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A SELECTED BIBLIOGRAPHY OF THE COCCOIDEA

First Supplement

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A SELECTED BIBLIOGRAPHY OF THE COCCOIDEA

First Supplement

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This first supplement to "A Selected Bibliography of the Coccoidea" (U.S. Department of Agriculture Misc. Pub. 734, 1957) cites the important coccid literature that appeared between January 1, 1956, (the closing date of the original publication) and December 31, 1962. In addition, this supplement includes several earlier papers that were omitted in the original publication but that now appear to be potentially significant.

The format of the supplement follows that outlined in the introduction to the original bibliography.

Although most of the references in both the original bibliography and this supplement relate to various phases of coccid taxonomy, papers published in certain special fields are also included in both. Those in this supplement may be classified as follows:

(a) Papers dealing primarily with coccid anatomy, both external and internal. Baccetti 1961, Beardsley 1960, Bustshik 1958, Ezzat 1956a, Ghauri 1962, Giliomee 1961, Latif and Chaudhry 1956, 1956a, Latif and Khan 1959, 1959a, 1960, Latif and Saeed 1959, Theron 1958.

(b) Papers dealing primarily with coccid cytology. Bennett and Brown 1958, Brown 1957, 1958, 1958a, 1959, 1960, 1961, Brown and Bennett 1957, Brown and DeLotto 1959, Brown and McKenzie 1962, Brown and Nelson-Rees 1961, Hughes-Schrader 1955, 1957, Nelson-Rees 1959, 1960, 1961, Tremblay 1958, 1959, 1960, 1960a, White 1957.

¹ Deceased.

(c) Papers dealing primarily with coccid histology. Ali 1959, Ezzat 1956, Giacchino 1955, Lower 1957, Misra and Rao 1960, Rota 1955, Tremblay 1958.

(d) Paper including information on the preparation of coccids for study. Wilkey 1962.

(e) Papers on coccid symbionts. Buchner 1956, 1957, 1957a, 1957b, 1960, Steinhaus 1955.

AGARWALA, S. B. D.

- 1956 MELANASPIS GLOMERATA (GREEN)—A NEW COCCID PEST OF SUGARCANE.—
Bihar Acad. Agr. Sci. Proc. 5: 24-31, illus.
Redescribed; transferred to *Melanaspis*; economic importance and
control.

ALI, S. M.

- 1957 A NOTE ON THE PAIRING HABITS OF PSEUDOCOCCUS VASTATOR MASK.
Indian Jour. Ent. 18: 469-471, illus.
- 1958 COMMON SUGARCANE MEALY BUGS IN BIHAR (COCCIDAE: HEMIPTERA).
Indian Jour. Sugarcane Res. and Devlpmt. 2: 179-183, illus.
Behavior, life cycle, and morphology of *Ripersia sacchari*, *Saccharicoccus
sacchari*, and *Pseudococcus saccharifolii*; the last considered distinct
although previously synonymized.
- 1959 FEMALE REPRODUCTIVE SYSTEM OF PSEUDOCOCCUS VASTATOR (HEMIPTERA:
PSEUDOCOCCIDAE). Indian Jour. Ent. 20: 142-146, illus.
Gross and histological description.

ALIMDZHANOV, R. A., and BRONSHEIN, T. G.

- 1956 [INVERTEBRATE ANIMALS OF THE ZERAVSHAN BASIN.] (In Russian.)
Tashkent, Akad. Nauk Uzbek. 348 p., illus. Coccida p. 148-153.
Lists 59 species of coccids in 7 families with hosts.

ALKAN, B., see Balachowsky, A. S., and Alkan, B.

ALTUM, B.

- 1852 INSECTEN. CH. VII. ORDNUNG. HALBFLÜGLER, HEMIPTERA. 2. FAMILIE.
COCCINA, SCHILDLAÜSE. Forstzoologie 3 (pt. 2): 361-370, illus.
Brief discussion of several species; includes name "*frazini*" for a coccid
described from ash under heading "*Aspidiotus* sp."

ANDRESEN, J. W.

- 1957 PHENACASPIS HETEROPHYLLAE COOLEY IN NEW JERSEY. N.Y. Ent. Soc.
Jour. 65: 81-84.
Notes collection in New Jersey; reviews and presents presently known
information on hosts and distribution.

ARORA, G. L., and NATH, S.

- 1960 BIOLOGY AND LIFE OF PERISSOPNEUMON TECTONAE (MORRISON) (COCCOIDEA: HOMOPTERA). Punjab Univ. Res. Bul. (n.s.) 2: 127-139, illus.
Also includes descriptive information.

ATALLAH, Y. H., see Habib, A., Ezzat, Y. M., and Atallah, Y. H.

BACCETTI, B.

- 1960 LE COCCINIGLIE ITALIANE DELLE CUPRESSACEAE. Redia 45 (ser. 2): 23-111, illus.
Accepts genus *Carulaspis* and 3 species for Italy: *visci* (Schr.), *carueli* (Sign.) [non Targ.] (with *minima* Targ. as a syn.), and *juniperi* Bouché; detailed descriptions and life histories in Italy of *carueli* and *juniperi*; with discussion of natural enemies and other controls.

BACCETTI, B.—Continued.

- 1961 I TUBI MALPIGHIANI NELLA FEMMINA ADULTA DEI DIASPINI (HEMIPTERA OMOPTERA COCCOIDEA). 11th Internat. Kong. f. Ent., Wien, 1 (1960): 752-758, illus.

Discussion of diaspidine malpighian tubules on basis of critical study of organs of *Carulaspis carueli*.

BACHMAN, F.

- 1956 BEITRAG ZUR KENNTNIS DER JUGOSLOVISCHEN SCHILDLAUS-FAUNA. 2. MITTEILUNG. Biol. Glasnik 8 (1955): 99-102, illus.
Diaspidiotus slovenicus n. sp.

BAETA NEVES, C. M.

- 1954 A ENTOMAFUNA "EXOTICAS" EM PORTUGAL. Portugaliae Acta Biol. 4 (ser. B): [191]-196.
Lists 22 nonindigenous coccids under hosts involved.

BALACHOWSKY, A. S.

- 1956 LES COCHENILLES DU CONTINENT AFRICAÏN NOIR. V. 1 - ASPIDIOTINI (IÈRE PARTIE). Mus. Roy. du Congo Belge [Tervuren] Ann. (n.s.) Sci. Zool. 3: 1-142, illus.

Critical taxonomic treatment: Keys to subfamilies, tribes, and subtribes; Aspidiotina genera *Abgrallaspis* through *Temnaspidiotus*. *Diclavaspis* n. gen.; *Aspidiotus destructor*, *congolensis*, *fularum*, *paolii*, *remaudierei*, *taverdetti*; *Hemiberlesia lottoi*, *Morganella pseudospinigera* n. spp.

- 1956a SUR UN PARAEPIDIASPIS BALACH. (COCCOIDEA-DIASPIDINI) NOUVEAU DÉCOUVERT PAR F. SILVESTRI DANS LE RÉGION DE BENGHAZI (CYRENAÏQUE). Portici Lab. di Zool. Gen. e Agr. "Filippo Silvestri" Bol. 33: 564-569, illus.
P. silvestri n. sp.

- 1957 SUR DEUX DIASPIDINAE NOUVEAUX DU THAÏLAND (COCCOIDEA). Tijdschr. v. Ent. 100: 29-34, illus.
Unaspis rousseti, *Sishanaspis templorum* n. spp.

- 1957a SUR UN NOUVEAU GENRE ABERRANT DE COCHENILLE RADICOLE MYRMÉCOPHILE NUISABLE AU CAFÉIER EN COLOMBIE. Rev. de Path. Veg. et d'Ent. Agr. de France 36: 157-164, illus.
Chavesia caldasiae n. gen. and n. sp.

- 1957b OBSERVATIONS BIOLOGIQUE ET SYSTEMATIQUES SUR LA COCHENILLE DE L'ANANAS (*DYSMICOCOCUS BREVIPES* CKLL.) A LA MARTINIQUE. Rev. de Path. Veg. et d'Ent. Agr. de France 36: [189]-197, illus.
Biologic and systematic study with redescription of *D. brevipes* (Ckll.).

- 1957c LES COCHENILLES DE LA GUADELOUPE ET DE LA MARTINIQUE (PREMIÈRE LISTE). Rev. de Path. Veg. et d'Ent. Agr. de France 36: [198]-208, illus.
Records 22 *Diaspididae*, including *Odonaspis bernardi* n. sp.; 14 *Lecanidae*; 2 *Margarodidae*.

- 1958 SUR L'ORIGINE ET LA NOCIVITÉ DES INSECTES NUISABLES AUX PLANTES CULTIVÉES DANS LES OASIS DU SAHARA FRANCAIS. Institut de Recherches Sahariennes de l'Université d'Alger. Mission Scientifique au Tassili des Ajjer (1949). Mém. t. 3, Zoologie Pure et Appliquée, p. [7]-29, illus.
Several coccids discussed.

- 1958a LES COCHENILLES DU SAHARA FRANCAIS. IÈRE PARTIE. Institut de Recherches Sahariennes de l'Université d'Alger. Mission Scientifique au Tassili des Ajjer (1949). Mém. t. 3, Zoologie Pure et Appliquée, p. [31]-53.

Lists 44 coccids in systematic sequence with collection data; same species grouped as to biogeographic origins.

BALACHOWSKY, A. S.—Continued.

- 1958b LES COCHENILLES DU CONTINENT AFRICAÏN NOIR. V. 2 - ASPIDIOTINI (2^{me} PARTIE), ODONASPIDINI AND PARLATORINI. Mus. Roy. du Congo Belge [Tervuren] Ann. (n.s.) Sci. Zool. 4: 149-356, illus.

Detailed taxonomic treatment with keys for *Aspidiotina* (2d pt.), remaining Aspidiotini tribes and genera, Odonaspidini, Parlatorini: *Dynaspidiotus andersoni*, *Lindingaspis tomarum*, *williamsi*, *Aonidia relicta* n. spp.

- 1959 NUEVAS COCHINILLAS DE COLOMBIA. Acad. Colombiana Cien. Exact. Fis. y Nat. Rev. 10: 337-361, illus.
Mammicoccus, *Calicoccus* n. gen.; 13 new species; 19 species recorded altogether.

- 1959a OTRAS COCHINILLAS NUEVAS DE COLOMBIANA. Acad. Colombiana Cien. Exact. Fis. y Nat. Rev. 10: 362-366, illus.
Lists 23 species collected and identified by author, including *Eriococcus valenzuelae* and *popayanensis* n. spp.

- 1959b SUR UN NOUVEL ASPIDIOTINI (COCCOIDEA) DE L'IRAN. Rev. de Path. Veg. et d'Ent. Agr. de France 38: 211-212, illus.
Abgrallaspis kaussarii n. sp.

See also Davatchi, A. G., and Balachowsky, A. S.

BALACHOWSKY, A. S., and ALKAN, B.

- 1956 SUR UN ACANTHOMYTILUS BORKH. (COCCOIDEA-DIASPIDINI) NOUVEAU VIVANT SUR CÈDRE DANS LES MONTAGNES DE TURQUIE. Soc. Roy. d'Ent. de Belg. Bul. et Ann. 92 (XI-XII): 319-323, illus. Also in Bitki Koruma Bul. 1 (1960): 35-38, illus.
A. cedricola n. sp.

BALACHOWSKY, A. S., and KAUSSARI, M.

- 1955 CONTRIBUTION À L'ÉTUDE DE LA FAUNE PRIMITIVE DES ARBRES FRUITIERS DANS LEUR BIOTOPE ANCESTRAL. SUR UN COCCOIDEA-DIASPIDINI NOUVEAU NUISIBLE À L'ABRICOTIER CULTIVÉ EN IRAN. Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 14: 298-305, illus.
Voraspsis adlei n. sp.

BARTLETT, B. R.

- 1960 BIOLOGICAL RACES OF THE BLACK SCALE, SAISSETIA OLEAE, AND THEIR SPECIFIC PARASITES. Ent. Soc. Amer. Ann. 53: 383-385.
Race distinctive in biological but not in systematic characters found in California.

BEARDSLEY, J. W.

- 1955 FLUTED SCALES AND THEIR BIOLOGICAL CONTROL IN UNITED STATES ADMINISTERED MICRONESIA. Hawaii. Ent. Soc. Proc. 15 (1954): 391-399.
Icerya aegyptiaca, *seychellarum* involved; *I. purchasi* records considered erroneous.

- 1957 TRIONYMUS ROSTELLUM LOBDELL IN HAWAII (HOMOPTERA-PSEUDOCOCCIDAE). Hawaii. Ent. Soc. Proc. 16 (1956): 209-211.
Widespread in Hawaii; previously misidentified as *T. insularis*.

- 1957a THE GENUS PEDRONIA GREEN IN HAWAII, WITH DESCRIPTIONS OF NEW SPECIES (HOMOPTERA: PSEUDOCOCCIDAE). Hawaii. Ent. Soc. Proc. 16 (1956): 218-231, illus.
Key to 5 known Hawaiian species, including *P. cibotii*, *crypta*, *dura*, *acanthocauda* n. spp.

- 1959 NOTES AND EXHIBITIONS. Hawaii. Ent. Soc. Proc. 17 (1958): 10-11.
Clarifies identity of Hawaiian *Geococcus* as *coffea*.

- 1959a ON TAXONOMY OF PINEAPPLE MEALYBUGS IN HAWAII, WITH A DESCRIPTION OF A PREVIOUSLY UNNAMED SPECIES (HOMOPTERA: PSEUDOCOCCIDAE). Hawaii. Ent. Soc. Proc. 17 (1958): 29-37, illus.
Dysmicoccus neobrevipes n. sp.

BEARDSLEY, J. W.—Continued.

1959b NEW SPECIES AND NEW RECORDS OF ENDEMIC HAWAIIAN MEALYBUGS (HOMOPTERA: PSEUDOCOCCIDAE). *Hawaii. Ent. Soc. Proc.* 17 (1958): 38-55, illus.

Pseudococcus dorsispinosus [homonym of *dorsospinosus* Wirjati 1958], *lycopodii*, *peleae*, *syzgiai*, *Trionymus multiductus* n. spp.

1960 A PRELIMINARY STUDY OF THE MALES OF SOME HAWAIIAN MEALYBUGS (HOMOPTERA: PSEUDOCOCCIDAE). *Hawaii. Ent. Soc. Proc.* 17 (1959): [199]-243, illus.

Detailed description of *Pseudococcus adonidum* male; morphological descriptions and key to 30 Hawaiian male pseudococcids.

1962 DESCRIPTIONS AND NOTES ON MALE MEALYBUGS (HOMOPTERA: PSEUDOCOCCIDAE). *Hawaii. Ent. Soc. Proc.* 28 (1961): 81-98, illus.

Descriptions of 6 mealybug males, with added comment on probable significance of these for classification of Pseudococcidae.

BEARDSLEY, J. W., and TUTHILL, L. D.

1959 ADDITIONS TO THE KNOWN INSECT FAUNA OF NIHAU. *Hawaii. Ent. Soc. Proc.* 17 (1958): 56-61.

Lists 10 Diaspididae with hosts.

BECCARI, F.

1959 ENTOMOFAUNA PERSIANA: PRIMO ELENCO DI INSETTI NOCIVI. *Riv. di Agr. Subtrop. e Trop.* 53: [67]-93.

Lists 45 coccids with host and other data.

BEKKER-MIGDISOVA, E. E.

1959 SOME NEW REPRESENTATIVES OF THE STERNORHYNCHA FROM THE PERMIAN AND MESOZOIC OF THE USSR. (In Russian.) *Mater. k Osnovam Paleontol.* 3: 104-116, illus.

Mesococcus asiatica n. gen. and n. sp., fossil mealybug.

BENASSY, C.

1958 INFLUENCE DE L'ACCOUPLLEMENT ET DE LA FÉCONDATION SUR LA DIFFÉRENCIATION DU SEXE ET LA FORMATION DU BOUCLIER PROTECTEUR CHEZ PSEUDAULACASPIS PENTAGONA TARG. (HOMOPTERA DIASPIDINAE). *Acad. des Sci., Paris, Compt. Rend. Hebd. des Séances* 246 (4): 649-652.

Discusses effects of impregnation on future development of eggs and scale cover.

BENNETT, F. D., and BROWN, S. W.

1958 LIFE HISTORY AND SEX DETERMINATION IN THE DIASPINE SCALE, PSEUDAULACASPIS PENTAGONA (TARG.) (COCCOIDEA). *Canad. Ent.* 90: [317]-324.

Minimum 36-40 day life cycle; coral ♀ eggs laid first, then pink ♂ eggs; mating necessary for egg laying; sex determination haplodiploid.

BERRY, P. A.

1959 ENTOMOLOGICA ECONOMICA DE EL SALVADOR. *Serv. Coop. Agr. Salvadoreño Amer. Bol. Téc.* 24, 255 p., illus.

Lists 39 injurious coccids with plants attacked.

BERRY, P. A., and SALAZAR VAQUERO, M.

1957 LISTA DE INSECTOS CLASIFICADOS DE EL SALVADOR. *Serv. Coop. Agr. Salvadoreño Amer. Bol. Téc.* 21, 134 p.

Reports 23 coccids from El Salvador.

BHASIN, G. D., and ROONWAL, M. L.

1954 LIST OF INSECT PESTS OF FOREST PLANTS IN INDIA AND THE ADJACENT COUNTRIES. PT. 2. LIST OF INSECT PESTS OF PLANT GENERA 'A' (ABERIA TO AZIMA). *Indian Forest Bul. (n.s.) Ent.* 171 (1), p. 5-93. Numerous records for coccids under host plants without detailed localities.

- BHASIN, G. D., ROONWAL, M. L., and SINGH, B.
 1958 LIST OF INSECT PESTS OF FOREST PLANTS IN INDIA AND THE ADJACENT COUNTRIES. PT. 3. LIST OF INSECT PESTS OF PLANT GENERA 'A' (APPENDIX ONLY), 'B' (BACCAUREA TO BUXUS) AND 'C' (IN PART) (CADABA TO CITRUS). Indian Forest Bul. (n.s.) Ent. 171 (2), 126 p. Numerous records for coccids under host plant without detailed localities.
 (For continuation of this series, see Mathur, R. N., and Singh, B.)
- BIBBY, F. F.
 1961 NOTES ON MISCELLANEOUS INSECTS OF ARIZONA. Jour. Econ. Ent. 54: 324-333. Coccoidea p. 330.
 Lists 18 coccids with collection data.
- BIEZANKO, C. M., and SETA, F. D.
 1939 CATALOGO DOS INSETOS ENCONTRADOS EM RIO GRANDE E SEUS ARREDORES. FASCICULO 2. HOMOPTERA. Pelotas. Contribuição ao Conhecimento da Fisiografia do Rio Grande do Sul. 8 p.
 Reports 36 coccids in 23 genera with host associations.
- BODENHEIMER, F. S.
 1928 EINE KLEINE COCCIDEN-AUSBEUTE AUS GRIECHENLAND. Konowia 7: [191]-192.
 List of 25 coccids collected in Greece, including *Ezaeraetopus hellenicus* Green n. sp.
- BODENHEIMER, F. S., and HARPAZ, A.
 1951 HOLOMETABOLIC DEVELOPMENT IN THE MALES OF COCCOIDEA. Israel Res. Council Bul. 1: 133-135, illus.
 Male stage of Coccoidea, as exemplified by *Aspidiotus hederae*, shows definite holometabolic development.
- BODENHEIMER, F. S., and NEUMARK, S.
 1955 THE ISRAEL PINE MATSUCOCCUS (*MATSUCOCCUS JOSEPHI* NOV. SPEC.). (In English, p. [I]-XIX in Hebrew.) Jerusalem, Keren Kayemeth le Israel Afforestation Dept. 122 p., illus.
 Summary review of *Matsucoccus*; description of *M. josephi* Bod. and Harpaz n. sp.; distribution, life history, and damage caused in Israel; natural enemies and suggested control measures.
- BORATYNSKI, K.
 1957 ON THE TWO SPECIES OF THE GENUS CARULASPIS MACGILLIVRAY (HOMOPTERA: COCCOIDEA, DIASPIDIN) IN BRITAIN. Ent. Monthly Mag. 93: 246-251, illus.
C. juniperi (Bouché) and *minima* (Targ.-Tozz.).
- 1958 A NOTE ON OVATICOCCUS AGAVIUM (DOUGLAS) (HOMOPTERA: COCCOIDEA: ERIOCOCCIDAE) AND ON THE GENUS OVATICOCCUS GENERALLY. Roy. Ent. Soc., London, Proc. Ser. A: Gen. Ent. 27: 173-182, illus.
 Genus redefined; 9 included species listed; detailed description of genotype.
- 1959 A NOTE ON LOPHOLEUCASPIS COCKERELLI (GRANDPRÉ AND DECHARMOY, 1899) (DIASPIDIDAE, COCCOIDEA, HOMOPTERA). Ent. Monthly Mag. 95: 193-197, illus.
 Species redescribed.
- 1961 A NOTE ON THE SPECIES OF ASTEROLECANIUM TARGIONI-TOZZETI, 1869 (HOMOPTERA, COCCOIDEA, ASTEROLECANIDAE) ON OAK IN BRITAIN. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 30: 4-14, illus.
 Careful redescriptions, biological and morphological notes, life history, key to adult females, and first-instar nymphs of *A. variolosum*, *quercicola*, and *minus*.
- 1962 A NEW SPECIES OF ACANTHOCOCCUS SIGNORET, 1875 (ERICOCCIDAE COCCOIDEA, HOMOPTERA) FROM BRITAIN. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 31: 55-60, illus.
A. munroi n. sp.

BORCHSENIUS, N. S.

- 1947 TWO NEW GENERA OF MEALYBUGS AND A NEW SPECIES OF ARMORED SCALE (HOMOPTERA: COCCOIDEA) FROM ARMENIA. (In Russian.) Akad. Nauk Armianskoi SSR Dok. 7: 141-143.
Mirococcus, *Elizabetiella* n. gen.; *Lepidosaphes malicola* n. sp.
- 1949 IDENTIFICATION OF THE SOFT AND ARMORED SCALES OF ARMENIA. (In Russian.) Erevan, Akad. Nauk Armianskoi SSR Izd. 271 p., illus. Essentially an identification handbook, presenting mostly in key arrangements much information about the coccids of Armenia.
- 1956 COCCID FAUNA OF CHINA. 1. MEALYBUGS INJURIOUS TO CITRUS (COCCOIDEA: PSEUDOCOCCIDAE). (In Chinese, Russian summary.) Acta Ent. Sinica 6: [101]-105, illus.
Reports 4 pseudococcids from China; key (in Chinese) to 16 citrus mealybugs.
- 1956a REVIEW OF THE PALEARCTIC SCALE-INSECTS OF THE GENUS ERIOPELTIS SIGN. (HOMOPTERA, COCCOIDEA). (In Russian.) Ent. Obozr. 35: [397]-420, illus.
Review and key to 20 species, with 16 described as new.
- 1956b NOTES ON THE COCCOIDEA OF KOREA. (In Russian, English summary.) Ent. Obozr. 35: [671]-679, illus.
Geococcus unimaculatus, *Heliococcus herbaceus*, *glycinicola*, *Antonina vera*, *Greenisca orientalis* n. spp.; brief comments on other described species.
- 1956c THE QUESTION OF THE COURSE OF EVOLUTION OF COCCOIDEA (INSECTA, HOMOPTERA). (In Russian.) Zool. Zhur. 35: 546-553, illus. English summary in Zool. Zhur. Sup. 35: 3.
Presentation of author's views on coccid phylogeny.
- 1956d CONTRIBUTION TO THE QUESTION OF THE SPECIES COMPOSITION OF SCALE INSECTS HARMING CITRUS IN ISRAEL (INSECTA, COCCOIDEA). (In Russian.) Zool. Zhur. 35: 863-867, illus.
Brief discussion; key to 16 mealybugs.
- 1957 FAUNA OF USSR, HOMOPTERA, COCCIDAE. (In Russian.) Akad. Nauk Zool. Inst. (n.s. 66) 9, 493 p., illus.
Complete classificatory review of the Coccidae [s. str.] of USSR, including keys and descriptions for 37 genera and 194 species (6 new).
- 1958 NOTES ON THE COCCOIDEA OF CHINA. 2. DESCRIPTIONS OF SOME NEW SPECIES OF PSEUDOCOCCIDAE, ACLERIDAE AND DIASPIDIDAE (HOMOPTERA, COCCOIDEA). (In Russian, English summary.) Ent. Obozr. 37: [156]-173, illus.
Reports 10 new species.
- 1958a CONTRIBUTION TO THE COCCID FAUNA OF CHINA. 3. SOME NEW SPECIES OF LEPIDOSAPHINI OF COCCID FAUNA OF CHINA (HOMOPTERA, COCCOIDEA). (In Chinese, Russian summary.) Acta Ent. Sinica 8: 168-173, illus.
Lepidosaphes conchiformioides, *cupressi*, *pineti*, *piniphilus*, *salicina*, *Andaspis micropori* n. spp.
- 1958b ON THE EVOLUTION AND PHYLOGENETIC INTERRELATIONS OF THE COCCOIDEA (INSECTA HOMOPTERA). (In Russian, English summary.) Zool. Zhur. 37: 765-780, illus.
Full discussion of author's views on development of now existing coccoid groups; phylogenetic chart.
- 1958c A NEW SPECIES OF COMMA SCALE OF THE GENUS ACANTHOMYTIUS BORCHS. (HOMOPTERA, COCCOIDEA) IN THE REPUBLICS OF MIDDLE ASIA. (In Russian.) Akad. Nauk Tadzhikskoi SSR Dok. 1: 45, 46, illus.
A. spinosus n. sp.

BORCHSENIUS, N. S.—Continued.

- 1959 CONTRIBUTION TO COCCID FAUNA OF CHINA. 6. DESCRIPTIONS OF NEW GENERA AND SPECIES OF COCCIDS OF THE FAM. ERIOCOCCIDAE AND COCCIDAE (SCIENTIFIC RESULTS OF THE CHINESE-SOVIET EXPEDITIONS OF 1955-1957 IN SOUTHWESTERN CHINA). (In Russian, English summary.) Ent. Obozr. 38: [164]-175, illus.
Physeriococcus cellulosa, *Dicyphococcus bigibbus*, *ficicola*, *Mitrococcus celsus* n. gen. and n. spp.; *Luzulaspis crassipina*, *Eulecanium nigrivitta* n. spp.
- 1959a NOTES ON COCCID FAUNA OF CHINA. 7. A NEW FAMILY OF SOFT SCALES - LECANIODIASPIDIDAE, FAM. N. (HOMOPTERA, COCCOIDEA). (In Russian, English summary and keys.) Ent. Obozr. 38: [840]-846, illus.
Also *Psoraleococcus verrucosus*, *costatus*, *Cosmococcus erythrinae*, *euphorbiae* n. gen. and n. spp.
- 1959b CONTRIBUTION TO THE COCCID FAUNA OF CHINA. 8. DESCRIPTION OF ONE GENUS AND TWO NEW SPECIES OF ARMORED SCALES OF THE FAMILY DIASPIDIDAE (HOMOPTERA, COCCOIDEA). (In Russian, English summary.) Zool. Zhur. 38: 1821-1824, illus.
Neopinnaspis miduensis, *Acanthomytilus cypericola* n. spp.
- 1960 A NEW GENUS OF SOFT SCALES OF THE FAMILY MARGARODIDAE (INSECTA, HOMOPTERA, COCCOIDEA) FAUNA USSR. (In Russian, English summary.) Zool. Zhur. 39: 144.
Parakuwania n. gen.
- 1960a A NEW SPECIES OF THE GENUS ACANTHOCOCCUS SIGN. (HOMOPTERA, COCCOIDEA) FROM KAZAKHSTAN. (In Russian.) Akad. Nauk Kazakhskoi SSR Inst. Zool. Trudy 11: [193]-195, illus.
A. ribesiae n. sp.
- 1960b CONTRIBUTION TO THE COCCID FAUNA KNR [CHINESE PEOPLES REPUBLIC]. 4. HARD AND SOFT SCALES, HARMFUL FRUIT AND GRAPE CULTURE IN NORTHEAST AND EAST KNR. (In Chinese, brief Russian note.) Acta Ent. Sinica 10: [214]-218.
Treats 15 species; key.
- 1960c NEW GENUS OF MEALYBUGS FROM TADZHISKITAN (INSECTA, HOMOPTERA, COCCOIDEA). (In Russian.) Akad. Nauk Tadzhijskoi SSR Dok. 3: 47-49, illus.
Caulococcus n. gen.
- 1960d FAUNA OF USSR, HOMOPTERA, KERMOCOCCIDAE, ASTEROLECANIIDAE, LECANIODIASPIDIDAE, ACLERIDAE. (In Russian.) Akad. Nauk SSR Zool. Inst. (n.s. 77) 8, 282 p., illus.
Complete classificatory review of *Kermococcidae*, *Asterolecaniidae*, *Lecaniodiaspididae*, *Acleridae* of USSR, including recognition keys and descriptions for 22 genera (3 new) and 100 species (29 new).
- 1960e COCCID FAUNA OF CHINA. 9. NEW SOFT SCALES OF THE FAMILIES MARGARODIDAE, ERIOCOCCIDAE AND PSEUDOCOCCIDAE (HOMOPTERA, COCCOIDEA). (In Russian, English summary and keys.) Ent. Obozr. 39: [914]-938, illus.
Describes 6 new genera, 9 new species; revision of the genus *Pseudantonina* and key to related genera.
- 1961 A NEW SPECIES OF DIASPIDIDAE (HOMOPTERA, COCCOIDEA) FROM THE UNITED ARAB REPUBLIC. (In Russian, English summary.) Zool. Zhur. 40: 141-143, illus.
Lineaspis thelophora n. sp.
- 1961a CORRECTION. Ent. Obozr. 40: 252.
Lepidosaphes foliicola n. name for *L. cupressi* Borchs. 1958, Acta Ent. Sinica 8: 169, 175.

BORCHSENIUS, N. S.—Continued.

- 1961b THE PROCESSES OF OLIGOMERIZATION AND POLYMERIZATION IN COCCOIDEA (HOMOPTERA, INSECTA). (In Russian, English summary.) Zool. Zhur. 40: 1597-1610, illus.
Discussion of evolutionary trends of modifications of morphological structures present in various coccoid groups.
- 1961c SOME DATA ON THE GENERIC CLASSIFICATION OF COCCOIDEA OF THE FAMILY ASTEROLECANIIDAE (HOMOPTERA, COCCOIDEA). 11th Internatl. Kong. f. Ent., Wien, 1 (1960): 63-65.
Summary of views on associations of genera in family.
- 1962 NOTES ON COCCID FAUNA OF CHINA. 10. DESCRIPTIONS OF SOME NEW SPECIES OF PSEUDOCOCCIDAE (HOMOPTERA, COCCOIDEA). (In Russian, English summary.) Ent. Obozr. 41: [583]-595, illus.
Describes 6 new Yunnan pseudococoids in 4 genera; key to 5 *Planococcus* species.
- 1962a NOTES ON THE COCCOIDEA OF CHINA. 11. NEW GENERA AND SPECIES OF MEALYBUGS FAM. PSEUDOCOCCIDAE (HOMOPTERA, COCCOIDEA). (In Russian.) Akad. Nauk SSSR Zool. Inst. Trudy 30: [221]-244, illus.
Presents 5 new genera and 14 new species of Chinese pseudococoids distributed in 3 tribes.
- 1962b DESCRIPTIONS OF SOME NEW GENERA AND SPECIES OF DIASPIDIDAE (HOMOPTERA, COCCOIDEA). (In Russian, English summary.) Ent. Obozr. 41: [861]-871, illus.
Paralepidosaphes, *Cupressaspis* n. gen.; 6 new species.
- BORCHSENIUS, N. S., and BUSTSHIK, T. N.
1959 CONTRIBUTION TO THE COCCID FAUNA OF CHINA. 5. NEW GENUS AND SPECIES OF FAM. PHOENICOCOCCIDAE (HOMOPTERA, COCCOIDEA) FROM PROVINCE OF SZECHWAN. (In Russian, English summary.) Ent. Obozr. 38: [160]-163, illus.
Protancepaspsis bidentata n. sp.
- BORCHSENIUS, N. S., and TEREZNIKOVA, E. M.
1959 TWO NEW SPECIES OF MEALY BUGS OF THE GENUS RHIZOECUS KÜNCK. (COCCOIDEA, PSEUDOCOCCIDAE) OF THE UKRAINIAN FAUNA. (In Ukrainian, Russian and English summaries.) Akad. Nauk Ukrain-skoï SSR Dopovidi 3: 322-325, illus.
R. pratensis, *uniporus* n. spp.
- 1959a TWO NEW SPECIES OF MEALY BUGS OF THE GENUS HELIOCOCCUS SULC (INSECTA, HOMOPTERA, COCCOIDEA). (In Russian, English summary.) Zool. Zhur. 38: 491-494, illus.
H. pavlovskii, *slavonicus* n. spp.
- BORCHSENIUS, N. S., and TER-GRIGORIAN, M. A.
1956 MEALY BUGS PARASITIZING WHEAT AND OTHER GRAINS IN ARMENIAN SSR. (In Russian.) Akad. Nauk Armianskoï SSR Izv. Biol. i Sel'sk. Nauk 9: [17]-27, illus.
Euripersia brevispina, *Phenacoccus karaberdî*, *tergrigorianae*, *Peliococcus unispinus*, *unitubulus* n. spp.
- BORCHSENIUS, N. S., and WILLIAMS, D. J.
1962 ON TWO SPECIES OF FLORINA TARGIONI (HOMOPTERA: COCCOIDEA: DI-ASPIDIDAE) FROM PAKISTAN. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 31: 67-70, illus.
F. munroi n. sp., *distinctissima* (Newstead), *afchari* Bodenheimer a synonym of *distinctissima*.
- BRIMBLECOMBE, A. R.
1956 STUDIES OF THE COCCOIDEA. 4. NEW SPECIES OF ASPIDIOTINI. Queens-land Jour. Agr. Sci. 13: 107-122, illus. Also as Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 93, 16 p., illus.
Describes 8 new species in 4 genera.

BRIMBLECOMBE, A. R.—Continued.

1956a STUDIES OF THE COCCOIDEA. 5. THE GENUS CEROPLASTES IN QUEENSLAND. Queensland Jour. Agr. Sci. 13: 159-167, illus. Also as Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 95, 9 p., illus.

C. ceriferus, *destructor*, *floridensis*, *rubens*, with detailed host and distribution records.

1957 STUDIES OF THE COCCOIDEA. 6. NEW GENERA AND NEW SPECIES OF ASPIDIOTINI. Queensland Jour. Agr. Sci. 14: 261-291, illus. Also as Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 111, 31 p., illus.

Describes 15 new species and 7 new genera.

1958 STUDIES OF THE COCCOIDEA. 7. NEW DESIGNATIONS OF SOME AUSTRALIAN DIASPIDIDAE. Queensland Jour. Agr. Sci. 15: 59-94, illus. Also as Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 121, 36 p., illus.

Eulaingia, *Eugreeniella*, *Alioides* n. gen.; *Remotaspidotus* reinstated as valid; 14 new combinations.

1959 STUDIES OF THE COCCOIDEA. 8. THREE NEW GENERA AND SIXTEEN NEW SPECIES OF ASPIDIOTINI. Queensland Jour. Agr. Sci. 16: 121-156, illus. Also as Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 134, 36 p., illus.

Diaspidopus, *Diastolaspis*, *Neoclavaspis* n. gen.

1959a STUDIES OF THE COCCOIDEA. 9. NEW SPECIES OF APIOMORPHA FROM QUEENSLAND. Queensland Jour. Agr. Sci. 16: 157-162, illus. Also as Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 135, 6 p., illus.

A. amaroensis, *longiloba* n. spp.

1959b STUDIES OF THE COCCOIDEA. 10. NEW SPECIES OF DIASPIDIDAE. Queensland Jour. Agr. Sci. 16: 381-407, illus. Also as Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 150, 27 p., illus.

Describes 13 new species in 7 genera; *Doriopus* n. gen. [nomen nudum].

1960 STUDIES OF THE COCCOIDEA. 11. NEW GENERA AND SPECIES OF MONOPHLEBIDAE. Queensland Jour. Agr. Sci. 17: 183-193, illus. Also as Queensland Dept. Agr. and Stock, Div. Plant Indus. Bul. 167, 11 p., illus.

Araucariococcus queenslandicus, *Conifericoccus invaginatus*, *notabilis*, *agathidis* n. gen. and n. spp.

1960a ADDENDUM TO "STUDIES OF THE COCCOIDEA. 10. NEW SPECIES OF DIASPIDIDAE" BY A. R. BRIMBLECOMBE. Queensland Jour. Agr. Sci. 16: 381; 17: 193.

Doriopus n. gen. described.

BRONSHTEIN, T. G., see Alimdzhanov, R. A., and Bronshtein, T. G.

BROOKES, H. M.

1957 THE COCCOIDEA (HOMOPTERA) NATURALIZED IN SOUTH AUSTRALIA: AN ANNOTATED LIST. Roy. Soc. So. Austral. Trans. 80: 81-90.

Discusses local status of 27 introduced coccids.

BROWN, C. E.

1958 DISPERSAL OF THE PINE NEEDLE SCALE, PHENACASPIS PINIFOLIAE (FITCH) (DIASPIDIDAE: HOMOPTERA). Canad. Ent. 90: 685-690.

Wind dispersal most probable; distance traveled by ♀ nymphs 4 times that by ♂ nymphs.

1959 REPRODUCTION OF THE PINE NEEDLE SCALE PHENACASPIS PINIFOLIAE (FITCH) (HOMOPTERA: DIASPIDIDAE). Canad. Ent. 91: 529-535, illus.

Sexes occur in equal numbers; unfertilized females do not lay eggs or produce normal scales.

BROWN, S. W.

- 1957 CHROMOSOME BEHAVIOUR IN COMSTOCKIELLA SABALIS (COMST.) (COCCOIDEA-DIASPIDIDAE). (Abs.) Genetics 42: 362-363.
Genetic system seems to be a modification of lecanoid system.
- 1958 HAPLOIDY IN THE DIASPIDIDAE—CONFIRMATION OF AN EVOLUTIONARY HYPOTHESIS. Evolution 12: 115-116.
Brief discussion of subject.
- 1958a THE CHROMOSOMES OF AN ORTHEZIA SPECIES (COCCOIDEA-HOMOPTERA). Cytologia 23: 429-434, illus.
No sexual differences noted in chromosomes of a species of *praelonga* group.
- 1959 LECANOID CHROMOSOME BEHAVIOUR IN THREE MORE FAMILIES OF THE COCCOIDEA (HOMOPTERA). Chromosoma [Berlin] 10: 278-300, illus.
Chromosome behavior at spermatogenesis described for *Cerococcus quercus* Comst., *Conchaspis lepagei* Hempel, and *Tachardiella* sp.
- 1960 SPONTANEOUS CHROMOSOME FRAGMENTATION IN THE ARMORED SCALE INSECTS (COCCOIDEA-DIASPIDIDAE). Jour. Morph. (Wistar Inst. Anat. and Biol.) 106: 159-185, illus.
Discussion of subject indicated by title.
- 1960a CHROMOSOME ABERRATION IN TWO ASPIDIOTINE SPECIES OF THE ARMORED SCALE INSECTS (COCCOIDEA-DIASPIDIDAE). Nucleus [Calcutta] 3: [135]-160, illus.
Studies of *Aspidiotus cryptomeriae* Kuw. and *Tsugaspidotus pseudomeyeri* (Kuw.).
- 1961 FRACTURE AND FUSION OF COCCID CHROMOSOMES. Nature 191: 1419, 1420.
Discussion of subject indicated in title.

See also Bennett, F. D., and Brown, S. W.

BROWN, S. W., and BENNETT, F. D.

- 1957 ON SEX DETERMINATION IN THE DIASPINE SCALE PSEUDAULACASPIS PENTAGONA (TARG.) (COCCOIDEA). Genetics 42: 511-523, illus.
Males haploid, females diploid; other critical observations.

BROWN, S. W., and DeLOTTO, G.

- 1959 CYTOLOGY AND SEX RATIOS OF AN AFRICAN SPECIES OF ARMORED SCALE INSECT (COCCOIDEA-DIASPIDIDAE). Amer. Nat. 93: 369-379, illus.
Report on chromosome condition in *Aspidiotus simulans* DeL.

BROWN, S. W., and MCKENZIE, H. L.

- 1962 EVOLUTIONARY PATTERNS IN THE ARMORED SCALE INSECTS AND THEIR ALLIES (HOMOPTERA: COCCOIDEA: DIASPIDIDAE, PHOENICOCOCCIDAE, AND ASTEROLECANIIDAE). Hilgardia 33: [141]-170a, illus.
Discussion of probable phylogenetic relationships of various coccid groups and genera currently associated in Diaspididae and Phoenicococcidae.

BROWN, S. W., and NELSON-REES, W.

- 1961 RADIATION ANALYSIS OF A LECANOID GENETIC SYSTEM. Genetics 46: [983]-1007.
Confirms, through radiation treatment of parents, previous hypotheses respecting origin and subsequent development of differentiated chromosome sets.

BUCHNER, P.

- 1956 NEUE BEITRÄGE ZUR KENNTNIS DER COCCIDENSYMBIOSEN. Greifswald Univ. Wiss. Ztschr. 5: [267]-278, illus.
Report on recent work on coccid symbiosis.
- 1957 ENDOSYMBIOSESTUDIEN AN SCHILDLÄUSEN. 4. HIPPEOCOCCUS, EINE MYRMEKOPHILE PSEUDOCOCCINE. Ztschr. f. Morph. u. Ökol. Tiere 45: 379-410, illus.
Reports development of special area for reception of micro-organisms, but lack of any trace of these.

BUCHNER, P.—Continued.

1957a ENDOSYMBIOSESTUDIEN AN SCHILDLÄUSEN. 5. DIE GATTUNG RASTROCOCCUS FERRIS (CEROPUTO ŠULC). Ztschr. f. Morph. u. Ökol. Tiere 46: 111-148, illus.

Characterizes *R. pseudospinosus*, *balinensis*, *fransenii* n. spp. on basis of difference in symbionts.

1957b ENDOSYMBIOSESTUDIEN AN SCHILDLÄUSEN. 6. DIE NICHT IN SYMBIOSE LEBENDE GATTUNG APIOMORPHA UND IHRE UNGEWÖHNLICHE EMBRYONALENTWICKLUNG. Ztschr. f. Morph. u. Ökol. Tiere 46: 481-528, illus.

Describes embryological condition in 4 *Apiomorpha* species; reports absence of symbionts.

1960 TIERE ALS MIKROBENZUCHTER. Berlin, Springer Verlag. 160 p., illus. Refers to several coccids in general discussion of endosymbiosis in animals.

BUSTSHIK, T. N.

1958 A CONTRIBUTION TO THE COMPARATIVE MORPHOLOGY OF THE MALES OF THE SCALE INSECTS (HOMOPTERA, COCCOIDEA, DIASPIDIDAE). (In Russian.) Vsesoiuzn. Ent. Obschch. Trudy 46: [162]-269, illus.

General discussion of diaspidid male morphology; key to genera and species studied and detailed descriptions with illustrations of 43 species examined.

1960 COCCID FAUNA OF WESTERN KOPET-DAGH. (In Russian.) Akad. Nauk SSSR Zool. Inst. Trudy 27: [167]-182, illus.

Reports 33 species in 26 genera and 6 families; notes on biology, morphologic characters, and figures presented in cases of special interest.

BUSTSHIK, T. N., and SAAKIAN-BARANOVA, A. A.

1962 ON MALES OF COCCUS HESPERIDUM L. (HOMOPTERA, COCCOIDEA). (In Russian, English summary.) Ent. Obozr. 41: [334]-349, illus.

Detailed descriptions of all stages of male *C. hesperidum* L.; observations on life history of same.

See also Borchsenius, N. S., and Bustshik, T. N.

BUTCHER, F. G.

1959 A PRELIMINARY REPORT ON ARMORED SCALE INSECTS IN DADE COUNTY. Fla. State Hort. Soc. Proc. 71 (1958): 362-364.

Lists 36 armored scales with hosts; *Chortinaspis subchortina* new State record.

BYTINSKII-SALZ, H.

1961 MICROCOCCUS BODENHEIMERI NOV. SPEC. Israel Res. Council Bul. 10B: 90-96, illus.

Full description; comparisons with 4 other species of genus.

CANARD, M.

1958 DÉPLACEMENTS ET MIGRATIONS DE EULECANIUM CORNI BOUCHÉ. Soc. d'Hist. Nat. de Toulouse Bul. 92 (1957): 293-296, illus.

Biological study of movement and migration.

1958a RECHERCHES SUR LA MORPHOLOGIE ET LA BIOLOGIE DE LA COCHENILLE

EULECANIUM CORNI BOUCHÉ (HOMOPTÈRES-COCCOIDEAE). Ecole Natl. Super. Agron. [Toulouse] Ann. 6: 189-271, illus.

Full descriptions of most stages; detailed report on biology.

CANARD, M., and HURONI, R.

1959 ESSAI DE DÉTERMINATION BIOMETRIQUE DU SEXE DES LARVES HIVERNANTES DE LA COCHENILLE EULECANIUM CORNI. Soc. d'Hist. Nat. de Toulouse Bul. 94: 197-200.

Statistical treatment of first-stage larvae; does not appear taxonomically useful.

CANCELA DA FONSECA, J.

- 1956 CONTRIBUIÇÃO PARA O ESTUDO DO COCCUS HESPERIDUM L. 2 - SUBSIDIOS PARA O ESTUDO DA SUA BIOLOGIA E ECOLOGIA (CONT.) APPENDICE. Brotéria 25: 19-35.

Host plant list arranged by plant family (5 p.); résumé; bibliography.

CAPCO, S. R.

- 1959 A LIST OF PLANT PESTS OF THE PHILIPPINES WITH SPECIAL REFERENCE TO FIELD CROPS, FRUIT TREES AND VEGETABLES. Philippine Jour. Agr. 22 (1957): 3-80.

Lists 28 coccids.

CARILLO S., J. L., see Gibson, W. W., and Carillo S., J. L.

CARTER, W.

- 1960 A STUDY OF MEALYBUG POPULATIONS (DYSMICOCCUS BREVIPES (CKLL.)) IN AN ANT-FREE FIELD. Jour. Econ. Ent. 53: 296-299, illus.

Report on quantitative study.

CHADA, H. L., and WOOD, E. A.

- 1960 BIOLOGY AND CONTROL OF THE RHODES-GRASS SCALE. U.S. Dept. Agr. Tech. Bul. 1221, 21 p., illus.

Historical review and present status in United States; distribution, host plants, damage, description of stages, life history and habits, dispersion, and effects of climate and control.

CHATTERJI, R. N., see Roonwal, M. L., Raizada, M. B., Chatterji, R. N., and Singh, B.

CHAUDHRY, M. I., see Latif, A., and Chaudhry, M. I.

CHERIAN, M. C.

- 1942 PROCEEDINGS OF MEETING ON DEC. 14, 1942 OF ENT. SOC. OF INDIA - SOUTH INDIAN BRANCH. Madras Agr. Jour. 30: 435.

Ripersia oryzae Green [lapsus for *oryzae*] preyed on by *Anatrichus crionaccus*.

CHORBADZHIEV, P.

- 1939 SHORT NOTE ON SCALE INSECTS (COCCIDAE, RHYNCHOTA) IN BULGARIA. B'lgarsk. Ent. Druzh. Izv. 10: 88-90.

Reports 14 coccids.

CHOU, M., CHUNG, C., and WEI, H.

- 1953 COMPENDIUM OF AGRICULTURAL PESTS IN NORTH CHINA. (In Chinese.) Shanghai, Chung-Hua Book Co. Ed. 1, 274 p., illus. Coccidae p. 34-39.

Lists 40 coccids alphabetically, with brief associated data.

CHUNG, C., see Chou, M., Chung, C., and Wei, H.

COCKERELL, T. D. A.

- 1894w THE COCCIDAE FOUND ON IVY (HEDERA). Ent. News 5: 210-212.

Discusses 5 species reported from ivy; debates probability of identity of *Aspidiotus hederæ* (Vall.) of Signoret and *nerii* Bouché.

COHIC, F.

- 1958 CONTRIBUTION A L'ÉTUDE DES COCHENILLES D'INTERET ECONOMIQUE DE NOUVELLE-CALÉDONIE ET DEPENDANCES. Comm. du Pacifique Sud Doc. Tech. 116, 35 p.; app. 1, 1 p.; app. 2, 3 p.

Systematic list of 65 coccids; host plant list for same.

- 1958a CONTRIBUTION A L'ÉTUDE DES COCHENILLES DE NOUVELLE-CALÉDONIE (HOM.) (DESCRIPTION D'UNE NOUVELLE ESPÈCE DE LEUCASPIS). Soc. Ent. de France Bul. 63: 49-54, illus.

L. bugnicourti n. sp.

COHIC, F.—Continued.

- 1959 CONTRIBUTION A L'ÉTUDE DES COCHENILLES DE NOUVELLE-CALÉDONIE (HOM.) NEOCLAVICOCCUS FERRISI N. G., N. SP. ET NEOCLAVICOCCUS BUGNICOURTI N. SP. Soc. Ent. de France Bul. 64: 88-91, illus.

COMMITTEE ON COMMON NAMES OF INSECTS, J. L. Laffoon, chmn.

- 1960 COMMON NAMES OF INSECTS. Ent. Soc. Amer. Bul. 6: 175-211.
Pseudaulacaspis misspelled p. 191 as *Pseudodaulacaspis*.

COMPÈRE, H.

- 1961 THE RED SCALE AND ITS INSECT ENEMIES. Hilgardia 31: 278, illus.
Historical review of *Aonidiella aurantii* (Mask.) as pest; search for effective parasites detailed; control problems discussed.

COSTA, R. GOMES.

- 1958 ALGUNS INSECTOS E OUTROS PEQUENOS ANIMAIS QUE DANIFICAM PLANTAS CULTIVADAS NO RIO GRANDE DO SUL. Porto Alegre, Secc. de Inform. e Propag. Agr. Sec. da Agr. Bol. 172, 296 p., illus.
Presents 26 soft scales and 26 armored scales, with descriptive and biological notes.

CROWE, T. J.

- 1962 THE WHITE WAXY SCALE. Kenya Coffee 27: 93, 95, illus.
Descriptions with photographs, life history, etc., of *Ceroplastes brevicauda* Hall; *C. luteolus* DeLotto placed as synonym.

DALE, P. S.

- 1959 PEST CONTROL IN SAMOA. West. Samoa Dept. Agr., Forests, and Fisheries Laufasi Ola 4, 15 p.
Mealybugs as pests of cocoa; 16 coccids listed under plants attacked.

DANZIG, E. M.

- 1959 ON THE SCALE INSECT FAUNA (HOMOPTERA, COCCIDAE) OF THE LENINGRAD OBLAST. (In Russian, English summary.) Ent. Obozr. 38: [443]-455.
Reports 54 coccid species from Leningrad area; discusses host and other ecological relationships of each.

- 1959a CONCERNING THE BIOLOGICAL FORMS OF THE APPLE COMMA SCALE - LEPIDOSAPHES ULMI (L.) (HOMOPTERA, COCCOIDEA). (In Russian, English summary.) Zool. Zhur. 38: 879-886.
Reports on host associations and experimental transfers of bisexual and parthenogenetic forms of this species; appear well differentiated.

- 1960 SOME NEW AND LITTLE KNOWN MEALYBUGS (HOMOPTERA, COCCOIDEA, PSEUDOCOCCIDAE) FROM THE LENINGRAD REGION. (In Russian, English summary.) Ent. Obozr. 39: [172]-181, illus.
Boreococcus ingricus n. gen. and n. sp.; *Paroudablis vaccinii* n. sp.; *Spinococcus calluneti* (Ldgr.) and *Peliococcopsis parvicerarius* (Goux) redescribed.

- 1961 FOOD FORMS OF EULECANIUM FRANCONICUM (LNDGR.) (HOMOPTERA, COCCOIDEA). (In Russian, English summary.) Ent. Obozr. 40: [571]-576, illus.

Describes and otherwise differentiates 2 new plant-host associated forms of *Lecanium franconicum* Ldgr.: *calluneti* and *vaccinicola*.

- 1962 ADDITION TO THE SCALE INSECT FAUNA (HOMOPTERA, COCCOIDEA) OF THE LENINGRAD REGION. (In Russian.) Akad. Nauk SSSR Zool. Inst. Trudy 31: [22]-24, illus.

Rhizococcus herbaceus n. sp.; 2 other new records for this region.

- 1962a REVISION OF THE GENUS RHIZOCOCCUS SIGNORET (HOMOPTERA, COCCOIDEA) OF THE SSSR FAUNA. (In Russian, English summary.) Ent. Obozr. 41: [839]-860, illus.

R. confusus n. sp.; key to 13 species, distribution and host records for each.

DAVATCHI, A. G.

- 1958 ÉTUDE BIOLOGIQUE DE LA FAUNE ENTOMOLOGIQUE DES PISTACIA SAUVAGE ET CULTIVÉS. Rev. de Path. Veg. et d'Ent. Agr. de France 37: 166, illus. Coccoidea p. 38-48.

Lists, with brief comment and illustrations for some, 18 coccids reported on *Pistacia*; further brief comment on some of these with comparisons with other species.

DAVATCHI, A. G., and BALACHOWSKY, A. S.

- 1956 CONTRIBUTION A L'ÉTUDE DES INSECTES DES PISTACHIERS. 2. SUR UN DIASPIS TARG. (COCCOIDEA-DIASPIDINI) NOUVEAU VIVANT SUR PISTACIA KHINJUK DANS LE SUD-EST DE L'IRAN. Rev. de Path. Veg. et d'Ent. Agr. de France 35: 105-109, illus.

D. carmanicus n. sp.; 6 other species noted.

DAVIDSON, J. A., see McConnell, H. S., and Davidson, J. A.

DEBACH, P., and FISCHER, T. W.

- 1956 EXPERIMENTAL EVIDENCE FOR SIBLING SPECIES IN THE OLEANDER SCALE, ASPIDIOTUS HEDERAE (VALLOT). Ent. Soc. Amer. Ann. 49: 235-239. Reports on experiments with unisexual and bisexual "races" or populations that have both been identified as *A. hederae*; conclusion - "races" biologically distinct.

DECARY, R.

- 1954 AU SUJET DES COCHENILLES DU GENRE GASCARDIA. Nat. Malgache 6: [83]-84.

Discusses whether Madagascar *Gascardia* represents single variable or several closely related species.

DE LOTTO, G.

- 1956 NEW DIASPIDINI (HOMOPTERA: COCCOIDEA: DIASPIDIDAE) FROM KENYA. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 25: 17-25, illus. *Anotaspis lepelleyi*, *Ledaspis tenuiloba*, *Rolaspis anacantha*, *parviloba*, *halli*, *procera* n. spp.

- 1956a THE IDENTITY OF SOME EAST AFRICAN SPECIES OF SAISSETIA (HOMOPTERA, COCCIDAE). Bul. Ent. Res. 47: 239-249, illus.
Key to 7 species, including *S. pterolobina* n. sp.

- 1956b A NEW CEROPLASTODES (HOM.: COCCOIDEA) FROM KENYA. Ent. Soc. South. Africa Jour. 19: [310]-312, illus.
C. psychotriae n. sp.

- 1957 NEW ASPIDIOTINI (HOM.: COCCOIDEA: DIASPIDIDAE) FROM KENYA. Ann. and Mag. Nat. Hist. 10 (ser. 12): [225]-231, illus.
Abgrallaspis flavida, *Aonidia aperta*, *Aspidiotus simulans*, *Lindingaspis crocea*, *Melanaspis williamsi* n. spp.

- 1957a NOTES ON SOME AFRICAN SPECIES OF SAISSETIA (HOMOPTERA: COCCOIDEA: COCCIDAE). Ent. Soc. South. Africa Jour. 20: [170]-182, illus.
Key to 13 species; *S. nairobica*, *exoleta*, *opulenta*, *xerophila*, *jocunda* n. spp.

- 1957b THE PSEUDOCOCCIDAE (HOM.: COCCOIDEA) DESCRIBED BY H. C. JAMES FROM EAST AFRICA. Brit. Mus. (Nat. Hist.) Dept. Ent. Bul. 5 (5): [185]-232, illus.
Redescribes 24 species; 6 species synonymized.

- 1957c ON SOME ETHIOPIAN SPECIES OF THE GENUS COCCUS (HOMOPTERA: COCCOIDEA: COCCIDAE). Ent. Soc. South. Africa Jour. 20: [295]-314, illus.
Provisional key to separate 13 species; *C. sordidus* n. sp.

- 1958 A NEW SPECIES OF SAISSETIA FROM SOUTH AFRICA (HOMOPTERA: COCCOIDEA: COCCIDAE). Ent. Soc. South. Africa Jour. 21: [66]-68, illus.
S. munroi n. sp.

DE LOTTO, G.—Continued.

1958a THE PSEUDOCOCCIDAE (HOM.: COCCOIDEA) DESCRIBED BY C. K. BRAIN FROM SOUTH AFRICA. Brit. Mus. (Nat. Hist.) Dept. Ent. Bul. 7 (3): [79]–120, illus.

Reports on 31 species; 22 redescribed; 5 synonymized.

1958b NEW SOFT SCALES (HOMOPTERA: COCCOIDEA: COCCIDAE) FROM AFRICA.

Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 27: 165–172, illus. *Ctenochiton arborescens* Laing redescribed; *Akermes nitidulus*, *C. adspersus*, *amoenus*, *castaneus* n. spp. described.

1959 FURTHER NOTES ON ETHIOPIAN SPECIES OF THE GENUS COCCUS (HOMOPTERA: COCCOIDEA: COCCIDAE). Ent. Soc. South. Africa Jour. 22: [150]–173, illus.

Annotated list and key to species; *C. aethiopicus* and *moestus* n. spp. described.

1959a TWO NEW MARGARODIDAE (HOMOPT.: COCCOIDEA) FROM KENYA. Ent.

Soc. South. Africa Jour. 22: [385]–389, illus. *Icerya bimaculata*, *Kuwania oligostigma* n. spp.

1960 THE GREEN SCALES OF COFFEE IN AFRICA SOUTH OF THE SAHARA (HOMOPTERA, COCCIDAE). Bul. Ent. Res. 51: [389]–403, illus.

Coccus africanus redescribed; *C. alpinus*, *celatus*, *consimilis*, *viridulus* n. spp. described.

1961 NEW PSEUDOCOCCIDAE (HOMOPTERA: COCCOIDEA) FROM AFRICA. Brit.

Mus. (Nat. Hist.) Dept. Ent. Bul. 10 (6): [211]–238, illus. Describes and figures 30 new species.

1961a A NEW STICTOCOCCUS SPECIES FROM KENYA (HOMOPT. COCCIDAE). Ent.

Soc. South. Africa Jour. 24: [315]–317, illus. *S. acaciae* n. sp. described.

1961b TWO NEW CEROPLASTES SPECIES FROM AFRICA (HOMOPT.: COCCIDAE).

Ent. Soc. South. Africa Jour. 24: [318]–321, illus. *C. rusticus*, *stenocephalus* n. spp.

1962 A NEW COCCUS FROM SOUTH AFRICA (HOMOPTERA: COCCIDAE). Ent. Soc.

South. Africa Jour. 25: [263]–265, illus. *C. annecki* n. sp., *cajani* (Newstead) redescribed, *capensis* credited to Johansson, 1763, not Linnaeus, 1767.

See also Brown, S. W., and De Lotto, G.

DINTHER, J. B. M. VAN.

1960 INSECT PESTS OF CULTIVATED PLANTS IN SURINAM. Landbouwproefstation Bul. 76, 159 p., illus.

Reports 25 coccids, with notes on occurrence and control.

DOCTERS VAN LEEUWEN, W. M.

1925 SOME AUSTRALIA ZOOCECIDIA. Marcellia (Rev. Internaz. Cecidologia) 21 (1924): 138–164, illus.

Records 12 recognized coccid galls in 4 genera.

DOMINGUEZ, J. A.

1906 LA LAQUE DE LA TUSCA (ACACIA CAVENIA HOOK. ET ARN.). Argentina Soc. Cient. An. 62: 219–223, illus. Identical treatment: [Buenos Aires] Inst. de Farmacol. Trab. No. 12: 219–223, illus.

Tachardia argentina n. sp.; chemical analysis of lac produced; photograph of twig bearing secreted material.

DUBROVSKAYA, N. A.

- 1959 CONCERNING THE NUMBER OF GENERATIONS OF THE ACACIA FALSE-HARDSCALE PARTHENOLECANIUM CORNI BOUCHÉ (HOMOPTERA, COCCOIDEA, COCCIDAE). (In Russian, English summary.) Zool. Jour. 38: 1366-1374.

Full discussion of number of generations in Russia on different host plants.

DUMBLETON, L. J.

- 1954 A LIST OF INSECT PESTS RECORDED IN SOUTH PACIFIC TERRITORIES. So. Pacific Comn. Tech. Paper 79, 202 p.
Lists 83 coccids.

DUŠKOVÁ, F., see Lelláková-Dušková, F.

ELTON, C. S.

- 1958 THE ECOLOGY OF INVASIONS OF ANIMALS AND PLANTS. London, Methuen and Co., Ltd. 181 p., illus.
Discusses 8 very common coccid pests as examples of various points in general thesis.

ESSIG, E. O.

- 1942 COLLEGE ENTOMOLOGY. New York, Macmillan. 900 p., illus. Coccoidea p. 340-365.
Discusses 85 coccids; *Pseudococcus gahani* (*citrophilus*) placed as synonym of *P. fragilis*.

EZZAT, Y. M.

- 1956 HISTOLOGICAL STUDIES ON SOME DERMAL STRUCTURES OF PLANOCOCCUS CITRI (RISSO) [COCCOIDEA: PSEUDOCOCCIDAE]. Soc. Ent. d'Égypte Bul. 40: [349]-356, illus.
Studies of wax glands, dorsal ostioles, circulus.

- 1956a THE THORACIC SCLEROTIZATION OF COCCID ADULT MALES AS A PROMISING TAXONOMIC CHARACTER [COCCOIDEA]. Soc. Ent. d'Égypte Bul. 40: [357]-363, illus.
Discusses thoracic-sclerotic areas in 6 coccid males.

- 1958 CLASSIFICATION OF THE SCALE INSECTS, FAMILY DIASPIDIDAE, AS KNOWN TO OCCUR IN EGYPT [HOMOPTERA: COCCOIDEA]. Soc. Ent. d'Égypte Bul. 42: [233]-251.
Keys to subfamilies, tribes, genera, and 73 species of diaspidid coccids known from Egypt.

- 1958a MACONELLICOCCUS HIRSUTUS (GREEN), A NEW GENUS, WITH REDESCRIPTION OF THE SPECIES [HOMOPTERA: PSEUDOCOCCIDAE-COCCOIDEA]. Soc. Ent. d'Égypte Bul. 42: [377]-383, illus.
Nomenclatorial status of "Hibiscus mealybug" discussed. Placed in new genus in Planococcini.

- 1959 A NEW PLANOCOCCINE MEALYBUG ON STATICE FROM EGYPT [HOMOPTERA: COCCOIDEA-PSEUDOCOCCIDAE]. Soc. Ent. d'Égypte Bul. 43: [401]-404, illus.
Crisicoccus delottoi n. sp.

- 1959a TRIONYMUS WILLIAMSII, A NEW SPECIES OF GRASS-INFESTING MEALYBUGS FROM THE SUBURBS OF CAIRO, EGYPT. Soc. Ent. d'Égypte Bul. 43: [405]-408, illus.

- 1959b A NEW SPECIES OF HUMOCOCCUS FERRIS FROM ALEXANDRIA, EGYPT. Soc. Ent. d'Égypte Bul. 43: [409]-412, illus.
H. mackenziei n. sp.

- 1960 THREE NEW MEALYBUGS FROM EGYPT. Soc. Ent. d'Égypte Bul. 44: [23]-32, illus.
Amonostherium arabicum, *Phenacoccus pyramidensis*, *Spinococcus convulvi* n. spp.

EZZAT, Y. M.—Continued.

1960a *HELIOCOCCUS OSBORNI* (SANDERS) REDESCRIBED AS A NEW RECORD FROM EGYPT. Soc. Ent. d'Égypte Bul. 44: [33]–36, illus.

1960b A REVISION OF THE GENUS *DYSMICOCCLUS* AS KNOWN TO OCCUR IN EGYPT [HOMOPTERA: COCCOIDEA-PSEUDOCOCCIDAE]. Soc. Ent. d'Égypte Bul. 44: [37]–41, illus.
D. trispinosus redescribed; key to *D. boninsis*, *trispinosus*, and *brevipes*.

1960c NEW COMBINATIONS FOR TWO EGYPTIAN MEALYBUGS, WITH REDESCRIPTIONS [HOMOPTERA: COCCOIDEA-PSEUDOCOCCIDAE]. Soc. Ent. d'Égypte Bul. 44: [43]–49, illus.
Spilococcus alhagi and *Heterococcus cyperi* redescribed.

1960d THE GENUS *PELICOCCUS* AS REPRESENTED IN EGYPT. Soc. Ent. d'Égypte Bul. 44: [51]–58, illus.
P. priesneri and *zillae* redescribed.

1961 THE AMERICAN GENUS *MISERICOCCLUS* FERRIS IS TO BE CONSIDERED AS REPRESENTED IN EGYPT, U.A.R. 11th Internatl. Kong. f. Ent., Wien, 1 (1960): [68]–70.
Ripersia imperatae redescribed and transferred to *Misericoccus*.

1962 THE SYSTEMATIC POSITION OF *TRIONYMUS INDECISUS* HALL [HOMOPTERA: COCCOIDEA-PSEUDOCOCCIDAE]. Soc. Ent. d'Égypte Bul. 46: [61]–65, illus.
Transferred to *Spilococcus*.

1962a THE GENUS *TRIONYMUS* BERG IN EGYPT, U.A.R. Soc. Ent. d'Égypte Bul. 46: [67]–86, illus.
Key to 8 species found in Egypt; redescrptions of 5 Hall species.

1962b THE SPECIES *CELLULOSA* HALL AS A *KIRITSHENKELLA* [HOMOPTERA: COCCOIDEA-PSEUDOCOCCIDAE]. Soc. Ent. d'Égypte Bul. 46: [151]–154, illus.
Transferred from *Ripersia*; redescribed.

1962c A SYNOPSIS OF THE FAMILY PSEUDOCOCCIDAE AS KNOWN IN EGYPT, U.A.R. [HOMOPTERA: COCCOIDEA]. Soc. Ent. d'Égypte Bul. 46: [155]–170.
Review of 45 species in 24 genera; key to separate genera; keys to species of 5 genera.

See also Habib, A., Ezzat, Y. M., and Atallah, Y. H.; Hosny, M., and Ezzat, Y. M.

EZZAT, Y. M., and McCONNELL, H. S.

1956 THE MEALYBUG TRIBE *PLANOCOCCINI* (PSEUDOCOCCIDAE: HOMOPTERA). Md. Agr. Expt. Sta. Bul. A-84, 108 p., illus.
Revision of classification with many new species and new genera.

EZZAT, Y. M., and RASHAD, Z. M.

1962 THE GENUS *PSEUDOCOCCUS* WESTWOOD IN THE UNITED ARAB REPUBLIC [HOMOPTERA: COCCOIDEA-PSEUDOCOCCIDAE]. Soc. Ent. d'Égypte Bul. 46: [139]–150, illus.
Key and redescrptions of the 2 valid *Pseudococcus* species in Egypt; 10 species formerly placed here transferred to other genera; 5 dropped as synonyms; 1 misidentification; 1 nomen dubium.

FERRIS, G. F.

1921b NOTES ON COCCIDAE-VII, VIII (HEMIPTERA). Canad. Ent. 53: 57–61, 91–95.
Critical review of MacGillivray's "The Coccidae," with numerous specific examples of misassignments.

FERRIS, G. F.—Continued.

- 1956 THE GENUS PHENACASPIS COOLEY AND COCKERELL (INSECTA: HOMOPTERA: COCCOIDEA). PT. 2. *Microentomology* 21: 67-83, illus.
Comment on status of 35 *Phenacaspis*, with descriptive notes and figures for 8; list of 89 names referred to genus, with brief indication of current disposition of each.
- 1957 TWO SPECIES OF DIASPIDIDAE NEW TO THE HAWAIIAN FAUNA (HOMOPTERA: COCCOIDEA). *Hawaii. Ent. Soc. Proc.* 26: 212-215, illus.
Pinnaspis caricis n. sp., *Phenacaspis subcorticalis* (Green).
- 1957a A BRIEF HISTORY OF THE STUDY OF THE COCCOIDEA. *Microentomology* 22: 39-57.
Running commentary on coccid work of many authors.
- 1957b NOTES ON SOME LITTLE KNOWN GENERA OF THE COCCOIDEA (HOMOPTERA). *Microentomology* 22: 59-79, illus.
Brief descriptions with illustrations and discussions of genera: *Apiomorpha* (6 species), *Ascelis* (type), *Cylindrococcus* (*spiniferus*), *Aculeococcus* (type), *Macracanthopyga* (type), *Opisthoscelis* (species), *Calycicoccus* (type), *Micrococcus* (type); diagram of author's concept of major group associations in Coccoidea.
- 1957c A REVIEW OF THE FAMILY ERIOCOCCIDAE (INSECTA: COCCOIDEA). *Microentomology* 22: 81-89, illus.
Brief notes on 31 genera associated in "family Eriococcidae"; *Carpochloroides mexicanus* [called *oaxacensis* on plate], *Eriococcus phyllanthi* n. spp.

FISCHER, T. W., see DeBach, P., and Fischer, T. W.

FLANDERS, S. E.

- 1957 THE COMPLETE INTERDEPENDENCE OF AN ANT AND A COCCID. *Ecology* 38: 535-536.
Root-feeding coccid closely related to *Eumyrmococcus smithi* Silv.

FONSECA, J. P. DA

- 1957 TRES NOVAS ESPÉCIES DE COCCIDAE DO BRASIL SOBRE CAFEEIRO (HOMOPTERA-COCCOIDEA). *São Paulo Inst. Biol. Arq.* 24: [123]-135, illus.
Cerococcus catenarius, *Coccus brasiliensis*, *Lecanium lizeri*.
- 1962 CONTRIBUIÇÃO AO CONHECIMENTO DOS COCCIDEOS DO BRASIL (HOMOPTERA-COCCOIDEA). *São Paulo Inst. Biol. Arq.* 29: [13]-28, illus.
Perilecanium occultus n. gen. and n. sp.; *Pulvinaria globosa*, *alboinducta* n. spp.; *Pseudoselenaspis inermis* n. gen. and n. sp.

FONTES, J. T., see Menezes, W. de Sá, and Fontes, J. T.

FULLAWAY, D. T.

- 1909 NOTES AND EXHIBITIONS. *Hawaii. Ent. Soc. Proc.* 2: 73.
Ceroputo ambigua n. sp.

GANGULI, R. N.

- 1957 A NEW SPECIES OF VELATASPIS (HEMIPTERA: COCCOIDEA: DIASPIDIDAE) FROM TEA IN ASSAM. *Indian Jour. Ent.* 19: 241-244, illus.
V. serrulata n. sp.

GAVIN, M. J., ed.

- 1961 INSECT PEST SURVEY FOR THE YEAR ENDING 30TH JUNE 1960. *New So. Wales Dept. Agr., Ent. Br., Ann. Rpt.* 14, 68 p. [Processed.]
Lists 27 coccids under hosts.

GENTILE, A. G., and SUMMERS, F. M.

- 1958 THE BIOLOGY OF SAN JOSÉ SCALE ON PEACHES WITH SPECIAL REFERENCE TO THE BEHAVIOR OF MALES AND JUVENILES. *Hilgardia* 27: 269-285.

GERMAR, E. F., and BERENDT, G. C.

- 1856 DIE IM BERNSTEIN BEFINDLICHEN HEMIPTEREN UND ORTHOPTEREN DER VORWELT. In Berendt, G. C., Die im Bernstein Befindlichen Organischen Reste der Vorwelt. V. 2, pt. 1, 125 p., illus. Berlin, Nicolai. *Monophlebus pinnatus* Germ. and Ber., *trivenosus* Germ. and Ber., *irregularis* Germ. and Ber.

GHAURI, M. S. K.

- 1962 THE MORPHOLOGY AND TAXONOMY OF MALE SCALE INSECTS (HOMOPTERA: COCCOIDEA). London, Brit. Mus. (Nat. Hist.). 221 p., illus. Very detailed morphological study of 24 diaspidid male coccids, with direct application of results to classification of *Diaspididae*.

GHESEQUÈRE, M.

- 1943 RECHERCHES SUR LES DIPTERES D'AFRIQUE. 2. NOTICE MONOGRAPHIQUE SUR LES MUSCOIDES CRYPTOCHAETIDAE, PARASITES DE COCCIDES MONOPHLEBINAE. Rev. de Zool. et de Bot. Africaines 36: 390-410, illus. *Pseudaspidopectus vayssierellus* n. sp. (p. 395); 6 other *Iceryne* hosts indicated.

GIACCHINO, M.

- 1955 SULLA STRUTTURA DEL TEGUMENTO DORSALE NELLA FEMMINA DI COCCUS OLEAE (BERNARD). Bol. di Zool. Agr. e Bach. [Milano] 21: [207]-220, illus. Detailed histological study.

GIBSON, W. W., and CARILLO, S., J. L.

- 1959 LISTA DE INSECTOS EN LA COLECCION ENTOMOLOGICA DE LA OFICINA DE ESTUDIOS ESPECIALES, S.A.G. Mex. Sec. de Agr. y Ganaderia, Ofic. de Estud. Especiales, Fol. Misc. 9, 254 p. Coccoidea p. 68-69. Lists 9 coccids.

GILIOME, J. H.

- 1961 MORPHOLOGICAL AND TAXONOMIC STUDIES ON THE MALES OF THREE SPECIES OF THE GENUS PSEUDOCOCCUS (HEMIPTERA: COCCOIDEA). Stellenbosch Univ., Ann. 36 (ser. A, 6): 241-296, illus. Morphological descriptions of adult male *P. adonidum*, *fragilis*, and *maritimus*.

GOEPPERT, H. R., and BERENDT, G. C.

- 1845 DER BERNSTEIN UND DIE IN IHM BEFINDLICHEN PFLANZENRESTE DER VORWELT. In Berendt, G. C., Die im Bernstein Befindlichen Organischen Reste der Vorwelt. V. 1, pt. 1, 125 p., illus. Berlin, Nicolai. *Acreagris* p. 56 (without description or included species).

GOIDANICH, A.

- 1960 SPECIALIZZAZIONE ECOLOGICA E NOMENCLATURA DELLA CARULASPIS DEL VISCUM E DELLE CUPRESSACEAE (HEMIPTERA COCCOIDEA DIASPIDIDAE). Bologna Univ. Ist. Ent. Bol. 34: 1-38, illus. Discusses proper differentiation of 4 *Carulaspis* species, 1 on *Loranthaceae*, other 3 on *Coniferae*; gives author's idea of assignment of original and recent literature citations.

GÓMEZ-MENOR ORTEGA, J.

- 1955 NUEVA FORMA DE COCCUS (SAISSETIA) OLEAE. Bol. de Patol. Veg. y Ent. Agr. 21: 205-208, illus. Also as Estac. de Fitopat. Agr. de Madrid Trab. (ser. Fitopat.) 285, 4 p. *cherimolae* n. form.

- 1956 COCHINILLAS QUE ATACAN A LOS FRUTALES (HOMOPTERA, COCCOIDEA: I. FAMILIA DIASPIDIDAE). Bol. de Patol. Veg. y Ent. Agr. 22: 1-105, illus. Also as Estac. de Fitopat. Agr. de Madrid Trab. (ser. Fitopat.) 290, 105 p., illus.

Discusses 21 coccids in 11 genera; descriptions, notes on host relations, distribution, and parasites; keys to groups, genera, and species.

GÓMEZ-MENOR ORTEGA, J.—Continued.

- 1956a DATOS SOBRE COCCIDOS DE ESPAÑA. Portici R. Scuola Super. di Agr., Lab. Zool. Gen. e Agr. "Filippo Silvestri" Bol. 33: [611]-620, illus.
Hemiberlesia silvestri n. sp., *Balachowskya hispanica* n. gen. and n. sp.
- 1957 ADICIONES A LOS COCCIDOS DE ESPAÑA (CUARTA NOTA). Eos 33: 39-86, illus.
Descriptive and collection notes on 46 coccids occurring in Spain.
- 1958 DOS LECANIIDAE (COCCOIDEA). NEUVAS PARA LA FAUNA ESPAÑOLA. R. Soc. Españ. de Hist. Nat. Bol. (secc. Biol.) 56: 21-34, illus.
Coccus (Lecanium) elongatus (Sign.), *Sphaerolecanium prunastri* (Fonsc.).
- 1958a DISTRIBUCIÓN GEOGRÁFICA Y ENSAYO DE LA ECOLÓGICA DE LOS COCCIDOS EN ESPAÑA. Inst. Biol. Apl. [Barcelona] Pub. 27: 5-15. Simposia de Biogeografía Ibérica 2.
Discusses about 143 coccids listed in geographic groups and in monophagous and polyphagous species groups.
- 1958b COCHINILLAS QUE ATACAN A LOS FRUTALES (HOMOPTERA, COCCOIDEA: 2 FAMILIAS LECANIDAE Y MARGARODIDAE). Spain Estac. de Fitopat. Agr., Bol. de Patol. Veg. y Ent. Agr. 23: 43-173, illus.
Discusses and figures 2 species of Margarodinae, 3 species of Eriococcinae, 1 species of Asterolecaniinae, and 17 species of Coccinae.
- 1960 ADICIONES A LOS "COCCIDOS DE ESPAÑA." V. (SUPERFAMILIA COCCOIDEA). Eos 36: 157-204, illus.
Mercetaspis benitezi n. sp.; notes on Spanish distribution of 27 armored scales and 29 soft scales in 35 genera; redescribes 12 species.
- GRAFF, V. VON.
1855 GAZETA LESOVODSTVA I OKHOTY. SUP. TO NO. 13: 11. (In Russian.)
(Not seen; from Köppen 1880, p. 463.)
Lecanium frazzini [Aspidiotus].
- GUÉRIN-MÉNEVILLE, F. E.
1844 [ACCORDING TO HORN AND SCHENKLING] GENRE COHENILLE (COCCUS LIN.) NOTA. In Iconographie du Règne Animal de G. Cuvier, v. 3, Insectes, p. 379.
States flatly that O. G. Costa published "Fauna del Regno di Napoli, Famiglia de Coccinigliferi" in 1829.
- GUIDO, A. S., and RUFFINELLI, A.
1958 PRIMER CATALOGO DE LOS PARASITOS Y PREDADORES ENCONTRADOS EN EL URUGUAY. 10th Internatl. Cong. Ent. 4 (1956): 913-924.
List includes reference to 32 coccids and enemies of each.
- HABIB, A.
1955 SOME BIOLOGICAL ASPECTS OF THE EULECANIUM CORNI BOUCHÉ GROUP (HEMIPTERA: COCCIDAE). Soc. Ent. d'Égypte Bul. 39: [217]-228.
Report on details of experimental rearings.
- 1955a THE BEHAVIOR OF THE NYMPHAL STAGES OF EULECANIUM CORNI BOUCHÉ (HEMIPTERA-COCCIDAE). Soc. Ent. d'Égypte Bul. 39: [229]-240.
Detailed report on various experiments.
- 1956 THE MALE EULECANIUM CORNI BOUCHÉ. Soc. Ent. d'Égypte Bul. 40: [119]-126, illus.
Full description of male with account of its biology.
- 1956a EULECANIUM TAXI NOV. SPEC. (HOMOPTERA: COCCOIDEA-COCCIDAE). Soc. Ent. d'Égypte Bul. 40: [453]-462, illus.
Description, distribution, biology.
- 1957 THE ASTEROLECANIINAE OF EGYPT. Soc. Ent. d'Égypte Bul. 41: [371]-379, illus.
Key; descriptions; distribution and host records for 4 species in 3 genera.

HABIB, A.—Continued.

- 1957a THE MORPHOLOGY AND BIOMETRY OF THE EULECANIUM CORNI GROUP, AND ITS RELATION TO HOST PLANTS. Soc. Ent. d'Égypte Bul. 41: [381]–410, illus.

Detailed study of variability of *E. corni* from different hosts.

HABIB, A., EZZAT, Y. M., and ATALLAH, Y. H.

- 1960 SEXUAL DIMORPHISM IN THE SECOND INSTAR OF CHRYSOMPHALUS FICUS ASHMEAD (HOMOPTERA: COCCOIDEA-DIASPIDIDAE). Soc. Ent. d'Égypte Bul. 44: [329]–336, illus.

Diagnostic differences between second instar of 2 sexes discussed in detail and presented in summary.

HADŽIBEJLI, Z. K.

- 1950 FAUNA OF SOFT AND ARMORED SCALES (COCCOIDEA) OF THE FORESTS OF EASTERN GEORGIA. (In Georgian, Russian summary.) Akad. Nauk Gruzinskoi SSR Inst. Zashch. Rast. Trudy 7: 255–263.

Report on 43 species with hosts.

- 1956 A NEW SPECIES OF THE GENUS PUTO SIGN. (HOMOPTERA, COCCOIDEA) FROM THE MOUNTAIN ZONE OF GEORGIA. (In Russian.) Akad. Nauk Gruzinskoi SSR Soobshch. 17: [515]–518, illus.

P. caucasicus n. sp.

- 1956a CONTRIBUTION TO THE STUDY OF ASTEROLECANIUM MINUS LINDGR., PARTHENOLECANIUM RUFULUM CKLL. AND DIASPIDIOTUS ZONATUS FRAU. (In Georgian, Russian summary.) Akad. Nauk Gruzinskoi SSR Inst. Zashch. Rast. Trudy 11: [157]–170.

Reports 12 oak-infesting coccids, with details on biological and parasite relations of species in title; brief comment on 4 others.

- 1957 A STUDY OF CARMINE BEARING SOFT SCALES OF GEORGIA. (In Georgian, Russian summary.) Akad. Nauk Gruzinskoi SSR Inst. Zashch. Rast. Trudy 12: [203]–211, illus.

Porphyrophora georgica n. sp.

- 1958 A NEW GENUS AND SPECIES OF MEALYBUG (HOMOPTERA, PSEUDOCOCCIDAE) FROM GEORGIA, TRANSCAUCASIA. (In Russian, English summary.) Ent. Obozr. 37: [903]–908, illus.

Physococcus nanus n. gen. and n. sp.

- 1959 CHARACTERISTICS OF THE COCCID FAUNA OF THE DARK CONIFEROUS FORESTS OF GEORGIA. (In Russian.) Akad. Nauk Gruzinskoi SSR Soobshch. 23: [575]–582, illus.

Paroudables [for *-tis*] *montanus* n. sp.; 4 other coccids reported.

HADŽISTEVIĆ, D., and HADŽIHALILOVIĆ, H.

- 1959 SLJIVINA ŠTITASTA UŠ (LECANIUM CORNI BOUCHÉ) U SVETLU NJENIH GRADACIJA NA TERITORIJI N R BOSNE I HERCEGOVINE. (In Serbo-Croatian, German summary.) Poljoprivredni Pregled [Sarajevo] 8: 348–354.

Discusses *L. corni* Bouché in light of its gradations in Bosnia and Hercegovina.

HALL, W. J., and WILLIAMS, D. J.

- 1962 NEW DIASPIDIDAE (HOMOPTERA: COCCOIDEA) FROM THE INDO-MALAYAN REGION. Brit. Mus. (Nat. Hist.) Ent. Bul. 13: [21]–43, illus.

Describes 13 new species.

HARDY, J.

- 1868 NOTES FOR 1864. Berwickshire Nat. Club Hist. 1863–1868: 135–137. *Coccus fagi* Baer. and *halophilus* Hardy [n. sp.].

HARPAP, A., see Bodenheimer, F. S., and Harpap, A.

- HOSNY, M., and EZZAT, Y. M.
 1957 FURTHER ADDITIONS OF THE COCCOIDEA OF EGYPT. Soc. Ent. d'Égypte
 Bul. 41: [331]-333.
Eriococcus coccineus, *Lepidosaphes pallida*, *Lindingaspis floridana*
 new to Egypt; *Lecanium persicae* the correct name for *L. berberidis*
 of Hall 1926.
- HOY, J. M.
 1953 MANUKA BLIGHT. CAUSATIVE ORGANISM. Reprint from New Zeal.
 Weed Conf. Proc. 6, 4 p.
 Unnamed *Eriococcus* species.
- 1959 SPECIES OF ERIOCOCCUS TARG. (HOMOPTERA, COCCOIDEA) ASSOCIATED
 WITH THE GENUS LEPTOSPERMUM FORST. IN SOUTHEASTERN AUSTRALIA
 AND TASMANIA. New Zeal. Jour. Sci. 2: 1-34, illus.
 Records 7 species, including *E. campbelli*, *cutellus*, *gibbus*, *milleri*
 n. spp.
- 1961 ERIOCOCCUS ORARIENSIS HOY AND OTHER COCCOIDEA (HOMOPTERA)
 ASSOCIATED WITH LEPTOSPERMUM FORST. SPECIES IN NEW ZEALAND.
 New Zeal. Dept. Sci. and Indus. Res. Bul. 141, 70 p., illus.
 Detailed ecological study.
- 1962 ERIOCOCCIDAE (HOMOPTERA: COCCOIDEA) OF NEW ZEALAND. New Zeal.
 Dept. Sci. and Indus. Res. Bul. 146, 219 p., illus.
 Complete classificatory review of Eriococcidae of New Zealand, including
 keys and descriptions for 9 genera (6 new) and 74 species (47 new);
 discussion of zoogeography of family; host list.
- 1962a A NEW SPECIES OF ERIOCOCCUS (HOMOPTERA: COCCOIDEA) FROM NAVARINO
 ISLAND, TIERRA DEL FUEGO. New Zeal. Jour. Sci. 5: 510-512, illus.
E. navarinoensis n. sp. on *Nothofagus betuloides*.
- 1962b REDESCRIPTION OF NEWSTEADIA MYERSI GREEN (HOMOPTERA: COCCOIDEA:
 ORTHEZIIDAE). New Zeal. Jour. Sci. 5: 513-516, illus.
 Presence of 5 sets of abdominal spiracles established; placement in
Newsteadia confirmed.
- HUBA, A.
 1960 A CONTRIBUTION TO THE DIFFERENTIATION OF THE DIASPIDIDAE. (In
 Czech, English and Russian summaries.) Pol'nohospodárstvo [Bra-
 tislava] 7: 39-50, illus.
 Supplies information to differentiate *Quadraspidiotus gigas*, *marani*,
ostraeformis, *perniciosus*, *piri* and *Epidiaspis betulae* in overwintering
 stages.
- HUGHES-SCHRADER, S.
 1955 THE CHROMOSOMES OF THE GIANT SCALE ASPIDOPROCTUS MAXIMUS LOUNS.
 (COCCOIDEA-MARGARODIDAE) WITH SPECIAL REFERENCE TO ASYNASPIID
 AND SPERM FORMATION. Chromosoma [Berlin] 7: [420]-438, illus.
 Describes condition in relation to other margarodids.
- 1957 DIFFERENTIAL POLYTENY AND POLYPLIIDY IN DIASPIDINE COCCIDS (HOMOP-
 TERA: COCCOIDEA). Chromosoma [Berlin] 8: [709]-718.
 Reports on studies of germ cells in *Pseudaulacaspis pentagona* in com-
 parison with those of *Chrysomphalus aonidum*.
- HURONI, R., see Canard, M., and Huroni, R.
- JANJUA, N. A.
 1956 BIOLOGY OF COCCIDS, PULVINARIA LORALAIENSIS RAO AND LEPIDOSAPHES
 BALUCHISTANENSIS RAO IN BALUCHISTAN. Agr. Pakistan 7: 302-315,
 illus.

JUDEICH, J. F., and NITSCHKE, H.

- 1895 DIE SCHIDLÄUSE. *In their* Lehrbuch der Mitteleuropäischen Forstinsektenkunde. V. 2, p. 1240-1270. Wien, Holz.
Brief discussion of family and 8 or more individual coccids; *Pseudochermes* Nitsche proposed tentatively for *Chermes frazini* Kalt.

KALTENBACH, J. H.

- 1874 DIE PFLANZENFEINDE AUS DER KLASSE DER INSEKTEN. Stuttgart, Hoffmann. 848 p., illus.
About 64 common coccids listed in relation to hosts. *Lecanium myrtilli*(?), *Chermes*(?) *frazini* n. spp.

KANDA, S.

- 1959 TWO NEW SPECIES OF THE PSEUDOCOCCIDAE. *Kontyû* 27: 177-180, illus.
Trionymus esakii, *Saliococcus tokyoensis* n. spp.

- 1959a TWO NEW GENERA AND TWO NEW SPECIES OF PSEUDOCOCCIDS (HOMOPTERA). *Kontyû* 27: 239-243, illus.
Takahashicoccus, *Leococcus* n. gen.; *Leococcus erigeroneus*, *Trionymus kobotokensis* n. spp.

- 1960 DESCRIPTIONS OF THE COCCIDAE FROM JAPAN (HOMOPTERA). *Kontyû* 28: 116-122, illus.
Title somewhat confusing; paper includes the following: *Leptopulvinaria* n. gen.; *Luzulaspis amabilis*, *Leptopulvinaria elaeocarpi*, *Pulvinaria gamazumii*, *fujisana* n. spp.

KAPUR, A. P.

- 1958 A CATALOGUE OF THE LAC INSECTS (LACCIFERIDAE, HEMIPTERA). Ranchi, India, Lac Cess Com. 47 p.
Lists 65 species in 7 genera, with citations, synonymy, distribution, and host records.

KAUSSARI, M.

- 1954 SUR UN DYNASPIDIOTUS THIEM ET GERNECK (HEM. COCCIDAE) NOUVEAU DE L'OUEST DE L'IRAN. *Rev. de Path. Veg. et d'Ent. Agr. de France* 33: 80-83, illus.
D. spartiï n. sp.

- 1955 SUR TROIS COCCOIDEA DIASPIDINAE NOUVEAUX DE L'IRAN. *Rev. de Path. Veg. et d'Ent. Agr. de France* 34: 229-236, illus.
Balachowskiella salvadorae n. gen. and n. sp.; *Parlagena remaudierei*, *Diaspidiotus farahbakhchi* n. spp.

- 1956 SUR UN DYNASPIDIOTUS THIEM ET GERNECK (COCCOIDEA-ASPIDIOTINI) NOUVEAU DES ENVIRONS DE CHIRAZ (IRAN). *Rev. de Path. Veg. et d'Ent. Agr. de France* 35: 102-103, illus.
D. medicus n. sp.

- 1957 LA DEUXIEME LISTE DES COCHENILLES DE L'IRAN. Teheran (Iran) Min. de l'Agr. Dept. Gen. des Rech. Agron., Ent. et Phytopath. Appl. No. 16-17: [1]-3.
Lists 8 species in Diaspidinae, 19 in Lecaniinae, 7 in Kerminae, 2 in Asterolecaniinae, and 3 in Margarodidae.

- 1958 SUR DEUX ASPIDIOTINI-ASPIDIOTINA (COCCOIDEA) DU SUD DE L'IRAN. *Rev. de Path. Veg. et d'Ent. Agr. de France* 37: 229-234, illus.
Rungaspis macrolobis, *Quadraspidiotus baiati* n. spp.

- 1959 SUR UN CONTIGASPIS MCGILL (COCCOIDEA-DIASPIDINI) NOUVEAU DU CENTRE DE L'IRAN. *Rev. de Path. Veg. et d'Ent. Agr. de France* 38: 131-134, illus.
C. davatchii n. sp.

KAUSSARI, M.—Continued.

- 1959a SUR UN DIASPINE DE LA REGION DE CHIRAZ (IRAN) VORASPIS ADLEI BALACHOWSKI ET KAUSSARI. (In Persian, French summary p. 48.) Tehran [Iran] Min. de l'Agr. Dept. Gen. de la Protect. Plantes, Ent. et Phytopath. Appl. No. 18: 48-50.

See also Balachowsky, A. S., and Kaussari, M.

KAWECKI, Z.

- 1951 STUDIES ON THE GENUS LECANIUM. I. THE BROWN SCALE LECANIUM CORNI BOUCHÉ, MARCHAL (♀ nec ♂). Polon. Acad. [Cracovie] des Sci. et Lettres, Compt. Rend. Mens. des Séances de la Cl. de Sci. Math. et Nat. Nos. 5-10: 12.

After careful review, accepts *L. corni* L. ♀ as described by Marchal [1908] as correct association of species and name; biology in Poland reported.

- 1956 STUDIES ON THE GENUS LECANIUM BURM. PT. III. LECANIUM SERICEUM LDGR. (HOMOPTERA, LECANIIDAE). (In Polish, English summary.) Polskie Pismo Ent. [Warsaw] 25 (1955): [213]-226, illus. (English translation available as OTS 60-21405, U.S. Dept. Com., Washington, D.C.)

Distribution in Poland; redescription of female stages.

- 1957 NOTES ON SCALE INSECTS (HOMOPTERA, COCCOIDEA). (In Polish, Russian and English summaries.) Polska Akad. Nauk Acta Zool. Cracoviensia 2: [193]-[205], illus.

Lists 4 species new to Polish fauna; discusses 3 species previously rare in Poland.

- 1958 STUDIES ON THE GENUS LECANIUM BURM. IV. MATERIALS TO A MONOGRAPH OF THE BROWN SCALE, LECANIUM CORNI BOUCHÉ, MARCHAL (♀ NEC ♂) (HOMOPTERA, COCCOIDEA, LECANIIDAE). (In Polish, Russian and English summaries.) Polska Akad. Nauk Inst. Zool. Ann. Zool. 17: [135]-245, illus. (English translation available as OTS 60-21404, U.S. Dept. Com., Washington, D.C.)

Detailed study of *L. corni* Bouché [Marchal 1908, ♀ only] in Poland.

- 1958a STUDIES ON THE GENUS LECANIUM BURM. PT. V. THE NUT OR THORN SCALE - LECANIUM CORYLI (L.) SENSU MARCHAL NEC ŠULC (HOMOPTERA, COCCOIDEA, LECANIIDAE). (In Polish, English summary.) Polskie Pismo Ent. [Warsaw] 27 (1957): [39]-69, illus. (English translation available as OTC 60-21402, U.S. Dept. Com., Washington, D.C.)

Accepts Marchal [1908] interpretation of species as valid; notes and rejects contrary interpretations of various authors; notes and rejects various suggestions of existence of subspecies and races.

- 1961 A REVISION OF THE SPECIES OF THE GENUS LECANIUM BURM. OCCURRING IN POLAND AND THE DESCRIPTION OF LECANIUM SLAVUM SP. N. 11th Internatl. Kong. f. Ent., Wien, 1 (1960): 65-67, illus.

Reports 12 species; describes *L. slavum* n. sp.

KHAN, A. A., see Latif, A., and Kahn, A. A.

KIRCHNER, L.

- 1856 DIE VON MIR ERZOGENEN ICHNEUMONEN DER UMGEGEND KAPLITA. Lotos 6: 218.

Misspellings of *Lecanium* [as *Leconium*] and of *Aspidiotus* [as *Aspidatus*].

KIRITCHENKO, A. N.

- 1938 5. SUBORDER COCCOIDEA [sic]. (In Russian.) In Filip'eva and Ogloblina, ed., Identification of Insects. Ed. 2, p. 174-186, illus. Moscow, Gosudarstvennoe Izdatelstvo Kolkhoznoi i Sovkhoznoi Literatury.

Refers in key or paragraph form to 26 common coccid genera and 38 common species.

KLOET, G. S., and HINCKS, W. D.

1945 A CHECK LIST OF BRITISH INSECTS. Stockport, Kloet & Hincks. 483 p.
Coccoidea p. 74-79.

Lists 165 coccids, with 74 marked as introductions persisting under special conditions; *Acladra* Sign. substituted for *Aclerda* Sign. (erroneously).

KLOET, W., see Schmutterer, H., Kloet, W., and Lüdicke, M.

KNECHTEL, W. K., and NEGRU, S.

1959 EINIGE FÜR DIE RUMÄNISCHE VOLKSREPUBLIK NEUE SCHILDLAUSARTEN.
Rev. de Biol. [Bucarest] 4: 87-93, illus.

Reports *Parthenolecanium fletcheri*, *Carulaspis minima*, and *visci*.

KOBAKHIDZE, D. N.

1959 PECULIARITIES OF FORMATION OF BIOLOGICAL COMPLEXES IN THE NEW
KOLKHID. Zool. Zhur. [Moscow] 38: 860-866.

Lists 13 coccids as penetrating artificially modified environment.

KOCH, C. L.

1857 GATTUNG GRÄSERLAUS. DIE PFLANZENLAUSE APHIDEN, NÜRNBERG.
Nürnberg, J. L. Lotzbeck. V. 1, p. 296-299.

Includes description of *Tychea graminis* n. gen. and n. sp., based mostly on specimens of a mealybug.

KOCH, C. L., and BERENDT, G. C.

1854 DIE IM BERNSTEIN BEFINDLICHEN CRUSTACEEN, MYRIAPODEN, ARACHNIDEN
UND APTEREN DER VORWELT. In Berendt, G. C., Die im Bernstein
Befindlichen Organischen Reste der Vorwelt. V. 1, pt. 2, 124 p.,
illus. Berlin, Nicolai.

Acraegris Koch and Berendt, *crenata* Koch and Berendt described as Insecta Aptera.

KOLLAR, C.

1848 SAMETKA. Akad. der Wiss. Wien Sitzber. I: 15, 16.

Coccus aesculi [*Eulecanium tiliae*].

KÖPPEN, F. T. (Keppen).

1880 DIE SCHADLICHEN INSEKTEN RUSSLANDS. In his Beiträge zur Kenntnis
des Russischen Reiches und der Angrenzenden Länder Asiens. 2d fol.,
v. 3, 527 p. St. Petersburg, Comnr. K. Akad. der Wiss. Coccids
p. 455-464. Also in Russian as Injurious Insects, v. 3 (1882), p. 494-
508.

Discusses a few coccids, including *Lecanium fraxini* Graff 1855 of uncertain status.

KOSZTARAB, M.

1952 BEITRÄGE ZUR KENNNTNIS DER UNGARISCHEN SCHILDLAUS FAUNA. (In
Hungarian, Russian and German summaries.) Kertészeti Kutató
Intézet Évkönyve (Res. Inst. Hort. Ybk.) 1 (1950): 115-117.

Collection data on Hungarian coccids; 5 here first recorded.

1956 EINE NEUE SCHILDLAUS-ART - DIASPIDIOTUS HUNGARICUS N. SP. (COCCOIDEA,
DIASPIDIDAE) AUS UNGARN. Budapest Hist.-Nat. Mus. Natl. Hun-
garici Ann. 7 (n.s.): 435-438, illus.

1959 BIOLOGICAL NOTES ON THE SCALE INSECTS OF HUNGARY. Ent. Soc. Amer.
Ann. 52: 401-420, illus.

Collection and parasite data for 60 Hungarian coccids.

LAING, F.

1951 CHERMES V. PSYLLA (HOMOPTERA). Ent. Monthly Mag. 87: 23-27.

Discussion involves reference to *Coccus* L. and to Geoffroy's partial substitution of *Chermes* Geoff. for part of *Coccus* L.; Coccoidea not otherwise involved.

LAL, K., *see* Mathur, R. N., Singh, B., and Lal, K.

LATIF, A., and CHAUDHRY, M. I.

1956 NERVOUS SYSTEM OF *DROSICHA STEBBINGI* (GREEN). *Pakistan Jour. Sci. Res.* 8: 62-67, illus.

Detailed description of nervous system of both adult male and adult female.

1956a DIGESTIVE SYSTEM OF *DROSICHA STEBBINGI* (GR.) (COCCIDAE: HOMOPTERA). *Pakistan Jour. Sci. Res.* 8: 140-146, illus.

Discussion of methods; detailed description of parts of digestive system.

LATIF, A., and KHAN, A. A.

1959 FLIGHT MUSCLES OF MALE *DROSICHA STEBBINGI* (GR.). *Pakistan Jour. Sci. Res.* 11: 92-95, illus.

Detailed description.

1959a MUSCULAR SYSTEM OF *DROSICHA STEBBINGI* (GREEN) (COCCIDAE: HEMIPTERA). *Biologia [Pakistan]* 5: 96-141, illus.

Description of body and appendage muscles.

1960 DESCRIPTION OF THE HEAD AND MOUTH PARTS OF *DROSICHA STEBBINGI* (GR.) WITH A CRITICAL STUDY OF FUNCTIONAL STATUS OF THE MANDIBULAR STYLETS. *Pakistan Jour. Sci. Res.* 12: 131-141, illus.

Detailed description.

LATIF, A., and SAEED, M.

1959 STUDIES ON THE ANATOMY AND HISTOLOGY OF THE REPRODUCTIVE SYSTEM OF *DROSICHA STEBBINGI* (GR.) WITH NOTES ON THE HOMOLOGIES OF ITS MALE GENITALIA. *Pakistan Jour. Sci. Res.* 11: 121-136, illus.

Detailed description.

LELLÁKOVÁ-DUŠKOVÁ, F. [DUŠKOVÁ, F.].

1959 MÄNNCHEN DER SCHILDLÄUSE *DIASPIDIOTUS WÜNNI* (LINDINGER) (COCCOIDEA, DIASPIDIDAE). *Českoslov. Společ. Ent. Casopis* 56: 338-342, illus.

Detailed description.

LINDINGER, L.

1957 EIN WEITERER BEITRAG ZUR SYNONYMIE DER COCCIDEN. *Beitr. z. Ent.* 7: 543-553.

Proposes numerous changes in generic assignment of coccid species and suggests much generic and specific synonymy based on personal opinion.

1958 RICHTIGSTELLUNG DER SCHILDLAUSNAMEN IN DER BEARBEITUNG VON SCHMUTTERER, KLOFT UND LÜDICKE IM "HANDBUCH DER PFLANZENKRANKHEITEN." *Beitr. z. Ent.* 8: 365-374.

Name changes according to author's personal views. *See* Schmutterer et al. 1959 for reply to these changes.

LINNAEUS, C.

1764 CXXI. CENTAURIA INSECTORUM. *Amoenitates Acad.* 6: 384-415.
Coccus capensis p. 401.

LIZER y TRELLES, C. A.

1954 APUNTACIONES COCCIDOLÓGICAS. 3. RÉSUMÉ. (Full paper apparently never published.) *Soc. Ent. Argentina Bol.* 4 (April 1954), p. [3].
(Received U.S. Dept. Agr. Libr. Apr. 1, 1958.)

Reports 4 described coccids new to Argentine fauna; mentions 2 new forms described elsewhere; other notes.

LLOYD, D. C., and MARTINI, E.

1957 A NOTE ON THE CIRCLUSUS AS AN ADHESIVE ORGAN IN SOME PSEUDOCOCCIDAE. *Canad. Ent.* 89: 46-48.

Reports laboratory observations.

LOWER, H. F.

- 1957 A COMPARATIVE STUDY OF THE CUTICULAR STRUCTURE OF THREE FEMALE MEALY BUGS (HOMOPTERA: PSEUDOCOCCIDAE). *Biol. Bul.* 113: 141-159, illus.

Discusses minute details of cuticular structure in *Epicoccus* with reference to conditions in *Pseudococcus adonidum*; refers to *Epicoccus* sp. [as n. sp. without name].

LÜDICKE, M., see Schmutterer, H., Kloft, W., and Lüdicke, M.

LUPO, V.

- 1957 REVISIONE DELLE COCCINIGLIE ITALIANE II. (GEN. TARGIONIA, RHIZ-ASPIDIOTUS, AONIDIA). *Portici Lab. di Ent. Agr. "Filippo Silvestri"* *Bol.* 15: 54-84, illus.

Redescriptions of 5 Italian coccids in genera indicated.

MACGREGOR, R.

- 1958 NOTA SOBRE COCCIDOS. I. UNA NUEVA ESPECIE DE PIOJO MEXICANO (NOM. PSEUDOCOCC.). *Ciencia (Rev. Hispano-Amer. de Cien. Puras y Apl., Mexico City)* 18: 131-134, illus.

Pseudococcus agavis n. sp.

MAGNIN, J.

- 1955 DESCRIPTION D'UN NOUVEAU PSEUDOCOCCIDAE DU COTE D'IVOIRE. *Agron. Trop. [France]* 10: 238-240, illus.

Pseudococcus bingervillensis n. sp.

MAHDIHASSAN, S.

- 1957 THE FOUR STAGES OF THE FEMALE LAC INSECT. *Ztschr. f. Angew. Ent.* 40: 380-389, illus.

Descriptive account.

- 1961 LAKSHADIA NAGOLIENSIS AS COMPARED WITH L. COMMUNIS. *Zool. Anz.* 167: 115-126, illus.

Detailed comparisons of some structures in 2 "species" of lac insects.

MAMET, R. (Mamet, J. R.).

- 1949 AN ANNOTATED CATALOGUE OF THE COCCOIDEA OF MAURITIUS. *Mauritius Inst. Bul.* 3: [1]-81.

Annotated list of 106 coccids distributed through 44 genera and 9 families.

- 1954 MISCELLANEOUS NOTES ON THE COCCOIDEA (HOMOPTERA) OF THE MascARENE ISLANDS AND OF THE CHAGOS ARCHIPELAGO. *Mauritius Inst. Bul.* 3: 260-265.

Distributional and some synonymical notes on 27 coccids.

- 1955 A REVISED FOOD-PLANT CATALOGUE OF THE INSECTS OF MAURITIUS. *Mauritius Dept. Agr. Bul.* 90, 95 p.

Coccids listed on every page from 15 through 91.

- 1955a A NEW SPECIES OF ORTHEZIOLA SULC FROM MADAGASCAR (HEMIPTERA, COCCOIDEA). *Nat. Malgache* 7: 123-126, illus.

O. madecassa n. sp.

- 1956 MISCELLANEOUS COCCID STUDIES (HOMOPTERA). *Nat. Malgache* 8: 133-141, illus.

Lepidosaphes europae, *Pulvinaria tromellini* n. spp.; list of 16 Zanzibar coccids.

- 1956a ANOTHER NEW SPECIES OF CONCHASPIS COCKERELL (HEMIPTERA: COCCOIDEA) FROM MADAGASCAR. *Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy* 25: 47-48, illus.

C. didiereae n. sp.

MAMET, R. (Mamet, J. R.).—Continued.

- 1956b ON SOME COCCOIDEA FROM THE ISLAND OF RODRIGUES (HEMIPTERA).
Mauritius Inst. Bul. 3: 303-306.
Collection notes on 21 coccids; 18 new to area.
- 1957 ON SOME COCCOIDEA FROM REUNION ISLAND. Inst. Sci. de Madagascar
Mém. 8 (ser. E): 367-386, illus.
Nipaeococcus cacuminis, *Pseudococcus mascarensis*, *Spilococcus bourbonicus*, *Asterolecanium palmicola*, *Triraphaspis trilobis* n. spp.; *Dysmicoccus pseudobrevipes* redescribed; 36 coccids listed, 17 new to area.
- 1958 THE IDENTITY OF THE SUGAR-CANE PULVINARIA (HEMIPTERA: COCCOIDEA) OF MAURITIUS, WITH NOTES ON ITS ECONOMIC IMPORTANCE. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 27: 65-75, illus.
Redescriptions and other notes on *P. iceryi* and *clongata* with bases for separation.
- 1958a THE SELENASPIDUS COMPLEX (HOMOPTERA COCCOIDEA). Mus. Roy. du Congo Belge [Tervuren] Ann. (n.s.) Sci. Zool. 4: [359]-429, illus.
Review of this aspidiotine group for the world: *Schizentaspis*, *Selenediella*, *Selenomphalus*, *Neoselenaspis*, *Paraselenaspis* n. gen.; *Selenaspis taizi*, *podocarp*i, *eritreae*, *louisiae*, *Neoselenaspis kenyae*, *Schizentaspis loranthi* n. spp.
- 1959 FURTHER NOTES ON THE COCCOIDEA OF REUNION ISLAND (HOMOPTERA). Nat. Malgache 11: [123]-131, illus.
Lists 8 species; *Duplachionaspis cymbopogon*, *Triraphaspis hymenophylli* n. spp.; key to 3 *Triraphaspis*.
- 1959a NOTES ON THE COCCOIDEA OF MADAGASCAR 4. Inst. Sci. de Madagascar Mém. 11 (1959) (ser. E. Ent.): [369]-479, illus.
First area records for 52 coccids; 10 new genera, 39 new species described.

MARTINI, E., see Lloyd, D. C., and Martini, E.

MASSACHUSETTS AGRICULTURAL COLLEGE.

- 1911 ENTOMOLOGY AND ZOOLOGY. Amherst, Mass. Agr. Col. 52 p.
Names of 119 coccids included in list of types deposited in institution.

MATESOVA, G. IA.

- 1957 NEW SPECIES OF COCCIDS (HOMOPTERA, COCCOIDEA) FROM SOUTHEASTERN KAZAKHSTAN. (In Russian and French.) Ent. Obozr. 36: 163-174, illus.
Pseudococcus galatellus, *Ehrhornia nigra*, *Ceroputo clematidis*, *Paroudablis borchsenii*, *Acanthococcus desertus*, *Rhizococcus terrestris* n. spp.
- 1958 NOTES ON THE BIOLOGY OF SOFT AND HARD SCALES (HOMOPTERA, COCCOIDEA) IN SOUTHEASTERN KAZAKHSTAN. (In Russian.) [Alma-Ata] Akad. Nauk Kazakhskoi SSR Inst. Zool. Trudy 8: 130-137.
Discusses 10 Diaspididae, 2 Coccidae, and 2 Pseudococcidae.
- 1960 NEW SPECIES OF CUSHION-BEARERS FAM. COCCIDAE (HOMOPTERA, COCCOIDEA) IN KAZAKHSTAN. (In Russian.) [Alma-Ata] Akad. Nauk Kazakhskoi SSR Inst. Zool. (Ent.) Trudy 11: 196-204, illus.
Rhizopulvinaria polispina, *zaisanica*, *quadrispina*, *solitudina* n. spp.
- 1960a NEW SPECIES OF SOFT SCALES FAM. PSEUDOCOCCIDAE (HOMOPTERA, COCCOIDEA) OF THE KAZAKHSTAN FAUNA. (In Russian.) [Alma-Ata] Akad. Nauk Kazakhskoi SSR Inst. Zool. (Ent.) Trudy 11: 205-217, illus.
Acanthococcus orbiculus, *Greenisca rubra*, *Polystomophora orientalis*, *Phenacoccus specificus*, *tataricus* n. spp.

MATHUR, R. N., and SINGH, B.

- 1959 LIST OF INSECT PESTS OF FOREST PLANTS IN INDIA AND THE ADJACENT COUNTRIES. PT. 5. LIST OF INSECT PESTS OF PLANT GENERA 'D' TO 'F' (DACTYLOCLENIUM TO FUNTUMIA). Indian Forest Bul. (n.s.) Ent. 171 (4), 165 p.

Numerous records for coccids under host plant without detailed localities.

- 1960 LIST OF INSECT PESTS OF FOREST PLANTS IN INDIA AND THE ADJACENT COUNTRIES. PT. 4. LIST OF INSECT PESTS OF PLANT GENERA 'C' (CONCLUDED) (CLAUSENA TO CYTISUS). Indian Forest Bul. (n.s.) Ent. 171 (3), 45 p. For pt. 2, see Bhasin, G. D., and Roonwal, M. L.; for pt. 3, see Bhasin, G. D., Roonwal, M. L., and Singh, B.

Numerous records for coccids under host plants without detailed localities.

- 1960a LIST OF INSECT PESTS OF FOREST PLANTS IN INDIA AND THE ADJACENT COUNTRIES. PT. 6. LIST OF INSECT PESTS OF PLANT GENERA 'G' TO 'K' (GAMBLEA TO KYDIA). Indian Forest Bul. (n.s.) Ent. 171 (5), 91 p.

Numerous records for coccids under host plant without detailed localities.

- 1960b LIST OF INSECT PESTS OF FOREST PLANTS IN INDIA AND THE ADJACENT COUNTRIES. PT. 7. LIST OF INSECT PESTS OF PLANT GENERA 'L' TO 'O' (LABLAB TO OXYTENANTHERA). Indian Forest Bul. (n.s.) Ent. 171 (6), 148 p.

Numerous records for coccids under host plant without detailed localities.

- 1961 LIST OF INSECT PESTS OF FOREST PLANTS IN INDIA AND THE ADJACENT COUNTRIES. PT. 9. LIST OF INSECT PESTS OF PLANT GENERA 'S' (SABIA TO SYZYGIUM). Indian Forest Bul. (n.s.) Ent. 171 (8), 88 p.

Numerous records for coccids under host plant without detailed localities.

MATHUR, R. N., SINGH, B., and LAL, K.

- 1958 INSECT PESTS OF FLOWERS, SEEDS AND FRUITS OF FOREST TREES. Indian Forest Bul. (n.s.) Ent. 223, 105 p.

Scientific names of plant species listed alphabetically with pests under each; alphabetical list of pests with hosts of each.

McCONNELL, H. S., see Ezzat, Y. M., and McConnell, H. S.

McCONNELL, H. S., and DAVIDSON, J. A.

- 1959 OBSERVATIONS ON THE LIFE HISTORY AND MORPHOLOGY OF KERMES PUBESCENS BOGUE (HOMOPTERA: COCCOIDEA: DACTYLOPHIDAE). Ent. Soc. Amer. Ann. 52: 463-468, illus.

Single annual generation with 4 instars in female; these and adult male described.

McDANIEL, B.

- 1959 AN UNDESCRIBED ERIOCOCCUS FROM MEXICO. Wash. Ent. Soc. Proc. 61: 137-138, illus.

E. gerbergi n. sp.

- 1962 A NEW SPECIES OF SCALE INSECT FROM THE RIO GRANDE VALLEY, TEXAS (PSEUDOCOCCIDAE, COCCOIDEA). Tex. Jour. Sci. 14 (3): 323-327, illus.

Heliococcus malvastrus n. sp.; key to North American species of *Heliococcus*; host list for same.

McKENZIE, H. L.

- 1956 THE ARMORED SCALE INSECTS OF CALIFORNIA. Calif. Insect Survey Bul. 5, 209 p., illus.

Synopsis of 132 California species based on Ferris Atlas classification and material with numerous additions.

- 1957 A NEW ARMORED SCALE INSECT ON ELAEAGNUS FROM TEXAS (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). SCALE STUDIES PT. 13. Calif. Dept. Agr. Bul. 46: 218-220, illus.

Melanaspis elaeagni n. sp.

McKENZIE, H. L.—Continued.

- 1958 A NEW ASTEROLECANIID SCALE ON SUCCULENTS FROM MEXICO (HOMOPTERA: COCCOIDEA: ASTEROLECANIIDAE). *Pan-Pacific Ent.* 34: 169-172, illus.
Sclerosococcus ferrisi n. gen. and n. sp.
- 1960 TAXONOMIC STUDY OF CALIFORNIA MEALYBUGS WITH DESCRIPTIONS OF NEW SPECIES (HOMOPTERA: COCCOIDEA: PSEUDOCOCCIDAE). *Hilgardia* 29: 681-770, illus.
Review of mealybug taxonomic morphology; *Chorizococcus*, *Pygmaeococcus* n. gen.; 29 new species in 10 genera; revised key to North American pseudococcid genera; keys to North American species of 9 genera.
- 1960a A NEW SUBTERRANEAN RHIZOECUS MEALYBUG FROM ARIZONA. *Pan-Pacific Ent.* 36: 139-141, illus.
R. boharti n. sp.
- 1960b TAXONOMIC POSITION OF PARLATORIA VIRESCENS MASKELL, AND DESCRIPTIONS OF RELATED SPECIES (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). SCALE STUDIES PT. 14. *Calif. Dept. Agr. Bul.* 49: 204-211, illus.
P. desolator, *vandae*, *acalcarata* n. spp.
- 1961 SECOND TAXONOMIC STUDY OF CALIFORNIA MEALYBUGS, WITH DESCRIPTIONS OF NEW SPECIES (HOMOPTERA: COCCOIDEA: PSEUDOCOCCIDAE). *Hilgardia* 31: 15-52, illus.
Describes 13 new species of mealybugs; additional California host and locality records for 9 species previously described; keys to U.S. *Phenacoccus*, *Chorizococcus*, *Discococcus*, *Puto*, and *Rhizoecus*.
- 1962 THIRD TAXONOMIC STUDY OF CALIFORNIA MEALYBUGS, INCLUDING ADDITIONAL SPECIES FROM NORTH AND SOUTH AMERICA (HOMOPTERA: COCCOIDEA: PSEUDOCOCCIDAE). *Hilgardia* 32: [637]-688, illus.
Circaputo hirsutus, *Paradoxococcus mcdanieli* n. gen. and n. spp.; 14 additional new species in 6 genera; revised key to North American pseudococcid genera and to North American *Dysmicoccus*, *Pseudococcus*, and *Rhizoecus* species; critical notes on several previously described mealybugs.

McKENZIE, H. L., and NELSON-REES, W.

- 1962 TWO NEW SPECIES AND ADDITIONAL COLLECTION RECORDS FOR THE GENUS PROTODIASPIS (HOMOPTERA: COCCOIDEA: DIASPIDIDAE). *Hilgardia* 33: [133]-139, illus.
P. chichi and *didymus* n. spp.

See also Wilkey, R. F., and McKenzie, H. L.; Brown, S. W., and McKenzie, H. L.

MENEZES, W. DE SÁ, and FONTES, J. T.

- 1956 EUCALYMNATUS TESSELATUS (SIGN. 1873) SER REGISTRO E HOSPEDEIROS NA BAHIA. *Inst. Biol. da Bahia Bol.* 3: 78-84, illus.
Includes list of *Eucalymnatus* species recorded in Brazil with host and locality.

MINAMIKAWA, J.

- 1959 THE SCALE-INSECTS OF THE TEA PLANT. (In Japanese, English summary.) *Okitsu Natl. Tokai-Kinki Agr. Expt. Sta. Tea Div., Study of Tea No.* 20: 37-41.
Lists 58 scale insects injurious to tea, with countries where recorded.

MISRA, A. B., and RAO, S. R.

- 1960 THE DEVELOPMENT OF THE OVARY IN THE FEMALE OF DROSICHA (MONOPHEBUS) QUADRICAUDATUS (GREEN). 11th Internatl. Kong. f. Ent., Wien, 1 (1960): [333]-339, illus.
Detailed study.

MITIC-MUŽINA, N.

- 1960 CONDITIONS PERMITTING THE MAINTENANCE OF PARTHENOLECANIUM CORNI BOUCHÉ IN FORESTS. (In Croatian.) Plant Protect. [Beograd] 57-58: [73]-84, illus.

Review of history of last upsurge of *P. corni* in Serbia; the oak *Lecanium* differentiated as *P. rufulum* through host transfers and related studies.

MIZUNO, T., and MURAKAWA, R.

- 1954 ON THE NORTHERN BOUNDARIES OF THE DISTRIBUTIONS OF CEROPLASTES PSEUDOCERIFERUS GREEN AND C. JAPONICUS GREEN AND THEIR RELATIONS TO ANNUAL AVERAGE ISOTHERM. (In Japanese, English summary.) Oyō-Kontyū 10: 159-162, map.

Present and prospective distribution studied.

MONASTERO, S.

- 1955 MORFOLOGIA E BIOLOGIA DEL MYTILOCOCCUS GLOVERII PACKARD 1869. Palermo Univ. Ist. di Ent. Agr. Bol. 1: 87-[136], illus.

Reports host plants (15), distribution, description, field and laboratory biology, control, and parasites.

MORRISON, H., and RENK, A. V.

- 1957 A SELECTED BIBLIOGRAPHY OF THE COCCOIDEA. U. S. Dept. Agr. Misc. Pub. 734, 222 p.

MURAKAWA, R., see Mizuno, T., and Murakawa, R.

NAKAE, S. I., see Yasumatsu, K., and Nakae, S. I.

NATH, S., see Arora, G. L., and Nath, S.

NEGRU, S., see Knechtel, W. K., and Negru, S.

NELSON-REES, W. A.

- 1959 TRIPLE COITUS IN THE MEALY BUG, PLANOCOCCUS CITRI (RISSO). Nature 183: 479.

Reports 2 males fertilizing single female at one time with a third also attempting this.

- 1960 A STUDY OF SEX DETERMINATION IN THE MEALY BUG PLANOCOCCUS CITRI (RISSO). Jour. Expt. Zool. 144: 11-137, illus.

Reports on and summarizes observations on variations in production of male and female eggs according to age of mother.

- 1961 MODIFICATION OF THE OVARY OF THE MEALY BUG PLANOCOCCUS CITRI (RISSO) DUE TO AGING. Jour. Expt. Zool. 146: 85-92, illus.

Describes cytological condition and changes in ovary.

See also Brown, S. W., and Nelson-Rees, W.; McKenzie, H. L., and Nelson-Rees, W.

NEUMARK, S., see Bodenheimer, F. S., and Neumark, S.

NITSCHKE, H., see Judeich, J. F., and Nitsche, H.

OSSIANNILSSON, F.

- 1955 HEMIPTERA. 3. COCCINA, ALEYRODINA AND PSYLLINA. Zool. Iceland 3: 2-9, illus.

Notes on 7 coccid species found in Iceland.

- 1959 BIDRAG TILL KÄNNEDOMEN OM DEN SVENSKA SKÖLDLUSFAUNAN (HOM. COCCOIDEA) 2. Opusc. Ent. 24: 193-201, illus.

Lists 33 indigenous coccids, 32 greenhouse coccids as present in Sweden, and 10 diaspid coccids found on imported fruits.

PASSERINI, J.

- 1860 GLI AFIDI. Parma, Italy, Carmignani. 40 p.
Uses *Rhizobius* Burm. 1835, also presented as *Rizobius* Burm., and also replaced by suggested new name *Rhyzoicus*, for 2 new species *sonchi* and *menthae*, which are characterized as having single tarsal claw as well as other pseudococcid characteristics.

PEGAZZANO, F.

- 1955 QUADRASPIDIOTUS MARANI ZAHRADNIK F. OLIVICOLA F. N. (HEM. HOM. COCCIDAE, DIASPINI) NUOVO OSPITE DELL'OLIVO. *Redia* 40 (ser. 2): [311]-324, illus.
Differs from typical in more dorsal macroducts, presence of 2 elongate microtubulars between median lobes, and fewer perivulvars.

PHILLIPS, J. H. H.

- 1962 DESCRIPTION OF THE IMMATURE STAGES OF PULVINARIA VITIS (L.) AND P. INNUMERABILIS (RATHVON.) (HOMOPTERA: COCCOIDEA), WITH NOTES ON THE HABITS OF THESE SPECIES IN ONTARIO, CANADA. *Canad. Ent.* 94: 497-502, illus.
Details of differences separating stages indicated.

QUINTANA, F. J.

- 1956 DESCRIPTION DEL MACHO DE "PULVINARIA FLAVESCENS" BRETHES (HOMOPTERA STERN.). *La Plata Univ. Nac., Facultad. de Agron. Rev.* 32: [67]-74, illus.
Detailed description.

- 1956a "PULVINARIA MESEMBRYANTHEMI" (VALLOT) (HOMOPTERA STERN) NUEVA COCHINILLA PARA LA FAUNA ARGENTINA Y SUS ZOOPARASITOS. *La Plata Univ. Nac., Facultad de Agron. Rev.* 32: [75]-110, illus.
Extended description.

RAIZADA, M. B., see Roonwal, M. L., Raizada, M. B., Chatterji, R. N., and Singh, B.

RAO, S. R., see Misra, A. B., and Rao, S. R.

RASHAD, Z. M., see Ezzat, Y. M., and Rashad, Z. M.

RASINIA, B. P.

- 1959 COCCIDS (HOMOPTERA COCCOIDEA) IN DIFFERENT BIOTAXES OF LATVIAN SSR. (In Russian.) *Akad. Nauk Latviiskoi SSR Inst. Biol. Trudy* 12: 107-119, illus.
Several coccids discussed as indicators of various types of woody plant associations.

ŘEHÁČEK, J.

- 1954 LECANIINAE OF DR. K. ŠULC'S COLLECTION OF SCALE INSECTS. (In Czech.) *Moravskeho Mus.-Vědy Přírodní Časopis* 39: 133-145.
Catalog listing of individual lots of specimens of 51 lecanine coccids found in Šulc collection; *Luzulaspis erianthi*, *Pulvinaria cypriolla*, and *radicicola* from Cyprus, all Green nomina nuda.

- 1955 CONTRIBUTION TO THE KNOWLEDGE OF THE SCALE INSECT FAUNA FAM. LECANIIDAE OF CZECHOSLOVAKIA (COCCOIDEA, LECANIIDAE). (In Czech.) *Českoslov. Společ. Ent. Roč.* 51 (1954): 219-223, illus.
Filippia viburni and *Luzulaspis luzulae* new to Czechoslovakia; re-described.

- 1956 TROIS ESPECES NOUVELLES DES LECANIIDES POUR LA FAUNE TCHÉCOSLOVAQUE (HOM. COCC. LECANIIDAE). (In Czech, French summary.) *Prague Národ. Mus. Ent. Oddělení Sborn. Faunistických Práci* 1: 47-48, illus.

Eriopeltis stammeri, *Parafairmairia gracilis*, and *Luzulaspis frontalis* new to Czechoslovakia.

ŘEHÁČEK, J.—Continued.

1957 NEUE SCHILDLÄUSEFUNDE AUS DER UNTERFAMILIE DER LECANIINAE IN DER TSCHECHOSLOWAKEI (COCCOIDEA: LECANIINAE). Prague Národ. Mus. Ent. Oddělení Sborn. Faunistických Práci 2: 13-18, illus.
Eulecanium arion, *graniforme*, *spireae*, *Pulvinaria floccifera*, *Luzulaspis jahandiezi*.

1959 A NEW SPECIES OF THE GENUS LUZULASPIS CKLL. (COCCOIDEA, COCCIDAE) FROM CZECHOSLOVAKIA. (In Russian, English summary.) Ent. Obozr. 38: 176-178, illus.
L. borchsenii n. sp.

1960 FAUNA PUBLIC (COCCIDAE) SLOVENSKA. (In Czech, Russian and German summaries.) Biol. Práce 6 (12), 88 p., illus.
Complete taxonomic review of 29 Coccidae (str.) species of Czechoslovakia, with keys to first larvae, to male scales, to young (microscopic) and old (gross) females; follows Borchsenius 1957 classification.

REID, J., see Watson, W. Y., Underwood, G. R., and Reid, J.

RENK, A. V., see Morrison, H., and Renk, A. V.

REYNE, A.

1957 NEDERLANDSE SCHILDLUIZEN (COCCIDAE). Koninkr. der Nederlandse Natuurhist. Ver. Wetensch. Meded. No. 22, 43 p., illus.
Brief review of 52 coccids found outdoors in Holland, with keys, descriptive notes, illustrations, host list, etc.

1957a WALKERIANA TOSARIENSIS, A NEW MONOPHELBINE COCCID FROM CASUARINA JUNGHUHUNIANA MIQ. IN EAST-JAVA. Beaufortia Zool. Mus. [Amsterdam] 6: 115-145, illus.
Very detailed description, with extensive notes on generic relationships.

1958 PHENACOCCLUS SPHAGNI (GREEN) IN HOLLAND. Ent. Ber. 18: 20-26, illus.
Historical discussion of discovery, with detailed redescription.

1961 SCALE INSECTS FROM DUTCH NEW GUINEA. Beaufortia Zool. Mus. [Amsterdam] 8: [121]-167, illus.
About 50 species reported: *Haematococcus obtusispinus*, *truncatispinus* n. gen. and n. spp.; *Leptococcus metroxyli* n. gen. and n. sp.; *Eurycoccus vanheurni* n. sp. [*Haematococcus* preoccupied].

RICHARDS, W. R.

1958 IDENTITIES OF SPECIES OF LECANIUM BURMEISTER IN CANADA (HOMOPTERA: COCCOIDEA). Canad. Ent. 90: 305-313, illus.
Describes females, some larval stages, and male "puparia" for species of *Lecanium* known to occur in Canada; follows Šulc 1932 on names with resurrection of a Fitch name, so not in accord with other North American usage.

1960 A NEW SPECIES OF MATSUCOCCLUS COCKERELL (HOMOPTERA: COCCOIDEA). Canad. Ent. 92: 179-181, illus.
M. macrocitrices n. sp.

ROGOJANU, V.

1958 CONTRIBUTION TO THE SYSTEMATICS AND ECOLOGY OF THE FAMILY ORTHEZIIDAE (COCCIDAE) OF ROMANIA. Studii Cercet. Biol. 9: 301-315, illus.
Reports 4 species from 3 biotopes.

ROONWAL, M. L.

1954 A PHYLOGENETIC ANALYSIS OF THE HOST-PLANTS OF THE LAC INSECT, LACCIFER LACCA (KERR) (ORDER HEMIPTERA, FAMILY COCCIDAE), WITH A VIEW TO DETERMINE HOST-PREFERENCES. Indian Jour. Ent. 15 (1953): 283-292.

- ROONWAL, M. L., RAIZADA, M. B., CHATTERJI, R. N., and SINGH, B.
 1958 DESCRIPTIVE ACCOUNT OF THE HOST-PLANTS OF THE LAC INSECT, LACCIFER LACCA (KERR), AND THE ALLIED PLANTS IN THE INDIAN REGION, PTS. 1 AND 2. Ranchi, India, Indian Lac Cess Com. 140 p.
 Lists 84 common lac hosts; discussion of botanical relationship; notes on relation of hosts to lac cultivation, etc.
- ROTA, P.
 1955 CONTRIBUTO ALLA CONOSCENZA DELLA GHIANDOLE SERICIPARE NEGLI ASPIDIOTINI. Bol. di Zool. Agr. e Bachicoltura 21: [231]-252, illus.
 Detailed description of histological development of a microtubular duct as studied in *Aspidiotus perniciosus*.
- RUFFINELLI, A., see Guido, A. S., and Ruffinelli, A.
- RUSSO, G.
 1959 LA COCCINIGLIE DEGLI AGRUMI E MEZZI DI LOTTA. Tec. Agr. [Catania] 11: 354-387, illus. Also in Naples Univ. Facol. di Sci. Agr. (Portici) Ann. 24 (ser. 3): 1-32, illus.
 Descriptive notes, biology, and control for 13 coccids injurious to citrus.
 1959a ENTOMOFAGI ED ANTICOCCHIDICI DEGLI AGRUMI IN ITALIA. Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 17: 246-254.
 Most important scale insects attacking citrus in Italy cited; their control discussed.
- SAAKIAN-BARANOVA, A. A., see Bustshik, T. N., and Saakian-Baranova, A. A.
- SAEED, M., see Latif, A., and Saeed, M.
- SAKAI, K.
 1929 NOTES ON SOME SCALE INSECTS AND HOST PLANTS FROM KAGOSHIMA. (In Japanese.) Kontyû 3: 121-130.
 Lists 53 coccids on numerous hosts.
 1932 LIST OF COCCOIDEA IN OITA PREFECTURE. Kagoshima Imper. Col. Agr. and Forestry Nat. Hist. Soc. Trans. 3: 63.
 (Not seen; information from Takahashi in litt.)
- SALAZAR VAQUERO, M., see Berry, P. A., and Salazar Vaquero, M.
- SANKARAN, T.
 1959 THE LIFE HISTORY AND BIOLOGY OF THE WAX-SCALE CEROPLASTES PSEUDOCERIFERUS GREEN (COCCIDAE: HOMOPTERA). Bombay Nat. Hist. Soc. Jour. 56: 39-59, illus.
- SAVESCU, A.
 1957 DIE LINDEN-KOMMASCHILD LAUS (LEPIDOSAPHES TILIAE SP. N.). Anz. f. Schädlingsk. ver. mit Schädlingsbekämpfung. 33: 197-201, illus.
 Description, biology, control.
- SCHLECTENDAL, D. F. L. VON.
 1858 SCHÄDLICHE INSEKTEN. Hamburger Gart.-u. Blumenzeitung 14: 407-409.
 Review of "Schädliche Insekten" by Dr. Carl Amerling; uses *Mytillicoccus* and *Mytillicoccus* spellings of genus.
- SCHMIDT, L.
 1956 CONTRIBUTION TO THE ENTOMOLOGICAL FAUNA OF YUGOSLAVIA. Plant Protect. [Beograd] 36 (sup.), p. 3-11.
 Reports 93 coccids for the country.
- SCHMUTTERER, H.
 1956 ZUR MORPHOLOGIE, SYSTEMATIK UND BIONOMIE DER PHYSOKERMES-ARTEN AN FICHTE (HOMOP. COCC.). Ztschr. f. Angew. Ent. 39: 445-466, illus.
 Reviews structure, differentiation, biology, and feeding behavior of *P. piceae* Schrk. and *hemicyphus* Dalm.

SCHMUTTERER, H.—Continued.

1956a NEUE RHIZOECUS-ARTEN AUS MITTELEUROPA (HOMOPTERA: COCCOIDEA: PSEUDOCOCCIDAE). Beitr. z. Ent. 6: 516–521, illus.
R. caesi, *francoinae* n. spp.

1956b BEITRAG ZUR DEUTSCHEN SCHILDLAUSFAUNA. Nachrichtenbl. der Bayer. Ent. 5: 65–67.
Collection records for 8 coccids, some new to Germany.

1957 EINE NEUE SCHILDLAUS VON ZWERGBIRKE (HOMOP.: COCCOIDEA). Nachrichtenbl. der Bayer. Ent. 6: [70]–72, illus.
Spilococcus nanae n. sp.

1958 HETEROCOCCUS VARIABILIS N. SP., EINE NEUE PSEUDOCOCCIDE MIT BEMERKENSWERTER VARIABILITÄT. Prague Národ. Mus. Ent. Od-
dělení Sborn. Faunistických Práci 3: 17–22, illus.

1959 SCHILDLÄUSE ODER COCCOIDEA. I. DECKELSCHILDLÄUSE ODER DIASPIDIDAE. In Die Tierwelt Deutschlands und der Angrenzenden Meeresteile. T. 45, 260 p., illus. Jena, Fischer.
General discussion of superfamily; systematic treatment including keys to 9 coccoid families and diaspidine tribes, genera and species; descriptions for 59 species in 35 genera.

SCHMUTTERER, H., KLOFT, W., and LÜDICKE, M.

1957 COCCOIDEA, SCHILDLÄUSE, SCALE INSECTS, COCHENILLES. Tierische Schädlinge an Nutzpflanzen. 2. Teil, Vierte Lieferung. Homoptera II. Teil. (In Sorauer, P., Handb. der Pflanzenkrankheiten. V. 5, pt. 2, lfg. 4, p. [403]–520, illus. Berlin, Paul Parey.)
Key to 10 families (5 excluded); 420 coccids in 13 subfamilies discussed briefly with a few (e.g., *Aspidiotus perniciosus*) more extensively; chiefly relating to economic importance.

1959 KRITISCHE BEMERKUNGEN ZU ZWEI VERÖFFENTLICHUNGEN VON L. LINDINGER. Beitr. z. Ent. 9: 373–375.
Critical adverse comment on 2 papers of alleged corrections in coccid nomenclature recently published by L. Lindinger.

SCHREAD, J. S.

1956 CONTROL OF LECANIUM NIGER. Conn. Arborist 10: 6.
"niger" substituted for *nigrofasciatum*.

SETA, F. D., see Biezanko, C. M., and Seta, F. D.

SHERBORN, C. D.

1910 ON THE DATES OF PUBLICATION OF COSTA'S "FAUNA DEL REGNO DI NAPOLI," 1829–1886. Ann. and Mag. Nat. Hist. 5 (ser. 8): 132.
Discusses publication dates for Costa's Fauna del Regno di Napoli, but nothing definite is presented for Coccinigliferi.

1937 ON THE DATES OF PUBLICATION OF COSTA (O.G.) AND (A.) FAUNA DEL REGNO DI NAPOLI, 1829–1886. Soc. Bibliog. Nat. Hist. Jour. 1: 35–47.
Lists publication dates for various sections of Fauna Napoli, but nothing definite is presented for Coccinigliferi.

SIMMONDS, F. J.

1957 A LIST OF THE COCCIDAE OF BERMUDA AND THEIR PARASITES. Bermuda Dept. Agr. Bul. 30, 12 p.
(Not seen; citation from Rev. Appl. Ent. 46 (ser. A, No. 5): 196.)

SINGH, B., see Mathur, R. N., and Singh, B.; Mathur, R. N., Singh, B., and Lal, K.; Roonwal, M. L., Raizada, M. B., Chatterji, R. N., and Singh, B.

STEINHAUS, E. A.

1955 OBSERVATIONS ON THE SYMBIONTS OF CERTAIN COCCIDAE. Hilgardia 24: 185–208.
Draws some general conclusions from study of symbionts of 4 lecanine coccids.

SUEHIRO, A.

- 1960 INSECTS AND OTHER ARTHROPODS FROM MIDWAY ATOLL. Hawaii. Ent. Soc. Proc. 17 (1959): 289-298.
Records 9 species of coccids in 4 families.

ŠULC, K.

- 1953 ZEVNÍ MORFOLOGIE METAMORFOSA A BĚH ŽIVOTA ČERVCE CEROCOCCUS CYLIGER GOUX 1932. (In Czech.) České Akad. Véd. Třída II Rozpr. 62, 18 p., illus.
Morphology, metamorphosis, and life history of *C. cyliger* Goux.

SUMMERS, F. M., see Gentile, A. G., and Summers, F. M.

SZENT-IVANY, J. J. H.

- 1958 INSECTS OF CULTIVATED PLANTS IN THE CENTRAL HIGHLANDS OF NEW GUINEA. 10th Internat. Cong. Ent. 3 (1956): 427-437.
Lists 10 coccids; collection data; natural enemies.

- 1959 HOST PLANT AND DISTRIBUTION RECORDS OF SOME INSECTS IN NEW GUINEA. Pacific Insects 1: 423-429.
Records 9 coccids with hosts.

SZENT-IVANY, J. J. H., and CATLEY, A.

- 1960 HOST PLANT AND DISTRIBUTION RECORDS OF SOME INSECTS IN NEW GUINEA AND ADJACENT ISLANDS. Pacific Insects 2: 255-361.
Records 13 coccids with hosts.

TACHIKAWA, T.

- 1955 LIST OF COCCOIDEA COLLECTED IN OITA PREFECTURE. New Ent. [Japan] 4: 51-58.
Reports 51 species found by author; 20 species in Sakai 1932 list not found by author.

- 1956 A SUPPLEMENT TO COCCOIDEA COLLECTED IN OITA PREFECTURE. New Ent. [Japan] 5: 37-38.
Lists 20 species.

- 1962 SCALE INSECTS OF SHIKOKU. 2. (HOMOPTERA: COCCOIDEA). Shikoku Ent. Soc. Trans. 7: 77-78.
Lists 18 species, with host and locality records.

See also Takahashi, R., and Tachikawa, T.

TAKAGI, S.

- 1956 NOTES ON THE JAPANESE SPECIES OF THE GENUS PSEUDAULACASPIS MACGILLIVRAY, WITH DESCRIPTION OF A NEW SPECIES. Insecta Matsumurana 19: 113-116, illus.
P. biformis n. sp.; key to this and *pentagona*.

- 1956a DESCRIPTION OF A NEW SPECIES OF PARLATORIA TARGIONI (HOMOPTERA, COCCOIDEA). Insecta Matsumurana 20: 45-47, illus.
P. piceae n. sp.

- 1956b FOUR NEW SPECIES OF DIASPIDIOTUS AND QUADRASPIDIOTUS (HOMOPTERA, COCCOIDEA). Insecta Matsumurana 20: 83-89, illus.
D. naracola, *spiraspinae*, *Q. macroporanus*, *paraphyses* n. spp.

- 1957 A REVISION OF THE JAPANESE SPECIES OF THE GENUS ASPIDIOTUS, WITH DESCRIPTION OF A NEW GENUS AND A NEW SPECIES. Insecta Matsumurana 21: 31-40, illus.
Metaspidiotus n. gen., *Temnaspidiotus japonicus* n. sp.

- 1958 NEW OR LITTLE KNOWN SCALE INSECTS OF THE TRIBE ASPIDIOTINI, WITH A LIST OF THE GENERA AND SPECIES OCCURRING IN JAPAN. Insecta Matsumurana 21: 121-131, illus.
Hypaspidiotus phaneraspis, *Quadraspidotus williamsi* n. spp.

TAKAGI, S.—Continued.

- 1959 NOTES ON THE SCALE INSECTS OF THE TRIBE ODONASPIDINI OCCURRING IN JAPAN (HOMOPTERA, COCCOIDEA). *Insecta Matsumurana* 22: 92-95. Reports 4 species of this tribe in Japan placed in *Odonaspis*: *secreta* Ckll., *oshimaensis* Kuw., *pencillata* Green, and *bambusarum* Ckll.
- 1959a A NEW SPECIES OF THE GENUS SELENOMPHALUS MAMET FROM JAPAN. *Insecta Matsumurana* 22: 112-114, illus. *S. distylii* n. sp.
- 1960 A CONTRIBUTION TO THE KNOWLEDGE OF THE DIASPIDINI OF JAPAN (HOMOPTERA: COCCOIDEA) PT. I. *Insecta Matsumurana* 23: 67-100, illus. Records 39 species, 3 as new, in 9 genera; keys to Japanese species of *Parlatoria*, *Lepidosaphes*, *Andaspis*, and *Acanthomytilis*.
- 1960a TWO LITTLE-KNOWN DIASPIDIDAE FROM SOUTH-EASTERN ASIA (HOMOPTERA: COCCOIDEA). *Akitu* 9: 77-79, illus. *Lepidosaphes bladhiae* Tak. and *Phenacaspis papayae* Tak. redescribed
- 1961 A CONTRIBUTION TO THE KNOWLEDGE OF THE DIASPIDINI OF JAPAN (HOMOPTERA: COCCOIDEA) PT. II. *Insecta Matsumurana* 24: 4-42, illus. Records 32 species, 1 new; keys to Japanese species of *Kuwanaspis*, *Unachionaspis*, *Unaspis*, *Phenacaspis*, and *Fiorinia*.
- 1961a A CONTRIBUTION TO THE KNOWLEDGE OF THE DIASPIDINI OF JAPAN (HOMOPTERA: COCCOIDEA) PT. III. *Insecta Matsumurana* 24: 69-103, illus. Records 25 species, 9 new; *Miscanthaspis*, *Takahashiaspis*, *Megacanthaspis* n. gen.; keys to Japanese species of *Pinnaspis*, *Aulacaspis*, *Pseudaulacaspis*; key to Japanese genera of Diaspidini.
- 1962 A NEW SCALE INSECT INJURIOUS TO CONIFERS IN HOKKAIDO, WITH DESCRIPTION OF A NEW GENUS (HOMOPTERA: COCCOIDEA). *Insecta Matsumurana* 25: [46]-48, illus. *Cynodontaspis piceae* n. gen. and n. sp. (presented as nomen nudum Takagi 1961, p. 42).

See also Takahashi, R., and Takagi, S.

TAKAHASHI, R.

- 1955 SOME SCALE INSECTS OF THE LOOCHOO ISLANDS (HOMOPTERA). *Biogeog. Soc. Japan Bul.* 16-19: 238-242, illus. Collection data for 21 species, 13 new records; *Aulacaspis distylii* n. sp.
- 1956 PULVINARIA OF JAPAN (COCCIDAE, HOMOPTERA). *Kontyû* 24: 23-30, illus. Redescribes 8 Japanese species; *P. malloti*, *torreyae* n. spp.
- 1956a SOME NEW AND LITTLE-KNOWN SPECIES OF DIASPIDIDAE FROM JAPAN (COCCOIDEA, HOMOPTERA). *Annot. Zool. Jap.* 29: 57-61, illus. Discusses 5 species; *Pinnaspis juniperi*, *Acanthomytilus miscanthi*, *Fiorinia nachiensis* n. spp.
- 1956b THREE NEW GENERA AND A NEW SPECIES OF DIASPIDIDAE FROM JAPAN. *Insecta Matsumurana* 20: 23-28, illus. *Hypaspidiotus*, *Dianidia*, *Microparlatoria* n. gen.; *Aspidiotus multipori* n. sp.
- 1956c A NEW SCALE INSECT OF ASTEROLECANIUM FROM JAPAN (ASTEROLECANIDAE, COCCOIDEA, HOMOPTERA). *Akitu* 5: 4-6, illus. *A. album* n. sp.; key to 11 Japanese *Asterolecanium* species.
- 1957 A NEW SPECIES OF ERIOCOCCUS FROM JAPAN (COCCOIDEA, HOMOPTERA). *Akitu* 6: 6-7, illus. *E. miscanthi* n. sp.; key to 7 Japanese species of *Eriococcus*.
- 1957a A NEW SPECIES OF ERIOPELTIS FROM JAPAN (COCCOIDEA, HOMOPTERA). *Akitu* 6: 65-66, illus. *E. japonensis* n. sp.

TAKAHASHI, R.—Continued.

1957b SOME JAPANESE SPECIES OF DIASPIDIDAE (COCCOIDEA, HOMOPTERA).
Shikoku Ent. Soc. Trans. 5: 104-111, illus.

Includes 7 species, 6 of these new: *Unaspis aesculi*, *Pinnaspis boehmeriae*,
Pallulaspis quercus, *Lepidosaphes pseudotsugae*, *hashicola*, *corni* n. spp.

1958 KEY TO THE GENERA OF PSEUDOCOCCIDAE IN JAPAN, WITH DESCRIPTIONS
OF THREE NEW GENERA AND TWO NEW SPECIES. Osaka (Prefecture)
Univ. Bul. 7 (ser. B): 1-8, illus.

Kaicoccus, *Miscanthicoccus* n. gen.; *Allotrionymus elongatus* n. gen. and
n. sp.; *Ferrisicoccus bambusiphilus* n. sp.

1959 TWO NEW GENERA OF COCCIDAE (HOMOPTERA). Kontyû 27: 74-76,
illus.

Platycooccus n. gen., *Stenolecanium esakii* n. gen. and n. sp.

TAKAHASHI, R., and TACHIKAWA, T.

1956 SCALE INSECTS OF SHIKOKU (HOMOPTERA: COCCOIDEA). Shikoku Ent.
Soc. Trans. 5: 1-17, illus.

Lists 88 species, with host and locality records.

TAKAHASHI, R., and TAKAGI, S.

1957 A NEW GENUS OF DIASPIDIDAE FROM JAPAN (COCCOIDEA, HOMOPTERA).
Kontyû 25: 102-105, illus.

Tsugaspidiotus n. gen.

TEREZNIKOVA, E. M.

1959 ON COCCOIDEA (INSECTA, HOMOPTERA) FAUNA OF THE UKRAINE. (In
Ukrainian, Russian and English summaries.) Akad. Nauk Ukrainskoi
RSR Dopovidi 6: 683-685.

Reports 11 coccids new to the Ukraine.

1962 A NEW SPECIES OF MEALYBUG OF THE GENUS BREVENNIA GOUX (COC-
COIDEA, PSEUDOCOCCIDAE). (In Ukrainian, Russian and English
summaries.) Akad. Nauk Ukrainskoi SSR Dopovidi 1: 122-124,
illus.

B. kristala n. sp.

See also Borchsenius, N. S., and Tereznikova, E. M.

TER-GRIGORIAN, M. A.

1954 COCCIDS OF GREEN PLANTINGS IN EREVAN AND LENINAKAN. (In Russian.)
Akad. Nauk Armianskoi SSR Izv. Biol. i Sel'skokhozyaistvennyye
Nauki 7: 61-72.

Lists and discusses briefly 28 coccids, including 6 previously unreported
from Armenia.

1956 COCCIDS OF CULTIVATED FRUIT IN ARMENIA. (In Russian.) Akad. Nauk
Armianskoi SSR Zool. Inst. Zool. Sborn. 9: [33]-57, illus.

Records 27 coccids on cultivated fruits in Armenia; notes on host, dis-
tribution, and biology of each.

1962 COCCOIDEA OF THE WOODS OF ARMENIA. (In Russian.) Akad. Nauk
Armianskoi SSR Zool. Inst. Zool. Sborn. 12: [125]-161, illus.

Reports 75 coccids on 60 plant species; brief notes on distribution, hosts,
biology, etc., for each.

See also Borchsenius, N. S., and Ter-Grigorian, M. A.

THERON, J. G.

1958 COMPARATIVE STUDIES ON THE MORPHOLOGY OF THE MALE SCALE IN-
SECTS (HEMIPTERA: COCCOIDEA). Stellenbosch Univ. Ann. 34 (sec.
A, No. 1), 71 p., illus.

Discusses 7 male coccids belonging to 4 families.

1962 STRUCTURE AND RELATIONSHIPS OF THE MALE OF PHENACOLEACHIA
ZEALANDICA (MASKELL) (HEMIPTERA: COCCOIDEA). Roy. Ent. Soc.,
London, Proc. Ser. A: Gen. Ent. 37: 145-153, illus.

Detailed descriptive and comparative study.

TREMBLAY, E.

- 1958 SVILUPPO EMBRIONALE DEGLI STILETTI BOCCALI DEI COCCIDAE DIASPINI (DIASPIS PENTAGONA TARG.). Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 16: 171-214, illus.
Embryonic development of mouth parts.
- 1958a OVOVIVIPARITA, COMPORTAMENTO DELLA FEMMINE VERGINI, SESSO DELLE LARVE E GHIANDOLE CEFALICHE LARVALI DELLA DIASPIS PENTAGONA TARG. Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 16: 215-246, illus.
Behavior of unmated females; sexual differentiation in eggs and larvae.
- 1959 OSSERVAZIONI SUI DUE TIPI DI UOVA E SULLA ORIGINE DEI MICETOCITI NELLA DIASPIS (=PSEUDAULACASPIS) PENTAGONA TARG. Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 17: 51-88, illus.
Reports 2 kinds of ovarian eggs.
- 1960 CICLO CROMOSOMICO E SIMBIOSI ENDOCELLULARE NELLA DIASPIS (PSEUDAULACASPIS) PENTAGONA TARG. Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 18: 151-225, illus.
Oogenesis, symbionts discussed.
- 1960a OSSERVAZIONI SUL DESTINO DEI GLOBULI POLARI E SULLA SIMBIOSI ENDOCELLULARE IN ALCUNI COCCIDI. Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 18: 285-293.
Describes cytological development of cells for reception of symbionts.
- 1961 OSSERVAZIONI SULLA CARIOLOGIA E SULLA SIMBIOSI ENDOCELLULARE DI ALCUNE COCCINI (SPHAEROLECANIUM PRUNASTRI FONSC. ED EULECANIUM CORYLI L.). Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 19: [215]-260, illus.
The endosymbiosis discovered in these 2 species is more complex than that found in Coccidae (str.) previously studied.
- 1961a ULTERIORI CONSIDERAZIONI SUI DUE TIPI DI OVARIOLI DELLA DIASPIS (PSEUDAULACASPIS) PENTAGONA TARG. Portici Lab. di Ent. Agr. "Filippo Silvestri" Bol. 19: [291]-300, illus.
Discusses occurrence of 2 types of ovarioles in this coccid.

TSENG, S.

- 1947 A NEW SCALE INSECT PARASITIC ON THE IVY. (In Chinese.) Tezisy Statei, Izd. Kitaiskogo Nauch. Obshch. I: 21.
Takahashia wuchangensis n. sp. (Not seen; from Borchsenius 1957, p. 288.)

TUTHILL, L. D., see Beardsley, J. W., and Tuthill, L. D.

UNDERWOOD, G. R., see Watson, W. Y., Underwood, G. R., and Reid, J.

VAYSSIÈRE, P.

- 1957 MONOPHLEBINES NUISABLE AU COTONNIER ET A L'ARACHIDE EN AFRIQUE (HOMOPTERA, COCCIDAE). Inst. Roy. des Sci. Nat. de Belgique Bul. 33: 1-8, illus.
Vrydagha lepesmei n. gen. and n. sp., *Monophleboides arachidis* n. sp.

VOGEL, V. W.

- 1960 EINIGE MIKROSKOPISCHE MERKMALE DER WEIBCHEN DER SAN-JOSESCHILDLAUS, QUADRASPIDIOTUS PERNICIOSUS. Schweiz. Ztschr. f. Obst u. Weinbau 69: 265-267, illus.
Short discussion of significant recognition characters illustrated by photomicrographs.

WATSON, W. Y., UNDERWOOD, G. R., and REID, J.

- 1960 NOTES ON MATSUOCOCCUS MACROCATRICES RICHARDS (HOMOPTERA: MARGARODIDAE) AND ITS ASSOCIATION WITH SEPTOBASIDIUM PINICOLA SNELL IN EASTERN CANADA. Canad. Ent. 92: 662-667, illus.
Observations on biology and distribution of this scale and its insect-fungus relationship, believed to be symbiotic.

WAY, M. J.

1954 STUDIES OF THE LIFE HISTORY AND ECOLOGY OF THE ANT *OECOPHYLLA LONGINODA* LATR. *Bul. Ent. Res.* 45: 93-112, illus.

Many coccids mentioned as attended by this ant on various host plants in Zanzibar Island.

1954a STUDIES ON THE ASSOCIATION OF THE ANT *OECOPHYLLA LONGINODA* (LATR.) (FORMICIDAE) WITH THE SCALE INSECT *SAISSETIA ZANZIBARENSIS* WILLIAMS (COCCIDAE). *Bul. Ent. Res.* 45: 113-134, illus.

Detailed study of interrelationships.

WEI, H., *see* Chou, M., Chung, C., and Wei, H.

WHITE, M. J. D.

1957 CYTOGENETICS AND SYSTEMATIC ENTOMOLOGY. *Ann. Rev. Ent.* 2: 71-90. Coccids mentioned.

WIGGINS, I. L., and others.

1958 [GORDON FLOYD FERRIS]—MEMORIAL NUMBER. *Microentomology* 23: [65]-92.

Includes bibliography of Ferris scientific papers and lists of Ferris new scientific names (compiled by Wesley R. Nowell); Coccoidea 1 new family, 75 new genera, and 331 new species.

WILKEY, R. F.

1962 A SIMPLIFIED TECHNIQUE FOR CLEARING, STAINING AND PERMANENTLY MOUNTING SMALL ARTHROPODS. *Ent. Soc. Amer. Ann.* 55: 606. Outlines procedures for improved preparation and mounting on slides of many small arthropod groups including Coccoidea.

WILKEY, R. F., and MCKENZIE, H. L.

1962 SYSTEMATIC STATUS OF THE PSEUDOCOCCUS MARITIMUS-MALACEARUM COMPLEX OF MEALYBUGS. *Calif. Dept. Agr. Bul.* 50 (Oct.-Nov.-Dec. 1961): 245-249, illus.

Reviews status and recognition bases of some common California mealybugs: *maritimus* valid, *obscurus* accepted for *malacearum*, *comstocki* valid.

WILLIAMS, D. J.

1957 THE STATUS OF COCCUS PALMAE HAWORTH AND THE IDENTITY OF LECAANIUM COFFEAEE WALKER (COCCOIDEA: HOMOPTERA). *Entomologist* 90: 314-315.

C. palmae Haworth a synonym of *Saissetia oleae* (Bern.); name *S. coffeae* (Walk.) replaces *S. hemisphaerica* (Targ.).

1957a THE GENUS SEMELASPIDUS MACGILLIVRAY (ASPIDIOTINI, COCCOIDEA: HEMIPTERA). *Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy* 26: 33-42, illus.

Historical review of genus; key to 4 included species; *S. theobromae* n. sp.

1958 MEALYBUGS (PSEUDOCOCCIDAE: HOMOPTERA) DESCRIBED BY W. M. MASKELL, R. NEWSTEAD, T. D. A. COCKERELL AND E. E. GREEN FROM THE ETHIOPIAN REGION. *Brit. Mus. (Nat. Hist.) Ent. Bul.* 6: [205]-236, illus.

Discussion of 31 species, including redescriptions of 10 with generic reassignments as considered necessary (3) and mention of 21 with reference to synonymy where previously established or to detailed treatment by others.

1958a A NEW SPECIES OF EURYCOCCUS FERRIS (HOMOPTERA: PSEUDOCOCCIDAE) FROM ISRAEL. *Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy* 27: 22-24, illus.

E. sternlichti n. sp.

WILLIAMS, D. J.—Continued.

1958b THE MEALYBUGS (PSEUDOCOCCIDAE-HOMOPTERA) DESCRIBED BY W. J. HALL, F. LAING AND A. H. STRICKLAND FROM THE ETHIOPIAN REGION. Brit. Mus. (Nat. Hist.) Ent. Bul. 7: 1-37, illus.

Discusses 23 species with 15 redescriptions, new generic assignments where considered necessary (3), 4 transfers into synonymy, and 4 mentions with reference to other treatment.

1960 THE PSEUDOCOCCIDAE (COCCOIDEA: HOMOPTERA) OF THE SOLOMON ISLANDS. Brit. Mus. (Nat. Hist.) Ent. Bul. 8: [387]-430, illus.

Records 21 species of Pseudococcidae for this area; key to genera represented; 7 new genera and 12 new species described.

1960a A NEW SPECIES OF PLANOCOCCUS FERRIS (COCCOIDEA: HOMOPTERA) ON YAMS IN NEW GUINEA. Papua and New Guinea Agr. Jour. 13: 39, illus.

P. dioscoreae n. sp.

1960b A NEW SPECIES OF DYSMICOCCUS FERRIS (PSEUDOCOCCIDAE, HOMOPTERA) ON BANANA. Bul. Ent. Res. 51: 239-241, illus.

D. alazon n. sp.

1960c SOME NEW DIASPIDINI (COCCOIDEA: HOMOPTERA) FROM AFRICA. Brit. Mus. (Nat. Hist.) Ent. Bul. 9: [389]-399, illus.

Fulaspis karroo, *Howardia stricklandi*, *Lepidosaphes taplevi*, *Rolaspis monile*, *syrix* n. spp.

1960d A NEW SPECIES OF GREENIELLA COCKERELL (ASPIDIOTINI: COCCOIDEA: HOMOPTERA) FROM MALAYA. Roy. Ent. Soc., London, Proc. Ser. B: Taxonomy 29: 153-154, illus.

G. ramosa n. sp.

1961 NOTES ON THE GENUS HETEROCOCCUS FERRIS (COCCOIDEA, HOMOPTERA) WITH A DESCRIPTION OF A NEW SPECIES INJURIOUS TO GUINEA-CORN (SORGHUM VULGARE) IN NIGERIA. Bul. Ent. Res. 51: 671-675, illus.

H. nigeriensis n. sp., *H. pulverarius* n. comb.

1961a CHANGES IN NOMENCLATURE AFFECTING SOME COCCOIDEA (HOMOPTERA). Ent. Monthly Mag. 97: 92-93.

Aulacaspis cinnamomi Newst. 1908 and *mangiferae* Newst. 1911 are *A. tubercularis* Newst. 1906; *Rhizoecus moruliferus* Green 1933 is *R. falcifer* Kunck. 1868; *Hypericococcus* n. name, proposed for *Trachycoccus Ferris* 1955, preoccupied.

1962 THE BRITISH PSEUDOCOCCIDAE (HOMOPTERA: COCCOIDEA). Brit. Mus. (Nat. Hist.) Ent. Bul. 12 (1): 1-79, illus.

Classificatory review of 42 species in 20 genera; keys to genera and species where needed; frequent generic transfers; reports of new synonymy and reestablishment of obscure species; *Balanococcus boratynskii* n. gen. and n. sp.; *Atrococcus cracens*, *Saccharicoccus penium*, *Trionymus orestes* n. spp.

1962a TWO NEW SOUTH AFRICAN DIASPIDIDAE (HOMOPTERA). Ent. Soc. South. Africa Jour. 25: [128]-132, illus.

Clavaspis pituranthi, *Duplachionaspis albicans* n. spp.

See also Borchsenius, N. S., and Williams, D. J.; Hall, W. J., and Williams, D. J.

WIRJATI

1958 ON A SMALL MEALYBUG FROM A VIRGIN FOREST. Idea (Jour. Ent. Soc. Indonesia) 11: 14-17, illus.

Pseudococcus dorsospinosus n. sp.

1959 A NEW SPECIES OF TRIONYMUS FOUND ON RICE-ROOTS IN JAVA. Idea (Jour. Ent. Soc. Indonesia) 12: 14-19, illus.

T. oryzae n. sp.

Wood, E. A., see Chada, H. L., and Wood, E. A.

YASUMATSU, K., and NAKAE, S. I.

1957 EXPERIMENTS ON THE DISPERSAL OF THE CRAWLING LARVAE OF SOME COCCOIDEA (HOMOPTERA) BY AIR CURRENTS. (In Japanese, English summary.) Kyushu Imper. Univ. Dept. Agr. Facul. Agr. Sci. Bul. 16: 203-219.

Report on experiments with fan currents; 5 species of coccids tested.

ZAHRADNÍK, J.

1956 REMARQUES SUR LA PRÉSENCE DE QUELQUES ESPÈCES DES COCHENILLES-PSEUDOCOCCIDAE EN TCHÉCOSLOVAQUIE (HOM. COCCOIDEA, PSEUDOCOCCIDAE). (In French.) Prague Národ. Mus. Ent. Oddělení Sborn. Faunistických Práci 1: 49-52, illus.

Adds 4 coccid species to Czech faunal list.

1957 NEUE SCHILDLAUSFUNDE IN DEN GEWÄCHSHÄUSERN DER TSCHECOSLOWAKEI. (In German, English summary.) Pflanzenschutzberichte 19: 45-52, illus.

Records 8 coccid species newly discovered in Czech greenhouses.

1957a UEBER DIE GEOGRAPHISCHE VERBREITUNG DER SCHILDLÄUSE (HOMOPTERA, COCCOIDEA) IN MITTELEUROPA. Ent. Nachr. Osterreich. u. Schweiz. Ent. 8 (1956): [3]-7.

General discussion; various authors and coccid species mentioned.

1959 BORCHSENIASPIS NOVUM GENUS, TYPUS ASPIDIOTUS PALMAE MORGAN ET COCKERELL, 1893 (HOMOPTERA, DIASPIDIDAE). Prague Národ. Mus. Ent. Oddělení Sborn. Faunistických Práci 5: 65-67.

Description; key to this and *Hemiberlesia* and *Abgrallaspis*.

1959a ČĚRVCÍ—COCCINEA [SCALE INSECTS—COCCINEA]. (In Czech.) Praha Klíč Zvířeny Českoslov. Sociální Repub. 3: 527-552.

Keys to 10 coccid families and 84 genera; listings under each genus of reported Czech species.

1959b KRITICKÁ BIBLIOGRAFIE ČERVCU ČESKOSLOVENSKA (HOMOPTERA, COCCINEA.) (In Czech.) Prague Národ. Mus. Ent. Oddělení Sborn. Faunistických Práci Sup. 1, 69 p.

Incomplete, critically selected bibliography of papers discussing Czech coccids; list of name transfers from those in papers cited to author's current usage.

1962 DIASPIDIDES NOUVEAUX OU PEU CONNUS DANS LA FAUNE TCHÉCOSLOVAQUE. (HOMOPTERA, DIASPIDIDAE). (In French.) Prague Národ. Mus. Ent. Oddělení Sborn. Faunistických Práci 8: 91-94, illus.

Chionaspis lepinyi Bal., *Targionia vitis* (Sign.), and *Diaspidiotus distinctus* (Leonardi) reported for first time from Czechoslovakia; new localities for *Mohelnaspis massiliensis* (Goux) and *Syngenaspis parlatoriae* Sulc.

ZIMMERMAN, E. C.

1957 INSECTS OF HAWAII. Ephemeroptera-Neuroptera-Trichoptera and Supplement to Volumes 1-5. Honolulu, Univ. Hawaii Press. V. 6, 209 p. Coccoidea p. 197-201.

Corrections given for earlier volumes; 8 additional coccids recorded.



