A. scoliographa*, *A. ellipsegrapha*, *A. oxygrapta*, *A. spodotes*, *A. acrodasyis*; PARACHORISTA, and type *P. cricophora*, *P. apbeles*, *P. mimela*, *P. oligosta*, *P. pityrochroa*, *P. rhopalodes*, *P. colobodesma*, *P. anthracograptia*, *P. verecunda*, *P. acmemorpba*, *P. anassa*, *P. psara*, *P. lagaroptycha*, *P. stenoptera*, *P. ochra*, *P. euphyes*, *P. trulligera*, *P. anisographa*, *P. lutescens*; HETEROCHORISTA, and type *H. dispersa*; *Isochorista papuana*, *I. sulcata*, *I. polysperma*; *Trincophora archboldi*, *T. leucotorna*, *T. nebulosa*; *Adoxophyes controversa*, *A. acropeta*, *A. marmarogodes*; *Chresmarcha enemargyrea*. Describes allotypes of *Adoxophyes vindicata* (♂), *A. nebrodes* (♀), *Chresmarcha sybillina* (♀). All from Snow Mts. Describes & figures genitalia; gives keys to New Guinea genera & species; discusses distribution of Tortricidæ & Zacoricini (map). [See review in *Lepid. News*, vol.7: p.128.]. [A. D.]
- Diakonoff, A., "New Guinea Microlepidoptera. I." *Proc. Kon. Nederl. Akad. Wetensch., ser.C*, vol.55: pp.382-393, 8 figs. 1952. Describes as new (Tortricidæ): *Zacorisca angii*; PARADICHELLIA, and type *P. rostrata*, *P. brongersmai*, *P. euryptycha*; MACROTHYMA (type *Adoxophyes sanguinolenta* Diak.). Describes ♀ of *M. sanguinolenta*. All from New Guinea. Key to spp. of *Paradichelia*. Figures genitalia & venation. Notes on distribution of 4 other Tortricidæ. [N. O.]
- Diakonoff, A., "New Guinea Microlepidoptera. II." *Proc. Kon. Nederl. Akad. Wetensch., ser.C*, vol.55: pp.394-406, 8 figs. 1952. Describes as new *Isotenes ornata*, *I. punctosa*, *I. clarisecta*, *Trincophora deloptycha*, *T. microtera*; all from New Guinea. Describes the hitherto unknown ♀♀ of *I. croblyota*, *I. tetrops*, *Dicellititis cornucopiae*. Notes on distribution of 4 other spp. Genitalia figured. [N. O.]
- Diakonoff, A., "Presidential address to the Pittsburgh Meeting of the Lepidopterists' Society." *Lepid. News*, vol.9: pp.41-45. 10 Aug. 1955.

- Dixon, Bruce W., "A new subspecies of *Epargyreus clarus* from Arizona, with distributional notes." *Ent. News*, vol.66: pp.6-9. 1955. Describes as new *E. c. huachuca* (Huachuca Mts., Cochise, Co., Ariz.). [J.T.]
- Eliot, J. N., "Notes on the *Nacaduba hermus* (C. Felder) complex (Lepidoptera: Lycaenidae)." *Proc. Roy. Ent. Soc. London (B)*, vol.24: pp.153-158, 2 figs. 31 Oct. 1955. Describes as new *N. subperexia nadia* (Geelvink Bay, New Guinea); *N. s. paska* (Sula Besi, Sula Is.); *N. s. martha* (Geelvink Bay); *N. asaga solta* (Siboga, Sumatra). Key to *pavana* group of *Nacaduba* in the Indomalayan region. Notes on other subspecies of above spp. and of *N. sanaya*. [P.B.]
- Evans, W. H., *A catalogue of the American Hesperiidæ including the classification and nomenclature adopted in the British Museum (Natural History). Part II (Groups B, C, D) Pyrginæ. Section 1. v + 178 pp., 25 pls. Part III (Groups E, F, G) Pyrginæ. Section 2. v + 246 pp., 28 pls.* London: British Museum (Natural History). 1952, 1953. Complete catalogue of American Pyrginæ, in key form; with numerous figures of ♂ genitalia, and localities of British Museum specimens. Describes as new (Part II): *Angiades* group: *Pbocides distans silva* (Tarapote, Peru), *P. metrodorus metron* (Paraguay), *P. novalis* (Rio Colorado, Peru), *P. thermus bellina* (Macas, E. Ecuador), *P. partia* (Rio Colorado, Peru), *P. padrona* (Cajon, Cuzco, Peru); *Tarsoctenus corytus corba* (Pebas, Amazonas), *T. præcia luna* (Buenavista, E. Bolivia); *Pbanus rilma* (Guerrero, Mex.); *Drephalys oriander oria* (Honduras), *D. opifex* (Berg-en-Daal, Dutch Guiana), *D. olvina* (Carimang R., Br. Guiana), *D. olva* (Isle Marajo, Pará); *Hyalothyrus infernalis infra* (Florida, Upper Putumayo, Amazonas), *H. neleus neda* (Farinas La Paz, Bolivia); *Entheus priassus pralina* (Espírito Santo, Brazil); *Cabirus procas junta* (Chanchamayo, Peru), *C. p. purda* (Pebas, Amazonas). *Urbanus* group: *RIDENS* (type *Eudamus ridens*); *VENADA* (type *Telegonus advena*); *Epargyreus enispe elta* (Tanampaya, Bolivia), *E. spanna* (Santo Domingo), *E. socus cama* (Guerrero, Mex.), *E. c. chota* (Trinidad), *E. c. dicta* (Mapiri, Bolivia), *E. c. sinus* (Para), *E. exadens cruzi* (Cordova, Vera Cruz, Mex.), *E. nutra* (Cauca, Colombia), *E. aspina* (Bogotá, Colombia), *E. spina spina* (Bogotá, Colombia), *E. s. verruga* (Verrugas, E. Peru), *E. spinta* (Bogotá, Colombia), *E. spinosa* (Guerrero, Mex.); *Polygonus leo bagar* (Jamaica), *P. l. ishmael* (Haiti); *Chiooides catillus albius* (Panama), *C. c. vintra* (St. Vincent), *C. i. iverna* (Chorica, Peru), *C. zilpa namba* (Magdalena, N. Sonora, Mex.); *Aguna asander jasper* (Jamaica), *A. megales malia* (Valencia, Venezuela), *A. claxon* (Atoyac, Vera Cruz, Mex.), *A. clina* (Bogotá, Colombia), *A. cirrus* (Alto de Sierra, São Paulo); *Typhedanus optica optica* (Br. Guiana), *T. o. goya* (Goyaz, Campinas); *Polythrix roma* (Pará), *P. gyges* (Rio Colorado, Peru); *Chrysoplectrum perna* (Bogotá, Colombia); *Codatractus carlos carlos* (Honduras), *C. c. rowena* (Putao Guiría, Venezuela), *C. c. arguta* (N. Mts., Trinidad), *C. alcæus apulia* (Ecuador); *Ridens philistus philia* (Cauca, Juntas, Colombia), *R. fulima* (Espírito Santo, Brazil), *R. nora* (Huacamayo, Carabaya); *Urbanus viterbeana alba* (Atoyac, Vera Cruz, Mex.), *U. prouta* (San Pedro Sula, Honduras), *U. pronus* (Ambato, Ecuador), *U. esma* (Obidos), *U. evona* (Zapote, Colombia), *U. elmina* (Rio Pastaza, Ecuador), *U. esta* (Alto de Sierra, São Paulo), *U. tanna* (Sta. Rita, Cauca R., Colombia), *U. cindra* (Buena Vista, E. Bolivia), *U. carmelita barra* (Bahia), *U. albimargo takuta* (Takutu R., Br. Guiana), *U. a. rica* (Villa Rica, Sapucay, Paraguay); *Astraptus apasius pusa* (Bahia), *A. narcosius aulina* (Fr. Guiana), *A. samson* (Colombia), *A. colosus rhoda* (Tarapote, Peru), *A. c. dosula* (Rio Grande do Sul), *A. parisi belen* (San Pedro Sula, Honduras), *A. alardus latia* (Costa Rica), *A. a. aquila* (Cauca Valley, Colombia), *A. alfius alfius* (St. Paulo d'Olivencia, Amazon), *A. a. adoba* (Espírito Santo), *A. creteus crana* (San Geronimo, Guatemala), *A. c. crilla* (Zamora, Ecuador), *A. c. cyprus* (Bolivia), *A. latimargo tinda* (Pará), *A. chiriquensis erana* (Balzapamba, Ecuador), *A. galesus cassius* (Irazu, Costa Rica), *A. anaphus* (Tres Rios, Costa Rica), *A. a. anoma* (Trinidad), *A. a. aniza* (Callao, Peru); *Thorybes mexicana dobra* (Ft. Grant, Ariz.), *T. m. ducia* (Panama); *Cabares rinta* (Tucuman, Argentina). *Celænorrbhinus* group: *SALATIS* (type *Papilio salatis*); *CEPHISE* (type *Goniurus cephise*); *Bungalotis borax borax* (Fr. Guiana), *B. b. lactos* (Chanchamayo, Peru), *B. quadratum barba* (Pará), *B. clusia* (Pará); *Sarmientoia dinka* (no locality); *Dyscophellus pbraxanor lama* (Cayuga, Guatemala), *D. p. mena* (Ecuador), *D. marian* (Zamora, Ecuador), *D. ramusis ramon* (Bugaba, Panama); *Nascus solon corilla* (Venezuela), *N. prax* (Pará); *Porphyrogenes stupa* (no locality), *P. suva* (La Merced, Peru), *P. zobra stresa* (Tarapote, Peru), *P. boliva* (Venezuela), *P. spoda* (Chiriquí), *P. spanda* (Pará), *P. sparta* (Pará), *P. glavia* (Panama); *Ablapsis amazonensis rentia* (San Gaban, Peru); *Orneates savia* (Rio Cachiyaca, Iquitos); *Celænorrbhinus sbema ochra* (St. Paulo d'Olivencia, Amazonas), *C. s. vox* (Iquitos, Upper Amazons), *C. vagra* (Naula, Amazonas), *C. similis stola* (Panima, Guatemala), *C. saroma saroma* (Colombia), *C. s. tonio* (Colombia), *C. s. timor* (Moyabamba, Peru), *C. cynapes darius* (Chimbo, Ecuador). Part III,

Telemiades group: *MIMIA* (type *Cyclosemia phidyle*); *POLYCTOR* (type *Prygus* (sic) *polyctor*); *MORVINA* (type *Tagiades morvus*); *MYRINIA* (type *Cyclosemia myris*); *OCELLA* (type *Cyclosemia albata*); *VIOLA* (type *Staphylus alicus*); *PLUMBAGO* (type *Achlyodes plumbago*); *TRINA* (type *Helias geometrina*); *ZERA* (type *Achlyodes zera*); *Æchydrus cbersis rufus* (Novo Friburgo); *Marela tamyris tamba* (Iquitos, Upper Amazons); *Cogia bippalus bisca* (Corillo, Costa Rica), *C. b. bestor* (Merida, Venezuela), *C. azila* (Santiago de Chiquitos, Bolivia), *C. mala* (Guatemala); *Telemiades vansa* (Rio Demerara, Br. Guiana), *T. centralis contra* (Chimbo, Ecuador), *T. squanda* (Lake Sacuaresma, Rio de Janeiro), *T. trenda* (Surinam), *T. epicalus sila* (Venezuela), *T. antiope toska* (Ega, Amazons); *Pyrdales corbulo cora* (Honduras); *Mimia phidyle pazana* (Yungas La Paz, Bolivia); *Ectomis cythna ega* (Ega, Amazons); *Nerula tuba* (Itaituba, Amazons); *Eracon pebana* (Pebas, Amazons), *E. mnemon clada* (Maranhm); *Spioniades abbreviata anta* (Bolivia); *Iliana beros heroica* (Rio Dagua, Colombia); *Sophista latifasciata matto* (Cuyaba, Matto Grosso); *Polyctor polyctor dela* (Acapulco, Guerrero, Mex.), *P. p. dagua* (R. Dagua, Colombia), *P. fera falla* (Venezuela), *P. tensa* (Brazil); *Nisoniades bessus godma* (Chontal, Nicaragua), *N. b. panama* (Chiriqui, Panama), *N. b. benda* (Chimbo, Ecuador), *N. b. cauca* (Cauca, Distrito de Pereira, Colombia), *N. b. remo* (San Remo, Peru), *N. brazia* (Novo Friburgo, Brazil); *Pachyneuria jaguar* (Pozuza, Huanco, Peru), *P. lineatopunctata belema* (Pará, Belem), *P. duidae pozuza* (Pozuzo, Huanco, Peru), *P. liscisca lista* (Fr. Guiana); *Pellicia costimacula arina* (Atoyac, Vera Cruz, Mex.), *P. tyana toza* (Magdalena Valley, Colombia), *P. angra angra* (Atoyac, Vera Cruz, Mex.), *P. a. axina* (Paramba, Ecuador), *P. theon tonga* (L. Sapatoza region, Colombia), *P. t. trax* (Ecuador), *P. ranta ranta* (Laguna de Sacuaresma, Rio de Janeiro), *P. r. rancida* (Paraguay); *Morvina morvus cyclopa* (Bolivia), *M. m. para* (Pará), *M. fissimacula lenia* (El Banco, Magdalena, Colombia), *M. f. rema* (Santarem, Amazons), *M. falisca falia* (Iquitos, Upper Amazons); *Myrinia santa santa* (Espirito Santo), *M. s. monka* (Pará); *Cyclosemia lepba* (R. Songo, Bolivia); *Gorgopas gutta* (Chanchamayo, Peru); *Viola olla* (San Gaban, Solimoes, S. Paulo de Olivenca, Upper Amazons), *V. egra* (L. Sapatoza, Chirigua, Colombia); *Bolla cybele* (Coatepec, Mex.), *B. cyclops sonda* (Orizaba, Mex.), *B. ziza* (Cuernavaca, Mex.), *B. antha* (Cauca Valley, Colombia), *B. brennus vexta* (Manizales, Colombia), *B. tetra oriza* (Orizaba, Mex.), *B. t. guerra* (Omitlame, Guerrero), *B. t. tornea* (Torne, Cauca, Colombia), *B. zora* (Ecuador); *Staphylus chlora* (Yungas, La Paz, Bolivia), *S. eryx* (Santarem, Amazons), *S. putumayo sambo* (Juhuty, Amazons), *S. epicastes stanga* (Paramba, Ecuador), *S. shola* (no locality), *S. perna* (Pernambuco), *S. mazans tierra* (Tierra Colorado, Guerrero, Mex.), *S. huigra canka* (Callao, Peru), *S. mossi* (Peru), *S. saxos saxos* (Cali, Colombia), *S. s. satrap* (San José, Bolivia), *S. minor manx* (Cauca, Colombia); *Diaeus lacaena verna* (Atoyac, Vera Cruz, Mex.), *D. l. ambata* (Ambato, Ecuador); *Gorgythion beggina vox* (S. Geronimo, Guatemala), *G. canda* (central Paraguay); *Ouleus matria dampa* (Fr. Guiana), *O. m. matria* (Iquitos, Upper Amazons), *O. fridericus salvina* (Atoyac, Vera Cruz, Mex.), *O. f. panna* (Panama), *O. f. trina* (Trinidad), *O. f. riona* (Novo Friburgo, Brazil), *O. dilla* (Chimbo, Ecuador), *O. accedens finda* (Espirito Santo, Brazil); *Zera pbila hasta* (Costa Rica); *Quadrus janda* (Pará), *Q. tros* (Espirito Santo, Brazil), *Q. deyrollei porta* (Teffe, Amazons); *Gindanes brontinus bronta* (Chanchamayo, Peru), *G. brebissoni brebna* (Cochabamba, Bolivia), *G. bora* (Espirito Santo); *Pyibonides tullia* (Laguna de Sacuaresma, Rio de Janeiro, Brazil), *P. braga* (Roraima, Br. Guiana), *P. homer* (Chapada, Matto Grosso), *P. eminus pasba* (Chapada, Matto Grosso), *P. hampa* (Santarem, Amazons); *Sostrata grippa* (Rio Verde, Rio Pastaza, Ecuador), *S. jinna* (Coreato, Cauca, Colombia), *S. bifasciata nordica* (Mexico), *S. pusilla pulsa* (Zamora, Ecuador); *Paches loxus loxana* (Buenavista, Bolivia), *P. era* (Rio Pacaya, Lower Ucayali, Peru); *Milanion hemes pemba* (Cavallo-Cocho, Amazonas, Peru), *M. b. memba* (Nivac, Matto Grosso), *M. cramba* (Rio Colorado, Peru), *M. pilumnus pila* (Moyabamba, Peru); *Paramimus stigma stanna* (Taboga Is.); *Charidia lucaria pilea* (Bogotá), *C. l. pocus* (Cuzco, Peru), *C. l. mayo* (Chanchamayo, Peru); *Potomanaxas flavofasciata pantra* (R. Songo to R. Suapi, Bolivia), *P. birta paphos* (Paramba, Ecuador), *P. thestia cranda* (Costa Rica), *P. latrea tusca* (Ambato, Ecuador), *P. l. tyndarus* (Chanchamayo, Peru), *P. laoma trex* (Ecuador), *P. l. trigga* (R. Tabaconas, N. Peru), *P. l. cosna* (Yungas, La Paz, Bolivia), *P. frenda* (Peru), *P. andramon fuma* (Huancabamba, Peru), *P. a. forum* (Yungas, La Paz, Bolivia); *Mylon illineatus toxina* (Florida, Upper Putumayo, Amazons), *M. orsa* (Cache, Costa Rica), *M. mestor* (Ecuador), *M. salvia* (Bugaba, Panama), *M. ander ander* (Rio [de Janeiro]), *M. a. andrea* (Colombia), *M. cajus hera* (Panama); *Carrhenes fuscescens conia* (Fr. Guiana), *C. f. bamba* (Chanchamayo, Peru); *Clito littera anda* (Fr. Guiana), *C. sompa* (S. Antonio de Barra, Bahia, Brazil), *C. zenda* (Surinam), *C.*

- tuva* (Pará); *Onenses kelso* (Carimang R., Br. Guiana); *Antigonus liborius areta* (Rio Grande do Sul, Sta. Maria); *Timochreon satyrus forta* (Pará), *T. s. tampa* (Chapada, Matto Grosso); *Zopyrion evenor tressa* (Pará), *Z. e. thania* (Pernambuco), *Z. subvariegata thyas* (Chachapoyas, Amazonas, Peru); *Anisochoria pedalioidina bacchus* (Atoyac, Vera Cruz, Mex.), *A. minorella verda* (Rio Verde, Rio Pastaza, E. Ecuador), *A. babia* (S. Antonio da Barra, Bahia), *A. vianna* (Goyaz, Viannópolis), *A. albida alco* (Tanampayo, Bolivia). *Erynnis* group: *TOSTA* (type *T. tosta* Evans); *GESTA* (type *Tbanaos gesta*); *Achlyodes busirus rioja* (Rio de Janeiro); *A. thyraso sagra* (Haiti), *A. minna* (Bahia), *A. selva* (Jalapa, Mex.); *Grais stigmaticus juncta* (Jamaica); *Timochares trifasciata sanda* (Tucumán, Argentina), *T. ruptifasciata runia* (Jamaica); *Anastrus petius peto* (Baños, Guatemala), *A. meliboea baetra* (Cochabamba, Bolivia), *A. obscurus narva* (Florida, Upper Putumayo, Bolivia), *A. o. chaqua* (Chaquimayo, S. Peru); *Tosta tosta* (Iquitos), *T. taurus* (Moyabamba, Peru); *Cycloglypha thrasibulus flinta* (Paramba, Ecuador), *C. polax* (Chapada, Matto Grosso); *Helias phalaenoides cama* (Mexico); *Chiomara asyebis simon* (Puebla Viejo, Colombia), *C. a. zania* (Chachapoyas, Amazonas, Peru), *C. a. vincenta* (St. Vincent), *C. a. grenada* (St. Georges, Grenada), *C. crenda* (Castro, Paraná); *Gesta inga* (Bahia). *Pyrgus* group: *Pyrgus centaureæ loki* (Long Peak Trail, Colorado); *Heliopetes randa* (Alto da Sierra, São Paulo), *H. chimbo* (Chimbo, Ecuador). A few corrections to Parts I and II are given at the end of Part III, including [*Pyrrhopyge thericles*] *grinda* (British Guiana), [*P. t.*] *ronda* (Trinidad), n. sspp. [P.B.]
- Evans, W. H., *A catalogue of the American Hesperiidæ indicating the classification and nomenclature adopted in the British Museum (Natural History). Part IV (Groups H to P) Hesperiidæ and Megathyminæ.* v + 499 pp., 88 pls. London: British Museum (Natural History). 1955. Concluding volume of the catalogue. Keys to generic groups, genera, species and subspecies; figures of genitalia of many spp. Some named forms which have not been studied are listed at the end of the genera. Describes as new: *Carterocephalus* group: *PIRUNA* (type *Pholisora pirus*); *P. sicta* (Bolanos, Jalisco, Mex.), *P. cingo cingo* (Chilpancingo, Guerrero, Mex.), *P. c. sombra* (Guatemala); *Dardina rana* (Castro, Paraná), *D. castra* (Castro, Paraná), *D. jonesi* (Castro, Paraná); *Dalla thalia* (Ecuador), *D. grovius amba* (near Ambato, Ecuador), *D. g. floxa* (Chachapoyas, Amazonas, Peru), *D. agathocles lanna* (Loja, Ecuador), *D. a. lonia* (Huancabamba, Peru), *D. lenda* (Loja, Ecuador), *D. lorda* (Loja, Ecuador), *D. costala ascha* (Huancabamba, Peru), *D. c. zona* (Chachapoyas, Amazonas, Peru), *D. c. costala* (Yungas del Espirito Santo, Cochabamba, Bolivia), *D. huanca* (Huancabamba, N. Peru), *D. sepiá* (W. slopes of Andes, N. Peru), *D. hesperioides hister* (Limbaní, S. Peru), *D. polycrates ambala* (Ambato, Ecuador), *D. p. lania* (Aqualani, SE Peru), *D. epiphaneus poya* (Chachapoyas, Amazonas, Peru), *D. e. anca* (Huancabamba, Peru), *D. e. limba* (Limbaní, Carabaya, Peru), *D. e. junga* (Bolivia), *D. frontinia frontinia* (Frontinía, Antioquia), *D. f. venda* (Venezuela), *D. f. vanca* (Huancabamba, Peru), *D. cyprinus quinka* (Marcapata, Peru), *D. taza* (Baños, Rio Pastaza, E. Ecuador), *D. dimidiatus lilla* (La Oroya, Rio Inambari, SE Peru), *D. d. pucer* (Huayabamba, S. of Chachapoyas, Amazonas, Peru), *D. cocha* (Cochabamba, Bolivia), *D. miser* (Carabaya, Peru), *D. genes golia* (Huancabamba, NE Peru), *D. g. nona* (La Paz, Bolivia), *D. vinca* (Huancabamba, NE Peru), *D. spica livia* (Cochabamba, Bolivia), *D. cupavia elka* (Chachapoyas, Amazonas, Peru), *D. merida* (Merida, Venezuela), *D. mentor* (Ecuador), *D. mora* (Loja, Ecuador), *D. carnis sondra* (Chachapoyas, Amazonas, Peru), *D. c. carnis* (Chaco, Bolivia), *D. pantba* (Huancabamba, N. Peru), *D. tona* (Huancabamba), *D. decca decca* (Baños, Rio Pastaza, E. Ecuador), *D. d. doppa* (Huancabamba, N. Peru), *D. eburones elna* (Buenaventura, Bogotá, Colombia), *D. e. ena* (Chachapoyas, Amazonas, Peru), *D. rosea* (Buenaventura, Bogotá, Colombia), *D. parma* (Ecuador), *D. mars* (Colombia), *D. quadristriga regia* (Chachapoyas, Amazonas, Peru), *D. q. rota* (Uruhasi, S. Peru), *D. q. rusa* (Chaco, Bolivia), *D. rubia* (Huancabamba, NE Peru), *D. xicca paza* (Yungas, La Paz, Bolivia), *D. curia* (Bogotá, Colombia), *D. curiosa* (Mexico). *Vinius* group: *LENTO* (type *Pamphila lento*); *LEVINA* (type *Apaustus levina*); *CORTICEA* (type *Hesperia corticea*); *CANTHA* (type *Cyclopides celeus*); *MISIUS* (type *Pamphila misius*); *ACTA* (type *R. racta*); *Falga jeconia jacta* (Rio Titaco, W. Colombia), *F. j. ombrá* (El Topo, Rio Pastaza, Ecuador), *F. j. odol* (Uruhasi, S. Peru), *F. farina* (Yungas del Espirito Santo, Cochabamba, Bolivia); *Synapte malitiosa pecta* (Mexico), *S. m. puma* (Balboa, Panama), *S. m. equa* (Sara, Sta. Cruz de la Sierra, Bolivia), *S. salenus silna* (Guerrero, Mex.), *S. s. osta* (Sara, Sta. Cruz de la Sierra, Bolivia); *Lento hermione vina* (Inambari, Oroya, Peru), *L. longa* (Cavallo Cocho, Amazonas, Peru), *L. kadeni* (no locality), *L. lucto* (Cavallo Cocho, Amazonas, Peru), *L. listo* (no locality), *L. apta* (Chapada, Matto Grosso), *L. krexoides lora* (Takutu R., Br. Guiana); *L. k. ludo*

(Bolívar, Balzapamba, Ecuador), *L. k. genta* (Espírito Santo), *L. pyra* (Espírito Santo), *L. muska* (Cali, Colombia); *Corticea lysias potex* (Fr. Guiana), *C. l. pena* (Pena Branca, Brazil); *Zalomes biforis merida* (Merida, Venezuela), *Z. b. wanda* (W. Andes, N. Peru), *Z. b. illimanensis* (Illimani, Bolivia), *Z. kenava tassa* (interior of Colombia), *Z. k. vola* (Carabaya, Limbani, S. Peru); *Cantha celeus calva* (Ega, Upper Amazons), *C. ivea ivea* (Theresopolis), *C. i. honor* (São Paulo); *Vinius trybana istria* (Iguassu, Paraná); *Pheræus honta* (Cavallo Cocho, Amazonas, Peru), *P. centra* (Iguassu, Paraná), *P. rumba* (Brazil); *Molo muzo* (Muzo, Colombia), *M. petra* (Bogotá), *M. stygia* (Iquitos), *M. menta ponda* (Cananche, Cundinamarca, Colombia), *M. m. menta* (Corcovada, Rio de Janeiro); *Racta apella raza* (Reyes, Bolivia), *R. phasma* (Balzapamba, Ecuador), *R. racta* (Uruhasi, S. Peru), *R. chiria* (Chirimayo, Peru), *R. dalla* (Zamora, Ecuador). *Apaustus* group: *VIRGA* (type *Apaustus virginus*); *LUDENS* (type *Cobalus ludens*); *PANCA* (type *Lerodea subpunctuli*); *SODALIA* (type *Pamphila sodalis*); *GALLIO* (type *Stomyles gallio*); *VENAS* (type *Pamphila evans*); *PAMBA* (type *P. pamba*); *SABINA* (type *Hesperia sabina*); *REPENS* (type *R. repens*); *LUCIDA* (type *Carystus lucia*); *VIDIUS* (type *Narga vidius*); *MONCA* (type *Cobalus telata*); *NASTRA* (type *Hesperia pherminieri*); *SUCOVA* (type *Hesperia? sucova*); *MOLLA* (type *M. molla*); *ARITA* (type *Cobalus arita*); *CUMBRE* (type *Phanes cumbre*); *JUSTINIA* (type *Hesperia justinianus*); *LAMPONIA* (type *Hesperia lamponia*); *Apaustus gracilis smarti* (Kaiteur, Br. Guiana); *Callimormus radiola janna* (Sta. Rita, Cauca Valley, Colombia); *Eutocus matilde vinda* (Cavallo Cocha, Amazonas, Peru); *Virga phola* (Matta Grosso); *Esprius veleda palta* (Pará, Amazonas); *Methionopsis dolor* (Juntas, Cauca, Colombia); *Mnestheus damma* (Balzapamba, Ecuador); *Artines focus* (Roraima, Br. Guiana), *A. trogon* (Merida, Venezuela), *A. satyr* (São Paulo), *A. fosca* (St. Paulo d'Olivencia); *Mnaseas bicolor macia* (Rio Magdalena, Colombia); *Pamba pamba* (Bolívar, Balzapamba, Ecuador); *Repens repens* (Sta. Catharina), *R. repta* (Guadalajara, Mex.); *Lucida rogan* (Alto de Sierra, São Paulo); *Phanes espa* (Corcovado); *Vidius fido* (Castro, Paraná), *V. nappa* (Castro, Paraná), *V. mitra* (Castro, Paraná), *V. tinta* (Goyaz), *V. nostra* (Santarem), *V. laska* (Chapada, Matto Grosso); *Monca telata penda* (Pena Branca, Brazil), *M. branca* (Pena Branca, Brazil); *Nastra tanta* (Chapada, Matto Grosso); *Cymænes idria* (Paraguay), *C. cavalla* (Cavallo Cocho, Amazonas, Peru), *C. laureolus loxa* (Pará), *C. chela* (Ciudad Bolívar, Venezuela), *C. odilia pacer* (Limbani, Carabaya, SE Peru), *C. gisca* (Sapucay, Paraguay), *C. jamba* (Cachi, Salta, Argentina); *Vebilius stictomenes madra* (Manabi, W. Ecuador), *V. goria* (Goyaz); *Mnastheus forma* (Pará), *M. nitra* (Castro, Paraná), *M. nella* (Castro, Paraná), *M. continua conta* (Rio Pastaza, Ecuador), *M. c. continua* (Bolivia), *M. spangla* (Rio Blanco, Ecuador); *Mæris yita* (Duenas, Guatemala), *M. duena* (Duenas, Guatemala), *M. padus* (Uruhasi, S. Peru), *M. striga stroma* (Atoyac, Vera Cruz, Mex.), *M. s. strada* (Trinidad), *M. ekka* (Ecuador); *Parphorus storax sorra* (Pambamba, Ecuador), *P. felta* (La Merced, Peru), *P. oca* (Panama), *P. prosper* (Obidos), *P. granta* (Panama); *Molla molla* (Castro, Paraná); *Papias quigua* (Les Quigues, Esteban Valley, N. Venezuela); *Cobalopsis prospra* (São Paulo), *C. prado* (El Prado), *C. dagon* (Sapucay, Paraguay); *Arita serra* (Alto de Sierra, São Paulo); *Lerema ancillarlis liris* (Atoyac, Vera Cruz, Mex.), *L. lenta* (Itanhaen, São Paulo); *Morys valerius valda* (Valladolid, Yucatan), *M. subgrisea prada* (Angostura, Venezuela), *M. sinta* (Obidos, Amazons), *M. yabua* (Yahuarmayo, Peru); *Cumbre belli eberti* (Minas Geraes, "Bergland um Ouro Preta, Fazenda Barcellos"); *Adlerodea lemba* (St. Paulo d'Olivencia, Amazon); *Psoralis venta* (Venezuela), *P. rusta* (Venezuela), *P. gota* (Colombia), *P. ravus* (São Paulo); *Tigasis altona* (Alto da Serra, São Paulo), *T. coda* (La Chima, Ecuador); *Vettius crista* (St. Paulo d'Olivencia), *V. diana felix* (La Merced, Peru), *V. phyllus pura* (Cavallo Cocho, Amazonas), *V. p. junga* (Yungas del Espírito Santo, Cochabamba, Bolivia), *V. p. prona* (Alto da Serra, São Paulo), *V. diversa donga* (Huancabamba, N. Peru), *V. d. drona* (Yungas, La Paz, Bolivia), *V. drova* (Ambato, Ecuador), *V. fantasos onaca* (Polochic Valley, Guatemala), *V. yalta* (Espírito Santo, Brazil), *V. arva* (Rio [de Janeiro]), *V. coryna conka* (San Geronimo, Guatemala); *Turesis basta* (Santarem); *Thoon slopa* (Br. Guiana), *T. canta* (Cananche, Cundinamarca, Colombia), *T. ponka* (Pará), *T. yesta* (Oroya, Inambari, Peru), *T. rinka* (Rio Colorado, Peru); *Justinia phætusa nordu* (Guatemala), *J. gava* (Carimang R., Br. Guiana), *J. justinianus cappa* (Pambamba, Ecuador), *J. j. dappa* (Para), *J. septa* (Minas Geraes); *Eutyche sempa* (Br. Guiana), *E. angus* (Petropolis); *Naevolus nævus* (probably intended to be ssp. of *N. orius*) (Pambamba, Ecuador). *Carystus* group: *VERTICA* (type *Hesperia verticalis*); *EBUSUS* (type *Papilio ebusus*); *ARGON* (type *Carystus argus*); *SACRATOR* (type *Hesperia sacrorator*); *TROMBA* (type *T. tromba*); *TURMADA* (type *Dion turmada*); *MÆROS* (type *Proteides mæros*); *CARYSTINA* (type *Carystus lysiteles*); *TELLONA* (type

Hesperia variegata), *Styrioides quota* (Carimang R., Br. Guiana), *S. penna* (Teffe, Amazons), *S. quaka* (Bolivia); *Dion carmenta coma* (Bolivar, Balzapamba, Ecuador); *Enosis iccius* (Takutu R., Br. Guiana); *E. blenda* (Teffe); *E. blotta* (St. Anne, Trinidad); *E. immaculata demon* (Tarapote, Amazons); *Vertica ibis* (Bolivia), *V. pudor* (Joinville, S. Brazil); *Sacrator polites pilla* (Oxapampa, W. Peru); *Lychnuchus victa* (Uruhasi, S. Peru), *L. brasta* (Chanchamayo, Peru), *L. pelta* (Zamora, Ecuador); *Talides sinois cantra* (Guatemala), *T. s. riosa* (Antonio dos Brotos, San Fidelis, Rio de Janeiro), *T. alternata hispa* (Bugaba, Panama); *Tromba tromba* (Chanchamayo, Peru); *Carystus hocus* (Demerara), *C. periphias amax* (Cananche, Cundinamarca, Colombia), *C. junior* (Amazons); *Telles pyrex* (Florida, Upper Putumayo); *Tisias rinda* (Merida, Venezuela), *T. lesueuri canna* (La Oroya, Carabaya, Peru); *Cobalus virbius hanta* (Pernambuco); *Dubiella fiscella belpa* (Chiriqui); *Carystoides basoches yenna* (Cayenne), *C. balza* (Balzapamba, Ecuador), *C. lila* (L. Sapatoza region, Chirigua District, Colombia), *C. hondura* (Honduras), *C. lebbæus cundina* (Cananche, Cundinamarca, central Colombia), *C. manta* (W. Cordillera, Colombia); *Lychnucoides ozias ozina* (Balzapamba, Bolivar, Ecuador); *Perichares philetus aurina* (Castro, Paraná), *P. p. limana* (Lima, Peru), *P. matha* (La Chima, Ecuador), *P. deceptus drina* (Dept. de Magdalena, Colombia), *P. chima* (La Chima, Ecuador). *Phlebodes* group: *SATURNUS* (type *Apaustus tiberius*); *JOANNA* (type *J. joanna*); *PUNTA* (type *P. punta*); *BRUNA* (type *B. bruna*); *QUINTA* (type *Cobalus canna*); *CYNEA* (type *Hesperia cynea*); *PENICULA* (type *Pamphila bryanti*); *DECINEA* (type *Hesperia decinea*); *ORTHOS* (type *Eutycheide orthos*); *CONGA* (type *Pamphila chydæa*); *HOLGUINIA* (type *H. holguin*); *Saturnus saturnus servus* (Castro, Paraná); *Phlebodes campo sifax* (Amazons), *P. notex* (Tonantins, Amazons), *P. virgo* (Amazons), *P. torax* (Lagoon of Sacuaesma, Rio de Janeiro); *Joanna joanna* (Veragua, Panama), *P. boxi* (Berbice, Br. Guiana); *Punta punta* (Pará); *Bruna bruna* ("Masun" — ? Amazons); *Cynea cyrus bipho* (Trinidad), *C. c. rhino* (Cayenne), *C. fista* (Petropolis), *C. popla* (Trinidad), *C. robba robba* (Kaiteur Falls, Br. Guiana), *C. r. nippa* (Chapada, Matto Grosso), *C. byesos somba* (Brazil); *Mucia visa* (Rio de Janeiro); *Penicula criska* (Boa Vista, Tapajos, Amazons), *P. cristina* (Cananche, Cundinamarca, Colombia), *C. crista* (Suapure, Venezuela); *Decinea decinea denta* (La Merced, Peru), *D. d. pruda* (Sapucay, Paraguay), *D. zapota* (Zapote, Guatemala); *Eonnis egma* (Espirito Santo); *Cyclosma glamis* (La Merced, Peru); *Orthos orthos minka* (Manaos, Amazons), *O. trinka* (King Frederick William IV Falls, Upper Courantyne R., Br. Guiana); *Holguinia holguin* (Holguin, Cuba). *Hesperia* group: *STINGA* (type *Pamphila morrisoni*); *APPIA* (type *A. appia*); *LINKA* (type *Hesperia lina*); *POMPEIUS* (type *Hesperia pompeius*); *LIBRITA* (type *Hesperia librita*); *LIBRA* (type *Augiades? aligula*); *HANSA* (type *Hesperia byboma*); *CHALCONE* (type *Augiades chalcone*); *PROPERTIUS* (type *Hesperia propertius*); *Ancyloxypha ramba* (Paramba, Ecuador); *Copaodes jean jean* (Kaiteur, Br. Guiana), *C. j. favor* (Castro, Paraná); *Hylephila phylæus taxus* (Baños, Rio Pastaza, Ecuador), *H. p. anca* (Limbaní), *H. isonira mima* (L. Titicaca, Capachica), *H. zapala* (Zapala, Neuquen, Argentina), *H. galera* (Galera Pass, Junin, Peru); *Appia appia* (Soledad, Entre Ríos, Argentina); *Polites vibex calla* (Callao, Peru), *P. baracoa loma* (Haiti); *Wallengrenia druryi sapuca* (Sapucay, Paraguay); *Pompeius darina* (Matto Grosso), *P. tinga* (Honduras); *Atalopedes campestris carteri* (Bahamas); *Ochloides snowi pilza* (Pinal, Puebla); *Paratrytone melane poa* (Mt. Poas, Costa Rica), *P. barroni* (Zamora, Ecuador); *Mellana sista* (Venezuela), *M. pazina* (Yungas, La Paz, Bolivia), *M. noka* (no locality), *M. myron verba* (Balzapamba, Ecuador), *M. angra* (Pará), *M. villa* (Teffe, Amazons); *Librita raspa* (Zamora, Ecuador); *Euphyes vestris agra* (Bahamas), *E. ampa* (Honduras), *E. tuba* (Itaituba, R. Tapajos), *E. bryna* (Roraima, Br. Guiana), *E. antra* (Lima, Peru), *E. cherra* (Nericagua, R. Orinoco); *Hansa devergens hydra* (Castro, Paraná) *Chalcone chalcone corta* (Yungas, La Paz, Bolivia); *Serdis stadius dives* (Huancabamba, NE Peru), *S. venezuelæ fulla* (near Ambato, Ecuador), *S. viridicans lupus* (Merida, Venezuela), *S. v. pandra* (Loja, Ecuador), *S. v. edith* (Chachapoyas, Amazonas, Peru), *S. v. junia* (W. slopes of Andes, N. Peru); *Metron chrysoastra gades* (Chanchamayo, Peru), *M. schrottkeji tomba* (Tom-bador, 16 mi. S. of Diamantino, Matto Grosso); *Phemiades pobli cidra* (Archidona, NE Ecuador), *P. vergens* (Cosnipata, E. Peru), *P. milvius milor* (Yahuar-mayo, Peru). *Lerodea* group: *Amblyscirtes tolteca prenda* (Tucson, Ariz.); *Lerodea emba* (Chachapoyas, Amazonas, Peru). *Calpodes* group: *LINDRA* (type *Carystus simulius*); *SALIANA* (type *Papilio salius*); *AROMA* (type *Hesperia aroma*); *Panoquina panoquinoides calna* (Callao, Peru), *P. chapada* (Chapada, Matto Grosso), *P. trix* (Chapada, Matto Grosso), *P. fusina sonta* (Chiriqui), *P. f. viola* (Rio Grande, Brazil), *P. f. jumbo* (Jamaica), *P. luctuosa fonda* (Zamora, Ecuador), *P. l. cineas* (Huancabamba, N.

- Peru); *Zenis jebus janka* (Bugaba, Panama); *Tiryntbia conda* (Yungas, La Paz, Bolivia); *Thespiens pinda* (Limbaní, Carabaya, SE Peru), *T. tiboneta pampa* (Oxapampa, Peru), *T. jora* (Castro, Paraná), *T. xarippe ballia* (Sta. Elena, Antioquia, Colombia), *T. othna tinka* (Atanques, Colombia), *T. thona* (Huancabamba, Peru), *T. paula* (Paranapanama, São Paulo, Brazil), *T. caraca* (Caraca, Minas Geraes, S. Brazil), *Vacerris bonifilius bonta* (Bolivia), *V. caniola elva* (La Merced, Peru); *Niconiades gladyis* (Cananche, Cundinamarca, Colombia), *N. yoka* (Porto Velho, Matto Grosso), *N. linga* (Iguassu, Paraná), *N. loda* (Caraca, Minas Geraes, Brazil), *N. nabona* (Bolivia), *N. viridis vista* (Colombia), *N. parna* (Pará); *Aides epitus duma* (Santiago del Estero, E. Bolivia); *Xeniades chalestra corna* (São Paulo), *X. victoria* (Castro, Paraná); *Saliana salva* (Pará), *S. fusta* (Pará), *S. nigel* (Pará), *S. vixen* (Fr. Guiana), *S. esperi* (La Chima, Ecuador), *S. salona* (Pará), *S. morsa* (El Banco, Magdalena Valley, Colombia), *S. saladin saladin* (Paramba, Ecuador), *S. s. culta* (Pará), *S. s. catha* (Sta. Catharina); *Thracides cleantes binota* (Venezuela), *T. c. quarta* (Rio Tono, C. Peru), *T. c. trebla* (Sara, Sta. Cruz, E. Bolivia), *T. c. quinta* (Bahia), *T. nanea nida* (Colombia); *Neoxeniades braesia aqua* (R. Dagua, Colombia), *N. bajula peri* (Pará), *N. seron sexton* (Pará), *N. scipio posta* (Mayabamba, Peru), *N. s. nosa* (Bahia), *N. tropa* (Sta. Fe de Bogotá, Colombia), *N. myra* (Florida, Upper Putumayo), *N. irena* (Ambato, Ecuador); *Aroma henricus balba* (Bolívar, Balzapamba, Ecuador); *Pyrrhopygopsis agaricon nanta* (Paramba, Ecuador). In the addenda and corrigenda to the first three volumes are proposed: (Part II) *tenda* n.n. for [*Epargyreus clavicornis*] *orizaba* (the true *orizaba* is the proper name for [*E. socus*] *cama*); (Part III) MICTRIS (type *Pellicia crispus*) to replace *Mycteris*, a homonym. In another appendix are listed names incorrectly assigned to America, with their true localities and identity. Numerous changes are made in the names of North American skippers. [P.B.]
- Fletcher, David S., "Lepidoptera Geometridæ." *Parc National de l'Upemba I. Mission G. F. de Witte (1946-49)*, fasc. 32: pp.79-92, 1 pl., 10 figs. 1954. Describes as new *Scopula cinnamomata*, (Mubale R.) *S. nipha* (Lusinga). List of Geometridæ collected in the Upemba National Park, Belgian Congo. [P.V.]
- Fletcher, D. S., & P. Viette, "Description de nouveaux genres et de nouvelles espèces de noctuelles quadridives d'Afrique occidentale (Lep. Noctuidæ)" [in French]. *Bull. Inst. Franc. Afr. Noire*, vol.17: pp.168-184, 1 pl., 16 figs. Feb. 1955. Describes as new (from Mt. Nimba, Fr. Guinea, unless otherwise noted) (Noctuidæ): *Goniocalpe subviolacea*; *Marcipa nigropunctifera*; *Anoba subatriplaga* (Cameroons); *Oglastra plagiata* (Cameroons); *Bocula lamottei*; *Caryonopera royi*; *Trichopalpina nimba*; *Plecoptera nimba*, *P. mollardi*; *Zethesides simplex*; EUNIMBATANA (Ophiderinæ), & type *E. lobata*; PSEUDUGIA (Ophiderinæ), & type *P. bistriata*; ZIELA (Hypeninæ), & type *Z. biplaga*; GAEDEODES (Hypeninæ), & type *G. testacea*; *G. collenettei* (Ivory Coast). [P. V.]
- Gregor, František, "The quercicolous *Lithocolletis* Hb. in CSR" [in Czech, Russian & English summaries]. *Folia Zool. Ent.*, vol.1: pp.24-56, 11 pls., 5 figs. 1952. Describes as new *L. quercifoliella cerris* (Kováčovské hills, S. Slovakia; larvæ in *Quercus cerris*). Important study of the genus. Gives remarks on bionomics, ecological & sociological analysis, phylogenetic conclusions, etc. All imagos are figured in color. Keys, in Czech. [J. M.]
- Gregor, Fr., & D. Povolný, "What is *Lithocolletis saintoniella* Stt.?" [in English, Czech summary]. *Folia Ent.*, vol.12: pp.4-9, 1 pl., 8 figs. 1949. Describes all stages and ecology; figures larvæ, pupa, imago, & ♂ genitalia (larvæ & imago in color). [J. M.]
- Gregor, F., & D. Povolný, "The members of *Lithocolletis* Hb. mining *Acer* and *Alnus*" [in Czech, English & Russian summaries]. *Folia Ent.*, vol.13: pp.129-151, 3 col. pls., 87 figs. 30 Dec. 1950. Important study of *Lithocolletis* mining *Acer* and *Alnus* in Central Europe. Data on bionomy and ecology are given; some spp. are figured in color. [J. M.]
- Gregor, Frant., & Dal. Povolný, "Contribution à la faune lépidoptérologique de la Tchécoslovaquie" [in Czech, French summary]. *Acta Soc. Ent. Českoslovenæ*, vol.48: pp.74-80, 8 figs. 1 Sept. 1951. Records of 19 spp. Figures *Gelechia dzieduszykii*, *Tinea ankerella*, *Nothris lemniscella*; also genitalia of first & last, & of Czechoslovak spp. of *Anaitis* (Geom.). [J. M.]
- Gregor, F., & D. Povolný, "Systematische und zoogeographische Studie über die Gruppe der Arten *Gnorimoschema* Busck mit Rücksicht auf die richtige Diagnostik des Schädlings *Gnorimoschema ocellatellum* Boyd" [in German, Czech introduction & Russian summary]. *Folia Zool. Ent.*, vol.3: pp. 83-96, 2 pls., 3 figs. March 1954. Describes as new *G. ocellatellum orientale* (Pohronsky Ruskov, S. Slovakia); *G. corsicanum* (Corsica); *G. ignotum* (E. France); subgenus CARYOCOLUM (type *G. leucomelanellum*). Revision of European spp. of genus. *Lita paniculatella* a synonym of *G. artemisiellum*.

- Figures some adults in color, & genitalia of new spp. The taxonomy, phylogeny, and ecology of the group are discussed. [J. M.]
- Herbulot, C., "Deux nouveaux *Neocleora* malgaches (Lep. Geometridæ)" [in French]. *Bull. Soc. Ent. France*, vol.60: pp.38-40, 2 figs. 1955. Describes as new, from Madagascar, *N. macracantha* and *N. legrasi*. [P. V.]
- Herbulot, C., "Nouveaux Geometrinæ de Madagascar et des Comores (Lep. Geometridæ)" [in French]. *Ann. Soc. Ent. France*, vol.123: pp.115-126, 15 figs. Jan. 1955. Describes as new *Archichlora ioannis* (Anjouan, Comoro Archipelago), *A. alophias* (central Madagascar), *A. alophias catalai* (E. Madagascar); *Leptocolpia decaryi* (E. Madagascar); *Epigelasma corrupta* (central Madagascar), *E. rhodostigma* (E. Madagascar), *E. nobilis* (central Madagascar); *Heterorbachis harpifera*, *H. acuta*, *H. reducta*, *H. amplior*, *H. defossa*, *H. abdita*, *H. viettei*; *Omphax interfulgens* (all from central Madagascar); *Syncollesis pauliani* (S. Madagascar). [P. V.]
- Higgins, L. G., "A descriptive catalogue of the genus *Mellicta* Billberg (Lepidoptera: Nymphalidæ) and its species, with supplementary notes on the genera *Melitæa* and *Euphydryas*." *Trans. Roy. Ent. Soc. London*, vol.106: pp.1-131, 2 pls., 88 figs., 4 maps. 15 April 1955. Redescribes genus, which includes the *athalia* group of *Melitæa*. Describes as new *M. aurelia distans* (Tekkes Valley, NW Tian-Shan); also 2 "modifications" (color forms below subspecific rank). Redescribes all species, subspecies, and modifications; catalogues all named "forms"; discusses geographical and other variation. Figures ♂ genitalia of all spp. Gives extensive supplementary notes to his catalogue of the *Melitæa* (1941). Summarizes classification of the Palearctic Melitæini (genera *Mellicta*, *Melitæa*, *Euphydryas*). [P. B.]
- Hovanitz, William, "Amphi-atlantic study of *Colias hecla*, *Colias nastes* and *Colias palæno*." *Yearb. Amer. Philos. Soc.*, 1951: pp.142-144. 1952. Progress report on a study on a relationships between Palearctic and Nearctic populations of these spp. [P. B.]
- Hrubý, Karel, "The distinguishing between the *Oporinia* species (Geometr.)" [in Czech, Russian & English summaries]. *Acta Soc. Ent. Cechoslovenia*, vol.49: pp.135-145, 4 figs. 15 Nov. 1952. Gives important characteristics of all the Central European species (*O. diluata*, *O. autumnalis*, & *O. chrysty*). [J. M.]
- Kiriakoff, Serge G., "Lepidoptera Heterocera" [in French]. *Explor. Parc National de l'Upemba, Mission G. F. de Witte*, fasc.26: 69 pp., 7 pls. Sept. 1954. List of the 253 species of Macroheterocera (excluding Geometridæ) collected by de Witte and collaborators (1946-49) in the National Park of Upemba (Belgian Congo). Describes as new: (Sphingidæ) *Prædora marshalli meridionalis*; (Limaconidæ) *Birithama saturata*; *Phorma limbata*, *P. subericolor*; (Noctodontidæ) *Pygæa leloupi*; *Notoxantha witteana*; *Polienus ochraceus orientalis*, *P. lusingæ*; *Pydna indecora*; (Thyretidæ) *Metarctia* (*Ænarctia*) *upembæ*; (Arctiidæ) *Aglossosia pallidula*; *Caripodia jansseni*; *Pseudelpista unicolor*; *Edaleoxia sordidula*; *Etema danieli*; *Ctenosia fageli*, *C. roscidella*, *C. rotundula*; *Phryganopsis brunneivincta*; *Amata tomasina reducticincta*; (Agaristidæ) *Pais straeleniana*; (Noctuidæ) *Timæa janmoullei*; *Matopo tamsi*; *Ethiopicia subpurpurea*; *Isadelphina mariaclaræ*. The location of the types is not given; no doubt in the Brussels Museum. [P. V.]
- de Lesse, H., "État actuel de la systématique du groupe d'*Erebia tyndarus* Esp. (s.l.). Note complémentaire" [in French]. *Rev. franç. Lepid.*, vol.14: pp.258-259. March 1955. *E. nivalis* (chromosome number n=11) and *E. callis* (n=15) are probably good species; *E. calcarius* is also no doubt a good species; the problem of *E. tyndarus* & *E. cassioides* (both n=10) remains. [P. V.]
- Lorković, Z., & H. de Lesse, "Nouvelles découvertes concernant le degré de parenté d'*Erebia tyndarus* Esp. et *E. cassioides* Hohenw." [in French]. *Lambillionea*, vol.54: pp.58-67, 78-86, 2 figs. 25 Dec. 1954. New notes on the relationship between *E. tyndarus* and *E. cassioides*. The subspecies ("race" in the French text) *aquitania* belongs to *cassioides*, as well as the subsp. *macedonica*, *illyrica*, and *illyromacedonica*. The distribution of *E. tyndarus* is not as extensive as was thought, being limited to the central Alps. The authors distinguish a new semispecies *nivalis*, the altitudinal population of Pasterzen. As concluded from previous studies, in place of two species *E. tyndarus* and *E. cassioides*, we have today the two species *E. hispania* and *E. tyndarus*, this last with two semispecies *E. (t.) cassioides* and *E. (t.) nivalis*. The end of the paper is a long study of the contact areas between *E. (t.) tyndarus*, *E. (t.) cassioides*, and *E. (t.) nivalis*. [P.V.]
- McDunnough, James H., "New Microlepidoptera from the region of Halifax, Nova Scotia, with notes on other species." *Amer. Mus. Novit.*, no.1686: 15 pp., 9 figs. 11 Aug. 1954. Describes as new *Anchylopera rhodorana* (Point Pleasant Park, Halifax; on *Rhodora*); *Coleophora peregrinævorella* (Halifax; on *Comptonia peregrina*); *G.*

- multicristatella* (Point Pleasant Park; on *Gaylussacia* and *Rhodora*); *C. bispinatella* (Wellington, N. S.; on *Juncus canadensis*); *Gracillaria rhodorella* (Halifax; on *Rhodora*). Figures genitalia and some larval cases of new *Coleophora* spp. Redescribes *C. paludicola* (larva on sweetfern and bayberry); *Gracillaria flavella* (larva on bayberry). *Coleophora zelleriella* Chambers, unrecognizable, a homonym of *zelleriella* Heinemann. New food-plant records: *Aphania bifida* (*Alnus crispa*); *Exartema melanomesum* (*Kalmia*); *Pseudexentera costomaculana* (*Hamamelis virginiana*). [P.B.]
- McDunnough, James H., "The species of the genus *Hydriomena* occurring in America north of Mexico (Geometridæ, Larentiinae)." *Bull. Amer. Mus. Nat. Hist.*, vol.104: pp.237-358, 3 pls., 185 figs. 6 July 1954. Describes as new *H. exculpata josepha* (Chief Joseph Mts., Oregon); *H. e. nanata* (Hopedale, Labr.); *H. expurgata nicolensis* (Nicola, B. C.); *H. e. alticola* (Estes Park, Colo.); *H. irata lobata* (Mt. Lolo, Kamloops, B. C.); *H. charlestonia* (Sawmill Spr., Charleston Mts., Nev.); *H. edenata prasinata* (Inverness, Marin Co., Calif.); *H. e. baueri* (Anderson Spr., Lake Co., Calif.); *H. johnstoni* (Inverness, Marin Co., Calif.); *H. divisaria brunnescens* (McLean Bogs Reserve, Tomkins Co., N. Y.); *H. renunciata viridescens* (Inverness, Marin Co., Calif.); *H. pluviana meridianata* (Craillhope, Green Co., Ky.); *H. rita* (Madera Canyon, Sta. Rita Mts., Ariz.); *H. furcata fergusonii* (Peggy's Cove, Halifax Co., N. S.); *H. cyriadoides* (Tucson, Ariz.); *HYMENODRIA* (type *Hydriomena mediudentata*). Figures adults of new entities and some others, and genitalia of almost all spp. Key to 9 species groups. Also names one "form". See review in *Lepid. News*, vol.8: p.171. [P.B.]
- McDunnough, James H., "Critical remarks on the synonymy of certain *Anchylopera* species, with description of new species (Lepidoptera, Eucosmidae)." *Amer. Mus. Novit.*, no.1725: 16 pp., 1 fig. 11 May. 1955. Describes as new *A. columbiana columbiana* (Penticton, B.C.); *A. c. shastensis* (Shasta Retreat, Siskiyou Co., Calif.); *A. simuloides simuloides* (Deep Creek, Peachland, B.C.); *A. s. sierra* (Mineral King, Tulare Co., Calif.); *A. s. litoris* (Carmel, Calif.). Sinks *Phoxoperis angulifasciana* to *A. metamelana*; also discusses *A. discigerana*, *A. laciniana*, and *A. spiraeafoliana*. Describes genitalia of genus. [P.B.]
- McDunnough, James H., "New species of Coleophoridae, with notes on other species (Lepidoptera)." *Amer. Mus. Novit.*, no.1719: 7 pp., 2 figs. 22 April 1955. Describes as new *C. canadensisella* (Halifax, N. S.; on *Cornus canadensis*); *C. vacciniivorella* (Halifax; on *Vaccinium*). Compares *C. salicivorella* with *C. vimirivirella*. Records *C. caespitiella*, new to North America. Sinks *C. thalassella* to *C. versuvella*. [P.B.]
- Marion, H., "Deux pyrales paléarctiques nouvelles: *Mecyna joannialis* n.sp. et *M. syriacalis* n.sp. (Lep. Pyraustidae)" [in French]. *Entomologiste*, vol.11: pp.20-23, 6 figs. April 1955. Describes as new *M. joannialis* (Algeria) and *M. syriacalis* (Glazir, Syria). [P. V.]
- Marion, H., "Synonymie de quelques pyrales décrites de Madagascar" [in French]. *Naturaliste Malgache*, vol.6: pp.75-78. March 1955. New synonymy: *Botrys poeyalis* (= *Marasmia venialis*); *B. docalis* (= *Filodes grisealis*); *Hyalobathra filalis* and *H. aurata* are not synonyms; *Sameodes cancellalis* and *S. vespertinalis* are different species. [P. V.]
- Miller, Fr., & Dal. Povolný, "*Homeosoma nebulellum* Hbn. — nový škůdce slunečnice u nás" [in Czech, Russian and English summaries]. *Folia Ent.*, vol.14: pp.49-59, 56 figs. 31 July 1951. Bionomy, systematics, and control of *H. nebulellum* — a pest of sunflower in South Moravia — are given. [J. M.]
- Moucha, J., "Contribution à la connaissance de *Papilio machaon* L. de Palestine — Lep. Papilionidae" [in French]. *Bull. Soc. Ent. Mulhouse* 1954: pp.69-75, 8 figs. Dec. 1954. Refers Palestine specimens to *P. m. syriacus*; *P. m. palestinesis* Eller is a *nomen nudum*. Detailed description of two local populations. [P. B.]
- Moucha, Josef, & Dalibor Povolný, "The Czechoslovak species of the genus *Ophiusa* Ochs. (Phalænidæ)" [in English; Czech introduction and Russian summary]. *Acta Ent. Mus. Nat. Pragæ*, vol.29: pp.25-40, 4 pls. 20 June 1955. Distribution, morphology and phylogeny of the 5 Czechoslovak spp. are given; imagos and ♂ & ♀ genitalia of all are figured. [J. M.]
- Moucha, J., & D. Weiss, "Einiges über *Hyphantria cunea* Drury und *Spilosoma menthastris* Espenhan (Lepid.)" [in German]. *Nachr. Naturw. Mus. Aschaffenburg*, vol.39: pp.57-62, 2 pls. 1953. Careful comparison of these superficially similar arctiids. [P. B.]
- Paclt, Jiří, "*Spectrum* Scop. a *Trochilium* Scop., dva zaniklé rody v Lepidopterologii" [in Czech, English summary]. *Folia Ent.*, vol.11: pp.25-28. 30 April 1948. Considers the genus *Spectrum* as isogenerotypic with *Sphinx* L. Consequently, selects one of four spp. contained originally in the work of Scopoli — *ligustri* L. — as the type of that genus. By this action a confusion in the nomenclature of Sphingidae may be avoided. The subfamily names Sesiinae and Chærocampinae (=Celerioninae) are not available

- according to the *Règles*. The former must be called *ÆLLOPINÆ* nom.nov., the latter *Deilephilinæ*. As to the genus *Trochilium*, refers to the designation by Stephens, 1828, of *apiformis* as type. [J. M.]
- Paclt, Jiří, "Nomenclator sive enumeratio critica Lepidopterorum Slovaciæ (Satyridæ-Sphingidæ)" [in Latin, Czech introduction]. *Folia Ent.*, vol.12: pp.140-155. 1949.
- Paclt, Jiří, & Jiří Šmelhaus, "De dignitate spinulæ tibię anterioris in taxonomia generis *Plebejus* Kluk (Lep., Lycænidæ)" [in Czech; Russian & Latin summaries]. *Acta Soc. Ent. Cechoslovenię*, vol.49: pp.154-155. 15 Nov. 1952. Correction, *ibid.*, vol.50: p.252.
- Patočka, Jan, "Contribution à la morphologie et au système des Pyralidides" [in Czech, French summary]. *Folia Ent.*, vol.13: pp.107-109, 9 figs. 30 Oct. 1950. Describes as new *Paraponyx* (subg. PSEUDOPARAPONYX), type *stagnata* Don. [J. M.]
- Patočka, Jan, "Die *Sarothripsus*-Arten als Schädlinge der Pappeln" [in Czech, Russian & German summaries]. *Fol. Zool. Ent.*, vol.2: pp.76-88, 1 pl., 8 figs. June 1953. Describes as new, from S. Slovakia, *S. populana* & *S. cuneana*; figures ♂ & ♀ genitalia of these & wing pattern of central European spp. Keys in German. [J. M.]
- Pescott, R. T. M., "Lepidoptera of the Russell Grimwade Expedition." *Mem. Nat. Mus. Victoria*, no.17: pp.27-28, 1 pl. 1951. Describes as new *Tballarcha eremicola* (Balladonia, Western Australia) (Arctiidæ); figures australs. [J. C.]
- Povolny, D., & F. Gregor, "Contributions to the knowledge of genus *Lithocolletis* Hb." [in English, German introduction]. *Folia Ent.*, vol.13: pp.33-36, 1 pl., 2 figs. 30 Apr. 1950. In the first part of the paper some information is given about *L. staintoniella* (Stt.). In the second part *L. cavella milleri* is described as new (Hodejovice, S. Bohemia). The foodplant of the nominate form is *Betula*; of the new ssp., *Prunus cerasus*. New ssp. figured in color. [J. M.]
- Povolný, D., & J. Šmelhaus, "Československé druhy rodu *Procris* Fabr." [in English; Czech introduction & keys, Russian summary]. *Folia Ent.*, vol.14: pp.180-188, 2 pls., 22 figs. 1 Dec. 1951. All Czechoslovak spp. are figured in color; genitalia figured. Problems of nomenclature in *Procris* are discussed. [J. M.]
- Povolný, Dal., & Jar. Zakopal, "Výskyt mola řepného (*Phthorimæa ocellatella* Boyd) v Maďarsku" [in Czech, Russian summary]. *Folia Ent.*, pp.97-106, 23 figs, 1 Oct, 1951. Information is given on systematics, bionomy and control. [J. M.]
- Rindge, Frederick H., & William P. Comstock, "An unnamed lycænid from Trinidad (Lepidoptera)." *Journ. N.Y. Ent. Soc.*, vol.61: pp.99-100. June 1953. Describes as new *Echinargus huntingtoni* (Hololo Mt. Road, St. Ann's Trinidad, B. W. I.). [W.C.]
- Rindge, Frederick H., "Synonymic notes on North American Geometridæ (Lepidoptera)." *Journ. N.Y. Ent. Soc.*, vol.61: pp.141-142. Sept. 1953. *Gueneria similaria*, new comb. replacing *G. basitaria*; *Syrrhodia sphaeromacharia* replaced by *S. cruentaria*; species called *sphaeromacharia* by Rindge, 1950 (*Amer. Mus. Novit.* no.1469) is now *coloraria*. [W.C.]
- Rindge, Frederick H., "A revision of the genus *Tornos* Morrison (Lepidoptera, Geometridæ)." *Bull. Amer. Mus. Nat. Hist.*, vol.104: pp.177-236, 35 figs. 21 June 1954. Describes as new *T. capitaneus* (San Sebastian, Retalhuleu, Guatemala); *T. apiatus* (Paraguay); *T. phoxus* (San Sebastian, Retalhuleu, Guatemala); *T. hoffmanni* (Tehuacan, Puebla, Mex.); *T. brutus* (Volcan Turrialba, Costa Rica); *T. pusillus* (Cordoba, Mex.); *T. spinosus* (Juan Vinas, Costa Rica, 3000'); *T. mistus* (Buenavista, E. Bolivia); *T. scolopacinus spodius* (St. Petersburg, Fla.); *T. abjectarius rarus* (Port Sewall, Martin Co., Fla.); *T. a. kimballi* (Siesta Key, Sarasota Co., Fla.). Redescribes other spp.; figures genitalia of all. Keys to ♂ and ♀ genitalia, and to adults of the 12 forms occurring in the United States. [P.B.]
- Rindge, Frederick H., "The butterflies of the Van Vorst-American Museum of Natural History expedition to the Bahama Islands, British West Indies." *Amer. Mus. Novit.*, no.1716: 20 pp., 8 figs. 25 March 1955. Describes as new *Lucinia sida albomaculata* (Port Nelson, Rum Cay); *Burca braco castibata* (New Portsmouth, Eleuthera Is.); *B. b. atrata* (The Bight, Cat Is.). Annotated list includes 42 other spp. [P.B.]
- Rindge, Frereric H., "The type material in the J. B. Smith and G. D. Hulst collections of Lepidoptera in the American Museum of Natural History." *Bull. Amer. Mus. Nat. Hist.*, vol.106: pp.91-172. 25 April 1955. [See review in *Lepid. News*, vol.9: p.160.]
- Rougeot, P. C., "Les Attacides (Saturnidæ) de l'Équateur africain français" [in French]. *Encycl. Ent.*, vol.34: 116 pp., 12 pls. (4 colored), 160 figs. 1955. Study of Attacidæ of French Equatorial Africa, with keys to subfamilies, tribes, genera, and species. The

- biology of the larvæ (bred by the author for many years) is described, with drawings. Describes as new: subtribes MELANOCERINI, BUNÆINI; *Nudaurelia oyemensis* (Oyem, Gaboon); *Gomibrasia hecate* (Ivory Coast); *Athletes etbra albicans* (Oyem, Gaboon); *Epiphora intermedia* (Katanga). The species *nictitans* Fabr. is an *Imbrasia*, not a *Nudaurelia*. The nomenclature of this last genus is to be taken up again. [P.V.]
- Salazar Torres, Juan, "El barrenarod del zapallo y de otras cucurbitaceas: *Melittia* sp." [in Spanish]. *Agronomía, Lima*, vol.19: pp.105-123, 2 figs. [1954?]. Detailed description of all stages of an unnamed species near *M. cucurbitæ*. [P.B.]
- Sauter, W., "Zur Morphologie und Systematik der schweizerischen *Solenobia*-Arten (Lep. Psychidæ)" [in German]. *Mitt. Schweiz. Ent. Ges.*, vol.27: pp.429-434. 30 Dec. 1954. Morphological and systematic study of the Swiss species of *Solenobia*. Describes as new *S. seileri* (Goppenstein, Wallis); *S. goppensteinensis goppensteinensis* (Goppenstein, Wallis), *S. g. generosensis* (Monte Generoso, Tessin); *S. rupicolella* (Brugniasco, Tessin); *S. (Brevantennia) siederi* (Monte Generoso, Tessin). [P.V.]
- Tindale, N. B., "On a new form of *Heteronympha penelope* Waterhouse (Lepidoptera Rhopalocera, family Satyridæ)." *Trans. Roy. Soc. So. Australia*, vol.75: pp.25-29, 1 pl., 1 fig. 1952. Describes as new *H. p. maraia* (Grampian Mts., western Victoria) and discusses the several races of this species. Figures the pupa and the wings of four subspecies. [I.C.]
- Tindale, N. B., "New Rhopalocera, and a list of species from the Grampian Mountains, western Victoria." *Rec. So. Australia Mus.*, vol.11: pp.43-68, 4 pls., 4 figs. 1953. List of 39 species of butterflies recorded for this area; describes as new *Heteronympha banksii nevina* (Mt. Rosea, Victoria), *H. b. mariposa* (McPherson Range, Queensland), *H. solandri angela* (Mt. Rosea); *Pseudalmenus chlorinda fisheri* (Mt. Victory, Victoria); and *Hesperilla crypsargyra lesouefi* (Mt. William, Victoria). Figures immature stages of four spp. and the wings of new and other races. [I. C.]
- Tindale, N. B., "On a new species of *Ænetus* (Lepidoptera, family Hepialidæ) damaging *Eucalyptus* saplings in Tasmania." *Trans. Roy. Soc. So. Australia*, vol.76: pp.77-79, 1 pl. 1953. Describes as new *O. paradiseus* (Ridgeway, Tasmania) and *O. p. montanus* (Mt. Gingera, Australian Capital Territory). Figures wings of *O. paradiseus* and *O. scotti*. [I. C.]
- Tindale, N. B., "On some Australian Cossidæ including the moth of the Witjuti (Witchety) grub." *Trans. Roy. Soc. So. Australia*, vol.76: pp.56-65, 1 pl., 4 figs. 1953. Describes as new *Xyleutes biarpiti* (Ooldea Soak, South Australia) and redescribes and gives life history notes on two other species whose larvæ are sought as food by the aborigines. Figures immature stages and the wings of both sexes. [I. V.]
- Turner, A. J., "A revision of the Australian Phycitidæ, Part 1." *Trans. Roy. Soc. So. Australia*, vol.71: pp.28-53. 1947. Describes as new in the subfamily Anerastriinæ: *Anerastia rhodochros* (Cape York, N. Queensland), *A. albivena* (Murrurundi, N.S.W.), *A. xylodes* (Cairns, N. Queensland), *A. clepsiphronica* (Brisbane, Queensland); LIOPROSOPA (type *Heosphora chlorogramma* Meyrick), *L. dimochla* (Brock's Creek, N. Australia), *L. phaulodes* (Dunk Island, Queensland), *L. pelopa* (Darwin, N. Australia), *L. phaeochiton* (Cape York), *L. pachyzancla* (Cape York), *L. sporadica* (Cape York), *L. rhadinodes* (Dunk Island), *L. tanybela* (Lindeman Island, N. Queensland), *L. baploa* (Lindeman Island), *L. thiomochla* (Darwin, Dalby, Queensland); Kimberley, N.W. Australia), *L. colobela* (Gordonvale, N. Queensland), *L. platymochla* (Cunnamulla, Queensland), *L. transecta* (Injune, Queensland), *L. poliosticha* (Herberton, N. Queensland), *L. rbanista* (Lindeman Island); ANCHYLOBELA, and type species *A. baploides* (Kuranda, N. Queensland); *Saluria stereochorda* (Bunya Mts., Queensland), *S. pelochroa* (Burnie, Tasmania); ANARESCA, and type species *A. xuthochroa* (Lindeman Island); ALLOEA, and type species *A. xylochroa* (Wyndham, N.W. Australia). Subfamily Phycitinæ: ABARYS, and type species *A. amaurodes* (Brisbane); *Ephestia pelopis* (Kuranda); *Homeosoma centosticha* (Brisbane; Bunya Mts.; Murrurundi), *H. rhapsa* (Aramac and Stanthorpe, Queensland), *H. euryleuca* (Cape York), *H. contracta* (Murrurundi), *H. pelosticta* (Biloela, Queensland; Ebor, N.S.W.), *H. ochropasta* (Kuranda), *H. atechna* (Derwent Bridge, Tasmania); *Euzopherodes concinella* (Cape York), *E. homophaea* (Kuranda), *E. homocapna* (Cunnamulla), *E. schematica* (Cape York), *E. phaulopa* (Scone, N.S.W.); SCYTHROPHANES (type

- Unadilla apatelia* Turner); *Euzophera albicosta* (Denmark and Yanchop, Western Australia), *E. flavicosta* (Cape York), *E. ischnopa* (Cape York), *E. arrhythmicopis* (Cairns and Redland Bay, Queensland); *EUAGETA*, and type species *E. arestodes* (Injune); *Cateremna cataxutha* (Darwin; Toowoomba, Queensland), *C. mediolinea* (Cape York), *C. leptoptila* (Broken Hill, N.S.W.), *C. melanomita* (Mackay, N. Queensland); *Tylochares epaxia* (Lake Barrine, N. Queensland), *T. prays* (Bunya Mts. and Stanthorpe, Queensland), *T. gypsotypha* (Cape York), *T. anaxia* (Cape York), *T. paucinotata* (Cape York), *T. chionopleura* (Warwick, Queensland), *T. endophaga* (Bribie Island, Queensland), *T. pastopleura* (Cape York); *Trissonca clytopa* (Kuranda); *Hypogryphia amictodes* (Duarina and Toowoomba, Queensland); *Ancylosis thioistica* (Injune). Type localities not specified; no figures included; keys to genera are provided. [I. C.]
- Van Son, G., "A proposal for the restriction of the use of the term subspecies." *Lepid. News*, vol.9: pp.1-3. 8 April 1955.
- Viette, P., "Étude d'une petite collection de Lépidoptères de la Réunion" [in French]. *Bull. Mus. Nat. Hist. Nat.*, ser. 2, vol.26: pp.506-510, 1 fig. Dec. 1954. Study of a small collection from Reunion Is. (Indian Ocean); describes as new *Metachanda hamonella* (Metachandidae). [P. V.]
- Viette, P., "Les travaux de S. Le Marchand" [in French]. *Rev. franç. Lépid.*, vol.14: pp.204-210. Jan. 1955. List of Le Marchand's publications and list of the types in his collection. [P. V.]
- Viette, P. E. L., "Une nouvelle famille de Lépidoptères pour la faune malgache" [in French]. *Naturaliste Malgache*, vol.6: pp.71-73, 1 pl., 1 fig. March 1955. Family Eupterotidae new to Madagascar. Describes as new *Jana palliatella*. [P. V.]
- Viette, Pierre E. L., "Nouveaux Tineoïdæ (s.l.) de Madagascar (Lep.)" [in French]. *Ann. Soc. Ent. France*, vol.123: pp.75-114, 32 figs. Jan. 1955. Describes as new: (Tineoïdæ) *Melasina decaryella* (central Madagascar), *M. vadonella* (N.E. Madagascar); *Monachoptilus paulianella* (S.E. Madagascar); *Sporadanthra vadonella* (N.E. Madagascar); (Lyonetiidae) *Oinophila antongilella*, *O. herbulotella*; *Hieroxestia masoalella* (all from N.E. Madagascar); (Yponomeutidae) *Parabyponomeuta malgassuella* (central S. Madagascar); (Ethmiidae) *BETROKA*, and type *B. jacobsellæ* (central S. Madagascar); (Glyphipterygidae) *Nigilgia seyrigella*, *N. toulgoëtella* (both from central S. Madagascar); (Ægeriidae) *Tipulamima ivondro* (S.E. Madagascar), *T. seyrigi* (central S. Madagascar); *Lepidopoda xanthopimplæformis* (E. Madagascar), *L. sylvestralis* (E. Madagascar); *Malgassesia seyrigi* (N. Madagascar), *M. pauliani* (far S. Madagascar); *MICROSYNANTHEDON*, and type *M. ambrensis* (N. Madagascar); (Xylorictidae) *Phraccypis lebisella* (S.E. Madagascar), *P. longifasciella* (central Madagascar); *Exoditis vadonella*, *E. janineæ*, *E. sylvestriella*, *E. dominiqueæ* (all from N.E. Madagascar); (Cecophoridae) *Eutorna punctinigrella*; *Tyriograptis elegantella* (both N.E. Madagascar); *Meleonoma diehlella* (central S. Madagascar); *Lasiomacra maisongrosella*; *Cryptolechia quadripunctella* (both N.E. Madagascar); (Cosmopterygidae) *Mompha millotella* (E. Madagascar); *Pyroderces ocreella* (N.E. Madagascar); (Metachandidae) *Metachanda benoistella* (central Madagascar), *M. rungella* (N.E. Madagascar); (Gelechiidae) *Dichomeris vadonella* (N.E. Madagascar), *L. decaryella* (E. Madagascar), *L. adelella*, *L. masoalella*, *L. mocquersyella*, *L. paulianella*; *Pachnistis nigropunctella* (all N.E. Madagascar). [P. V.]

C. MORPHOLOGY AND CYTOLOGY

- Amanieu, Michel, "Effets de la section des sériciductes pratiquée sur des vers à soie (*Bombyx mori*)" [in French]. *C. R. Soc. Biol.*, vol.148: pp. 679-680. April 1954. Sectioning of silk gland ducts results in death at metamorphosis because silk is excreted into body cavity. [P. B.]
- Edwards, George A., Persio de Souza Santos, Helena de Souza Santos, & Paulo Sawaya, "Electron microscope studies of insect muscle. III. Variations in ultra structure" [in English, Spanish summary]. *Bol. Zool. Univ. São Paulo*, vol.19: pp.391-406, 14 pls. 1954. Material included muscles from *Caligo beltrao* & *Tbyssania agrippina*. [P. B.]
- Ezhikov, I. I., "Organization of bagworms of the genus *Fumea* (Lepidoptera, Psychidae)" [in Russian]. *Trudy Inst. Morph. Zhivotnykh Akad. Nauk SSSR*, no.8: pp.154-169. 1953. [Not seen].

- de Lesse, Herbert, "Formules chromosomiques nouvelles du genre *Erebia* (Lepid. Rhopal.)" [in French]. *C. R. Acad. Sci.*, vol.237: pp.758-759, 3 figs. 1953. Lists, with comments, chromosome numbers of *E. hispana rondoui*, *E. t. tyndarus*, *E. mnestra*, *E. scipio*. [P. B.]
- de Lesse, H., "Nouvelles formules chromosomiques dans le groupe d' *Erebia tyndarus* Esp. (Lépidoptères Satyrinæ)" [in French]. *C. R. Acad. Sci. Paris*, vol.240: pp.347-379. Jan. 1955. Newly recorded chromosome numbers: *callias*, n=15; *nivalis*, n=11; *calcarius*, n=8; *tyndarus*, 2n=16; *cassioides*, 2n=20. [P.V.]
- de Lesse, H., "Recherche de formules chromosomiques chez les *Zygæna*" [in French]. *Bull. Mens. Soc. Linn. Lyon*, vol.24: pp.142-144. June 1955. Records of chromosome numbers: *purpuralis*, n=30; *loniceræ*, 2n=about 60; *fulvia* (= *achilleæ*), 2n=54-55. [P.V.]
- Moucha, J., "Forme intéressante des écailles des ailes de *Polyommatus bellargus* Rott. (Lep. Lycænidæ)" [in French]. *Bull. Soc. Ent. Mulhouse*, July-Aug. 1955: pp.35-36, 1 fig. Some interesting shapes of scales on the wings of *L. bellargus*. [P.V.]
- Novák, Vladimír J. A., "Growth of the corpora allata during the postembryonal development in insects" [in English, Czech and Russian summaries]. *Acta soc. Zool Bohemoslovenicæ*, vol.18: pp.98-133, 8 figs. 16 June 1954. Discusses the development of corpora allata in *Ephestia kübniella* and *Bombyx mori*, among Lepidoptera. [J.M.]
- Richards, A. Glenn, "Studies on arthropod cuticle. XI. The ecdysial membrane." *Journ. Morph.*, vol.96: pp.537-544, 5 pls. May 1955. Fine structure of a very thin (.15 micron) membrane found between pupal and adult cuticles of *Platysamia cecropia* and *Telega polyphemus*. [P.B.]
- Shumakov, E. M., & L. A. IAKhimovich, "Morphologic and histologic characteristics of the metamorphosis of cotton bollworm (*Chloridea obsoleta* F.) and the phenomenon of diapause" [in Russian]. *Dokl. Akad. Nauk SSSR*, vol.101: pp.779-782, 2 figs. April 1955.
- Tykač, Jar., "Sphragis ou sphragidoid chez les lépidoptères" [in Czech, French summary]. *Acta Soc. Ent. Českoslovenicæ*, vol.48: pp.127-131. 30 Nov. 1951. Information on morphology and description of abdominal pouch in *Polyommatus coridon*. [J. M.]
- Waterhouse, D. F., "The occurrence and significance of the peritrophic membrane, with special reference to adult Lepidoptera and Diptera." *Austral. Journ. Zool.*, vol.1: pp.299-318, 2 pls., 5 figs. 1953. A tubular chitinous peritrophic membrane is reported in the adults of several lepidopterous families and in the adults of most cyclorrhaphous Diptera. [I. C.]

D. VARIATION AND GENETICS

- Astaurov, B. L., "Polyploidy and parthenogenesis in silkworms (*Bombyx mori*). Report no.1: Producing triploid artificial parthenogenesis" [in Russian]. *Bull. Moskovskoe Obsch. Isp. Prirody*, vol.60: pp.37-64. March/April 1955. [Not Seen].
- Beebe, William, "Polymorphism in reared broods of *Heliconia* butterflies from Surinam and Trinidad." *Zoologica, N.Y.*, vol.40: pp.139-143, 6 pls. 14 Nov. 1955. Describes variation in six broods of *H. erato* and *H. melpomene*; figures all offspring and known parents. [P.B.]
- Bryk, F., "Zwei neue Schmetterlingsformen aus Finnland" [in German]. *Notul. Ent.*, vol.34: pp.139-140, 1 fig. 1954. Describes and names aberrations of *Tholera popularis* and *Apamea fucosa*. [W.H.]
- Clarke, C. A., & P. M. Sheppard, "A preliminary report on the genetics of the *machaon* group of swallowtail butterflies." *Evolution*, vol.9: pp.182-201, 5 figs. 28 June 1955. Study of various crosses between *P. machaon*, *P. polyxenes asterius*, *P. brevicauda*, and *P. zelicaon*, with analysis of the genetics of some pattern characters of larvæ and adults. Hybrids are infertile except when backcrossed. [P.B.]
- Dowdeswell, W. H., & E. B. Ford, "Ecological genetics of *Maniola jurtina* L. on the isles of Scilly." *Heredity*, vol.9: pp.265-272. Aug. 1955. Further data on the differences between small local populations as revealed by hind-wing spot number in females. [P.B.]
- Elmhurst, Edward, "A butterfly experiment." *Country Life*, vol.118: pp.553-554, 5 figs. 15 Sept. 1955. On the effects of X-ray irradiation of *Pieris brassicæ*; treated and marked individuals have been released at Ipswich, England, and abnormal descendants are to be sought. [P.B.]
- Hanser, Gisela, "Eine neue glasflügelige Mutante (gl) von *Ephestia kübniella*" [in German]. *Zeits. Naturf.*, vol.10b: pp.161-166, 4 figs. March 1955. Describes a new recessive mutant with scaleless wings, and the expression and inheritance of the character. [P.B.]
- Lucas, D., "Nouveaux lépidoptères pour la faune française" [in French]. *Bull. Mens. Soc.*

- Linn, Lyon, vol.24: p.230. Nov. 1955. Description of new aberrations of *Lycæna bel-largus*, *Gluphisia crenata*, and *Agrotis constanti*, from the West of France. [P.V.]
- Williams, J. R., "A note on intra-specific variation of chætotaxy in a lepidopterous larva." *Proc. Roy. Ent. Soc. London (A)*, vol. 30: pp.82-86. 15 June 1955. Individual variation studies in some hundreds of specimens of *Cryptopblebia williamsi* (Eucosmidæ); variations minor except for one group of setæ. [P.B.]
- Wolsky, Alexander, "The analysis of eye-development in insects as a tool in developmental genetics." *Anat. Rec.*, vol.122: p.472. July 1955. Abstract only.

E. DISTRIBUTION AND PHENOLOGY

- Barrague, G., "Contribution à une faune des Lépidoptères Rhopalocères des environs d'Alger" [in French]. *Bull. Soc. Hist. Nat. Afr. Nord*, vol.45: pp.179-188, 1 map. 1954. Notes on the Rhopalocera in the Algiers district (Algeria). [P.V.]
- Beebe, Ralph, "A new North American record and a second rarity." *Lepid. News*, vol.8: p.27, 1 fig. 25 Jan. 1954.
- Bellingier, Peter, "The satyrid butterflies in the West Indies." *Nat. Hist. Notes Nat. Hist. Soc. Jamaica*, vol.6: pp.100-101, 2 maps. "May" 1954. Discusses distribution of the endemic genus *Calisto* and the possible geological origin of this distribution. [P.B.]
- Biezanko, Ceslau M., "II. Acræidæ Heliconiïdæ et Nymphalidæ de Pelotas e seus arredores" [in Portuguese]. Pelotas, Brazil (publ. by author). 16 pp., 1 pl., cover fig. 1949. Annotated checklist of Pelotas species, with 7 Acræidæ, 6 Heliconiïdæ, 43 Nymphalidæ; *Metamorphia stelenes bipunctata* and *Hypolimnna misippus* figured. [C.R.]
- Biezanko, Ceslau M., "VII. Sphingidæ de Pelotas e seus arredores" [in Portuguese]. Pelotas, Brazil (publ. by author). 8 pp., cover fig. 1948. Annotated checklist of Pelotas Sphingidæ, with 37 spp.; *Phelegethontius incisa* figured. [C.R.]
- Bigot, L., & H. Stempffer, "Un lycène nouveau pour la faune européenne: *Zizeeria karsandra* Moore" [in French]. *Rev. franç. Lépid.*, vol.14: pp.189-191. Nov. 1954. *Z. karsandra*, collected in Sicily, a new lycænid for the European fauna. [P.V.]
- Bourgogne, J., "Un Rhopalocère américain observé sur la côte bretonne" [in French]. *Rev. franç. Lépid.*, vol.14: p.138. 1954. Record of the capture of *Vanessa virginiensis* on the French coast near St.-Nazaire. [P.V.]
- Bourgogne, J., "La répartition française de *Liffia ferchaultella* Stph., espèce parthéno-génétique (Psychidæ)" [in French]. *Rev. franç. Lépid.*, vol.14: pp.245-249. March 1955. Study of the distribution in France of this parthenogenetic psychid. [P.V.]
- Brčák, Jaroslav, "L'essai sur la biocénologie des macrolépidoptères du terrain tourbeux situé près de Veseli dans le sud la Bohême" [in Czech; French summary]. *Folia Ent.*, vol.11: pp.92-111, 5 figs. 1948. Gives information about biotopes in this area and records the occurrence of 419 spp. [J.M.]
- Brčák, Jaroslav, "Contribution à la connaissance des Lépidoptères des Hautes Tatras [in Czech, French summary]. *Acta Soc. Ent. Českoslovenia*, vol.48: pp.167-178. 3 figs. 1951. Lists 77 spp. from Vysoké Tatry (N. Slovakia). Describes and names aberration of *Anaitis præformata*. *Semasia mercuriana* new to Czechoslovakia. [J.M.]
- Bros de Puechredon, E., "Lépidoptères de la Tremezzina (Lac de Côme)" [in French]. *Rev. franç. Lépid.*, vol.14: pp.211-217. Jan. 1955. List of Lepidoptera from Tremezzina (L. Como, N. Italy). [P.V.]
- Brown, F. Martin, "Some notes on *Boloria* in central Colorado (Nymphalidæ)." *Lepid. News*, vol.8: pp.64-66. 17 Sept. 1954.
- Chalmers-Hunt, J. M., "Notes sur les Lépidoptères rencontrés en Belgique en 1953, avec quelques remarques comparatives sur ceux de Grande Bretagne" [in French]. *Lambillionæa*, vol.54: pp.5-9. Sept. 1954. Collecting trip in Belgium with some remarks on some species found also in Great Britain. [P.V.]
- Chermock, Otilie D., "New records of Rhopalocera from southeastern Arizona." *Lepid. News*, vol.8: p.25. 25 June 1954.
- Condamin, M., & H. Stempffer, "Lépidoptères Rhopalocères récoltés au Cameroun par C. de Raemy" [in French]. *Bull. Inst. Franç. Afr. Noire*, vol.15: pp.1037-1044. July 1953. Annotated list: 7 Papilionidæ, 1 Riodinidæ, 12 Acræidæ, 47 Nymphalidæ, 6 Danaidæ; appendix by Stempffer, 18 Lycænidæ. [P.B.]
- Dekeyser, P., & A. Villiers, "Essai sur le peuplement zoologique terrestre de l'ouest africain" [in French]. *Bull. Inst. Franç. Afr. Noire*, vol.16: pp.957-970. July 1954. Characterizes the biogeographical regions of West Africa by brief lists of species, including Lepidoptera. [P.B.]
- Diehl, M., "Liste des Lépidoptères Rhopalocères rencontrés au sud de Madagascar et surtout sur le plateau du sud" [in French]. *Naturaliste Malgache*, vol.6: pp.61-70. March 1955.

- List of Rhopalocera collected in S. Madagascar, chiefly in the southern highlands. [P.V.]
- Droit, P.-A., "Note sur les Lépidoptères Hétérocères du bassin moyen de la Durance" [in French]. *Entomologiste*, vol.9: pp.100-106. "1953" [March 1954]. List of the Heterocera (except micros and Geometridæ) collected in the French Alps. The genus *Spiris* is rightly employed for the species *striata* (Arctiidæ Lithosiinæ). [P.V.]
- Eidkum, Frantisek, "Nový motýl pro Čechy — vakonoš *Psychidea pectinella* Den. et Schiff." [in Czech]. *Acta Soc. Ent. Českosloveniae*, vol.49: 235-236. 15 Dec. 1952. First record for Bohemia. [J.M.]
- Ferguson, D. C., "The Lepidoptera of Nova Scotia. Part I. Macrolepidoptera." *Proc. Nova Scotian Inst. Sci.*, vol.23: pp.161-375, 16 pls., 7 figs., 1 map. Feb. 1954. Discusses faunal areas and local habitats. Annotated list of 68 butterflies and 764 macroheterocera, based on study of over 50,000 specimens. Food plants and other biological notes are given; a few larvæ (apparently previously unknown) are described. Notes on identification of some species in difficult groups (*Eubaphe*, deltoïd noctuids among others). Some 220 figures of interesting specimens, with full data. (See review in *Lepid. News*, 8: 170; 1955.) [P.B.]
- Hamilton, G. Rostrevor, "Butterflies in eastern France." *Country Life*, vol.110: p.1390. 26 Oct. 1951. Collecting in French Jura.
- Herbulot, C., "Une intéressante acquisition pour la faune française: *Scopula rubellata* Stgr. (Lep. Geometridæ)" [in French]. *Bull. Soc. Linn. Lyon*, vol.23: pp.181-182. Sept. 1954. *S. rubellata* new for the French fauna, formerly known only from Spain. The citation of this species from Morocco by Oberthür applies perhaps to another species. [P.V.]
- Hovanitz, William, "The biology of *Colias* butterflies. I. The distribution of the North American species." *Wasmann Journ. Biol.*, vol.8: pp.49-75. 1950. This paper gives distributional maps as well as verbal explanations of the distributions. There is a general discussion of the distribution of the genus from a world-wide viewpoint. This paper has many small comparative details of the type that become apparent only after long and painstaking study. A valuable piece of work. [J.T.]
- Hrubý, Karel, "Some new and rare Lepidoptera in North-Eastern Bohemia" [in Czech; English summary]. *Acta Soc. Ent. Českosloveniae*, vol.48: pp.80-85. 1 Sept. 1951. Lists 43 spp. [J.M.]
- Hrubý, Karel, "Tri nálezy vzácnějších motýlů ve středních Čechách" [in Czech; Russian summary]. *Acta Soc. Ent. Českosloveniae*, vol.49: pp.87-88. 1 Oct. 1952. 3 rare spp. from central Bohemia (*Chloroclystis coronata*, *Campæa honoraria*, *Harmodia xanthocyanea*). [J.M.]
- Hrubý, Karel, "Further report on some interesting Lepidoptera in North-Eastern Bohemia" [in Czech; Russian & English summaries]. *Acta Soc. Ent. Českosloveniae*, vol.50: pp.56-61. 20 Jan. 1954. Interesting finds of Lepidoptera from Dvůr Králové (N.E. Bohemia). [J.M.]
- Hrubý, Karel, "Some interesting Lepidoptera inside the city of Praha" [in Czech, Russian & English summaries]. *Acta Soc. Ent. Českosloveniae*, vol.50: pp.62-64. 20 Jan. 1954. Information on Lepidoptera captured in June and Sept. 1951, using the ultra-violet light. [J.M.]
- Iwase, Tarô, "First *Danaus plexippus* caught in Japan." *Lepid. News*, vol.8: p.27, 1 fig. 25 June 1954.
- Janmouille, E., "Espèces nouvelles pour la faune belge" [in French]. *Lambillionea*, vol.54: pp.3-4. 1954. *Coleophora sternipenella*, *C. prunifoliae*, *Nemophora pilulella*, *Adela congruella* new records for Belgium. [P.V.]
- Janmouille, E., "Espèces nouvelles pour la faune belge" — "Remarques sur la faune belge" [in French]. *Lambillionea*, vol.54: pp.33-34, 51-53. 1954. Notes on the Belgian fauna and two new records: *Argyresthia aurulentella* & *Coleophora glitzella*. [P.V.]
- Janmouille, E., "*Lithocolletis platani* Stgr. en Belgique" [in French]. *Lambillionea*, vol.54: p.34. 25 Aug. 1954. *L. platani* in Belgium, an introduced species. [P.V.]
- Komárek, Oldřich, "Quelques microlépidoptères intéressants dans le Bassin supérieur du fleuve de l'Elbe (Bohème)" [in Czech, French summary]. *Acta Soc. Ent. Českosloveniae*, vol.48: pp.86-89. 1 Sept. 1951. Records 17 spp. and their distribution in Bohemia. [J.M.]
- Komárek, Oldřich, "*Zygaena lata* Hb. et sa répartition en Bohême (Zygaenidæ)" [in Czech, French summary]. *Acta Soc. Ent. Českosloveniae*, vol.48: pp.179-181. 15 Dec. 1951. Information on this sp. in Bohemia. [J.M.]
- Králíček, Milan, "Hřbetozubec *Odontosis sieversi* Mén. a jeho výskyt na Uherskohradištsku" [in Czech]. *Acta Soc. Ent. Českosloveniae*, vol.49: pp.240-241. 15 Dec. 1952. New record from district Uherské Hradiště (S.E. Moravia). [J.M.]