

References

- Aleksidze G. N. 1970: *Adalia bipunctata*. Zashch. Rast., 1970: 12 (in Russian).
- Allee W. C., Emerson A. E., Schmidt K. P., Park O., Park Th. 1949: The principles of animal ecology. 837 pp., Saunders, Philadelphia.
- Allen D. C., Knight F. B., Foltz J. L. 1970: Invertebrate predators of the jack-pine budworm, *Choristoneura pinus*, in Michigan. Ann. ent. Soc. Am., 63: 59—64.
- Amman G. D. 1966: *Aphidecta oblitterata* (Coleoptera: Coccinellidae), an introduced predator of the balsam woolly aphid, *Chermes piceae* (Homoptera: Chermidae), established in North Carolina. J. econ. Ent., 59: 506—508.
- Andrewartha H. G. 1952: Diapause in relation to the ecology of insects. Biol. Rev., 27: 50—107.
- Andrewartha H. G., Birch L. C. 1954: The distribution and abundance of animals. 782 pp., Univ. Chicago Press.
- Asgari A. 1966: Untersuchungen über die im Raum Stuttgart Hohenheim als wichtigste Prädatoren der grünen Apfelblattlaus (*Aphidula pomi* Deg.) auftretenden Arthropoden. Z. angew. Zool., 53: 35—93.
- Atallah Y. H., Killebrew R. 1967: Ecological and nutritional studies on *Coleomegilla maculata* (Coleoptera: Coccinellidae). IV. Amino acid requirements of the adults determined by the use of C^{14} -labeled acetate. Ann. ent. Soc. Am., 60: 186—188.
- Atallah Y. H., Nettles W. C. jr. 1966: DDT-metabolism and excretion in *Coleomegilla maculata* DeGeer. J. econ. Ent., 59: 560—564.
- Atallah X. H., Newsom L. D. 1966a: Ecological and nutritional studies on *Coleomegilla maculata* DeGeer (Coleoptera: Coccinellidae). I. The development of an artificial diet and a laboratory rearing technique. J. econ. Ent., 59: 1173—1179.
- Atallah Y. H., Newsom L. D. 1966b: Ecological and nutritional studies on *Coleomegilla maculata* DeGeer (Coleoptera: Coccinellidae). III. The effect of DDT, Toxaphene, and Endrin on the reproductive and survival potentials. J. econ. Ent., 59: 1181—1187.
- Atwal A. S., Sethi S. L. 1963: Biochemical basis for the food preference of a predator beetle. Curr. Sci., 32: 511—512.
- Avidov Z., Rosen D. 1965: Studies towards an integrated control programme of citrus pests in Israel. 12. Int. Congr. Ent. London, 1964, pp. 572—573.
- De Bach P. 1945: An insecticidal check method for measuring the efficacy of entomophagous insects. J. econ. Ent., 39: 647—658.
- De Bach P. 1947: Cottony-cushion scale, *vedalia* and DDT in central California. Calif. Citrogr., 32: 406—407.
- De Bach P. (Ed.) 1964: Biological control of insect pests and weeds. 844 pp., Chapman & Hall Ltd., London.
- De Bach P., Dietrick E. J., Fleschner C. A. 1949: A new technique for evaluating the efficiency of entomophagous insects in the field. J. econ. Ent., 42: 546.
- Balachowsky A. 1930: L'extension de la cochenille australienne (*Icerya purchasi* Mask.) en France et de son prédateur *Novius cardinalis* Muls. Anns Epiphyt., 16: 1—24.
- Baldaf W. V. 1926: The bionomics of *Dinocampus coccinellae* Schrank. Ann. ent. Soc. Am., 19: 465—489.
- Baldaf W. V. 1935: The bionomics of entomophagous Coleoptera. (13. Coccinellidae — lady beetles). 220 pp., John S. Swift Co. Inc., Chicago, New York.
- Banks C. J. 1954a: Random and non-random distributions of Coccinellidae. J. Soc. Br. Ent., 4:211—215.

- Banks C. J. 1954b: The searching behaviour of coccinellid larvae. *Br. J. Anim. Behav.*, 2: 37—38.
- Banks C. J. 1955: An ecological study of Coccinellidae associated with *Aphis fabae* Scop. on *Vicia faba*. *Bull. ent. Res.*, 46: 561—587.
- Banks C. J. 1956: A second record of a tachinid (Dipt.) parasite bred from one of the Coccinellinae (Col., Coccinellidae). *Entomologist's mon. Mag.*, 92: 188.
- Banks C. J. 1957: The behaviour of individual Coccinellid larvae on plants. *Br. J. Anim. Behav.*, 5: 12—24.
- Bänsch R. 1964: Vergleichende Untersuchungen zur Biologie und zum Beutefangverhalten aphidovorer Coccinelliden, Chrysopiden und Syrphiden. *Zool. Jb. Syst.*, 91: 271—340.
- Bartlett B. R. 1965: The repellent effects of some pesticides to hymenopterous parasites and coccinellid predators. *J. econ. Ent.*, 58: 294—296.
- Bartlett B. R., Legace C. F. 1960: Interference with the biological control of cottony-cushion bed by insecticides and attempts to re-establish a favourable natural balance. *J. econ. Ent.*, 53: 1055—1058.
- Beck S. D. 1968: *Insect photoperiodism*. 288 pp., Academic Press, New York — London.
- Behrendt K. 1969: Über langjährige Massenwechselbeobachtungen an der Schwarzen Bohnenblattlaus, *Aphis fabae* Scopoli (Homoptera: Aphididae). *TagBer.*, 10, Wanderversamm. dtsh. Ent.
- Ben-Dov Y., Rosen D. 1969: Efficacy of natural enemies of the California red scale on citrus in Israel. *J. econ. Ent.*, 62: 1057—1060.
- Benham B. R., Muggleton J. 1970: Studies on the ecology of *Coccinella undecimpunctata* Linn. (Col. Coccinellidae). *Entomologist*, 153—170.
- Benkevich V. I. 1958: Biology of *Coccinella septempunctata*. *Uchen. Zap. Orekh. Zuev. pedagog. Inst.*, 11: 127—133 (in Russian).
- Benner, Franz, Ansorge 1905: Discussion. *Z. Ent.*, 30.
- Berker J. 1958: Die natürlichen Feinde der Tetranychiden (*Stethorus punctillum*). *Z. angew. Ent.*, 43: 115—172.
- Bielawski R. 1959: Biedronki — Coccinellidae. *Klucze Oznac. Owad. Polski*, 19, 76, 92 pp., Warszawa (in Polish).
- Bielawski R. 1961: Die in einem Krautpflanzenverein und in einer Kieferschönung in Warszawa/Bielany auftretenden Coccinellidae (Coleoptera). *Fragm. faun. (Warszawa)*, 8: 485—525.
- Bielawski R., Klausnitzer B. 1970: Redescription von *Chilocorus malasiae* Cr. samt Beschreibung der Larvae (Col., Coccinellidae). *Bull. Acad. pol. Sci., Cl. 2, Sér. Sci. biol.*, 18: 343—345.
- Binaghi G. 1941: Gli stadi preimaginali del *Pullus auritus* Thunb. e dello *Scymnus rufipes* Fabr. *Memorie Soc. ent. ital.*, 20: 148—161.
- Binaghi G. 1941: Larve e puppe di *Chilocorini*. *Memorie Soc. ent. ital.*, 20: 19—36.
- Blackman R. L. 1965: Studies on specificity in Coccinellidae. *Ann. appl. Biol.*, 56: 336—338.
- Blackman R. L. 1967a: The effects of different aphid foods on *Adalia bipunctata* L. and *Coccinella 7-punctata* L. *Ann. appl. Biol.*, 59: 207—219.
- Blackman R. L. 1967b: Selection of aphid prey by *Adalia bipunctata* L. and *Coccinella 7-punctata* L. *Ann. appl. Biol.*, 59: 331—338.
- Blatný C. 1925: Het voorspellen van het massaal optreden van schadelijke insekten. *Tijdschr. PlZiekt.*, 31: 139—144.
- Blatný C., Osvald C. V. 1949: Contribution à la connaissance des signes génériques et de la biologie du *Stethorus punctillum* Weise. *Věst. Čs. spol. zool.*, 13: 30—40 (in Czech, Engl. summ.).
- Blunck H. 1914: Die Entwicklung des *Dytiscus marginalis* vom Ei bis zur Imago. *Z. wiss. Zool.*, 111: 76—151.
- Bodenheimer F. S. 1943: Studies on the life-history and ecology of Coccinellidae. I. The life-history of *Coccinella 7-punctata* L. in four different zoogeographical regions. *Bull. Soc. Fouad I. Ent.*, 27: 1—28.
- Bodenheimer F. S. 1951: *Citrus entomology in the Middle East*. 663 pp., Dr. W. Junk, The Hague.
- Bodenheimer F. S., Neumark S. 1955: The Israel pine *Matsucoccus* (*Matsucoccus josephi* n. sp.). 122 pp., Kiryath Sepher Ltd, Jerusalem.
- Bogdanova N. L. 1956: *Hyperaspis campestris* Herbst (Coleoptera, Coccinellidae) as destroyer of *Chloropulvinaria floccifera* Westw. (Homoptera, Coccidoidea). *Ent. Obzor.*, 35: 311—322 (in Russian).
- Bombosch S. 1963: Untersuchungen zur Vermehrung von *Aphis fabae* Scop. in Samenrübenbeständen unter besonderer Berücksichtigung der Schwebfliegen (Diptera, Syrphidae). *Z. angew. Ent.*, 52: 105—141.
- Bombosch S. 1965: Untersuchungen über die Disposition und Abundanz von Blattläusen und deren natürlichen Feinden. 12. *Int. Congr. Ent.*, London 1964, pp. 578—580.

- Bonnemaïson L. 1964: Observations écologiques sur la Coccinelle à 7 points (*Coccinella septempunctata* L.) dans la région parisienne (Col.). Bull. Soc. ent. Fr., 69: 64—83.
- Börner C., Heinze K. 1937: Aphidina. In P. Soraucr: Handbuch der Pflanzenkrankheiten, 5/4, Berlin—Hamburg.
- Van den Bosch R., Schlinger E. I., Dietrick E. J., Hall I. M. 1959: The role of imported parasites in the biological control of the spotted alfalfa aphid in southern California in 1967. (Coccinellid activity). J. econ. Ent., 52: 142—154.
- Böving A. 1917: A generic synopsis of the Coccinellid larvae in the United National Museum with a description of the larva of *Hyperaspis binotata* Say. Proc. U. S. natn. Mus., 51: 621—650.
- Brassler K. 1930: Ist *Coccinella septempunctata* L. wirklich nur Blattlausfresser? Z. PflKrankh. PflPath. PflSchutz, 40: 511—513.
- Brown H. D. 1969: The predacious Coccinellidae associated with the wheat aphid, *Schizaphis graminum* (Rond.) in the Orange Free State. D. Sc. Thesis, Univ. Stellenbosch, S. Africa.
- Bryden J. W., Bishop M. W. H. 1945: *Coccinella* 7-punctata, parasitized by *Perilitus coccinellae* (Hym., Braconidae) in Cambridgeshire. Entomologist's mon. Mag., 81: 51—52.
- Butt F. H. 1951: Feeding habitats and mechanism of the Mexican bean beetle. Cornell Univ. Agr. Exp. Sta., Mem. 306, 32 pp., Ithaca, New York.
- Camargo F. 1937: Notas taxonomicas e biologicas sobre alguns Coccinellideos do genero *Neocalvia* Crotch, predadores de larvas de genero *Psyllobora* Chevrolat (Col. Coccinellidae). Revta Ent. Rio de J., 7: 362—377.
- Campbell W. V., Hutchins R. E. 1964: Toxicity of insecticides to some predaceous insects on cotton. J. econ. Ent., 45: 786—789.
- Capra F. 1947: Note sui Coccinellidi (Col.) III. La larva ed il regime pollinivoro di *Bulaea lichatschovi* Hummel. Mem. Soc. ent. ital., Suppl. 26: 80—86.
- Carnes E. K. 1912a: Collecting ladybirds (Coccinellidae) by the ton. Mon. Bull. Calif. Commn Hort., 1: 71—81.
- Carnes E. K. 1912b: An explanation of the hibernating habits of *Hippodamia convergens*. Mon. Bull. Calif. Commn Hort., 1: 177—188.
- Cavalloro R. 1949: Contributo alla biologia dei "Coccinellidi predatori" nell Umbria con particolare riguardo a "*Coccinella septempunctata* L.". 26 pp., Tipografia Perugina già Santucci, Perugia.
- Cherry E. T., Pless C. D. 1969: Bioassay of leaves from tobacco grown on soil treated with certain systematic insecticides. J. econ. Ent., 62: 1313—1316.
- Chumakova B. M. 1962: Experiments in rearing of predatory beetle *Cryptolaemus montrouzieri* Muls. on an artificial diet. Zesz. probl. Postep Nauk roln., 35: 195—200.
- Clausen C. P. 1940: Entomophagous insects. 688 pp., McGraw-Hill, New York-London.
- Clements F. E., Shelford U. E. 1939: Bio-Ecology. 425 pp., Wiley Inc., New York.
- Colburn R., Asquith D. 1970: A cage used to study the finding of a host by the ladybird beetle, *Stethorus punctum*. J. econ. Ent., 63: 1376—1377.
- Collyer E. 1964: Phytophagous mites and their predators in New Zealand orchards. N. Z. J. agric. Res., 7: 551—568.
- Colyer Ch. N. 1952: Notes on the life history of the British species of *Phalacrotophora* Enderlein (Dipt., Phoridae). Entomologist's mon. Mag., 88: 135—139.
- Cooke W. C. 1963: Ecology of the pea aphid in the Blue Mountain area of eastern Washington and Oregon. Tech. Bull. U. S. Dep. Agric., 1287, 48 pp.
- Cushman R. A. 1922: The identity of *Ichneumon coccinellae* Schrank (Hym.). Proc. ent. Soc. Wash., 24: 241—242.
- Danilevskii A. S. 1961: Photoperiodism and seasonal development in insects. 243 pp., Izd. Leningrad. Univ. (in Russian).
- Danilevskii A. S. (Ed.) 1968: Photoperiodic adaptations in insects and acari. 271 pp., Izd. Leningr. Univ. (in Russian, Engl. summ.).
- Dauguet P. 1949: Les Coccinellini de France. 46 pp., Paris.
- Davidson I. 1942: On the speed of development in insect eggs at constant temperatures. Aust. J. exp. Biol. med. Sci., 20: 233—239.
- Davidson I. 1944: On the relationship between temperature and rate of development of insects at constant temperatures. J. Anim. Ecol., 13: 26—38.
- Delucchi V. 1954: *Pullus impexus* (Muls.) (Coleoptera, Coccinellidae) a predator of *Adelges piceae* (Ratz.) (Hemiptera, Adelgidae), with notes on its parasites. Bull. ent. Res., 45: 243—278.
- Dempster J. P. 1960: A quantitative study of the predators on the eggs and larvae of the brown beetle, *Phytodecta olivacea* Forster, using the precipitin test. J. Anim. Ecol., 29: 149—167.
- Dickson R. C., Laird E. F., Pesho G. R. 1955: The spotted alfalfa aphid (*Therioaphis maculata*).

- (Predator relationship: Hemiptera, Coccinellidae, Syrphidae, Neuroptera). *Hilgardia*, 24: 93—118.
- Dixon A. F. G. 1958: The escape responses shown by certain Aphids to the presence of the Coccinellid *Adalia decempunctata* (L.). *Trans. R. ent. Soc. Lond.*, 110: 319—334.
- Dixon A. F. G. 1959: An experimental study of the searching behaviour of the predatory coccinellid beetle *Adalia decempunctata* (L.). *J. Anim. Ecol.*, 28: 259—281.
- Dixon A. F. G. 1970: Factors limiting the effectiveness of the coccinellid beetle, as a predator of the sycamore aphid, *Brachosiphum platanoides* (Schr.). *J. Anim. Ecol.*, 39: 739—751.
- Dixon A. F. G., Martin-Smith M., Sulzermanian G. 1965: Constituents of *Megoura viciae* Euckton. *J. chem. Soc.*, 1965: 1562—1564.
- Dobrzanski F. G. 1922a, b: Imaginal diapause in Coccinellidae. Mass aggregations and migrations in Coccinellidae. *Izv. Otd. prikl. Ent.*, 2: 103—124, 229—234.
- Dobzhansky T. 1924: Über geographische und individuelle Variabilität von *Adalia bipunctata* und *Adalia decempunctata*. *Russk. ent. Obozr.*, 18: 201—211.
- Dobzhansky T. 1925: Über das Massenaufreten einiger Coccinelliden im Gebirge Turkestans. *Z. wiss. Insektbiol.*, 20: 249—256.
- Dobzhansky T. 1933: Geographical variation in lady-beetles. *Am. Nat.*, 67: 97—126.
- Dobzhansky T., Sivertzew-Dobzhansky N. P. 1927: Die geographische Variabilität von *Coccinella septempunctata*. *Biol. Zbl.*, 47: 556—569.
- Domenichini G. 1953: *Degeeria luctuosa* (fuehris) Meug. (Dipt. Larv.) e *Perilitus deceptor* Wesm. (Hym. Bracon.) parassiti di *Melasma aenea* L. adulta. *Boll. Zool. agr. Bachic. Milano*, 19: 103—140.
- Domenichini G. 1956: Contributo alla conoscenza dei parassiti e iperparassiti dei Coleoptera Coccinellidae. *Boll. Zool. agr. Bachic. Milano*, 22: 215—246.
- Dosse G. 1967: Schadmilben des Lilanens und ihre Fresser. *Z. angew. Ent.*, 59: 16—48.
- Douglass J. R. 1930: Hibernation of the convergent ladybeetle *Hippodamia convergens* Guer., on a mountain peak in New Mexico. *J. econ. Ent.*, 23: 288.
- Doutt R. L. 1951: Biological control of mealybugs infesting commercial greenhouse gardenias. *J. econ. Ent.*, 44: 37—40.
- Downes J. A. 1965: Adaptations of insects in the arctic. *A. Rev. Ent.*, 10: 257—274.
- Dumas B. A., Boyer W. P., Whitcomb W. H. 1964: Effect of various factors on surveys of predaceous insects in soybeans. *J. Kans. ent. Soc.*, 37: 192—201.
- Dumbleton L. D. 1936: The biological control of fruit pests in New Zealand. *N. Z. Jl. Sci. Technol.*, 18: 588—592.
- Dunn J. A. 1949: The parasites and predators of potato aphids. *Bull. ent. Res.*, 40: 97—122.
- Dunn J. A. 195: The effect of temperature on the pea aphid-ladybird relationship. 2nd Rept., pp. 21—23. *Natl. Veg. Res. Sta., Wellesbourne*.
- Dunn J. A. 1960: The natural enemies of the lettuce root aphid, *Pemphigus bursarius* (L.). *Bull. ent. Res.*, 51: 271—278.
- Dunn J. A. 1965: Studies on the aphid, *Cavariella aegopodii* Scop. I. On willow and carrot. *Ann. appl. Biol.*, 56: 429—438.
- Dyadechko N. P. 1953: On the preservation of predators controlling tetranychid mites in orchards. *Sad i ogorod*, 1953, 2: 40 (in Russian).
- Dyadechko N. P. 1954: Coccinellids of the Ukrainian SSR, 156 pp., Kiev (in Russian).
- Eastop V. F., Pope R. D. 1966: Notes on the ecology and phenology of some British Coccinellidae. *Entomologist*, 99: 287—289.
- Eastop V. F., Pope R. D. 1969: Notes on the biology of some British Coccinellidae. *Entomologist*, 102: 162—164.
- Eichhorn O., Graf P. 1971: Sex-linked colour polymorphism in *Aphidecta oblitterata* L. (Coleoptera: Coccinellidae). *Z. angew. Ent.*, 67: 225—231.
- Ellingsen I.-J. 1969a: Fecundity, aphid consumption and survival of the aphid predator *Adalia bipunctata* L. (Col., Coccinellidae). *Norsk ent. Tidsskr.*, 16: 91—95.
- Ellingsen I.-J. 1969b: Effect of constant and varying temperature on development, feeding, and survival of *Adalia bipunctata* L. (Col., Coccinellidae). *Norsk ent. Tidsskr.*, 16: 121—125.
- van Emden F. I. 1949: Larvae of British beetles. VII (Coccinellidae). *Entomologist's mon. Mag.*, 85: 265—283.
- van Emden H. F. 1963: A field technique for comparing the intensity of mortality factors acting on the cabbage aphid, *Brevicoryne brassicae* (L.) (Hem.: Aphididae) in different areas of a crop. *Entomologia exp. appl.*, 6: 53—62.
- van Emden H. F. 1965a: The role of uncultivated land in the biology of crop pests and beneficial insects. *Scient. Hort.*, 17: 121—136.

- van Emden H. F. 1965b: The importance of adjacent uncultivated land in relation to crop pest insects. 12. Int. Congr. Ent., London 1964, 577 pp.
- van Emden H. F. 1965c: The effect of uncultivated land on the distribution of cabbage aphid (*Brevicoryne brassicae*) on an adjacent crop. J. appl. Ecol., 2: 171—196
- van Emden H. F., Eastop V. F., Hughes R. D., Way M. J. 1969: The ecology of *Myzus persicae*. A. Rev. Ent., 14: 197—270.
- Engelmann F. 1968: Endocrine control of reproduction in insects. A. Rev. Ent., 13: 1—26.
- Ermolenko S. F. 1963: Histological and histochemical study of the fat body in connection with maturation of gonades in *Cryptolaemus montrouzieri* Muls. (Coleoptera, Coccinellidae). Ent. Obozr., 42: 56—76.
- Essig E. O. 1912: The walnut plant louse (*Chromaphis juglandicola* (Kalt.)) Walker. Mon. Bull. Calif. Commn Hort., 1: 190—194.
- Evans A. C. 1936: A note on the hibernation of *Micraspis sedecimpunctata* L. (var. 12-punctata L.) (Coccinell.) at Rothamsted Experimental Station. Proc. R. ent. Soc. London, 11: 116—119.
- Evenhuis H. H. 1960: Observations and experiments on the enemies of aphids, that are harmful for apple growing in Nova Scotia, in relation to the modified spray program of Dr A. D. Pickett. OnderzVersl. Inst. plantenziektenk. Onderz., 1960: 1—20.
- Evenhuis H. H. 1968: The natural control of the apple-grass aphid *Rhopalosiphum insertum*, with remarks on the control of apple aphids in The Netherlands in general. Neth. J. Pl. Path., 74: 106—117.
- Ewert M. A., Chiang H. C. 1966: Dispersal of three species of coccinellids in corn fields. Can. Ent., 93: 999—1001.
- Fabre J.—H. 1879: Souvenirs entomologiques, I. Etudes sur l'instinct et les moeurs des insectes. Paris, 5ème ed.
- Fenjves P. 1945: Beiträge zur Kenntnis der Blattlaus *Myzus (Myzodes) persicae* Sulz., Überträgerin der Blattrollenkrankheit der Kartoffel. Mitt. schweiz. ent. Ges., 19: 489—611.
- Fischer T. W. 1963: Mass culture of *Cryptolaemus* and *Leptomastix* natural enemies of citrus mealybug. Bull. Calif. agric. Exp. Stn, 797, 39 pp.
- Fleschner C. A. 1950: Studies on searching capacity of the larvae of three predators of the citrus red mite (*Paratetranychus citri*) (*Stethorus picipes*, *Conwentzia hageni*, *Chrysopa californica*) Hilgardia, 20: 233—265.
- Fleschner C. A. 1958: Field approach to population studies of Tetranychid mites on citrus and avocado in California. 10. Int. Congr. Ent. Montreal 1956, 2: 669—676.
- Fomenko R. B., Zaslavskii V. A. 1970: Genetics of gregarious behaviour in the coccinellid *Chilocorus bipunctatus* L. (Coleoptera, Coccinellidae). Dokl. Akad. Nauk SSSR, 192: 229—231 (in Russian).
- Forbes S. A. 1883: The food relations of the Carabidae and Coccinellidae. Bull. Ill. St. Lab. nat. Hist., 1: 33—64.
- Ford E. B. 1964: Ecological genetics. 335 pp., Methuen, London, J. Willey, New York.
- Franz J. M. 1958: The effectiveness of predators and food in limiting gradations of *Adelges (Dreyfusia) piceae* (Ratz.) in Europe. 10. Int. Congr. Ent. Montreal 1956, 4: 781—787.
- Frazer J. F. D., Rothschild M. 1962: Defence mechanisms in warningly coloured moths and other insects. 11. Int. Congr. Ent. Vienna 1960, 3: 249—256.
- Fulmek L. 1957: Insekten als Blattlausfeinde. Anln naturh. Mus. Wien, 61: 110—227.
- Fuzeau-Braesch S. 1961: Les déterminismes de la diapause chez les insectes. Anns Biol., 37: 44—69.
- Fuzeau-Braesch S. 1966: Etude de la diapause de *Gryllus campestris* (Orthoptera). J. Insect Physiol., 12: 449—455.
- Gage J. H. 1920: The larvae of the Coccinellidae. Illinois biol. Monogr., 6: 232—294.
- Gagné W. C., Martin J. L. 1968: The insect ecology of red pine plantations in central Ontario. V. The Coccinellidae (Coleoptera). Can. Ent., 100: 835—846.
- Galecka B. 1966: The role of predators in the reduction of two species of potato aphids, *Aphis nasturtii* Kalt. and *A. frangulae* Kalt. Ekol. pol., 14: 245—274.
- George K. S. 1957: Preliminary investigations on the biology and ecology of the parasites and predators of *Brevicoryne brassicae* (L.). Bull. ent. Res., 48: 619—629.
- Geyer J. W. C. 1947: A study of the biology and ecology of *Exochemus flavipes* Thunb. (Coccinellidae, Coleoptera). Part 1. 2. J. ent. Soc. Sth Afr., 9: 219—234, 10: 64—109.
- Ghahn A. 1951: Studies on the biology and control of *Epilachna chrysmelina* F. in Egypt. Bull. Soc. Fouad I. Ent., 35: 77—106.
- Goidanich A. 1943: Due Coccinelle igrofile e pollinivore sul riso (*Hippodamia 13-punctata* L., *Anisosticta 19-punctata* L.). Riscicoltura, 33: 145—156, 169—177.

- Goodarzy K., Davis D. W. 1958: Natural enemies of the spotted alfalfa aphid in Utah. J. econ. Ent., 51: 612—616.
- Graham M. W. R. de V. 1969: Synonymic and descriptive notes on European Encyrtidae (Hym., Chalcidoidea). Polskie Pismo ent., 39: 211—319.
- Gumoś H., Wiśniewski J. 1960: Intensity of appearing of Coccinellidae in pine woods. Polskie Pismo ent., B, 19/20: 217—223.
- Günther V. 1958: Ergebnisse der zoologischen Expedition des Nationalmuseums in Prag nach der Türkei. 22. Coleoptera-Coccinellidae. Sb. ent. Odd. nár. Mus. Praha, 32: 19—36.
- Gurney B., Hussey N. W. 1970: Evaluation of some coccinellid species for the biological control of aphids in protected cropping. Ann. appl. Biol., 65: 451—458.
- Hafez M., El-Ziady S. 1952: On the morphology of *Hyperaspis vinciguerrae* Capra. On the histology of the alimentary canal of *Hyperaspis vinciguerrae* Capra (Coleoptera: Coccinellidae). Bull. Soc. Fouad I. Ent., 36: 247—291, 293—310.
- Hagen K. S. 1962: Biology and ecology of predaceous Coccinellidae. A. Rev. Ent., 7: 289—326.
- Hagen K. S., van den Bosch R. 1968: Impact of pathogens, parasites, and predators on aphids. A. Rev. Ent., 13: 325—384.
- Hamilton E. W., Kieckhefer R. W. 1968: Integrated control of cereal aphids: tests with malathion and parathion. Proc. N. cent. Brch Am. Ass. econ. Ent., 23: 158—160.
- Hamilton E. W., Kieckhefer R. W. 1969: Toxicity of malathion and parathion to predators of the English grain aphid. J. econ. Ent., 62: 1190—1192.
- Hariri G. 1965: Records of nematode parasites of *Adalia bipunctata* (L.) (Col., Coccinellidae). Entomologist's mon. Mag., 101: 132.
- Hariri G. 1966a: Laboratory studies on the reproduction of *Adalia bipunctata* (Coleoptera, Coccinellidae). Entomologia exp. appl., 9: 200—204.
- Hariri G. 1966b: Changes in metabolic reserves of three species of aphidophagous Coccinellidae (Coleoptera) during metamorphosis. Entomologia exp. appl., 9: 349—358.
- Hariri G. 1966c: Studies on the physiology of hibernating Coccinellidae (Coleoptera): changes in the metabolic reserves and gonads. Proc. R. ent. Soc. Lond. (A), 41: 133—144.
- Harpaz I. 1958: Bionomics of the 11-spotted ladybird beetle, *Coccinella undecimpunctata* L., in a subtropical climate. 10. Int. Congr. Ent. Montreal 1956, 2: 657—659.
- Havnvik J. I., Frye R. D. 1969: An evaluation of insect predators and prey species found on corn. Proc. N. cent. Brch Am. Ass. econ. Ent., 24: 18—19.
- Hawkes O. A. M. 1920: Observations on the life history, biology, and genetics of the lady-bird beetle, *Adalia bipunctata* (Mulsant). Proc. zool. Soc. Lond., 1920: 475—490.
- Hawkes O. A. M., Marriner T. F. 1927: A preliminary account of the life-history of *Coccinella* 11-punctata (L.). Trans. R. ent. Soc. Lond., 75: 47—52.
- Heathcote G. D. 1969: Notes on some plant bugs and predators of aphids caught on sticky traps in sugar beet fields in southern England. I. I. R. B., 4: 25—29.
- Hecht O. 1936: Studies on the biology of *Chilocorus bipustulatus* (Coccinell.) an enemy of the red scale *Chrysomphalus aurantii*. Bull. Soc. Fouad I. Ent., 20: 299—326.
- Heikertinger F. 1932: Die Coccinelliden, ihr "Ekelblut", ihre Wartracht und ihre Feinde. Teil I. II. Biol. Zbl., 52: 65—102, 385—412.
- Hodek I. 1956: The influence of *Aphis sambuci* L. as prey of the ladybird beetle *Coccinella septempunctata* L. Věst. Čs. spol. zool., 20: 62—74 (in Czech, Engl. summ.).
- Hodek I. 1957a: The influence of *Aphis sambuci* L. as food for *Coccinella* 7-punctata L. II. Čas. Čs. spol. ent., 54: 10—17 (in Czech, Engl. summ.).
- Hodek I. 1957b: The larval food consumption of *Coccinella* 7-punctata L. Zool. listy, 6: 3—11 (in Czech, Engl. summ.).
- Hodek I. 1958: Influence of temperature, rel. humidity and photoperiodicity on the speed of development of *Coccinella septempunctata* L. Čas. Čs. spol. ent., 55: 121—141 (in Czech, Engl. summ.).
- Hodek I. 1959: Ecology of aphidophagous Coccinellidae. Int. Conf. Insect Path. biol. Control, Praha, 1958: 543—547.
- Hodek I. 1960a: Hibernation-bionomics in Coccinellidae. Čas. Čs. spol. ent., 57: 1—20 (in Czech, Engl. summ.).
- Hodek I. 1960b: The influence of various aphid species as food for the lady-birds *Coccinella* 7-punctata L. Ontogeny of Insects (Acta Symp. Praha), 1959: 314—316.
- Hodek I. 1962a: Experimental influencing of the imaginal diapause in *Coccinella septempunctata* L. (Col., Coccinellidae), II. Čas. Čs. spol. ent., 59: 297—313.
- Hodek I. 1962b: Essential and alternative food in insects. 11. Int. Congr. Ent. Vienna 1960, 2: 696—697.

- Hodek I. 1964: Die Schonung der natürlichen Feinde als Hilfe bei der integrierten Bekämpfung der Blattläuse. TagBer. dt. Akad. LandwWiss. Berlin, 60: 37—53.
- Hodek I. 1965: Several types of induction and completion of adult diapause. 12. Int. Congr. Ent., London 1964: 431—432.
- Hodek I. (ed.) 1966: Ecology of aphidophagous insects. Proc. Symp. Liblice near Prague, 1965, 360 pp., Academia, Praha, Dr. W. Junk, Haag.
- Hodek I. 1967: Bionomics and ecology of predaceous Coccinellidae. A. Rev. Ent., 12: 79—104.
- Hodek I. 1968: Diapause in females of *Pyrrhocoris apterus* L. (Heteroptera). Acta ent. bohemoslov., 65: 422—435.
- Hodek I. 1970: Termination of diapause in two coccinellids (Coleoptera). Acta ent. bohemoslov., 67: 218—222.
- Hodek I. 1971a: Sensitivity of larvae to photoperiods controlling the adult diapause of two insects. J. Insect Physiol., 17: 205—216.
- Hodek I. 1971b: Termination of adult diapause in *Pyrrhocoris apterus* (Heteroptera: Pyrrhocoridae) in the field. Entomologia exp. appl., 14: 212—222.
- Hodek I., Čerkašov J. 1958: A study of the imaginal hibernation of *Semiadalia undecimnotata* Schneid. (Coccinellidae, Col.) in the open, I. Věst. Čs. spol. zool., 22: 180—192 (in Czech, Engl. summ.).
- Hodek I., Čerkašov J. 1960: Prevention and artificial induction of the imaginal diapause in *Coccinella 7-punctata* L. Nature, 187: 345.
- Hodek I., Čerkašov J. 1961: Prevention and artificial induction of imaginal diapause in *Coccinella septempunctata* L. (Col., Coccinellidae). Entomologia exp. appl., 4: 179—190.
- Hodek I., Čerkašov J. 1963: Imaginal dormancy in *Semiadalia undecimnotata* Schneid. (Coccinellidae, Col.) II. Changes in water, fat and glycogen content. Věst. Čs. spol. zool., 27: 298—318.
- Hodek I., Hagen K. S., van Emden H. F. 1972: Methods for studying effectiveness of natural enemies. In Aphid Technology — I. B. P. Handbook, Academic Press, London and New York 344 pp. (147—188).
- Hodek I., Holman J., Starý P., Štys P., Zelený J. 1966: Natural enemies of *Aphis fabae* in Czechoslovakia. 126 pp., Academia, Praha (in Czech, Engl. summ.).
- Hodek I., Honek A. 1970: Incidence of diapause in *Aelia acuminata* (L.) populations from southwest Slovakia (Heteroptera). Věst. Čs. spol. zool., 34: 170—183.
- Hodek I., Honek A. 1971: Termination of adult diapause. 13. Int. Congr. Ent., Moscow, 1968, 1: 385.
- Hodek I., Landa V. 1971: Anatomical and histological changes during dormancy in two Coccinellidae. Entomophaga, 16: 239—251.
- Hodek I., Novák K., Skuhřavý V., Holman J. 1965: The predation of *Coccinella septempunctata* L. on *Aphis fabae* Scop. on sugar beet. Acta ent. bohemoslov., 62: 241—253.
- Hodek I., Starý P., Štys P. 1962: The natural enemy complex of *Aphis fabae* and its effectiveness in control. II. Int. Congr. Ent., Vienna 1960, 2: 747—749.
- Hodson A. C. 1937: Some aspects of the role of water in insect hibernation. Ecol. Monogr., 7: 271—315.
- Hoffer A. 1963: Descriptions of new species of the family Encyrtidae from Czechoslovakia (Hym., Chalcidoidea). Acta Ent. Mus. Nat. Pragae, 35: 549—592.
- Horion A. 1961: Faunistik der mitteleuropäischen Käfer. Bd. 8, Teil 2, 375 pp., Kommissionsverlag Feyel, Überlingen-Bodensee.
- Howard N. F., Landis B. J. 1936: Parasites and predators of the Mexican bean beetle in the United States. Circ. U. S. Dep. Agric., 418: 1—12.
- Huffaker C. B., Douthett R. L. 1965: Establishment of the coccinellid, *Chilocorus bipustulatus* Linnaeus, in California olive groves. Pan-Pacif. Ent., 44: 61—63.
- Hughes R. D. 1963: Population dynamics of the cabbage aphid, *Brevicoryne brassicae* (L.) J. anim. Ecol., 32: 393—424.
- Hukusima S. 1949: Microclimatic effect upon the feeding activity of the adult of *Epilachna vigintioctomaculata* Motschulsky in potato-fields of different furrow widths. (Activity fluctuation in insects and environmental condition, VIII.) Publ. Breeding Assoc. Potato Hokkaido, 24: 1—6.
- Hukusima S. 1950: Effect of microclimate caused by the different ridging in potato-field on the feeding activity of adult of *Epilachna vigintioctomaculata* Motschulsky. (Activity fluctuation in insect and environmental condition, IX.) Kontyu, 18: 18—20.
- Hukusima S. 1951a: On the activity of the adult of *Epilachna vigintioctomaculata* Motschulsky, in potato-fields furrowed in different directions. (Activity fluctuation in insects and environmental condition, V.) Oyo-Kontyu, 6: 178—183 (in Japanese, Engl. summ.).

- Hukusima S. 1951b: Intercropping and fencing cultivation of potatoes for controlling *Epilachna vigintioctomaculata* Motschulsky. *Agriculture Hort.*, Tokyo, 26: 1103—1104.
- Hukusima S. 1955: On the insect association in potato-fields furrowed in different directions (Studies on the insect association in the field, 3.) *Jap. J. appl. Zool.*, 19: 155—163.
- Hukusima S. 1963a: Comparative acaricidal activity on the pest-predator complex in young apple orchards. *Res. Bull. Fac. Agric. Gifu Univ.*, 18: 76—87.
- Hukusima S. 1963b: Maintenance of the balance of pest-predator complex in apple orchards with insecticide-fungicide spray treatments. *Res. Bull. Fac. Agric. Gifu Univ.*, 18: 61—75.
- Hukusima S. 1964: Evaluation of effect of acaricide-insecticide or acaricide fungicide combinations on the balance of pest-predator complex in apple orchards. *Res. Bull. Fac. Agric. Gifu Univ.*, 19: 38—54.
- Hukusima S. 1966a, b: An ecological context for the effect of pesticide stress on pest-predator complex in apple orchards. Petroleum oils; effect on balance of pest-predator complex in apple orchards. *Res. Bull. Fac. Agric. Gifu Univ.*, 22: 60—78, 79—94.
- Hukusima S. 1968: Integrating arthropod predator releases and chemical manipulations for pest control in apple orchards. *Res. Bull. Fac. Agric. Gifu Univ.*, 26: 40—63.
- Hukusima S. 1969: Ecological implications in population trends of common arthropod predators and major pests in apple orchards under different control programs. *Res. Bull. Fac. Agric. Gifu Univ.*, 28: 64—87.
- Hukusima S., Kamei M. 1970: Effects of various species of aphids as food on development, fecundity and longevity of *Harmonia axyridis* Pallas (Coleoptera: Coccinellidae). *Res. Bull. Fac. Agric. Gifu Univ.*, 29: 53—66.
- Hukusima S., Sakurai H. 1963: Comparison of physiological natures between predaceous Coccinellidae reared on artificial diet and aphid alone. *Rept. Tokai Brch Ent. Soc. Japan*, No. 15: 12—21 (in Japanese).
- Hukusima S., Sukurai H. 1964: Aphid consumption by adult *Coccinella septempunctata bruckii* Mulsant in relation to temperature (Coleoptera: Coccinellidae). *Ann. Rep. Plant Protection North Japan*, No. 15: 126—128 (in Japanese).
- Ibrahim M. M. 1955a, b: Studies on *Coccinella undecimpunctata aegyptiaca* Reiche. 1. Preliminary notes and morphology of the early stages. 2. Biology and life-history. *Bull. Soc. ent. Égypte*, 39: 251—274, 395—423.
- Imms A. D. 1947: *Insect natural history*. London.
- Iperti G. 1964: Les parasites des Coccinelles aphidiphages dans les Basses-Alpes et les Alpes-Maritimes. *Entomophaga*, 9: 153—180.
- Iperti G. 1965: Contribution à l'étude de la spécificité chez les principales Coccinelles aphidiphages des Alpes-Maritimes et des Basses-Alpes. *Entomophaga*, 10: 159—178.
- Iperti G. 1966: Comportement naturel des Coccinelles aphidiphages du Sud-Est de la France. Leur type de spécificité, leur action prédatrice sur *Aphis fabae* L. *Entomophaga*, 11: 203—210.
- Iperti G., Brun J. 1969: Role d'une quarantaine pour la multiplication des Coccinellidae coccidiphages destinés à combattre la cochenille du palmier-dattier (*Parlatoria Blanchardi* Targ.) en Adrar Mauritanien. *Entomophaga*, 14: 149—157.
- Iperti G., Laudého Y. 1968: Intervention bio-écologique en Adrar mauritanien destinée à lutter contre la cochenille du palmier dattier: *Parlatoria Blanchardi* Targ. (Coccoidea-Diaspididae). *Fruits*, 23: 543—552.
- Iperti G., Laudého Y. 1969: Les entomophages de *Parlatoria Blanchardi* Targ. dans les palmeraies de l'Adrar mauritanien. I. Études biologiques préliminaires. Perspectives d'acclimatation de nouveaux prédateurs Coccinellidae. *Ann. Zool. Écol. anim.*, 1: 17—30.
- Iperti G., Laudého Y., Brun J., Choppin de Janvry E. 1970: Les entomophages de *Parlatoria abalrdinchi* Targ. dans les palmeraies de l'Adrar mauritanien. III. Introduction, acclimatation et efficacité d'un nouveau prédateur Coccinellidae: *Chilocorus bipustulatus* L. (Souche d'Iran). *Ann. Zool. Écol. anim.*, 2: 617—638.
- Iperti G., Waerebeke van D. 1968: Description, biologie et importance d'une nouvelle espèce d'Allantonematidae (Nématode), parasite des coccinelles aphidiphages: *Parasitylenchus Coccinellinae*, n. sp. *Entomophaga*, 13: 107—119.
- Iwao S. 1954: On the distributions of *Epilachna sparsa orientalis* Dieke and *E. vigintioctomaculata* Motschulsky at the boundary of their geographical distributions (I). *Oyo-Kontyu*, 9: 135—141 (in Japanese, Engl. summ.).
- Iwao S., Machida A. 1961: Further experiments on the host-plant preference in a phytophagous ladybeetle, *Epilachna pustulosa* Kono. *Insect Ecol.*, 9: 9—16 (in Japanese, Engl. summ.)
- Iwata K. 1932: On the biology of two large lady-birds in Japan. *Trans. Kansai ent. Soc.*, 3: 13—26.

- Iwata K. 1965: Supplement on the biology of two large lady-birds in Japan. *Acta coleopter.*, 2: 57—68.
- Johnson C. G. 1969: Migration and dispersal of insects by flight. 763 pp., Methuen, London.
- Johnson R. H. 1907: Economic notes on aphids and coccinellids. *Ent. News*, Philadelphia, 18: 171—174.
- Johnson R. H. 1910: Determinate evolution in the colour-pattern of the lady beetles. 104 pp., Carnegie Inst., Washington.
- Jöhnsen A. 1930: Beiträge zur Entwicklungs- und Ernährungsbiologie einheimischer Coccinelliden unter besonderer Berücksichtigung von *Coccinella septempunctata* L. *Z. angew. Ent.*, 16: 87—158.
- Kaddou I. K. 1960: The feeding behaviour of *Hippodamia 5-signata* (Kirby) larvae. *Univ. Calif. Pubs Ent.*, 16: 181—230.
- Kamiya H. 1965: Comparative morphology of larvae of the Japanese Coccinellidae, with special reference to the tribal phylogeny of the family (Coleoptera). *Mem. Fac. lib. Fukui Univ.* (2), 14: 83—100.
- Kanervo V. 1940: Beobachtungen und Versuche zur Ermittlung der Nahrung einiger Coccinelliden. *Anns ent. fenn.*, 6: 89—110.
- Kanervo V. 1941: Zur Morphologie der präimaginalen Stadien von *Calvia 15-guttata* F. (Col. Coccinellidae). *Anns ent. fenn.*, 7: 52—60.
- Kanervo V. 1946: Studien über die natürlichen Feinde des Erlenblattkäfers, *Melasoma aenea* L. (Col., Chrysomelidae). *Anns zool. Soc. Vanamo*, 12: 206 pp. (in Finnish, Germ. summ.).
- Kanervo V. 1962: Einfluss der Bekämpfungsmassnahmen im Apfelbau auf die Populationsentwicklung der Obstbaumspinnmilbe (*Metatetranychus pilosus* C. F.) und ihre natürlichen Feinde in Finnland. 11. Int. Congr. Ent. Vienna 1960, 2: 64—72.
- Kapur A. P. 1950: The biology and external morphology of the larvae of Epilachninae. *Bull. ent. Res.*, 41: 161—208.
- Kapur A. P. 1954: Mass assemblage of the Coccinellid beetle *Epilachna bisquadripunctata* (Gyllenhal) in Chota Nagpur. *Curr. Sci.*, 23: 230—231.
- Karafat H., Franz J. 1956: Studien zur Populationsdynamik der Tannenstammlaus *Adelges (Dreyfusia) piceae* (Ratz.) (Hemipt. Adelgidae). *Zool. Jb. (Syst.)*, 84: 467—504.
- Kehat M. 1957a: Survey and distribution of common lady beetles (Col. Coccinellidae) on date palm trees in Israel. *Entomophaga*, 12: 119—125.
- Kehat M. 1957b: Studies on the biology and ecology of *Pharoscygnus numidicus* (Coccinellidae) an important predator of the date palm scale *Parlatoria blanchardi*. *Ann. Soc. ent. Fr. (N. S.)*, 3: 1053—1065.
- Kehat M. 1958a: The feeding behaviour of *Pharoscygnus numidicus* (Coccinellidae), predator of the date palm scale *Parlatoria blanchardi*. *Entomologia exp. appl.*, 11: 30—42.
- Kehat M. 1958b: The phenology of *Pharoscygnus* spp. and *Chilocorus bipustulatus* L. (Coccinellidae) in date palm plantations in Israel. *Ann. Epiphyties*, 19: 605—614.
- Kehat M., Greenberg S., Gordon D.: Factors causing seasonal decline in *Chilocorus bipustulatus* L. (Coccinellidae) in citrus groves in Israel (in press).
- Kehat M., Swirski E. 1964: Chemical control of the date palm scale, *Parlatoria blanchardi*, and the effect of some insecticides on the lady beetle *Pharoscygnus aff. numidicus* Pic. *Israel J. agric. Res.*, 14: 101—110.
- McKenzie H. L. 1932: The biology and feeding habits of *Hyperaspis lateralis* Mulsant (Coleoptera — Coccinellidae). *Univ. Calif. Publ. Ent.*, 6: 9—20.
- Kesten U. 1969: Zur Morphologie und Biologie von *Anatis ocellata* (L.) (Coleoptera, Coccinellidae). *Z. angew. Ent.*, 63: 412—445.
- El-Khidir E. 1969: A contribution to the biology of *Epilachna chrysomelina* F., the melon lady-bird beetle in the Sudan (Col., Coccinellidae). *Sudan agric. J.*, 4: 32—37.
- Kieckheffer R. W., Miller E. L. 1967: Trends of populations of aphid predators in South Dakota cereal crops 1963—1965. *Ann. ent. Soc. Am.*, 60: 516—618.
- Klausnitzer B. 1965: Zur Biologie der *Epilachna argus* Geoffr. (Col. Coccinellidae). *Ent. Nachr.*, 9: 87—89.
- Klausnitzer B. 1966: Übersicht über die Nahrung der einheimischen Coccinellidae (Col.). *Ent. Ber.*, 1966: 91—102.
- Klausnitzer B. 1967: Zur Kenntnis der Beziehungen der Coccinellidae zu Kiefernwäldern (*Pinus silvestris* L.). *Acta ent. bohemoslov.*, 64: 62—68.
- Klausnitzer B. 1968: Zur Biologie von *Myrrha octodecimguttata* (L.). (Col. Coccinellidae). *Ent. Nachr.*, 12: 102—104.
- Klausnitzer B. 1969a: *Degeeria luctuosa* Mg. (Diptera, Tachinidae) as a parasite of *Synharmonia conglobata* L. (Coleoptera, Coccinellidae). *Ent. Obozr.*, 48: 500—501 (in Russian, Engl. summ.).

- Klausnitzer B. 1969b: Zur Kenntnis der Entomoparasiten mitteleuropäischer Coccinellidae. Abh. Ber. NaturkMus.—ForschStelle, Görlitz, 44: 9: 1—15.
- Klausnitzer B. 1969c: Zur Kenntnis der Larve von *Lithophilus conatus* (Panzer) (Col., Coccinellidae). Ent. Nachr., 13: 33—38.
- Klausnitzer B. 1970a: Zur Larvalsystematik der mitteleuropäischen Coccinellidae (Col.). Ent. Abh. Staatl. Mus. Tierk. Dresden, 38: 55—110.
- Klausnitzer B. 1970b: Zur Kenntnis der Larven der palaearktischen *Brumus*-Arten (Col. Coccinellidae). Ent. Nachr., 14: 52—55.
- Klausnitzer B. 1971a: Über die verwandtschaftlichen Beziehungen der *Lithophilinae* und *Coccidulini* (Col. Coccinellidae). Dt. ent. Z., 18: 145—148.
- Klausnitzer B. 1971b: Zur Kenntnis der Larven der palaearktischen Arten von *Harmonia* Muls., *Adonia* Muls. und *Tytthaspis Crotch* (Col. Coccinellidae). Ann. Zool. (in press).
- Klausnitzer B. 1971c: Zur Kenntnis der Larven der kubanischen *Chilocorini* (Col. Coccinellidae). Zool. Anz. 186: 224—229.
- Klausnitzer B., Bellmann C. 1969: Zum Vorkommen von Coccinellidenlarven (Coleoptera) in Bodenfallen auf Fichtenstandorten. Ent. Nachr., 13: 128—132.
- Klingauf F. 1967: Abwehr- und Meideraktionen von Blattläusen (Aphididae) bei Bedrohung durch Räubern und Parasiten. Z. angew. Ent., 60: 269—317.
- Knowlton G. F. 1939: Utah Coleoptera I. Utah Agric. Exp. Stn., Mimeogr. Ser. 200, part 3: 1—25.
- Knowlton G. F., Goodarzy K. 1956: The spotted alfalfa aphid in Utah. Utah State Agric. Coll. Mimeogr. Ser. 155: 1—7.
- Knowlton G. F., Smith C. F., Harmston F. C. 1938: Pea aphid investigation. Proc. Utah Acad. Sci., 15: 71—80.
- Koide T. 1962: Observations on the feeding habit of the larva of *Coccinella septempunctata* bruckii Mulsant. The feeding behaviour and number of prey fed under different temperatures. Kontyu, 30: 236—241 (in Japanese, Engl. summ.).
- Komai T. 1956: Genetics of lady-beetles. Adv. Genet., 8: 155—185.
- Korschefsky R. 1931, 1932: Coleopterorum catalogus, pars 118, 120. Coccinellidae I, II. 224 and 435 pp., Berlin.
- Korschefsky R. 1934: *Platynaspis luteorubra* Goeze, ein neuer Larventypus der Coccinelliden. Arb. physiol. angew. Ent. Berl., 1: 278—279.
- Kryl'cov A. I. 1956: Geographical variability of lady-birds (Coleoptera, Coccinellidae) in North Kirghisia. Ent. Obozr., 35: 771—781 (in Russian).
- Kuenen D. J. 1947: On the ecological significance of two predators of *Metatetranychus ulmi* Koch (Acari, Tetranychidae). Tijdschr. Ent., 88 (1945): 303—312.
- Kurir A. 1964: Erstmaliges Massenaufreten der Koniferenlaus *Cinaropsis pilicornis* Hartig auf Fichte in Österreich. Zentbl. ges. Forstw., 81: 139—157.
- Kuznetsov N. Ya. 1948: Principles of insect physiology. Vol. I, 380 pp., Izd. Akad. Nauk SSSR (in Russian).
- Lane C., Rothschild M. 1960: Notes on wasps visiting a mercury vapour trap, together with some observations on their behaviour towards their prey. Entomologist's mon. Mag., 95: 277—279.
- Laster M. L., Brazzel J. R. 1968: A comparison of predator populations in cotton under different control programs in Mississippi. J. econ. Ent., 61: 714—719.
- Latta R. 1928: The effect of the extreme temperature on Dec. 7, 8, 9, 1927 on hibernating *Crioceris asparagi* L. and *Hippodamia convergens* Guer. at Ames, Iowa. Psyche, 35: 229—231.
- Laudého Y., Choppin de Janvry E., Iperti G., Brun J. 1970: Intervention bio-écologique contre la cochenille blanche du palmier-dattier (*Parlatoria Blanchardi* Targ.) (Coccoidea-Diaspididae) en Adrar Mauritanien. Fruits, 25: 147—160.
- Laudého Y., Ormières R., Iperti G. 1969: Les entomophages de *Parlatoria Blanchardi* Targ. dans les palmeraies de l'Adrar mauritanien. II. Étude d'un parasite de Coccinellidae "*Gregarina Katherina*" Watson. Ann. Zool. Écol. anim., 1: 395—406.
- Lees A. D. 1955: The physiology of diapause in arthropods. 151 pp., Cambridge Univ. Press, London.
- Legay J.-M. Reggi de M. 1962: Sur un lieu d'hivernation de la Coccinelle *Tytthaspis sedecimpunctata* dans la région Lyonnaise. Bull. mens. Soc. linn. Lyon, 31: 267—269.
- Lim Sook Ming 1971: The biology and ecology of some aphidophagous Coccinellidae. PhD Thesis, University of Malaya, Kuala Lumpur.
- Lingren P. D., Ridgway R. L. 1967: Toxicity of five insecticides to several insect predators. J. econ. Ent., 60: 1639—1641.
- Liu C. L. 1950: Contribution to the knowledge of Chinese Coccinellidae. X. Occurrence of *Perilitus*

- coccinellae (Schrank), a parasite of adult Coccinellidae in North China (Hymenoptera, Braconidae). Ent. News, 61: 207—208.
- Loughton B. G. et al. 1963: Spiders and the spruce budworm. Mem. ent. Soc. Can., 31: 249—268.
- Lucas A. M. 1969: The effect of population structure on the success of insect introductions. Heredity, 24: 151—157.
- Lusis Ya. Ya. 1932: An analysis of the dominance phenomenon in the inheritance of the elytra and pronotum colour in *Adalia bipunctata*. Trudy Lab. Genet., 9: 135—162 (in Russian, Engl. summ.).
- Lusis Ya. Ya. 1947a, b: Some aspects of the population increase in *Adalia bipunctata* L. 1. Heterozygosity of populations in lethal alleles. 2. The strains without males. Dokl. Akad. Nauk SSSR, 57: 825—828, 951—954 (in Russian).
- Lusis Ya. Ya. 1961: On the biological meaning of colour polymorphism of lady-beetle *Adalia bipunctata* L. Latv. Ent., 4: 2—29 (in Russian, Engl. summ.).
- Lusis Ya. Ya. 1971: Experimental data on the three species of genus *Calvia* (Coleoptera, Coccinellidae) from Central Asia. Latv. Ent., 14: 3—29 (in Russian, Engl. summ.).
- Maeta Y. 1969a: Biological studies on the natural enemies of some Coccinellid beetles. I. On *Perilitus coccinellae* (Schrank). Kontyu, 37: 147—166.
- Maeta Y. 1969b: Some biological studies on the natural enemies of some Coccinellid beetles. II. *Pharactrophora* sp. Tohoku Konchu Kenkyu. 4: 1—6.
- Mani M. S. 1962: Introduction to high altitude entomology. Insect life above the timber-line in the north-west Himalaya. 302 pp., Methuen, London.
- Marriner T. F. 1939: Movements of Coccinellidae. Ent. Rec., 51: 104—106.
- Matsumoto B., Nishida T. 1966: Predator-prey investigations on taro leafhopper and its egg predator. Tech. Bull. Hawaii agric. Exp. Stn., 64: 1—32.
- Minoranskii V. A. 1966: Some data on *Aphis fabae* (Scop.). Zool. Zh., 45: 1164—1169 (in Russian).
- Mogi M. 1969: Predation response of the larvae of *Harmonia axyridis* Pallas (Coccinellidae) to the different prey density. Jap. J. appl. Ent. Zool., 13: 9—16.
- Moreton B. D. 1969: Beneficial insects and mites. 118 pp., Min Agric. Fisher. Food, London.
- Moter G. 1959: Untersuchungen zur Biologie von *Stethorus punctillum* Weise. Doktor-Dissertation, Mathem. — Naturwiss. Fak. Univ. Köln.
- Moursi A. A., Kamal M. 1946: Notes on the biology and feeding habits of the introduced beneficial insect *Leis conformis* Boisd. (Coccinell.). Bull. Soc. Fouad I. Ent., 30: 63—74.
- McMullen R. D. 1967a: A field study of diapause in *Coccinella novemnotata* (Coleoptera: Coccinellidae). Can. Ent., 99: 42—49.
- McMullen R. D. 1967b: The effects of photoperiod, temperature and food supply on rate of development and diapause in *Coccinella novemnotata*. Can. Ent., 99: 578—586.
- Müller H. J. 1958: Über den Einfluss der Photoperiode auf Diapause und Körpergrösse der Delphacide *Stenocranus minutus* Fabr. (Homoptera Auchenorrhyncha). Zool. Anz., 160: 294—312.
- Müller H. J. 1965: Probleme der Insektendiapause. Verh. dt. Zool. Ges. Jena, 1965: 192—222.
- Müller H. J. 1966: Über mehrjährige Coccinelliden-Fänge auf Ackerbohnen mit hohem *Aphis fabae*-Besatz. Z. Morph. Ökol. Tiere, 58: 144—161.
- Müller H. J. 1970: Formen der Dormanz bei Insekten. Nova Acta Leopoldina, 35: 1—27.
- Muma M. H. 1953—1954: Lady beetle predators of citrus (1) aphids, (2) scale insects, (3) white flies, (4) mealybugs, (5) mites. Citrus Mag., 1953 (April): 32—33, (July): 24—25, (November): 12—13, 1954 (April): 16—17, (July): 10—11.
- Muma M. H. 1955a: Lady beetles (Coccinellidae: Coleoptera) found on citrus in Florida. Fla Ent., 38: 117—124.
- Muma M. H. 1955b: Some ecological studies on the twice stabbed lady beetle, *Chilocorus stigma* (Say). Ann. ent. Soc. Am., 48: 493—498.
- Nadel D., Biron S. 1964: Laboratory studies and controlled mass rearing of *Chilocorus bipustulatus* L. a citrus scale predator in Israel. Riv. Parassit., 25: 165—206.
- Nagai A. M. K. 1969: Einfluss der mechanisch wirkenden Pflanzenschutzmittel Sommer-Weissöl Volck Eté und Polykol H 100 E auf zwei bedeutende Prädatoren von Spinnmilben *Stethorus punctillum* Weise (Coleoptera, Coccinellidae) und *Phytoseiulus riefeli* Dosse (Acari, Phytoseiidae). Z. angew. Zool., 56: 261—313.
- Nakao S. 1962: A list of insects collected in a citrus grove near Fukuoka City (Ecological studies on the insect community of citrus groves, IV). Kontyu, 30: 50—71 (in Japanese, Engl. summ.).
- Nakao S. 1964: The interspecific relations among insects in a citrus grove (Ecological studies on the insect community of citrus groves, V). Kontyu, 32: 490—503 (in Japanese, Engl. summ.).
- Newsom L. D. 1967: Consequences of insecticide use on nontarget organisms. A. Rev. Ent., 12: 257—286.

- Nielson M. W., Curie W. E. 1960: Biology of the convergent lady beetle when fed a spotted alfalfa aphid diet. *J. econ. Ent.* 53: 257—259.
- Nixon G. E. 1951: The association of ants with aphids and coccids. 36 pp., Commonwealth Inst. Ent., London.
- Nohara K. 1962: On the overwintering of *Chilocorus kuwanae* Silvestri (Coleoptera, Coccinellidae). *Sci. Bull. Fac. Agric. Kyushu Univ.*, 20: 33—39 (in Japanese, Engl. summ.).
- Nohara K. 1963: Observations on the activity of Coccinellid beetles in the citrus groves near Hagi, Honshu. *Sci. Bull. Fac. Agric. Kyushu Univ.*, 20: 157—168 (in Japanese, Engl. summ.).
- Nohara K., Harada T., Onon T. 1955: On the effect of some insecticides upon the Coccinellid-beetles. *Sci. Bull. Fac. Agric. Kyushu Univ.*, 22: 1—7 (in Japanese, Engl. summ.).
- Norris M. J. 1964: Environmental control of sexual maturation in insects. *Insect Reproduction, Symposium No. 2, R. Ent. Soc. London*, pp. 56—65.
- Novák B. 1965: Beitrag zu den Labor-Untersuchungen der Aggregation von Coccinelliden. *Konf. Schädl. Hackfrüchte I, Praha 1965*: 85—89.
- Novák B. 1966: Die Bewirkung der Georeaktionen von *Coccinella septempunctata* L. durch die Feuchtigkeit. *Sb. prací pŕir. fak. Palack. univ. Olomouc*, 22: 147—151 (in Czech, Germ. summ.).
- Novák B., Grenarová K. 1957: Coccinelliden an der Grenze des Feld- und Waldbiotops — Hibernationsversuche mit den Imagines führender Arten. *Konf. Schädl. Hackfrüchte III, Praha 1967*: 49—59. (in Czech, Germ. summ.).
- Odum E. P. 1953: *Fundamentals of ecology*. 384 pp., Saunders, Philadelphia and London.
- Ogloblin A. A. 1913: On the biology of coccinellids (Coleoptera, Coccinellidae). *Russk. ent. Obozr.*, 13: 27—43 (in Russian).
- Ogloblin A. A. 1924: Le rôle du blastoderme extraembryonnaire du *Dinocampus terminatus* Nees pendant l'état larvaire. *Mém. Soc. r. Sci. Bohême (II)*, 1924: 1—27.
- Okada I. 1970: A new method of artificial rearing of coccinellid, *Harmonia axyridis* Pallas. *Heredity, Tokyo*, 24: 32—35 (in Japanese).
- Okamoto H. 1961: Comparison of ecological characters of the predatory ladybird *Coccinella septempunctata bruckii* fed on the apple grain aphids, *Rhopalosiphum prunifoliae* and the cabbage aphids, *Brevicoryne brassicae*. *Jap. J. appl. Ent. Zool.*, 5: 277—278 (in Japanese).
- Palii V. F. 1960: Causes of fluctuation in numbers of *Aphis fabae* Scop. in beet-growing regions of central black-soil areas in RSFSR. *Zool. Zh.*, 39: 534—539 (in Russian).
- Palmer M. A. 1914: Some notes on life history of lady beetles. *Ann. ent. Soc. Am.*, 7: 213—238.
- Pantyukhov G. A. 1965: Influence of temperature and relative humidity on development of *Chilocorus renipustulatus* Scriba (Col. Coccinellidae). *Trudy zool. Inst., Leningrad*, 36: 70—85 (in Russian).
- Pantyukhov G. A. 1968a: On photoperiodic reaction of *Chilocorus renipustulatus* Scriba (Coleoptera, Coccinellidae). *Ent. Obozr.*, 47: 376—385 (in Russian, Engl. summ.).
- Pantyukhov G. A. 1968b: A study of ecology and physiology of the predatory beetle *Chilocorus rubidus* Hope (Coleoptera, Coccinellidae). *Zool. Zh.*, 47: 376—386 (in Russian, Engl. summ.).
- Peairs L. M. 1914: The relation of temperature to insect development. *J. econ. Ent.*, 7: 174—179.
- Peck O. 1963: A catalogue of the Nearctic Chalcidoidea (Insecta: Hymenoptera). *Can. Ent. Suppl.*, 30: 1—1092 (427—428).
- Pemberton C. E. 1948: History of the entomology department experiment station, H. S. P. A., 1904—1945. *Hawaii. Pils'Rec.*, 52: 53—90.
- Pienkowski R. L. 1965: The incidence and effect of egg cannibalism in first-instar *Coleomegilla maculata lengi* (Coleoptera: Coccinellidae). *Ann. ent. Soc. Am.*, 58: 150—153.
- Plaut H. N. 1965: On the phenology and control value of *Stethorus punctillum* Weise as a predator of *Tetranychus cinnabarinus* Boisdu. in Israel. *Entomophaga*, 10: 133—137.
- Pontin A. J. 1960: Some records of predators and parasites adapted to attack aphids attended by ants. *Entomologist's mon. Mag.*, 95: 154.
- Popov P. 1960: Role of *Coccinella septempunctata* L. in the biological control of aphids. *Selskostonp. Misul, Sofiya*, 1960: 152—153 (in Bulgarian).
- Poulton E. B. 1904: A possible explanation of insect swarms on mountain tops. *Trans. R. ent. Soc. Lond.*, 1904: 24—26.
- Poulton E. 1936: Assemblies of coccinellid beetles observed in N. Uganda (1927) by Prof. Hale Carpenter and in Bechualand (1935) by Dr W. A. Lamborn. *Proc. R. ent. Soc. Lond. (A)*, 11: 99—100.
- Poutiris R. 1930: Sur le comportement du *Novius cardinalis* vis-à-vis de certain alcaloïdes. *C. r. Séanc. Soc. Biol.*, 103: 1023—1025.
- Pradhan S. 1936: The alimentary canal of *Epilachna indica* (Coccinellidae: Coleoptera), with a discussion on the activity of the midgut epithelium. *Jl R. Asiat. Soc. Beng.*, 2: 127—156.
- Pradhan S. 1938: Neuromuscular study of the mouth parts of *Coccinella septempunctata* with

- a comparison of the mouth-parts in carnivorous and herbivorous Coccinellids. Rec. Indu. M. s. Calcutta, 40: 341—358.
- Pradhan S. 1939: The alimentary canal and pro-epithelial regeneration in *Coccinella septempunctata*, with comparison of carnivorous and herbivorous Coccinellids. Q. Jl microsc. Sci., 81: 451—478.
- Principi M. M., Castellari P. L., Giunchi P. 1967: Observations sur les infestations de pucerons et leurs prédateurs et parasites dans des parcelles traitées avec des produits phytosanitaires polyvalents ou sélectifs. Entomophaga, Mém. H. S., 3: 103—107.
- Pulliainen E. 1963: Preliminary notes on the humidity reactions of *Myrrha 18-guttata* L. (Col., Coccinellidae). Ann. ent. Fenn., 29: 240—246.
- Pulliainen E. 1964: Studies on the humidity and light orientation and the flying activity of *Myrrha 18-guttata* L. (Col., Coccinellidae). Ann. ent. Fenn., 30: 117—141.
- Pulliainen E. 1966: On the hibernation sites of *Myrrha octodecimguttata* L. (Col., Coccinellidae) on the butts of the pine (*Pinus silvestris* L.). Ann. ent. Fenn., 32: 99—104.
- Putman W. L. 1955: Bionomics of *Stethorus punctillum* Weise in Ontario. Can. Ent., 87: 9—33.
- Putman W. L. 1957: Laboratory studies on the food of some coccinellids (Coleoptera) found in Ontario peach orchards. Can. Ent., 89: 527—579.
- Putman W. L. 1964: Occurrence and food of some coccinellids (Coleoptera) in Ontario peach orchards. Can. Ent., 96: 1149—1155.
- Putman W. L. 1965: Paper chromatography to detect predation on mites. Can. Ent., 97: 435—441.
- Radziesvkaya S. B. 1939: Concerning the hibernation of the ladybird and the struggle with the aphids. Vop. Ékol. Biotsen., 4: 268—275 (in Russian, Engl. summ.).
- Read D. B. 1965: The field recognition of the larvae of three common aphid-feeding Coccinellids. N. Z. Ent., 3: 14—17.
- Redenz-Rüsch I. 1959: Untersuchungen über die Schädlings- und Nützlingsfauna einer Obstanlage im „Bergischen Land“ und deren Beeinflussung durch chemische Bekämpfungsmittel. Höfchenbr. Bayer. Pflanzenschutz-Nachr., 12: 171—258.
- Reineck G. 1918: Massenaufreten von *Coccinella septempunctata* L. Ent. Bl. Biol. Syst. Käfer, 14: 349.
- Remington C. L. 1968: The population genetics of insect introduction. A. Rev. Ent., 13: 415—426.
- Robertson G. J. 1961: Ovariolen numbers in Coleoptera. Can. J. Zool., 39: 245—263.
- Robinson A. G. 1951: Annotated list of predators of Tetranychid mites in Manitoba. Rep. ent. Soc. Ont., 82: 33—37.
- Rosen D., Gerson U. 1965: Field studies of *Chilocorus bipustulatus* (L.) on citrus in Israel. Ann. Epiphyties, 16: 71—76.
- Rothschild M. 1961: Defensive odours and Müllerian mimicry among insects. Trans. R. ent. Soc. Lond., 113: 101—121.
- Rothschild G. H. L. 1966: A study of natural population of *Conomelus anceps* (Germar) (Homoptera: Delphacidae) including observations on predation using the precipitin test. J. anim. Ecol., 35: 413—434.
- Roubaud E. 1930: Suspension évolutive et hibernation larvaire obligatoire provoquée par la chaleur, chez le moustique commun, *Culex pipiens* L. Les diapauses vraies et les pseudodiapauses chez les insectes. C. R. Acad. Sci., Paris, 190: 324—326.
- Rubtsov I. A. 1954: Citrus pests and their natural enemies. 260 pp. Izd. AN SSSR, Moscow-Leningrad (in Russian).
- Ruscinsky A. 1933: Über Anhäufungen von *Vibidia duodecimguttata* Poda. in Wäldern von Palanča (Bessarabien). Bul. Muz. natn. Ist. nat. Chisinau, 5: 162—163.
- Ruszkowski A. 1961: Observations on the appearance of lady-birds (Coccinellidae). Polskie Pismo ent. (B), 21—22: 57—69 (in Polish, Engl. summ.).
- Sakurai H. 1969: Respiration and glycogen contents in the adult life of the *Coccinella septempunctata* Mulsant and *Epilachna vigintioctopunctata* Fabricius (Coleoptera: Coccinellidae). Appl. Ent. Zool., 4: 55—57.
- Salt R. W. 1961: Principles of insect cold-hardiness. A. Rev. Ent., 6: 55—74.
- Salt R. W. 1964: Trends and needs in the study of insect cold-hardiness. Can. Ent., 96: 400—405.
- Sanderson E. D., Peairs L. M. 1913: The relation of temperature to insect life. Tech. Bull. New Hamps. agric. Exp. Stn, 7: 1—125.
- Sasaji H. 1967: A revision of the Formosan Coccinellidae (I), the subfamily Sticholotinae, with an establishment of a new tribe (Coleoptera). Etizenia, 25: 1—28.
- Sasaji H. 1968a: Description of the Coccinellid larvae of Japan and the Ryukyus (Coleoptera). Mem. Fac. Educ. Fukui Univ., Sec. 2, 18: 93—136.
- Sasaji H. 1968b: Phylogeny of the family Coccinellidae (Col.). Etizenia, 35: 1—37.

- Sasaji H. 1971: Coccinellidae. Fauna Japonica. 340pp. Acad. Press of Japan.
- Savastano L. 1918: Talune notizie sul *Novius* e l'*Icerya* riguardanti l'arboricoltore. Boll. R. Staz. sper. Agrum. Fruttic., 32, 2 pp.
- Savoiskaya G. I., 1955: Saxaulical lady-bird — *Brumus jacobsoni* Bar. (Col., Coccinellida). Uchen. Zap. biol. pochv. Fak. Kirgiz. Univ., 5: 319—326 (in Russian).
- Savoiskaya G. I. 1957: The experience of composition of key of Coccinellids' larvae. Dokl. VII nauch. konf. Tomsk. Univ., 3: 62—63 (in Russian).
- Savoiskaya G. I. 1960a: On morphology and taxonomy of lady-birds larvae (Col., Coccinellidae) from South-East Kazakhstan. Ent. Obozr., 29: 122—133 (in Russian).
- Savoiskaya G. I. 1960b: Dot-like lady-bird — *Stethorus punctillum* Ws. Trudy Inst. Zool. Alma-Ata, 9: 140—144, (in Russian).
- Savoiskaya G. I. 1960c: Hibernation sites of some Coccinellids in south eastern Kazakhstan. Zool. Zh., 39: 882—887 (in Russian).
- Savoiskaya G. I. 1961: Coccinellidae of the tribe Psylloborini. Uchen. Zap. tomsk. gos. ped. Inst., 19: 92—100 (in Russian).
- Savoiskaya G. I. 1962a: Morphology and taxonomy of the larvae of the genus *Coccinella* L. (Col., Coccinellidae). Trudy Inst. Zashch. Rast., Alma-Ata, 7: 299—315 (in Russian).
- Savoiskaya G. I. 1962b: On the Coccinellid genus *Coccinula* Dobzh. from South-East Kazakhstan. Trudy Inst. Zashch. Rast., Alma-Ata, 8: 323—333 (in Russian).
- Savoiskaya G. I. 1962c: Coccinellidae of the tribe Chilocorini (Col., Coccinellidae). Trudy Inst. Zool., Alma-Ata, 17: 189—200 (in Russian).
- Savoiskaya G. I. 1964a: Materials on morphology and taxonomy of larvae of the tribe Coccinellini (Col., Coccinellidae). Trudy Inst. Zashch. Rast., Alma-Ata, 8: 310—368 (in Russian).
- Savoiskaya G. I. 1964b: On some larvae of the tribe Coleopterini and Hyperaspini, with a description of a new species (Col., Coccinellidae). Trudy Inst. Zashch. Rast., Alma-Ata, 8: 358—370 (in Russian).
- Savoiskaya G. I. 1965a: Biology and perspectives of utilisation of coccinellids in the control of aphids in south-eastern Kazakhstan orchards. Trudy Inst. Zashch. Rast., Alma-Ata, 9: 128—156 (in Russian).
- Savoiskaya G. I. 1965b: On a new species of Coccinellidae. Vest. sel'.-khoz. Nauki, Alma-Ata, 1: 31—37 (in Russian).
- Savoiskaya G. I. 1966: On coccinellids — pests of coccids and aphids. Vest. sel'.-khoz. Nauki, Alma-Ata, 3: 53—56 (in Russian).
- Savoiskaya G. I. 1968: Beetles of the genus *Exochomus* and *Platynaspis* — predators of the aphids and coccids. Trudy Inst. Zashch. Rast., Alma-Ata, 10: 158—180 (in Russian).
- Savoiskaya G. I. 1969a: New genus and species of Coccinellidae from Kazakhstan. Vest. sel'.-khoz. Nauki, Alma-Ata, 6: 37—43 (in Russian).
- Savoiskaya G. I. 1969b: On revealing of new taxonomical categories of the coccinellids. Vest. sel'.-khoz. Nauki, Alma-Ata, 9: 101—106 (in Russian).
- Savoiskaya G. I. 1970a: Coccinellids of the Alma-Ata reserve. Trudy Alma-Altin. gos. Zapov., 9: 163—187 (in Russian).
- Savoiskaya G. I. 1970b: Introduction and acclimatisation of some coccinellids in the Alma-Ata reserve. T u ly Alma-Altin. gos. Zapov., 9: 138—162 (in Russian).
- Schiefelbein J. W., Chiang H. C. 1966: Effects of spray of sucrose solution in a corn field on the populations of predatory insects and their prey. Entomophaga, 11: 333—339.
- Schilder F. A. 1952/53: Neue Variationsstudien an Coccinelliden. Wiss. Z. Martin-Luther-Univ. Halle-Wittenb., 2: 143—163.
- Schilder F. A., Schilder M. 1928: Die Nahrung der Coccinelliden und ihre Beziehung zur Verwandtschaft der Arten. Arb. biol. Reichs. Anst. Land-u. Forstw., 16: 213—282.
- Schilder F. A., Schilder M. 1951/52: Methoden der Phänoanalyse von Tieren. Wiss. Z. Martin-Luther-Univ. Halle-Wittenb., 1: 81—91.
- Schlinger E. I., van den Bosch R., Dietrick E. J. 1959: Biological notes on the predacious earwig *Labidura riparia* (Pallas) a recent immigrant to California (Dermaptera, Labiduridae). J. econ. Ent., 52: 247—249.
- Schlinger E. I., Dietrick E. J. 1960: Biological control of insect pests aided by stripfarming alfalfa in experimental program. Calif. Agric., 14: 8—9, 15.
- Schmidt G. 1954: Coccinellidae. In P. Sorauer: Handbuch der Pflanzenkrankheiten. Bd. 2, Teil 2, pp. 99—104.
- Schwerdtfeger F. 1963: Autökologie. 461 pp., P. Parey, Hamburg, Berlin.
- Semenov Tyanshanskii 1911: (Discussion.) Russk. ent. Obozr., 11: XIX—XX.
- Sem'yanov V. P. 1965a: Fauna, biology and usefulness of coccinellids (Coleoptera, Coccinellidae) in Belorus SSR. Zap. leningr. sel'.-khoz. Inst., 95: 106—120 (in Russian).

- Sem'yanov V. P. 1965b: Fauna and distribution in habitats of coccinellids (Coleoptera, Coccinellidae) in the Leningrad area. Ent. Obozr., 44: 315—323 (in Russian).
- Sem'yanov V. P. 1965c: Conservation of coccinellids at the chemical treatment of orchards. Zashch. Rast. Vredit. Bolez., 10: 20—21 (in Russian).
- Sem'yanov V. P. 1970: Biological properties of *Adalia bipunctata* L. (Coleoptera, Coccinellidae) in conditions of Leningrad region. Zashch. Rast. Vredit. Bolez., 127: 105—112 (in Russian).
- Sethi S. L., Atwal A. S. 1964: Influence of temperature and humidity on the development of different stages of *Coccinella septempunctata* (Coleoptera: Coccinellidae). Ind. J. agric. Sci., 34: 166—171.
- Shade R. E., Hansen H. L., Wilson M. C. 1970: A partial life table of the cereal leaf beetle, *Oulema melanopus*, in northern Indiana. Ann. ent. Soc. Am., 63: 52—59.
- Shands W. A., Holmes R. L., Simpson G. W. 1970: Improved laboratory production of eggs of *Coccinella septempunctata*. J. econ. Ent., 63: 315—317.
- Shands W. A., Shands M. K., Simpson G. W. 1966: Techniques for Massproducing *Coccinella septempunctata*. J. econ. Ent., 59: 102—103.
- Shelford V. E. 1929: Laboratory and field ecology. 545 pp., Williams and Wilkins, Baltimore.
- Sherman F. 1938: Massing of convergent ladybeetle at summits of mountains in southeastern United States. J. econ. Ent., 31: 320—322.
- Sinha A. K., Krishna S. S. 1969: Feeding behaviour of *Epilachna vigintioctopunctata* (Coleoptera: Coccinellidae) on *Luffa aegyptiaca*. Entomologia exp. appl., 12: 268—274.
- Skuhřavý V. 1959: Die Nahrung der Feldcarabiden. Čas. Čs. spol. ent., 56: 1—18 (in Czech, Germ. summ.).
- Skuhřavý V. 1960: Die Nahrung des Ohrwurms (*Forficula auricularia* L.) in den Feldkulturen. Čas. Čs. spol. ent., 57: 329—339.
- Skuhřavý V., Novák K. 1957: Entomofauna des Kartoffelfeldes und ihre Entwicklung. Rozpr. ř. Akad. Věd., 67 (7): 1—50 (in Czech, Germ. summ.).
- Skuhřavý V., Novák K. 1966: Die quantitativen Beziehungen zwischen der Schwarzen Bohnenblattlaus (*Aphis fabae* Scop.) und ihren Räubern an der Zuckerrübe. Z. angew. Ent., 57: 141—166.
- Sluss R. R. 1967: Population dynamics of the walnut aphid, *Chromaphis juglandicola* (Kalt.) in Northern California. Ecology, 48: 41—58.
- Sluss R. 1968: Behavioural and anatomical responses of the convergent lady beetle to parasitism by *Perilitus coccinellae* (Schrank) (Hymenoptera: Braconidae). J. Invertebr. Path., 10: 9—27.
- Smee C. 1922: British ladybird beetles. Their control of aphids. Fruit Grow., 53: 675—676, 717—718, 759.
- Smirnov W. A. 1958: An artificial diet for rearing coccinellid beetles. Can. Ent., 90: 563—565.
- Smith B. C. 1958: Notes on relative abundance and variation in elytral patterns of some common coccinellids in the Belleville district (Col.: Coccinellidae). Rep. ent. Soc. Ont., 88: 59—60.
- Smith B. C. 1960a: A technique for rearing Coccinellid beetles on dry foods, and influence of various pollens on the development of *Coleomegilla maculata lengi* Timb. (Coleoptera: Coccinellidae). Can. J. Zool., 38: 1047—1049.
- Smith B. C. 1960b: Note on parasitism of two coccinellids, *Coccinella trifasciata perplexa* Muls. and *Coleomegilla maculata lengi* Timb. (Coleoptera: Coccinellidae) in Ontario. Can. Ent., 92: 652.
- Smith B. C. 1961: Results of rearing some coccinellid (Coleoptera: Coccinellidae) larvae on various pollens. Proc. ent. Soc. Ont., 91 (1960): 270—271.
- Smith B. C. 1965a: Growth and development of coccinellid larvae on dry foods (Coleoptera, Coccinellidae). Can. Ent., 97: 760—768.
- Smith B. C. 1965b: Effects of food on the longevity, fecundity and development of adult coccinellids. Can. Ent., 97: 910—919.
- Smith B. C. 1965c: Differences in *Anatis mali* Auct. and *Coleomegilla maculata lengi* Timberlake to changes in the quality and quantity of the larval food. Can. Ent., 97: 1159—1166.
- Smith B. C. 1971: Effects of various factors on the local distribution and density of coccinellid adults on corn (Coleoptera: Coccinellidae). Can. Ent., 103: 1115—1120.
- Smith B. D. 1966: Effects of parasites and predators on a natural population of the aphid *Acyrtosiphon spartii* Koch on broom (*Sarothamnus scoparius* L.). J. Anim. Ecol., 35: 255—267.
- Smith H. S., Armitage H. M. 1931: The biological control of mealybugs attacking citrus. California Agr. Exp. Stn. Bull., 509, 74 pp.
- Smith R. F., Reynolds H. T. 1966: Principles, definitions and scope of integrated pest control. Proc. FAO Symp. Integr. Pest Control, Rome 1965, 1: 11—17.
- Smith S. G. 1956: Extreme chromosomal polymorphism in a Coccinellid beetle. *Experientia*, 12: 52—55.

- Smith S. G. 1959: The cytogenetic basis of speciation in Coleoptera. 10. Int. Conf. Genet., 1: 444—450.
- Smith S. G. 1960: Chromosome numbers of Coleoptera, II. Can. J. Genet. Cytol., 2: 67—88.
- Smith S. G. 1965: Heterochromatin, colchicine, and karyotype. Chromosoma (Berl.), 16: 162—165.
- Smith S. G. 1966: Natural hybridization in the coccinellid genus *Chilocorus*. Chromosoma, 18: 380—406.
- Sol R. 1961: Über den Eingriff von Insektiziden in das Wechselspiel von *Aphis fabae* Scop. und einigen ihrer Episiten. Entomophaga, 6: 7—33.
- Southwood T. R. E. 1966: Ecological methods, with particular reference to the study of insect populations. 391 pp., Methuen Co. Ltd, London.
- Sparks A. N., Chiang H. C., Burkhardt C. C., Fairchild M. L., Weekman G. T. 1966: Evaluation of the influence of predation on corn borer populations. J. econ. Ent., 59: 104—107.
- Speyer W. 1934: Die an der Niederelbe in Obstbaumfanggürteln überwinterten Insekten. III. Mitteilung. Coleoptera: Coccinellidae. Z. PflKrankh. PflPath. PflSchutz, 44: 321—330.
- Speyer W. 1935: Coccinelliden als Blutlaus-Feinde. NachrBl. dt. PflSchutzdienst, Berl., 15: 83.
- Stewart J. W., Whitcomb W. H., Bell K. O. 1967: Estivation studies of the convergent lady beetle in Arkansas. J. econ. Ent., 60: 1730—1735.
- Strouhal H. 1926a: Die Larven der Palaearktischen Coccinellini und Psylloborini (Coleopt.). Arch. Naturgesch., 92 (A), 3: 1—63.
- Strouhal H. 1926b: Pilzfressende Coccinelliden (Tribus Psylloborini) (Col.). Z. wiss. InsektBiol., 21: 131—143.
- Strübing H. 1963: Zum Diapauseproblem in der Gattung *Stenocranus* (Homoptera, Auchenorrhyncha). Zool Beitr., 9: 1—119.
- Sundby R. 1966: A comparative study of the efficiency of three predatory insects — *Coccinella septempunctata* L. (Coleoptera, Coccinellidae), *Chrysopa carnea* St. (Neuroptera, Chrysopidae) and *Syrphus ribesii* L. (Diptera, Syrphidae) at two different temperatures. Entomophaga, 11: 395—404.
- Sundby R. A. 1968: Some factors influencing the reproduction and longevity of *Coccinella septempunctata* L. (Coleoptera, Coccinellidae). Entomophaga, 13: 197—202.
- Svihla A. 1952: Two-spotted lady beetles biting man. J. econ. Ent., 45: 134.
- Sysoev A. T. 1958: Attempt at conservation of some coccinellid species. In: Biological control of agricultural and forest pests. Izd. Min. sel'-khoz. Mold. SSR, Kishinev, 63: 44—45 (in Russian).
- Szalay-Marzsó L. 1957: Population dynamic examination of *Doralis fabae* population of a beet field. Ann. Inst. Prot. Plant Hung., 7: 91—99 (in Hungarian, Engl. summ.).
- Szalay-Marzsó L. 1958: Populationsdynamische Untersuchungen an Beständen der Rübenblattlaus (*Aphis (Doralis) fabae* Scop.) in Ungarn, in den Jahren 1955 und 1956. Acta agron. hung., 8: 187—211.
- Szumkowski W. 1952: Observations on Coccinellidae. II. Experimental rearing of *Coleomegilla* on a non-insect diet. 9. Int. Congr. Ent. Amsterdam, 1951, pp. 781—785.
- Szumkowski W. 1955: Observaciones sobre la biología de algunos Coccinellidae (Coleoptera). I. Boln Ent. venez., 11: 1—20.
- Szumkowski W. 1961a: Dietas sin insectos vivos para la cria de *Coleomegilla maculata* Deg. (Coccinellidae, Coleoptera). Agronomía trop. (Venezuela), 10: 149—154.
- Szumkowski W. 1961b: Aparición de un coccinélido predator nuevo para Venezuela. Agronomía trop. (Venezuela), 11: 33—37.
- Tadmor U., Applebaum S. W. 1971: Adult diapause in the predaceous coccinellid, *Chilocorus bipustulatus*: Photoperiodic induction. J. Insect Physiol., 17: 1211—1215.
- Takeda S., Hukusima S., Yamada S. 1964: Seasonal abundance in coccinellid beetles. Res. Bull. Fac. Agric. Gifu Univ., 19: 55—63 (in Japanese, Engl. summ.).
- Takeda S., Hukusima S., Yamada H. 1965: Some physiological aspects of coccinellid beetles in relation to their tolerance against pesticide treatments. Res. Bull. Fac. Agric. Gifu Univ., 21: 83—93 (in Japanese, Engl. summ.).
- Tamaki G., Halfhill J. E. 1968: Bands on peach trees as shelters for predators of the green peach aphid. J. econ. Ent., 61: 707—711.
- Tamaki G., Weeks R. E. 1968: Use of chemical defoliants on peach trees in integrated program to suppress populations of green peach aphids. J. econ. Ent., 61: 431—435.
- Tanaka M., Maeta Y., 1965: Rearing of some predacious coccinellid beetles by artificial diets. Bull. Hort. Res. Stn. (D), 63: 17—35 (in Japanese, Engl. summ.).
- Tanasijevic N. 1958: Zur Morphologie und Biologie des Luzernemarienkäfers *Subcoccinella vigintiquatuor punctata* (Coleoptera: Coccinellidae). Beitr. Ent., 8: 23—78.

- Telega N. A. 1948: Biological method of the insect pest control (predaceous coccinellids and their utilisation in USSR). 120 pp., Izd. AN SSSR, Kiev (in Russian).
- Telega N. A., Bogunova M. V. 1936: The most important predators of coccids and aphids in the Ussuri region of Far East and their utilisation. Zashch. Rast., 1936 (10): 75—87 (in Russian).
- Thiele H. U. 1966: Einflüsse der Photoperiode auf die Diapause von Carabiden. Z. angew. Ent., 58: 143—149.
- Thomas W. A. 1932: Hibernation of the 13-spotted ladybeetle. J. econ. Ent., 25: 136.
- Thompson W. R. 1951: The specificity of host relations in predaceous insects. Can. Ent., 83: 262—269.
- Throne A. H. 1935: An unusual occurrence of the convergent ladybeetle. Ecology, 16: 125.
- Timberlake P. H. 1918: Notes on some of the immigrant parasitic Hymenoptera of the Hawaiian Islands. Proc. Hawaii. ent. Soc., 3: 399—404.
- Timofeeff-Ressovsky H. A. 1941: Temperatur-modifikabilität des Zeichnungsmusters bei verschiedenen Populationen von *Epilachna chrysolina* F. Biol. Zbl., 61: 68—84.
- Tischler W. 1949: Grundzüge der terrestrischen Tierökologie. Braunschweig.
- Turian G. 1969: Coccinelles micromycetophages (Col.). Mitt. Schw. ent. Ges., 42: 52—57.
- Ul'yanova L. S. 1956: On the possibility of acclimatisation of the Far-East coccinellid *Harmonia axyridis* Pall. in the conditions of Uzbekistan. Trudy Inst. Zool. Parazit., Tashkent, 6: 111—119 (in Russian).
- Uvarov B. P. 1931: Insects and climate. Trans. R. ent. Soc. Lond., 79: 1—247.
- Vanderzant E. S., Davich T. B. 1961: Artificial diets for the adult boll weevil and techniques for obtaining eggs. J. econ. Ent., 54: 923—928.
- Varley G. C., Gradwell G. R. 1970: Recent advances in insect population dynamics. A. Rev. Ent., 15: 1—24.
- Walker M. F. 1961: Some observations on the biology of the ladybird (Coccinellidae) parasite *Perilitus coccinellae* (Schränk) (Hym., Braconidae), with special reference to host selection and recognition. Entomologist's mon. Mag., 97: 240—244.
- Walker M. F. 1962: *Degeeria luctuosa* (Meig.) (Dipt., Tachinidae). Entomologist's mon. Mag., 98: 20.
- Warren L. O., Tadic, M., 1967: Biological observations on *Colomegilla maculata* and its role as a predator of the fall webworm. J. econ. Ent., 60: 1492—1496.
- Watson J. R., Thompson W. L. 1933: Food habits of *Leis conformis* Boisd. (Chinese lady-beetle). Fla Ent., 17: 27—29.
- Way M. J. 1963: Mutualism between ants and honeydew — producing Homoptera. A. Rev. Ent., 8: 307—344.
- Way M. J., Banks C. J. 1958: The control of *Aphis fabae* Scop. with special reference to biological control of insects which attack annual crops. 10. Int. Congr. Ent., Montreal, 1956, 4: 907—909.
- Way M. J., Banks C. J. 1968: Population studies on the active stages of the black bean aphid, *Aphis fabae* Scop., on its winter host *Euonymus europaeus* L. Ann. appl. Biol., 62: 177—197.
- Way M. J., Smith P. M., Potter C. 1954: Studies on the bean aphid (*Aphis fabae* Scop.) and its control on field beans. Ann. appl. Biol., 41: 117—131.
- Werner F. 1913: Massenansammlung von *Coccinella*. Z. wiss. Insekthiol., 9: 311.
- Westgard P. H., Gentner L. G., Berry D. W. 1968: Present status of biological control of the pear psylla in Southern Oregon. J. econ. Ent., 61: 740—743.
- Wiackowski S. K., Dronka K. 1968: Laboratory investigations on the effect of aphicides available in Poland on the most important natural enemies of aphids. Polskie Pismo ent., 38: 159—173.
- Wiackowski S. K., Nowacka B. 1968: Laboratory investigations on the effect of insecticides on the larvae and adults of *Coccinella septempunctata* L. (Col., Coccinellidae). Polskie Pismo ent., 38: 441—452.
- Wiesmann R. 1955: Untersuchungen an den Prädatoren der Baumwollschadinsekten in Aegypten im Jahre 1951/52. Acta trop., 12: 222—239.
- Wigglesworth V. B. 1953: The principles of insect physiology. 546 pp., Vth ed. with add., Methuen, London.
- de Wilde J. 1969: Diapause and seasonal synchronization in the adult Colorado beetle. Symp. Soc. exp. Biol., 23: 263—284.
- de Wilde J. 1970: Hormones and insect diapause. Mem. Soc. Endocr., 18: 487—514.
- Wille J. 1926—27: *Curinus* (*Orcus*) *zonatus* Muls. (Coccinellidae), ein Feind der Schildläuse an Orangenbäumen. Beiträge zu seiner Morphologie, Biologie und bekämpfungs-technischen Bedeutung. Z. angew. Ent., 12: 357—375.
- Williams J. L. 1945: The anatomy of the internal genitalia of some Coleoptera. Proc. ent. Soc. Washington, 47: 73—87.

- Wilson F. 1971: Biotic agents of pest control as an important natural resource (the 4th Gooding Memorial Lecture). Cent. Ass. BeeKeepers, Ilford, Essex, 12 pp.
- Wylie H. G. 1958: Observations on *Aphidecta oblitterata* (L.) (Coleoptera: Coccinellidae), a predator of conifer-infesting Aphidoidea. Can. Ent., 90: 518—522.
- Yadava C., Shaw F. R. 1968: The preference of certain coccinellids for pea aphids, leafhoppers and alfalfa larvae. J. econ. Ent., 61: 1104—1105.
- Yakhontov V. V. 1940: Mass migrations and winter aggregations of coccinellids. Tez. Dokl. ekol. Konf. Probl. mass. razmnnoz. zhivotn., Kiev, pp. 104—108 (in Russian).
- Yakhontov V. V. 1957: A novelty in the biological control of pests (heterosis in Coccinellidae). Zashch. Rast., 1957: 32—33 (in Russian).
- Yakhontov V. V. 1960: Utilisation of coccinellids in the control of agricultural pests. 85 pp., Izd. AN Uzbeksk. SSR, Tashkent (in Russian).
- Yakhontov V. V. 1962: Seasonal migrations of lady-birds *Brumus octosignatus* Gebl. and *Semiadalia undecimnotata* Schneid. in Central Asia. 11. Int. Congr. Ent. Wien, 1960, pp. 21—23.
- Yinon U. 1969a: Food consumption of the armored scale lady-beetle, *Chilocorus bipustulatus* (Coleoptera, Coccinellidae). Entomologia exp. appl., 12: 139—146.
- Yinon U. 1969b: The natural enemies of the armored scale lady-beetle, *Chilocorus bipustulatus* (Col., Coccinellidae). Entomophaga, 14: 321—328.
- Yun M. Y., Ruppel R. F. 1964: Toxicity of insecticides to a coccinellid predator of the cereal leaf beetle. J. econ. Ent., 57: 835—837.
- Zarapkin S. R. 1930: Über die gerichtete Variabilität der Coccinelliden. I. Allgemeine Einleitung und Analyse der ersten Pigmentierungsetappe bei *Coccinella 10-punctata*. Z. Morph. Ökol. Tiere, 17: 719—736.
- Zarapkin S. R. 1938a, b: Über die gerichtete Variabilität der Coccinelliden. V. Die Reihenfolge der Fleckenentstehung auf den Elytren der *Coccinella 10-punctata* (*Adalia 10-punctata*) in der ontogenetischen Entwicklung. VI. Biometrische Analyse der gerichteten Variabilität. Z. Morph. Ökol. Tiere, 34: 565—572, 573—583.
- Zaslavskii V. A. 1962: New palaeartic species of *Chilocorus* (Col., Coccinellidae). Ent. Obozr., 31: 399—401 (in Russian).
- Zaslavskii V. A. 1967: Reproductive selfdestruction as the ecological factor (ecological effect of genetic interaction of population). Zh. obshch. Biol., 28: 3—11 (in Russian).
- Zaslavskii V. A. 1970: Geographical races of *Chilocorus bipustulatus* (Coleoptera, Coccinellidae). I. Two types of photoperiodical reaction controlling the imaginal diapause in the northern race. Zool. Zh., 49: 1354—1365 (in Russian, Engl. summ.).
- Zaslavskii V. A., Bogdanova T. P. 1965: Properties of imaginal diapause in two *Chilocorus* species (Coleoptera, Coccinellidae). Trudy zool. Inst., Leningrad, 36: 89—95 (in Russian).
- Zelený J. 1969: A biological and toxicological study of *Cycloneda limbifer* Casey (Coleoptera, Coccinellidae). Acta ent. bohemoslov., 66: 333—344.
- Zimmermann K. 1931: Wirkung von Selektion und Temperatur auf die Pigmentierung von *Epilachna chrysolina* F. Naturwissenschaften, 19: 768—771.

Subject index

Coccinellidae¹⁾

- Adalia bipunctata* (Linnaeus) 46, 55, 63, 64, 67—69, 75, 78—80, 82—85, 87, 88, 90, 95, 97—100, 103—106, 111, 113—118, 120—122, 125, 126, 128, 129, 133, 138—140, 145, 146, 148, 149, 153—160, 163, 167, 168, 170, 171, 198—200, 207—211, 213, 215, 232; Photo 52: Plate II(18), III(19), V(22), VI(23), VII(25), VIII(26), XXIV, XXXI
- Adalia conglomerata* (Linnaeus) 46, 54, 78, 85, 96; Plate X(29), XXIII
- Adalia decempunctata* (Linnaeus) 46, 55, 61, 62, 71, 84, 90, 97—99, 106, 110, 118, 120, 122, 145, 148, 149, 150, 168, 199, 200, 210; Plate X(29), XXIII, XXXI
- Adalia fasciatopunctata* (Faldermann) 171
- Adalia frigida* (Schneider) 133
- Adonia amoena* (Faldermann) 44
- Adonia variegata* (Goeze) 44, 55, 59, 63, 66, 76, 79, 80, 85, 97, 98, 102, 104, 106, 120, 122, 168, 170, 198, 200, 203, 209—211, 212, 233; Plate XXV
- Afissa mystica* (Mulsant) [= *Epilachna*] Plate I(17)
- Aiolocaria mirabilis* Motschulsky 41, 75, 76, 115, 147, 154, 170, 229
- Anatis mali* auct., 91, 92, 103, 122, 129, 133, 143, 144
- Anatis ocellata* (Linnaeus) 41, 54, 63, 66, 81, 85, 89, 90, 96, 98, 109, 123, 128, 134, 145, 147, 198, 201; Photo 1; Plate IX(27), XXVIII, XXXII
- Anatis quin decimpunctata* (De Geer) 126
- Anisocalvia quatuordecimguttata* (Linnaeus) 40
- Anisolemnia dilatata* (Fabricius) 123
- Anisosticta bitriangularis* (Say) 111
- Anisosticta novemdecimpunctata* (Linnaeus) 42, 54, 63, 78, 109; Plate III(19), XI(31), XXIII
- Aphidecta oblitterata* (Linnaeus) 41, 55, 58, 90, 93, 96, 123, 167, 171, 228; Plate XXII
- Brumus jacobsoni* Barovsky 53
- Brumus mongolicus* Fleischer 53
- Brumus oblongus* (Weidenbach) 53, 54
- Brumus octosignatus* Gebler 53, 232
- Bulaea lichatschovi* (Hummel) 16, 36, 40, 65, 107, 135
- Callicaria superba* Mulsant 70
- Calvia decemguttata* (Linnaeus) 52, 54, 95
- Calvia duplicipunctata* Semenov et Dobzhansky [= *Anisocalvia punctata*] 62
- Calvia obversepunctata* Mulsant [= *Anisocalvia punctata*] 62
- Calvia punctata* (Mulsant) [= *Anisocalvia*] 62, 229
- Calvia quatuordecimguttata* (Linnaeus) [= *Anisocalvia*] 54, 79, 95, 98, 128, 170; Plate XXVI, XXIX
- Calvia quinquedecimguttata* (Fabricius) [= *Eocaria*] 36, 52, 54, 76, 79, 97, 107, 123, 127, 128
- Cheilomenes lunata* (Fabricius) 214
- Cheilomenes propinqua* (Mulsant) 214
- Chilocorus bipustulatus* (Linnaeus) 52, 54, 57, 70, 71, 89, 90, 92, 93, 95, 98—101, 109, 114, 123, 138, 153, 154, 161, 163, 165, 171, 176, 189, 189—193, 206, 207, 228
- Chilocorus bipustulatus iranensis* Ipert 84, 93, 209, 229, 230
- Chilocorus cacti* (Linnaeus) 228
- Chilocorus distigma* (Klug) 209, 228, 229
- Chilocorus fraternus* Leconte 56
- Chilocorus geminus* Zaslavsky 52, 57, 154, 165, 190
- Chilocorus hexacyclus* Smith 56, 58
- Chilocorus kuvanae* Silvestri 99—101, 123, 130, 235
- Chilocorus nigritus* (Fabricius) 228
- Chilocorus orbis* Casey 56
- Chilocorus politus* Mulsant 228
- Chilocorus renipustulatus* (Scriba) 52, 54, 98, 153, 156—161, 189, 190; Plate II(18), IV(21), VI(23), VIII(26), IX(27), X(29), XXXIII
- Chilocorus rubidus* Hope 52, 70, 111, 123, 155—163, 189
- Chilocorus stigma* (Say) 56, 57, 102, 114, 123, 209, 229
- Chilocorus tricyclus* Smith 56, 58
- Clitostethus arcuatus* (Rossi) 42, 53

¹⁾ The recently valid names are in parentheses []. The synonymy has been elaborated by I. Kovář.

- Coccidula rufa* (Herbst) 43, 54; Plate XXI
Coccidula scutellata, (Herbst) 43, 54; Plate I(17), IV(21), VII(25)
Coccinella distincta Faldermann 48, 55, 79, 128
Coccinella divaricata Olivier [= *C. distincta* Faldermann] 63, 80, 84, 103, 197, 200
Coccinella hieroglyphica Linnaeus 48, 55, 76, 125, 128
Coccinella nivicola Menetries 48, 103
Coccinella novemnotata Herbst 91, 93, 99, 103, 105, 126, 127, 131, 133, 153, 165, 167, 192, 193, 200
Coccinella quinquepunctata Linnaeus 85, 89, 90, 97, 98, 102—104, 128, 163, 168, 170, 200, 204 Plate XXV
Coccinella reitteri Weise 48, 80, 110
Coccinella repanda Thunberg 200
Coccinella sanguinea Linnaeus [= *Cycloneda*] 200
Coccinella septempunctata Linnaeus 28, 48, 55, 63—65, 70—75, 78—80, 82, 83, 85, 87—90, 98, 102,—104, 106, 109, 111—116, 120, 121, 123, 125, 128, 129, 134, 137, 138—141, 145, 147, 153—158, 160, 163—165, 167—170, 174, 178 a-z 189, 198—200, 204—211, 212, 221, 225, 229, 231—233; Photo 10, 11, 13; Plate XXV
Coccinella septempunctata bruckii Mulsant 73, 75, 99, 114, 121, 123, 125, 130, 138, 161, 200, 201, 203, 204
Coccinella tianschanica Dobzhansky 48
Coccinella transversoguttata Faldermann 48, 63, 91, 92, 93, 99, 103, 105, 126
Coccinella transversoguttata richardsoni Brown 79, 99, 100, 123, 133
Coccinella trifasciata Linnaeus 48, 91, 103, 110, 125, 126, 127
Coccinella trifasciata perplexa Mulsant 79, 99, 105, 133, 199, 200, 203
Coccinella undecimpunctata Linnaeus 46, 55, 83, 87, 106, 121, 123, 129, 200, 228
Coccinella undecimpunctata egyptiaca Reiche 84, 109, 110, 111, 123, 138, 142, 200
Coccinula elegantula (Weise) 50
Coccinula principalis (Weise) 50
Coccinula quatuordecimpustulata (Linnaeus) 50, 63, 65, 80, 84, 85, 90, 97, 98, 103, 104, 106, 109, 113, 170
Coccinula redimita (Weise) 65
Coccinula sinuatomarginata (Faldermann) 48, 65, 76, 84, 104
Coleophora inaequalis (Fabricius) (62, 200
Coleomegilla maculata (Der Geer) 16, 70, 80—82, 93—94, 99, 103, 110, 114, 123, 126, 127, 129—131, 133—135, 139, 148, 167, 174, 179, 200, 201, 203, 204, 233
Coleomegilla maculata lengi Timberlake 79, 81, 100, 105, 125, 133, 143
Cryptognatha nodiceps Marschall 228
Cryptogonus orbiculus (Gyllenhal) Plate VIII(26)
Cryptolaemus montrouzieri Mulsant 28, 100, 131, 228, 229, 231—233, 235
Curinus (Orcus) zonatus Mulsant [= *Harpasus*] 100
- Cycloneda limbifer* Casey 124, 138; Plate XXVII, XXX
Cycloneda munda (Say) 91, 103, 105, 124, 126, 133
Cycloneda polita Casey 100
Cycloneda sanguinea (Linnaeus) 102, 105, 110, 126, 130, 139; Photo 51
Cynegetis impunctata (Linnaeus) 39, 54; Plate XIII(45)
- Decadiomus bahamicus* (Casey) 100
Delphastus pallidus (Leconte) 100
Delphastus pusillus (Leconte) 102
- Eocaria muiri* Timberlake 200
Epilachna argus (Geoffroy) [= *Henosepilachna*] 135
Epilachna bisquadrupunctata (Gyllenhal) [= *Afidenta*] 174
Epilachna chrysolmelina (Fabricius) [= *Henosepilachna elaterii* (Rossi)]
Epilachna dregei Mulsant 174
Epilachna indica Mulsant [= *Henosepilachna*] 30
Epilachna pustulosa Kôno, [= *Henosepilachna vigintioctomaculata*]; 124, 135
Epilachna sparsa orientalis Dieke [= *Henosepilachna*] 134
Epilachna vigintioctomaculata Motschulsky [= *Henosepilachna*] 93; Plate I(17)
Epilachna vigintioctopunctata Fabricius [= *Henosepilachna*] 43, 134, 135; Plate XIII(45)
Exochomus concavus Fürsch 214
Exochomus flavipes (Thunberg) 70, 98, 101, 109, 124, 129, 138, 233
Exochomus kirtschenkoii Barovsky 52
Exochomus marginipennis childreni Mulsant 102
Exochomus melanocephalus Zoubkoff 53
Exochomus mongol Barovsky 52
Exochomus nigripennis Ermolenko 53
Exochomus nigromaculatus (Goeze) 53, 54
Exochomus quadripustulatus (Linnaeus) 52, 54, 89, 90, 95, 96, 98, 99, 128, 163, 170, 171, 199; Photo 3, 4; Plate V(22), XX, XXI, XXIX
Exochomus semenovi Weise 53
Exochomus undulatus Weise 53, 229
- Halysia hauseri* Mader [= *Macroilleis*] 124
Halysia sedecimpunctata (Linnaeus) 50, 54, 79, 89, 90, 95; Plate IV(21)
Halysia tschitscherini Semenov 50
Harmonia arcuata (Fabricius) [= *H. octomaculata* (Fabricius)]
Harmonia axyridis Pallas 50, 58, 62, 66, 76, 99, 110, 114, 116, 118—120, 124, 125, 130, 134, 140, 141 154, 169, 170, 179, 198, 200, 203, 204, 229, 234
Harmonia quadripunctata (Pontoppidan) 50, 54, 90, 97, 171, 200; Plate XXVII
Henosepilachna argus (Geoffroy) 42; Plate XIII(45)
Henosepilachna elaterii (Rossi) 43, 135; Plate III(19), V(22), VI(23), IX(27), XI(31), XIII(45),
Hippodamia americana Crotch 105
Hippodamia apicalis Casey 105
Hippodamia convergens Guérin 60, 79—82, 91—94,

- 100, 102—105, 121, 124, 126, 130, 131, 133, 153, 154, 160, 161, 163, 164, 166, 167, 172—174, 181, 200, 201, 203—205, 220, 232; Photo 16, 57, 58
- Hippodamia glacialis* (Fabricius) 103, 105, 133
- Hippodamia lecontei* Mulsant [= *H. glacialis lecontei* Mulsant] 105
- Hippodamia parenthesis* (Say) 91, 99, 103, 105, 124, 126, 133, 154, 209, 203, 204
- Hippodamia pleuralis* Casey 105
- Hippodamia quinquesignata* Kirby 62, 124, 139, 142
- Hippodamia quinquesignata pustulata* Leconte 100, 145, 149, 154
- Hippodamia septemmaculata* (De Geer) 44, 55, 98, 128
- Hippodamia sinuata* Mulsant 154
- Hippodamia sinuata disjuncta* Timberlake 105
- Hippodamia tredecimpunctata* (Linnaeus) 44, 55, 65, 66, 79—82, 85, 92—94, 103—106, 109, 114, 124, 126, 129, 171; Photo 5—9; Plate I(17), XXII, XXIX
- Hippodamia tredecimpunctata tibialis* (Say) 99, 100, 133
- Hyperaspis* (*Hyperaspis*) *campestris* (Herbst) 95, 98, 99, 232
- Hyperaspis* (*Hyperaspis*) *desertorum* Weise 44
- Hyperaspis* (*Hyperaspis*) *japonica* Crotch 100, 101
- Hyperaspis* (*Hyperaspis*) *jocosa* Mulsant 228
- Hyperaspis* (*Hyperaspis*) *lateralis* Mulsant 124
- Hyperaspis* (*Hyperaspis*) *reppensis* (Herbst) 44, 95, 98, 99, Plate I(17)
- Hyperaspis* (*Hyperaspis*) *vinciguerrae* Capra 30
- Hyperaspis* (*Oxynychus*) *alexandrae* Weise 44
- Hyperaspis* (*Oxynychus*) *terrea* Zaslavskii 44
- Leis conformis* (Boisduval) [= *Harmonia*] 110, 111, 124, 138
- Leis dimidata* quinquecimspilota Hope [= *Harmonia dimidiata* (Fabricius)] 100
- Lemnia bipagiata* (Swartz) [= *Coelophora*] 200
- Lindorus lophantae* Blaisdell 95, 101, 228
- Liodalia flavomaculata* (De Geer) 84, 214
- Lithophilus connatus* (Panzer) 32, 36; Plate VI(23), VIII(26)
- Maeronaemia hauseri* Weise 200
- Menochilus sexmaculatus* (Fabricius) 200
- Micraspis discolor* (Fabricius) 200
- Microneisca coccidivora* Ashmead 102
- Mulsantina picta* (Randall) 91, 92
- Myrrha octodecimguttata* (Linnaeus) 41, 55, 89, 90, 128, 167, 171, 199
- Neomyisia oblongoguttata* (Linnaeus) 41, 55, 85, 90, 96; Plate XXXII
- Nephaspis gorhami* Leconte [= *N. gorhami* Casey] 102
- Novius cruentatus* Mulsant Plate IV(20), VI(23)
- Olla abdominalis* (Say) 100, 102, 105, 131, 200, 205, 220
- Paranaemia vittigera* Mannerheim Plate I(17)
- Pharoscymnus anchorago* Fairmair 209, 230
- Pharoscymnus auricomus* Savoiskaya 52
- Pharoscymnus balkashensis* Savoiskaya 52
- Pharoscymnus heptapomicus* Dobzhansky 52
- Pharoscymnus numidicus* Pic 96, 101, 124, 138, 143—145
- Pharoscymnus ovoideus* Sicard 96, 101, 229
- Pharoscymnus pharoides* Marseul 95, 101
- Pharoscymnus pilosus* Savoiskaya 52
- Pharoscymnus semiglobosus* (Karsch) 210
- Pharoscymnus setulosus* (Chevrolat) 95, 101
- Pharoscymnus tsharinensis* Savoiskaya 52
- Platynaspis luteorubra* (Goeze) 36, 42, 53, 151, 197, 206
- Propylaea japonica* (Thunberg) 62, 99, 100, 116, 121, 200, 234
- Propylaea quatuordecimpunctata* (Linnaeus) 40, 54, 65, 76, 78, 79, 82, 83, 85, 87—90, 95, 97—99, 104, 106, 120, 145, 147, 148, 154—158, 160, 168, 170, 179—201, 204, 206, 208—211, 213; Plate II(18), XI(31), XXVI, XXXI
- Pseudoharmonia montana* Savoiskaya 41
- Pseudoscymnus sylvaticus* (Lewis) 70
- Pullus auritus* Thunberg [= *Scymnus*]
- Rhizobius chrysomeloides* (Herbst) 43
- Rhizobius* (*Lindorus*) *lophaniae* Blaisdell [= *Lindorus*]
- Rhizobius litura* (Fabricius) 43
- Rhizobius ventralis* Erichson 228
- Rodolia cardinalis* Mulsant 43, 100, 102, 111, 120, 206, 215, 228, 233, 235
- Rodolia fausti* Weise 43
- Rodolia limbata* Motschulsky 43
- Rodolia pumilla* (Weise) 228
- Scymnillodes subtropicus* (Casey) 100
- Scymnillus aterrimus* Horn 100
- Scymnus lacustris* Leconte 91, 92
- Scymnus marginicoelis* Mannerheim 100
- Scymnus melsheimeri* Weise 102
- Scymnus minimus* Paykul [= *Stethorus punctillum* (Weise)] 220
- Scymnus* (*Nephus*) *bipunctatus* Kugelann 95, 97, 98, 101
- Scymnus* (*Nephus*) *flavifrons* (Melsheimer) 102
- Scymnus* (*Nephus*) *limonii* Donistharpe 43
- Scymnus* (*Nephus*) *quadriraculatus* (Herbst) 171
- Scymnus* (*Pullus*) *auritus* Thunberg 44, 90, 122
- Scymnus* (*Pullus*) *dorcatomoides* Weise 100
- Scymnus* (*Pullus*) *haemorrhoidalis* Herbst 44
- Scymnus* (*Pullus*) *hilaris* Motschulsky 99, 100, 101
- Scymnus* (*Pullus*) *impejus* Mulsant 101
- Scymnus* (*Pullus*) *pallidivestis* Mulsant 101
- Scymnus* (*Pullus*) *subvillosus* (Goeze) 43, 95, 98, 99
- Scymnus* (*Pullus*) *suturalis* Thunberg 43, 89, 90, 167, 171; Plate XX
- Scymnus* (*Scymnus*) *abietis* Paykul Plate IV(21), IX(27), XI(31)
- Scymnus* (*Scymnus*) *apetzi* Mulsant 43, 103
- Scymnus* (*Scymnus*) *frontalis* (Fabricius) 43, 90, 103, 104; Plate II(18), VI(23), X(29)

Scymnus (Scymnus) hareja Weise [= *Pseudo-scymnus*] 100, 101
Scymnus (Scymnus) interruptus (Goeze) 43
Scymnus (Scymnus) moreletii Mulsant 214
Scymnus (Scymnus) nigrinus Kugelann 43, 89, 90, 171
Scymnus (Scymnus) pusillus Savoiskaya 43
Scymnus (Scymnus) rubromaculatus (Goeze) 46
Scymnus partitus Casey 100
Semiadalia alpina (Villa) 46
Semiadalia notata (Laicharting) 46
Semiadalia przewalskii Savoiskaya 46
Semiadalia undecimnotata (Schneider) 46, 55, 78, 79, 98, 99, 102—104, 106, 114, 120, 124, 153—161, 163—172, 174, 178, 181, 200, 204, 208—210, 211, 212, 232, 235; Photo 12, 17—22, 53—56; Plate I(17), IX(27), XXVII, XXX
Sospita vigintiguttata (Linnaeus) 41, 45
Spiladelphia barovskii kiritschenkoii Barovsky 41, 80, 110
Stethorus bifidus Kapur 143
Stethorus gilvifrons (Mulsant) 115, 124, 232
Stethorus japonicus Kamiya 99, 100, 101
Stethorus picipes Casey 100, 143, 145
Stethorus punctillum (Weise) 28, 42, 53, 75, 76, 80, 90, 95, 97—99, 101, 110, 111, 124, 145, 153, 155,

170, 171, 192, 215, 220, 229; Plate XX, XXXIV
Stethorus punctum Leconte 147, 229
Stethorus utilis (Horn) 102
Subcoccinella vigintiquatuorpunctata (Linnaeus) 30, 39, 54, 84, 85, 90, 98, 104, 170, 199; Plate III(19), XIII(45), XXI
Synharmonia conglobata (Linnaeus) 50, 55, 66, 71, 78, 79, 83, 84, 90, 95, 98, 124, 127, 128, 171, 190, 200, 208, 209; Plate XXVI, XXXI
Synharmonia impustulata (Linnaeus) 50
Synharmonia lyncea (Olivier) 50, 55
Synharmonia oncina (Olivier) 50
Synonyma grandis (Thunberg) 125

Telsimia nigra (Weise) 100, 101
Telsimia nitida Chapin 228
Thea cincta (Fabricius) [= *Illeis*] 100
Thea vigintiduopunctata (Linnaeus) 39, 54, 65, 98, 136, 170, 174; Photo 14; Plate IV(2), V(22), VIII(26), IX(27), XI(31), XXII, XXX
Tythaspis lineola (Gebler) 46
Tythaspis sedecimpunctata (Linnaeus) 16, 54, 107, 136, 168, 170, 174; Plate III(19), XX
Tythaspis trilineata (Weise) 46

Vibidia duodecimguttata (Poda) 40, 54, 95, 174

Aphidoidea¹⁾

Acyrtosiphon caraganae Cholodkovsky, 125, 126
Acyrtosiphon gossypii Mordvilko 83
Acyrtosiphon pisum (Harris) 83, 114—118, 120—124, 126, 127, 137, 143, 144, 149, 151, 219, 221, 232
Adelges cooleyi (Gillette) [= *Gilletteella cooleyi* (Gillette)] 123
Adelges nüsslini (Börner) [= *Dreyfusia nordmanniana* (Eckstein)] 93, 123
Adelges piceae (Ratzeburg) [= *Dreyfusia piceae* (Ratzeburg)] 93, 223, 228
Amphorophora oleraceae (van der Goot) [= *Hyperomyzus lactucae* (Linnaeus)] 118, 119, 124
Anuraphis persicae (Passerini) [= *Brachycaudus persicae* (Passerini)] 83
Aphidula pomi (DeGeer) [= *Aphis pomi* DeGeer] 97, 139
Aphis asclepiadis Fitch [= *Aphis nerii* Boyer de Fonscolombe] 137
Aphis citricidus Kirkaldy [= *Toxoptera citricidus* (Kirkaldy)] 100, 101
Aphis craccivora Koch 114, 116, 118—122, 123, 124, 141, 182
Aphis durantae Theobald [= *Aphis puniceae* Passerini] 111, 123, 124, 142
Aphis fabae Scopoli 78, 79, 83, 85, 106, 112—118, 121, 123, 124, 137, 139—141, 181, 218, 220, 221, 225
Aphis frangulae Kaltenbach 137

Aphis gossypii Glover 83, 114, 121, 123, 140, 232;
Aphis hederæ Kaltenbach 113
Aphis laburni Kaltenbach [= *Aphis cytisorum* (Hartig)] 123
Aphis maidis Fitch [= *Rhopalosiphum maidis* (Fitch)] 123
Aphis nerii Boyer de Fonscolombe 120, 122, 123
Aphis pomi DeGeer 83, 116, 118, 122, 124, 126, 129, 138
Aphis pseudobrassicæ Davis [= *Lipaphis erysimi* Kaltenbach] 123
Aphis sacchari Zehntner [= *Longiunguis sacchari* (Zehntner)] 228
Aphis sambuci Linnaeus 112—116, 118, 120
Aphis urticae Scopoli [= *Aphis urtica* Fabricius] 123
Appelia tragopogonis (Kaltenbach) 122
Aulacorthum circumflexum (Buckton) [= *Neomyzus circumflexum* (Buckton)] 115, 122
Aulacorthum magnoliae (Essig et Kuwana) [= *Acyrtosiphon magnoliae* (Essig et Kuwana)] 114, 120
Brachycaudus subterranea = ? *semisubterranea* (Boisduval) [= *Brachycaudus persicae* (Passerini)] 122, 124
Brevicoryne brassicae (Linnaeus) 110, 114—116, 118, 124, 137, 226
Cavariella aegopodii (Scopoli) 221
Chaitophorus jaxarti Nevsky 83

¹⁾ The synonymy has been elaborated by Dr. J. Holman, Institute of Entomology, Czechoslovak Academy of Sciences, Prague. The recently valid names are in brackets.

Chaitophorus saliceti Rüsssaamen [= *Chaitophorus saliceti* (Schrank) 83
Chaitophorus shaposhnikovi Mamontova 83
Chromaphis juglandicola (Kaltenbach) 100, 221
Cinara palaestinensis Hille Ris Lambers 122, 125
Dactynotus sonchi (Linnaeus) [= *Uroleucon sonchi* (Linnaeus)] 137
Drepanosiphum platanoides (Schrank) 140
Hyalopterus arundinis (Fabricius) [= *Hyalopterus pruni* (Geoffroy)] 83, 116, 118, 123, 124
Hyalopterus pruni (Geoffroy) 83, 110, 121, 123, 126, 137, 138
Lipaphis erysimi (Kaltenbach) 114, 123
Longiunguis donacis (Passerini) 123
Macrosiphoniella artemisiae (Boyer de Fonscolombe) 122, 123
Macrosiphum aconitum = ? *aconiti* v. d. Goot [= *Delphinobium junackianum* (Karsch)] 110, 120
Macrosiphum euphorbiae (Thomas) 137
Macrosiphum granarium (Kirby) [= *Macrosiphum (Sitobion) avenae* (Fabricius)] 114, 123
Macrosiphum pisi [= *Acyrtosiphon pisum* (Harris)] 105, 124, 139, 142
Macrosiphum rosae ibarae Matsumura 118, 124
Macrosiphum sanborni (Gillette) [= *Macrosiphoniella sanborni* (Gillette)] 123
Megoura viciae Buckton 115, 116, 118, 120, 121, 123
Megoura viciae japonica (Matsumura) 118, 124
Microlophium evansi (Theobald) 82, 115, 118, 122, 149, 150
Microlophium urticae (Schrank nec L.) [= *Microlophium evansi* (Theobald)] 137
Myzus cerasi (Fabricius) 122

Other prey

Agelastica alni (Coleoptera) 128
Agelastica coerulea (Coleoptera) 115
Aleyrodidae 108
Bryobia praetiosa (Acarina) 111
Bryobia rubrioculus (Acarina) 115
Chionaspis salicis (Coccoidea) 111
Chloropulvinaris floccifera (Coccoidea) 232
Choristoneura pinus (Lepidoptera) 147
Chrysomelidae (Coleoptera) (pre-imaginal stages) 107, 108
Chrysomphalus ainidum (Coccoidea) 114, 123
Chrysomphalus dictyospermi Coccoidea) 229
Chrysomphalus ficus (Coccoidea) 229
Coccinella septempunctata bruckii (eggs) (Coleoptera) 123
Coleomegilla maculata (eggs) (Coleoptera) 124
Dactylopius opuntiae (Coccoidea) 124, 129
Ephestia kuehniella (Lepidoptera) 134
Eulecanium caraganae (Coccoidea) 123
Galerucella lineola (Coleoptera) 125, 128
Galerucella sagitariae (Coleoptera) 128
Galerucella tenella (Coleoptera) 128

Myzus malisuctus Matsumura 123
Myzus persicae (Sulzer) 83, 115, 116, 118, 119, 122—124, 139, 141, 149, 235
Neomyzus circumflexus (Buckton) 149
Neophyllaphis podocarpi Takahashi 123, 124
Oregma bambusicola Takahashi 123, 125
Pemphigus fuscicornis (Koch) 106
Pergandeia mediaginis auct. nec Hoch [= *Aphis craccivora* Koch] 123
Periphyllus californiensis (Shinji) 118, 124
Phylloxera glabra (Heyden) 122, 124
Rhopalosiphum (Lipaphis) erysimi (Kaltenbach) [= *Lipaphis erysimi* (Kaltenbach)] 121
Rhopalosiphum maidis (Fitch) 103, 114, 122, 124, 125
Rhopalosiphum padi (Linnaeus) 122, 123, 125, 126, 137
Rhopalosiphum prunifoliae (Fitch) [= *Rhopalosiphum padi* (Linnaeus)] 114, 123, 124
Rhopalosiphum rufomaculatum (Wilson) [= *Colo-radoa rufomaculata* (Wilson)] 126
Schizaphis graminum (Rondani) 137
Schizolachnus pineti Fabricius 123
Schizolachnus piniradiatae (Davidson) 89, 111
Therioaphis trifolii (Monell) 219
Therioaphis maculata (Buckton) [= *Therioaphis trifolii* (Monell)] 124, 228, 234
Therioaphis ononidis (Kaltenbach) 83
Toxoptera graminum Rondani [= *Schizapsis graminum* (Rondani)] 113
Uromelan aeneus (Hille Ris Lambers) [= *Uroleucon (Uromelan) aeneus* (Hille Ris Lambers)] 113, 123, 181
Vesiculaphis caricis (Fullaway) 123

Gastroidea polygoni (Coleoptera) 128
Grapholitha molesta (Lepidoptera) 125
Hyphantria cunea (eggs) (Lepidoptera) 124, 129
Icerya purchasi (Coccoidea) 11, 128, 233
Lepidosaphes beckii (Coccoidea) 114
Lepidosaphes ulmi (Coccoidea) 111
Matsucoccus josephi (Coccoidea) 122, 124
Melasoma aenea (Coleoptera) 123, 128
Melasoma populi (Coleoptera) 115, 128, 229
Metatetranychus ulmi (Acarina) 111, 124, 125, 127
Musca (larvae) (Diptera) 134
Orthezia insignis (Coccoidea) 228
Panonychus citri (Acarina) 100, 101
Panonychus ulmi (Acarina) 99, 111, 124, 143
Paratetranychus spp. (Acarina) 111
Parlatoria blanchardi (Coccoidea) 124, 229
Phaedon cochleariae (Coleoptera) 128
Phenacoccus hirsutus (Coccoidea) 111
Phyllodecta atrovirens (Coleoptera) 128
Phytonomus variabilis (Coleoptera) 232
Plagioderia versicolora (Coleoptera) 128
Prodenia litura (eggs) (Lepidoptera) 111, 124

Pseudalacaspis pentagona (Coccoidea) 229
Pseudococcus spp. (Coccoidea) 231
Pseudococcus aurilanicus (Coccoidea) 124
Pseudococcus citri (Coccoidea) 233
Pseudococcus filamentosus (Coccoidea) 111
Pseudococcus gahani (Coccoidea) 235
Pseudococcus sequoiae (Coccoidea) 124
Psylla pyricola (Psylloidea) 100
Psylloborini (larvae) (Coleoptera) 107

Pulvinaria vitis (Coccoidea) 125, 127
Quadraspidotus perniciosus (Coccoidea) 229
Saissetia oleae (Coccoidea) 114
Tetranychus bimaculatus (Acarina) 111, 124
Tetranychus cinnabarinus (Acarina) 80, 124
Tetranychus telarius (Acarina) 125, 126
Tetranychus urticae (eggs) (Acarina) 124
Typhlodromus spp. (Acarina) 111
Unaspis yanonensis (Coccoidea) 100, 101, 123



Photo 1 Adult of *Anatis ocellata* (photo J. Křeček).

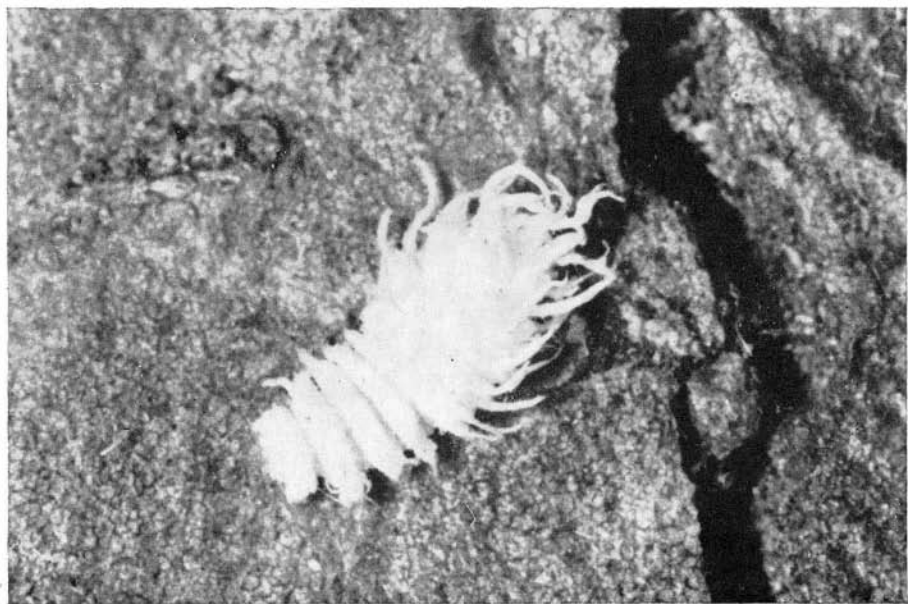


Photo 2 Larva of *Scymnus* sp. (photo J. Křeček).

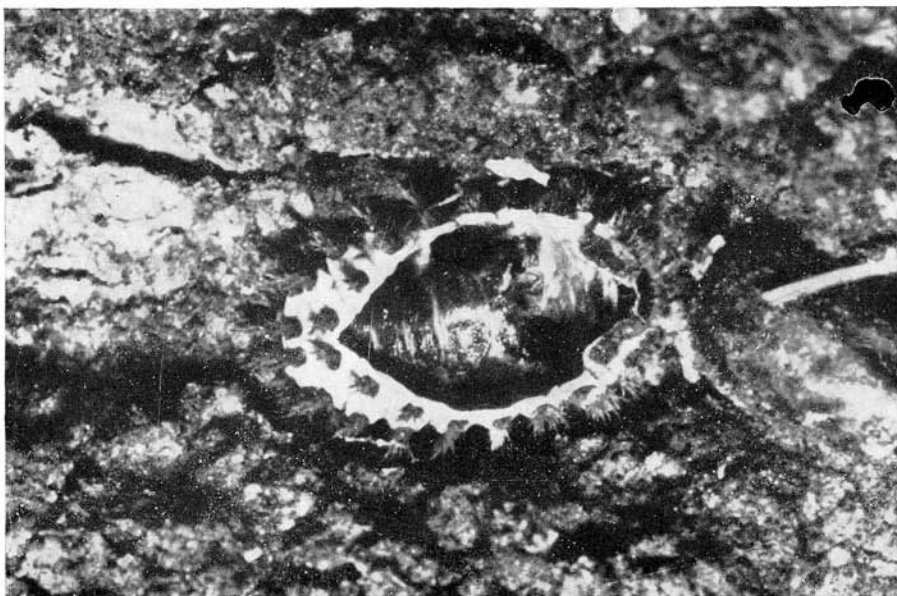


Photo 3 Pupa of *Exochomus quadripustulatus* (photo J. Křeček).



Photo 4 Adult of *Exochomus quadripustulatus* (photo J. Křeček).

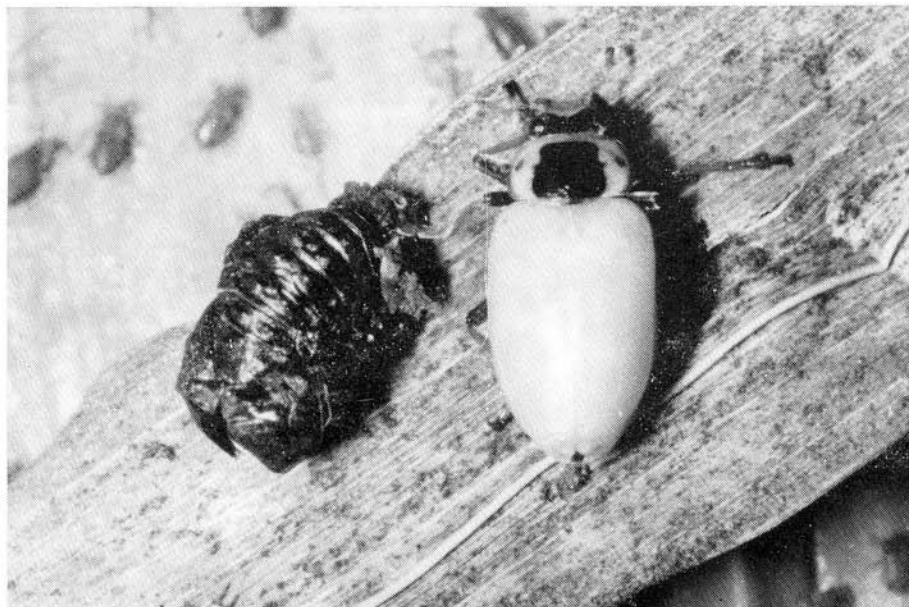


Photo 5, 6 *Hippodamia tredecimpunctata* after the adult ecdysis (photo J. Křeček).



Photo 7 *Hippodamia tredecimpunctata* after the adult ecdysis (photo J. Křeček).



Photo 8 Adult of *Hippodamia tredecimpunctata* (photo J. Křeček).

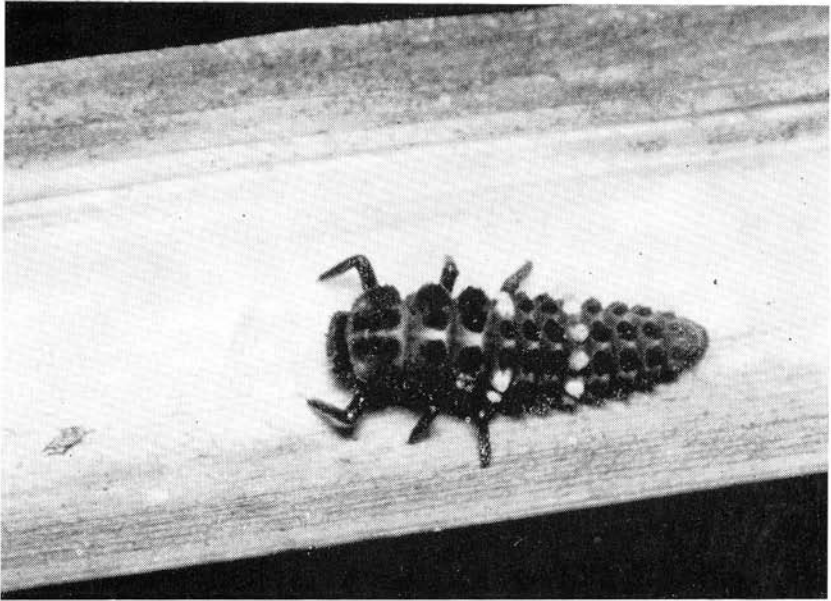


Photo 9 Larva of *Hippodamia tredecimpunctata* (photo J. Křeček).

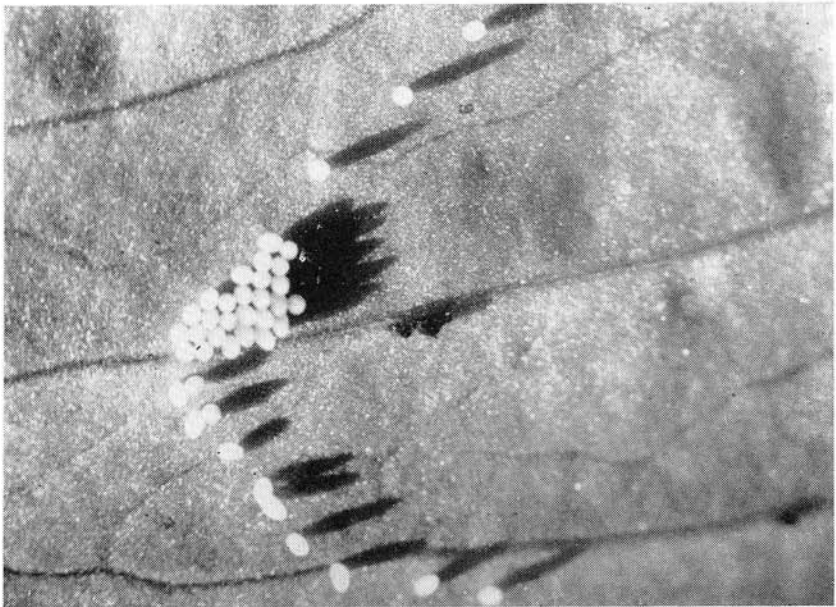


Photo 10 Eggs of *Coccinella septempunctata* (photo I. N. R. A., Antibes).

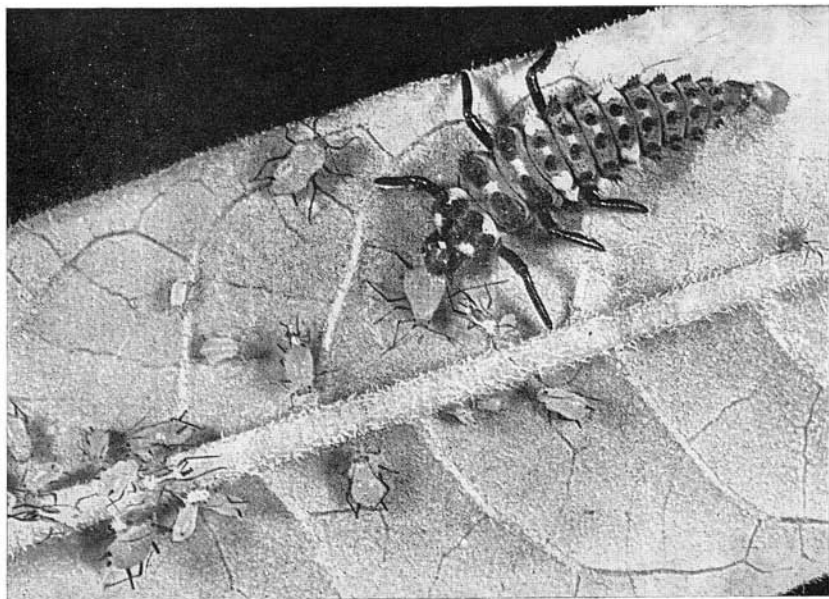


Photo 11 Larva of *Coccinella septempunctata* (photo I. N. R. A., Antibes).

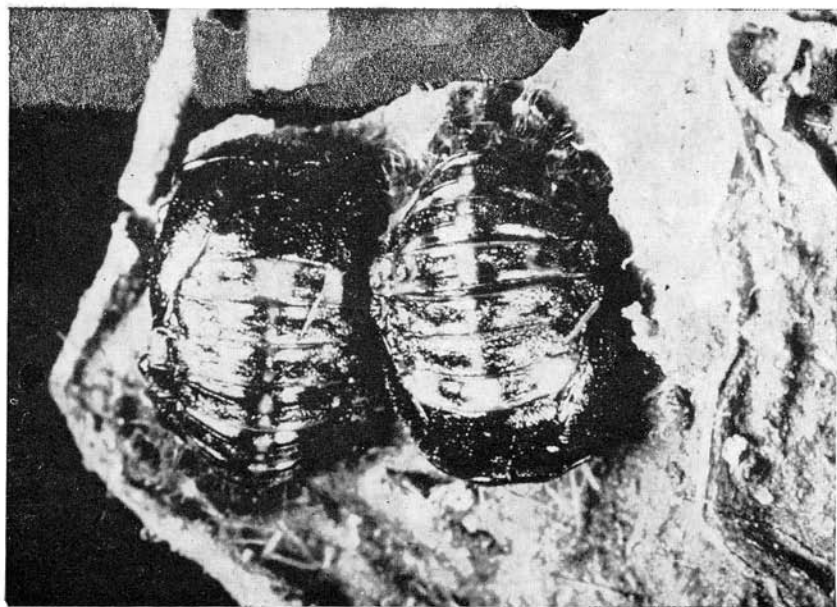


Photo 12 Pupae of *Semiadalia undecimnotata* (photo I. N. R. A., Antibes).



Photo 13 Adult of *Coccinella septempunctata* (photo I. N. R. A., Antibes).



Photo 14 Adult of the mycophagous *Thea vigintiduopunctata* (photo J. Křeček).

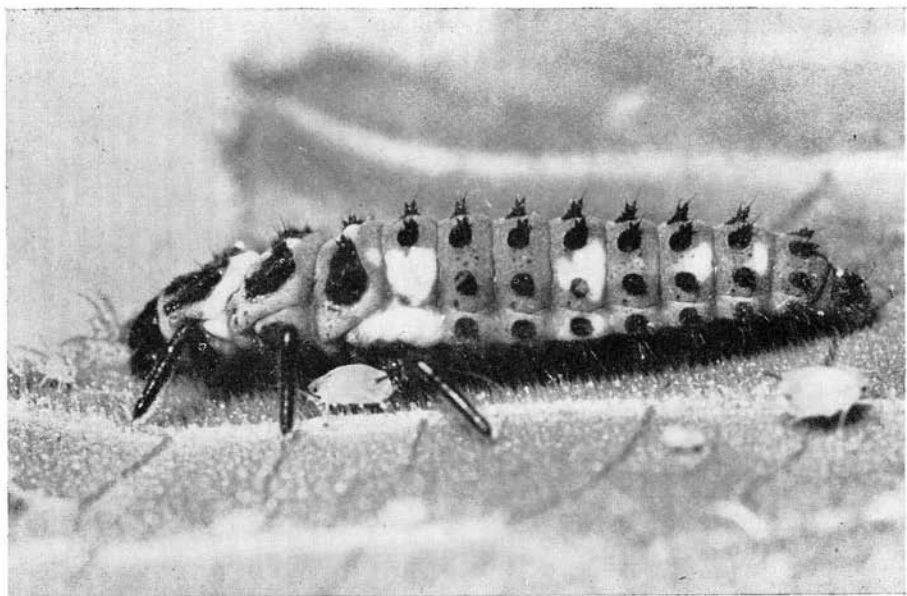


Photo 15 Larva of *Hippodamia* sp. (photo F. E. Skinner).

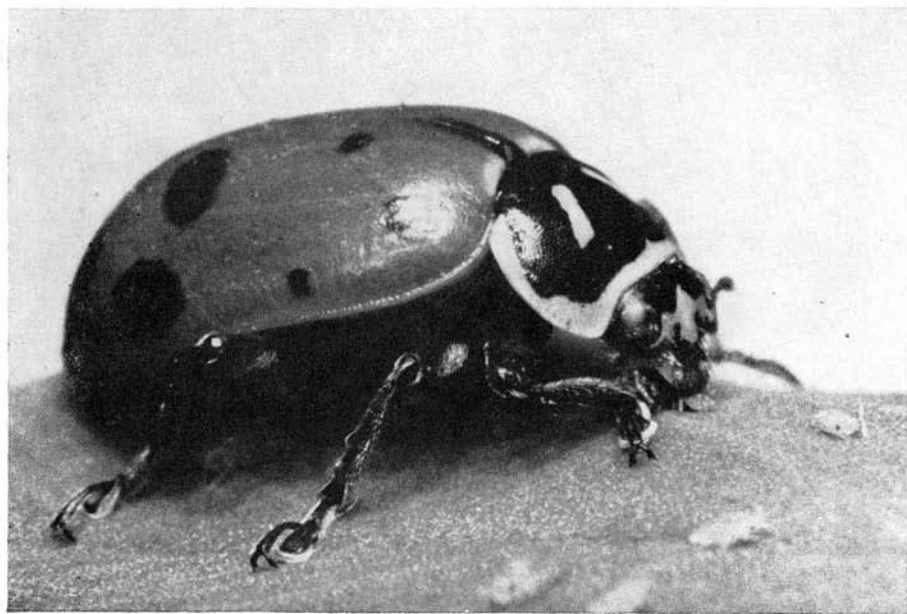


Photo 16 Adult of *Hippodamia convergens* (photo F. E. Skinner).



Photo 17 Ovaries of a diapausing female of *Semiadalia undecimnotata* (photo J. Kubec).



Photo 18 Ovaries of a reproducing female of *Semiadalia undecimnotata* (photo J. Kubec).

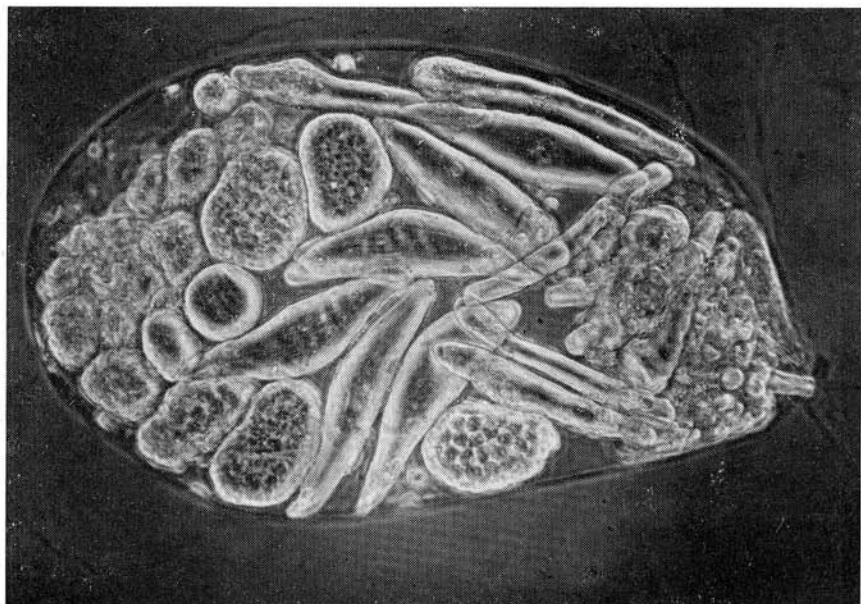


Photo 19 Testicular follicle of *Semiadalia undecimnotata* still active in the first period of dormancy (whole mount, phase contrast, photo V. Landa).

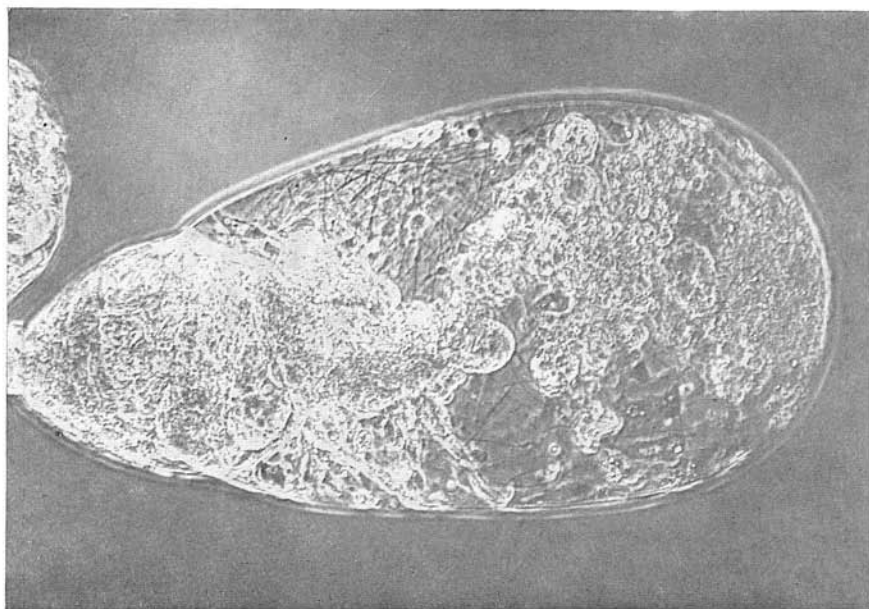


Photo 20 Testicular follicle of *S. undecimnotata* after the arrest of spermatogenesis (early November) (whole mount, phase contrast, photo V. Landa).



Photo 21 Inactive testicular follicle of *S. undecimnotata* (mid-December) (whole mount, phase contrast, photo V. Landa).

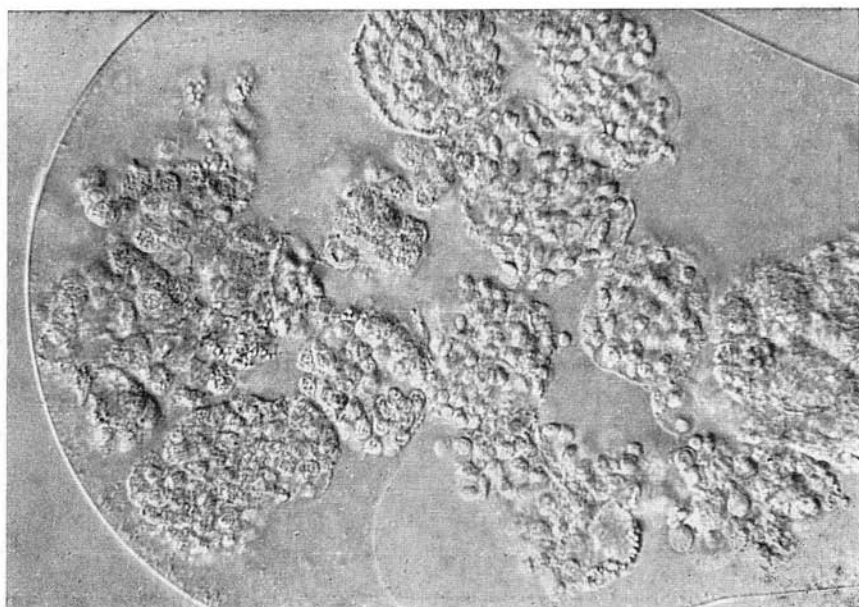


Photo 22 A gradual resumption of spermatogenesis in the testicular follicle of *S. undecimnotata* (whole mount, interference phase contrast, photo V. Landa).



Photo 23 Louny-hills in northern Bohemia (from the left: Raná, Stříbrník, Oblík, Srdov, Brník)

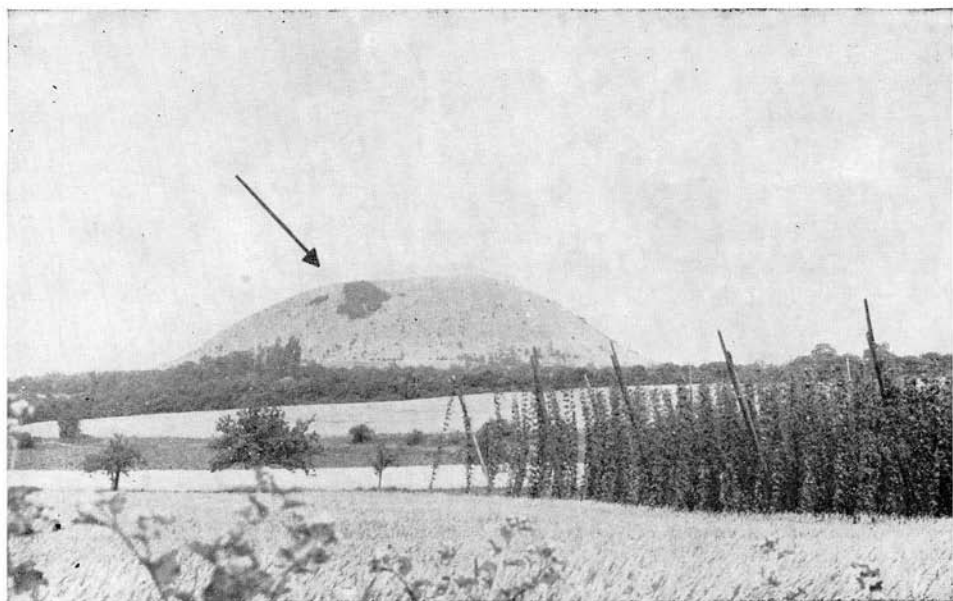
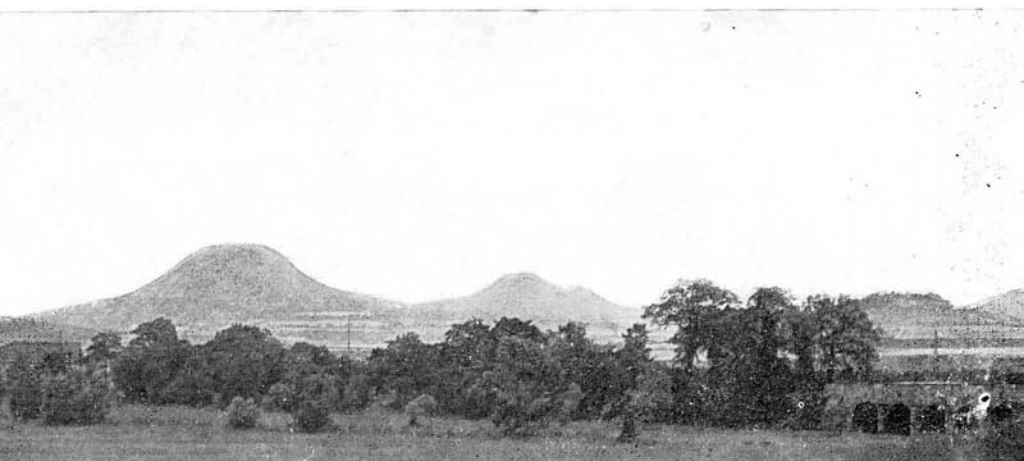


Photo 24 The hill Oblík (in Louny hills) (photo I. Hodek).



with the dormancy sites of *Semiadalia undecimnotata* (photo I. Hodek).



Photo 25 The hill Klapý (with the ruin Hazmburk) in northern Bohemia. (The arrow shows the place with dormancy sites of *S. undecimnotata*. There are no sites at the tower of the ruin.) (Photo I. Hodek).



Photo 26, 27 In the Louny hills the adults of *S. undecimnotata* aggregate in the crevices of rocks or among the low twigs of a shrub and the rock (photo I. Hodek).



Photo 28 The aggregations of *Semiadalia undecimnotata* on the hill Klapý are in the crevices of high basalt columns (photo I. Hodek).

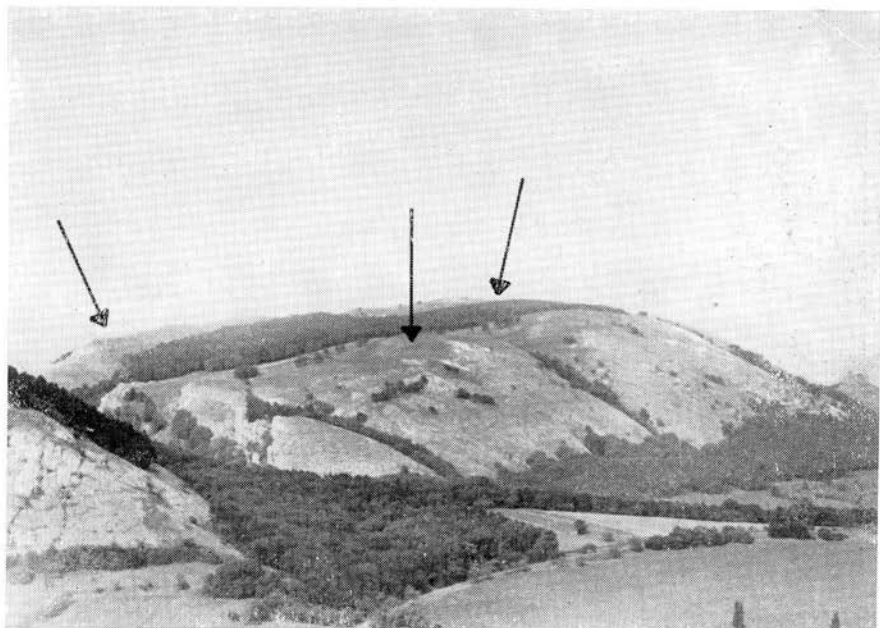


Photo 29 The limestone mountain Děvín (Pavlov hills) in southern Moravia, with dormancy sites of *S. undecimnotata* right and *Coccinella septempunctata* left (photo L. Peške).



Photo 30, 31 The northern part of Děvín where *C. septempunctata* overwinters in small aggregations on the lower surface of stones (photo Ľ. Peške).



Photo 32 The largest aggregation of *S. undecimnotata* on Děvín can be found among stones or between the post and a stone in a heap of rocks; (from the left A. C. Smith, Belleville, Canada; K. S. Hagen, Berkeley, California, USA; author; G. Ipertí, Antibes, France) (photo M. Hodková).

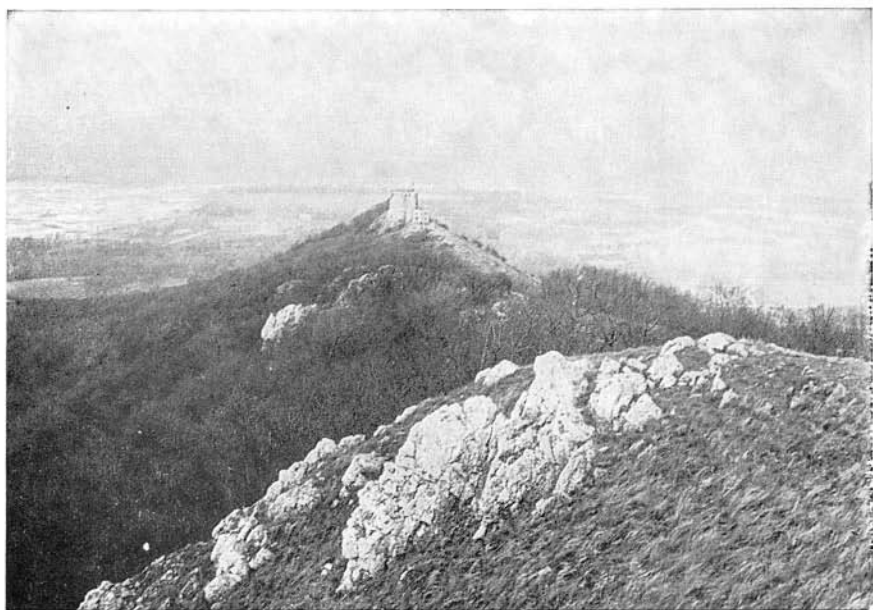


Photo 33 Smaller aggregations of *S. undecimnotata* are situated in the rocks near the peak of Děvín (photo I. Hodek).

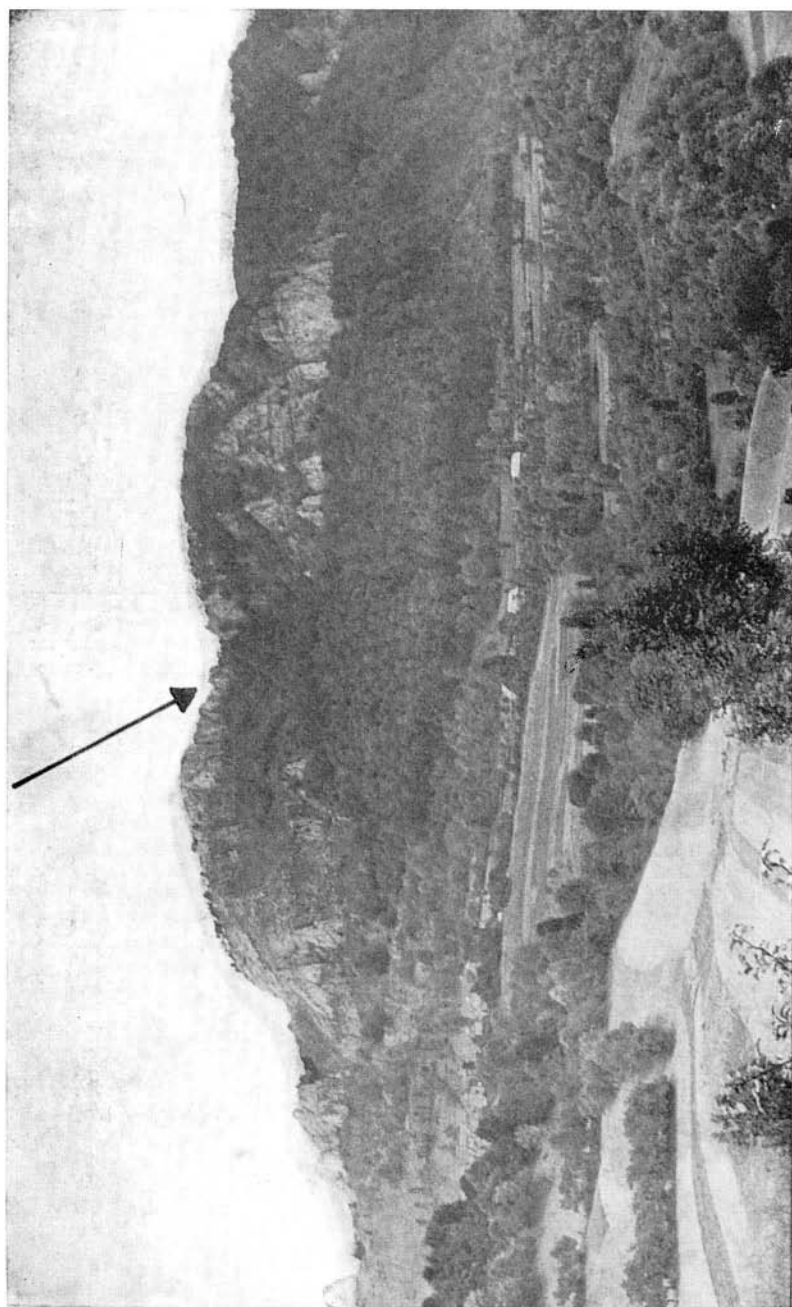


Photo 34 Vršátec mountains in western Slovakia with the dormancy site of *C. septempunctata*(arrow) (photo L. Peške).



Photo 35 The dormancy site of *C. septempunctata* in grass tussocks on Vršatec (indicated by the arrow on the photo 34) (photo I. Hodek).

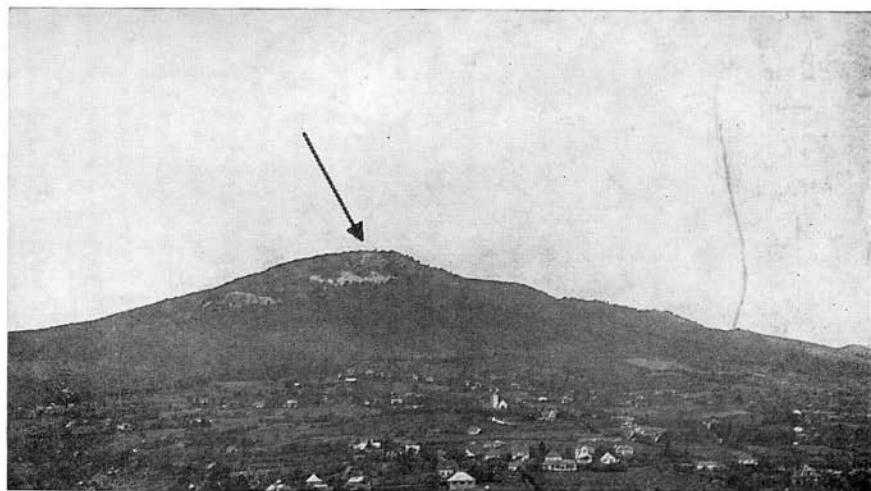


Photo 36 Zobor hill in the Tribeč mountains (western Slovakia) where several dormancy sites of *S. undecimnotata* are situated (photo I. Hodek).



Photo 37, 38 Places with dormancy sites on the main and northern tops of Zobor (photo I. Hodek, L. Peške).

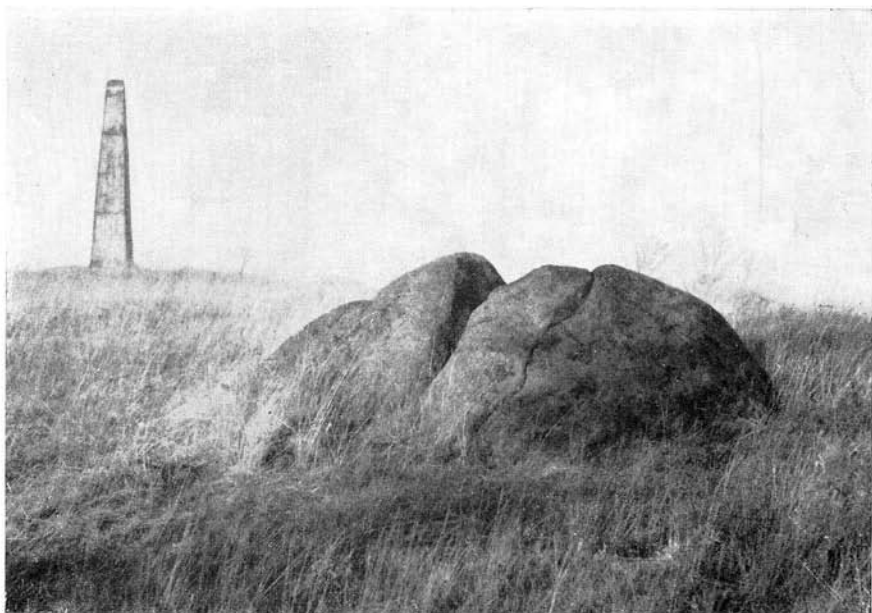


Photo 39 A large aggregation of *S. undecimnotata* on Nagy-hegy (261 m) (southeastern Slovakia) is situated in a wide crack of a rock; (no aggregations at the foot of the triangulation tower) (photo I. Hodek).



Photo 40 Cousson mountain (1516 m) with dormancy sites of *S. undecimnotata* in south-eastern France (near Digne, Basses Alpes) (photo I. N. R. A., Antibes).



Photo 41 Courbons mountain (220 m) with dormancy sites of *S. undecimnotata* in south-eastern France (Basses Alpes) (photo I. N. R. A., Antibes).

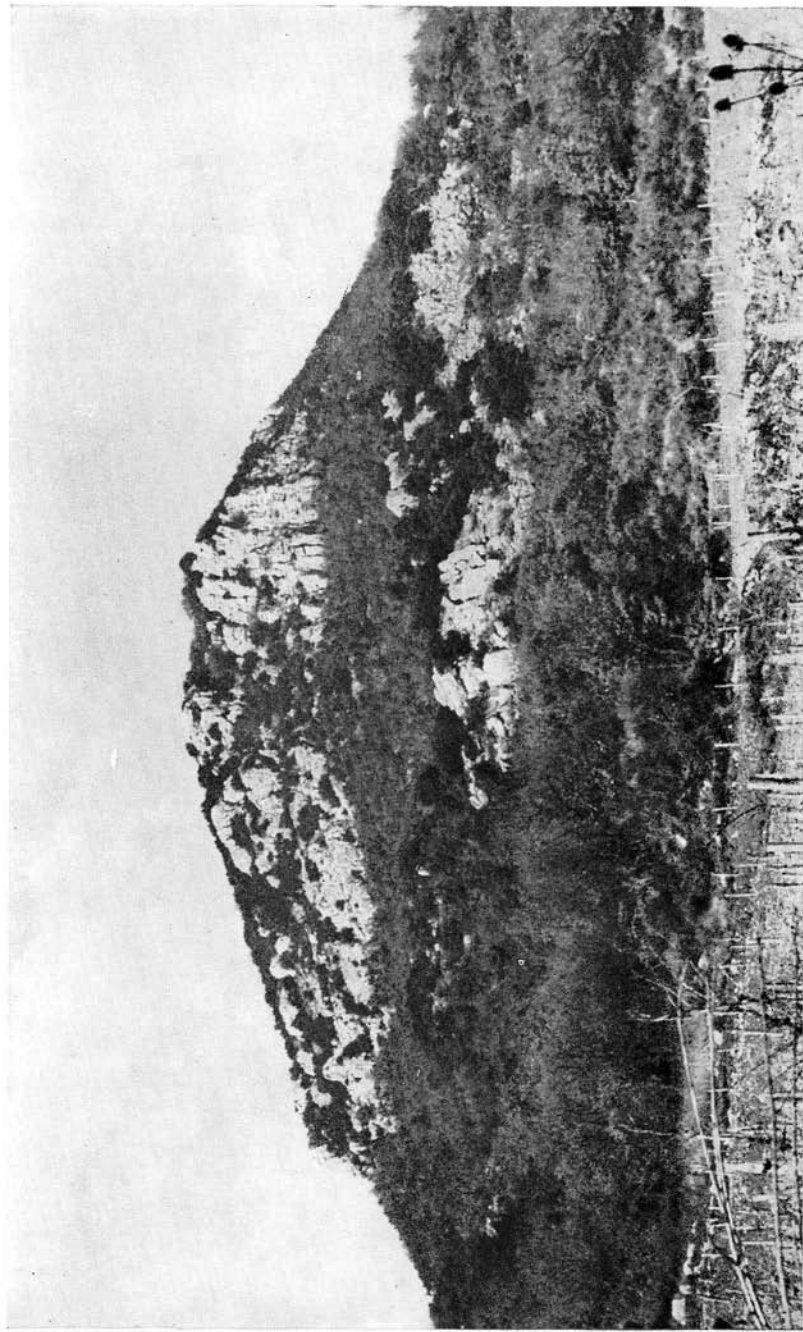


Photo 42 Saint-Amand hill (732 m) with dormancy sites of *S. undecimnotata* in south-eastern France (Vaucluse); [described by Fabre (1879) as a hibernation quarter of *C. septempunctata*] (photo I. N. R. A., Antibes).

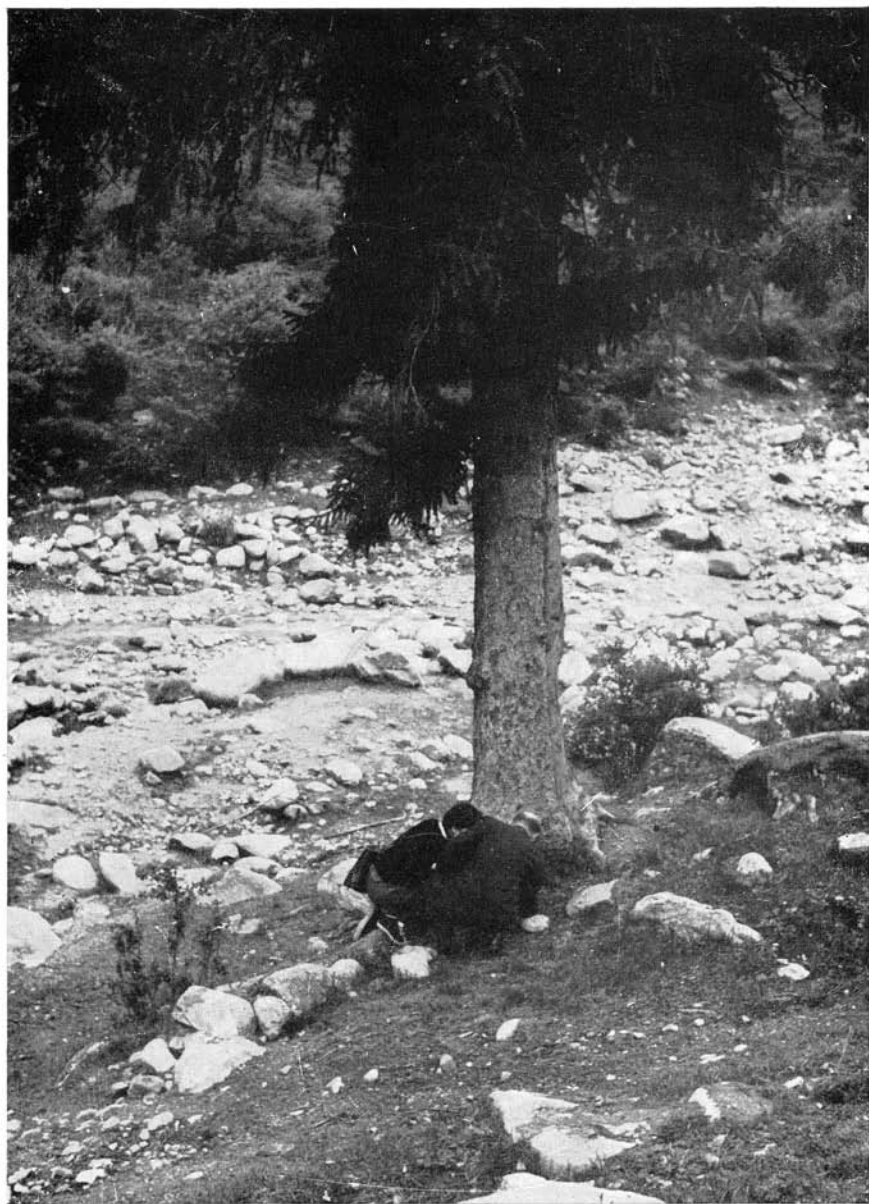


Photo 43 Dormancy sites of *Adalia* spp. at the foot of a Tyan-shan spruce at c. 1700 m (the Great Alma-Atinka valley, Zailiiskii Ala-Tau, near Alma Ata, Kazakh. SSR; (lower down the valley, at c. 1300—1400 m, *C. septempunctata* hibernates below stones in the dry river bed) (photo I. Hodek).



Photo 44 Dormancy sites of *Brumus octosignatus* (amongst vegetation in the left foreground) and *Coccinella septempunctata* (the hill in the middle background) in the Chatkalskii khrebet (Su Kok region near Tashkent, Uzbek SSR) (photo I. Hodek).



Photo 45 Dormancy site of *C. septempunctata* in the Chatkalskii khrebet (Su Kok region near Tashkent, Uzbek SSR) (photo I. Hodek).



Photo 46 The mountain Teshik Tash with the dormancy sites of *C. septempunctata* (Chatkalskii khrebet, near Tashkent, Uzbek SSR) (photo I. Hodek).



Photo 47 The onset of spring dispersion of *S. undecimnotata* from a rock crevice (photo I. Hodek).

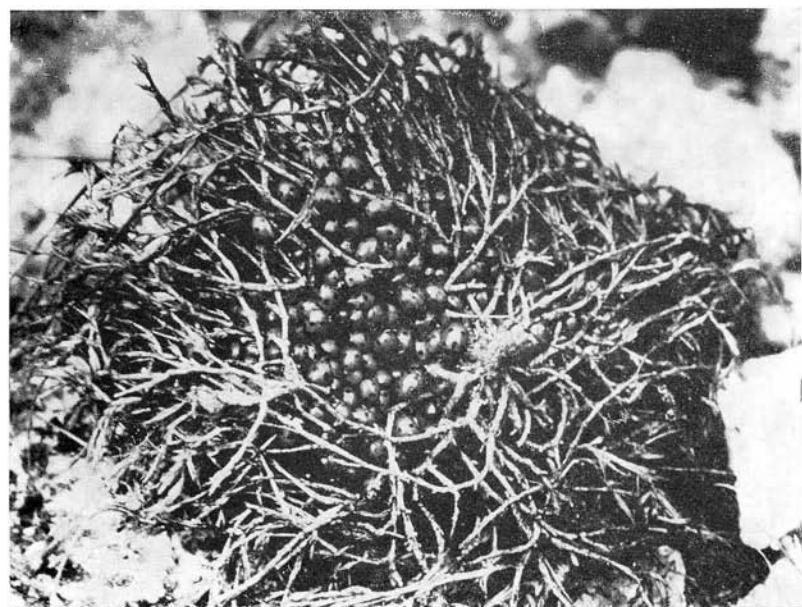


Photo 48 Aggregation of *S. undecimnotata* in vegetation (photo I. N. R. A., Antibes).

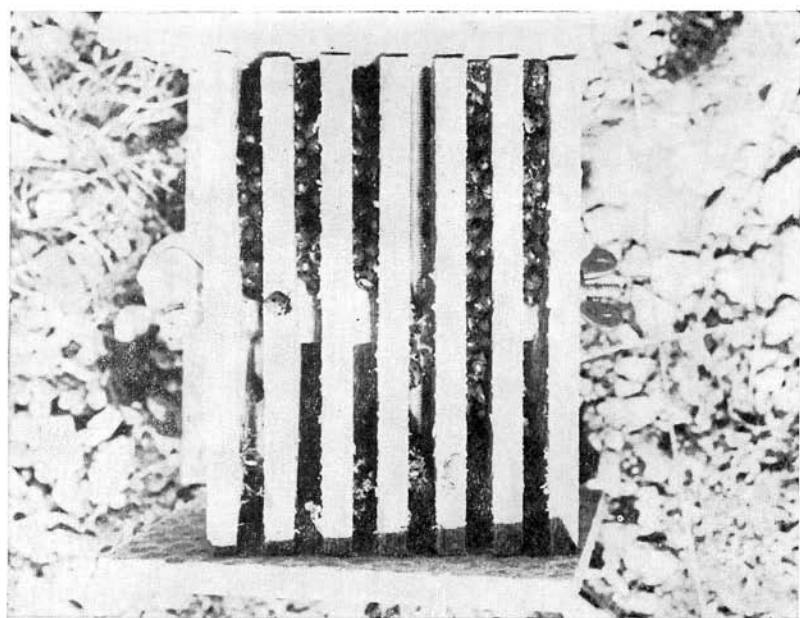


Photo 49, 50 Artificial dormancy site devised by G. Iperti (photo I. N. R. A., Antibes).



Photo 51 Adult of *Cycloneda sanguinea* eating an aphid (photo F. E. Skinner).



Photo 52 Adults of *Adalia bipunctata* (photo J. Křeček).



Photo 53, 54 The spring dispersion of *Semiadalia undecimnotata* from an aggregation in Louny-hills, Bohemia (photo I. Hodek).



Photo 55, 56 A large aggregation of *Semiadalia undecimnotata* on a wooden wall protected by stones in Pavlov-hills, Moravia (photo H. J. Müller).



Photo 57, 58 Large aggregations of *Hippodamia convergens* on vegetation in Sierra Nevada, California (photo B. Matsumoto).