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Wooley, T.A. 1988. Acarology: mites and human welfare. John Wiley & Sons: Chichester, ENGLAND. 484 pp.

Wrenn, W.J. and R.B. Loomis. 1973. A new species of *Euschoengastia* (Acarina: Trombiculidae) from western North America, and the status of *E. californica* (Ewing). J. Med. Entomol. 10(1): 97-100.

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Entomological Bibliography of the California Islands: Supplement 2

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Introduction

This bibliography supplements Miller & Miller (1981) and Miller (1985) in compiling references to insects, arachnids and myriapods of the California Islands: the Channel Islands, Los Coronados Islands and the islands in the San Francisco Bay Region. Islands off Baja California, Mexico, are excluded. Papers contributing to any area of knowledge of California Island entomology are included except for those only giving checklist entries.

Since publication of Miller & Menke (1981) and Miller (1985), many papers have been published, and additional older papers have been located. Notable among the new publications is the proceedings of the 1981 symposium on California Islands insects (Menke & Miller 1985). Format follows the earlier bibliographies; papers not included in this list that are cited in cross references may be found in the earlier bibliographies. The abbreviation "TL" means type locality. A subject index is included. Literature search for this supplement was updated to September 1991. Further supplements are planned as sufficient additions accumulate.

Acknowledgments

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Literature Cited and General References

The following publications fill gaps in background information on the California Islands. Note especially new ideas regarding the tectonic history of the islands.

Brink, K.H. and R.D. Muench. 1986. Circulation in the Point Conception-Santa Barbara Channel Region. J. Geophys. Res. 91(C1): 877-895.

Champion, D. E., D.G. Howell and M. Marshall. 1986. Paleomagnetism of Cretaceous and Eocene Strata, San Miguel Island, California, Borderland and the Northward Translation of Baja California. J. Geophys. Res. 91 (B11):11,557-11,570.

Crother, B.I., M.M. Miyamoto and W.F. Presch. 1986. Phylogeny and biogeography of the lizard family Xantusiidae. Syst. Zool. 35:37-45.
[Suggests a biogeographic "track between central Baja California and the Channel Islands (San Clemente)".]

Hendrickson, D.A. 1986. Congruence of bolitoglossine biogeography and phylogeny with geologic history: paleotransport on displaced suspect terranes? Cladistics 2:113- 129.
[Reviews recent literature on coastal California tectonic history and possible implications for vicariance biogeography.]

Hornafius, J.S., B.P. Luyenkyk, R.R. Terres and M.J. Kamerling. 1986. Timing and extent of Neogene tectonic rotation in the western Transverse Ranges, California. Geol. Soc. Amer. Bull. 97:1476-1487.
[Tectonic history of the California Channel Islands.]

Kamerling, M.J. and B.P. Luyendyk. 1985. Paleomagnetism and Neogene tectonics of the northern Channel Islands, California. J. Geophys. Res. 90(B14):12485-12502.

Menke, A.S. and D.R. Miller (eds.). 1985. Entomology of the California Channel Islands: proceedings of the first symposium. Santa Barbara Museum of Natural History: Santa Barbara, CA. 178 pp.

Miller, S.E. 1985. Entomological bibliography of the California Islands. Supplement I. Pp. 137-169. In: A.S. Menke and D.R. Miller (eds.), Entomology of the California Channel Islands: proceedings of the first symposium. Santa Barbara Museum of Natural History: Santa Barbara, CA. 178 pp.

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Muhs, D.R. 1985. Amino acid age estimates of marine terraces and sea levels on San Nicolas Island, California. Geology 13: 58-61.

Wallace, G.D. 1985. Vascular plants of the Channel Islands of southern California and Guadalupe Island, Baja California, Mexico. Nat. Hist. Mus. Los Angeles Co., Cont. Sci. 365:1-136.

Subject Index

ANOPLURA: Kim *et al.*

ARACHNIDA: Beatty; Bennett 1985a, 1988; Bennett *et al.*; Berman & Levi; De Vol & Goeden; Dondale & Redner; Furman & Loomis; C. Griswold; Johnston; Keifer; Levi; Macquitty; Nuttall *et al.*; Platnick; Platnick & Murphy; Platnick & Shadab; Platnick & Ubick; Rowland; Shear & Gruber; Ubick & Briggs; Webb *et al.*

BIOGEOGRAPHY: Anderson & Peck; Liebherr & Hajek; Miller 1985a, 1985b; Miller & Miller; Nagano; Powell; Rust *et al.*; Weissman.

BIOLOGICAL CONTROL: Clausen; De Vol & Goeden; Goeden *et al.*; Goeden & Kok; Goeden & Ricker 1981.

CHILOPODA: Attems; Shelley.

COLEOPTERA: Anderson; Anderson & Peck; Beal; Boyle; Bright; Challet; Dillon; Doyen; Evans; Evans & d'Hotman; Evans & Smith; Gordon; Gordon & Cartwright; Graves *et al.*; Hovore; Klimaszewski; Liebherr; Liebherr & Hajek; Linsley & Chemsak; Miller & Miller; Nagano; Peck & Kaulbars; Rochette; Somerby; Thomas; Triplehorn; Van Tassell; White; Young; Zimmerman & Smith.

DERMAPTERA: Knabke & Grigarick; S. Miller 1984.

DIPLURA: Reddell.

DIPTERA: Aldrich; Barber; Bath; Bennett 1984, 1985b; Bickel; Boucot; Chaney & Mason; Coyne & Felton; Cuny; Goeden; Goeden & Benjamin; Goeden & Blanc; Goeden & Headrick; Hall & Evenhuis; Headrick & Goeden; Heed; Hurley; Jenkins & Turner; Loomis *et al.*; Lopes & Couri; Singh *et al.*; Vockeroth.

DISPERSAL: Garthwaite *et al.*; Holzapfel; Holzapfel & Perkins; S. Miller 1985a, 1985b; Thornton.

ECOLOGY: De Vol & Goeden; Evans; Fellers & Drost; Gall; Goeden; Goeden & Benjamin; Gorelick; Miller & Davis; Opler; Sholes & Beatty .

ECTOPARASITES: Bennett 1988; Bennett *et al.*; Emerson & Price; Fellers & Drost; Furman & Loomis; Holland; Hopkins; Hopkins & Rothschild; Jellison & Senger; Kim *et al.*; Nuttall *et al.*; Schwan; Traub *et al.*; Webb *et al.*

FOSSILS: Boucot; Chaney & Mason.

GENETICS: Coyne & Felton; Heed; Singh *et al.*

HEMIPTERA: Asquith; Buxton *et al.*; De Vol & Goeden; Knight; Lattin; Schwartz; Scudder; Slater; Stonehadl; Uhler.

HOMOPTERA: Bullington & Kosztarab; Gill; Goeden *et al.*; Goeden & Kok; Goeden & Ricker 1981; Hoy; D. Miller; Rosen & De Bach; Rust *et al.*; Sholes & Beatty.

HYMENOPTERA: Allen; Bohart; Brooks; Burnett; Cockerell; Darling; Dasch; Davis & Philbrick; De Vol & Goeden; Du Bois; Grant & Grant; T. Griswold; Huber; Krombein & Gingras; LaBerge; McGinley; Miller & Davis; Moure & Hurd; Pulawski; Richards; Rosen & De Bach; Ruddock & Rohe; Rust; Rust *et al.*; Smith & Gibson; Snelling; Telford; Ward; Wasbauer & Kimsey; Weld; Wheeler; Whitfield.

INSECTS: Fellers & Drost; Goeden & Ricker 1974, 1987; Holzapfel; Holzapfel & Perkins; Menke; Menke & Miller; D. Miller; S. Miller 1985b, 1985c; Miller & Davis.

ISOPODA: Garthwaite *et al.*

LEPIDOPTERA: Butterflies - Arnaud & Davies; Ballmer & Pratt; Ferris; Garth & Tilden; Gorelick; Howe; S. Miller 1985a; Powell 1985; Pyle; Scott; Thorne; Tilden & Smith. Moths - Brown; Eichlin & Duckworth; Ferguson; Goeden & Ricker 1981; Hardwick; Heppner; Hodges; Lafontaine; Lafontaine & Poole; McDunnough; J. Miller; S. Miller & Hodges; Neunzig; Opler; Poole; Powell; Rindge; Stehr & Cook; Whitfield.

MALLOPHAGA: Emerson & Price.

MORPHOMETRIC STUDIES: Anderson & Peck; Gall; LaBerge; Liebherr & Hajek.

NEUROPTERA: De Vol & Goeden; Oswald.

ODONATA: Garrison.

ORTHOPTERA: Otte; Rehn & Grant; Rehn & Hebard; Walker; Weissman.

PAUROPODA: Scheller.

POLLINATION: Davis & Philbrick; Grant & Grant; Miller & Davis.

PSOCOPTERA: Thornton.

SIPHONAPTERA: Holland; Hopkins; Hopkins & Rothschild; Jellison & Senger; Schwan; Traub *et al.*

SOLPUGIDA: Muma & Brookhart.

SYMPHYLA: Scheller.

THYSANOPTERA: Bailey.

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_____ and S.B. Peck. 1986. Geographic patterns of colour variation in North American *Nicrophorus* burying beetles (Coleoptera; Silphidae). J. Nat. Hist. 20:283-297.
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Asquith, A. 1990. Taxonomy and variation of the *Lopidea nigridia* complex of western North America (Heteroptera: Miridae: Orthotylinae). Great Basin Nat. 50:135- 154.
[Places *L. nigridea* [sic] *hirta* Van Duzee, 1921 (TL: San Miguel I.) as synonym of *L. nigridia aculeata* Van Duzee, 1917.]

Attems, G. 1929. Myriapoda. 1. Geophilomorpha. Das Tierreich 52. 388 pp.
[*Nyctunguis catalinae* (Chamberlin, 1912) redescribed; known only from Santa Catalina I. and Claremont, CA (see Chamberlin 1912:669; Chamberlin 1923:396).]

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[Describes larva of *Strymon avalona* (Wright, 1905), endemic to Santa Catalina I.]

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[*B. lancifer facialis* Cresson, 1919 from Santa Cruz, Santa Catalina and San Clemente Is.; *B. major* Linnaeus, 1758 on map from unstated islands.]

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Beatty, J.A. 1970. The spider genus *Ariadna* in the Americas (Araneae, Dysderidae). Bull. Mus. Comp. Zool. 139:433-518.
[Map record of *A. fidicina* (Chamberlin, 1924) from southern Channel I. Now Segestriidae.]

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[*A. sierrensis* (Ludlow, 1905) from Santa Cruz and Santa Catalina Is.]

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[Records 3 species of ticks and 12 species of ectoparasitic mites from Santa Catalina I.]

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[*I. rugosus* Bishopp, 1911 and *I. pacificus* Cooley & Kohls, 1945 from island fox (*Urocyon littoralis santarosae*) from Santa Rosa I.; *I. rugosus* from spotted skunk (*Spilogale gracilis*) from Santa Cruz I.]

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[New synonyms from Channel Is.: *Anthophora urbana* Cresson, 1878 (=*A. catalinae* Cockerell, 1901; = *A. clementina* Cockerell, 1939; =*A. nicolai* Cockerell, 1939); *A. californica* Cresson, 1869 (=*A. californica erysimi* Cockerell, 1937).]

Brown, C.H. 1969. A revision of the Nearctic members of the genus *Sphinx* Linne 1758 (Lepidoptera, Sphingidae). Ph.D. dissertation, University of California, Riverside, CA. 332 pp. Univ. Microfilms No. 70-11, 981.
[*S. perelegans perelegans* Hy. Edwards, 1874 from Santa Cruz I.]

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[Questions Santa Catalina I. record of *Allokermes rattani* (Ehrhorn, 1906) of Hoy 1963:156-157 and Cockerell 1940:288.]

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[Suggests unidentified Santa Catalina I. galls of Weld (1957: fig. 101) are probably *Andricus stellulus* Burnett, 1974 (Cynipidae).]

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[*C. rossiana* Buxton & Thomas, new name, "on the Channel Islands...on giant *Coreopsis*" and northern Channel I. map record, probably San Miguel I.]

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[Gall on fossil *Cupressus goveniana* Gord. from Santa Cruz I. See Boucot 1990.]

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[Reviews history of biological control of *Opuntia* spp. on Santa Cruz I. with insects. See Goeden *et al.* 1967.]

Cockerell, T.D.A. 1941. Observations on plants and insects in northwestern Baja California, Mexico, with descriptions of new bees. Trans. San Diego Soc. Nat. Hist. 9:337- 352.
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[Includes comments on pollinators of *Malacothrix* spp. on San Miguel I., especially *Agapostemon texanus* Cresson, 1872 (Hymenoptera: Halictidae). See Miller & Davis 1986.]

De Vol, J.E. and R.D. Goeden. 1973. Biology of *Chelinidea vittiger* with notes on its host-plant relationships and value in biological weed control. Env. Ent. 2:231-240.
[Introduction and biology on Santa Cruz I. *Opuntia* spp. of *C. vittiger* Uhler 1863 (Hemiptera: Coreidae). Also *Narnia pallidocornis* Stal, 1870 (Coreidae), Raphidiidae (Neuroptera), *Ooencyrtus johnsoni* (Howard, 1898) (Hymenoptera: Encyrtidae), Scelionidae (Hymenoptera), *Peucetia viridans* (Hentz, 1832) (Araneae: Oxyopidae) and *Phidippus* spp. (Salticidae) on Santa Cruz I.]

Dillon, L.S. 1956. The Nearctic components of the tribe Acanthocinini (Coleoptera: Cerambycidae). Part I. Ann. Ent. Soc. Amer. 49:134-167.
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Dondale, C.D. and J.H. Redner. 1987. The *atrata*, *cubana*, *ferruginea*, *moesta*, *saltuaria*, and *solituda* groups of the spider genus *Pardosa* in North America (Araneae: Lycosidae). Can. Ent. 119:1-19.
[*P. californica* Keyserling, 1887 from Santa Catalina I.]

Doyen, J.T. 1984. Systematics of *Eusattus* and *Conisattus* (Coleoptera; Tenebrionidae; Coniontini; Eusatti). Occ. Pap. Calif. Acad. Sci. 141:1-104.
[*E. politus politus* Horn, 1883 (=*E. vanduzeei* Blaisdell, 1921, n. syn.) from San Miguel (and Prince) and Santa Rosa Is.; *E. p. cruzensis* n. ssp. from Santa Cruz I. (TL); no evidence other than old specimen labels that *politus* occurs on mainland; *E. robustus* LeConte, 1866 from San Nicolas and San Clemente Is. (endemic); *E. difficilis* LeConte, 1851 from San Clemente I.]

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[*M. ergatogyna* Wheeler, 1904 (=*M. minimum* of authors, misident.) on all eight Channel Islands and mainland (TL: Santa Catalina I., not endemic).]

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[*Neotrichodectes mephitidis* (Packard, 1872) from island fox (*Urocyon littoralis*) from San Miguel, Santa Cruz and Santa Catalina Is.]

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[*Coenonycha clementina* Casey, 1909 from San Clemente I.; *C. fulva* McClay, 1943 from Santa Catalina I. and *Phobetus testaceus* LeConte, 1861 from Santa Cruz I. See Evans & d'Hotman 1988; Evans & Smith 1986.]

_____ and D. d'Hotman. 1988. *Coenonycha* Horn in Baja California, Mexico (Coleoptera: Melolonthidae: Melolonthinae). Coleop. Bull. 42:205-210.
[*C. socialis* Horn "is most similar in appearance to *C. clementina* Casey...known only from San Clemente Island". See Evans 1985; Evans & Smith 1986.]

_____ and K.A. Smith. 1986. Four new species of *Coenonycha* Horn from California and Nevada with an illustrated key to all species in the genus (Coleoptera: Scarabaeidae). Coleop. Bull. 40:81-92.
[*C. santacruzae* Evans n. sp., endemic to Santa Cruz I., collected on *Adenostoma fasiculatum* H. & A., *Cercocarpus traskae* Eastw. and *Artemisia californica* Less.]

Fellers, G.M. and C.A. Drost. 1991. Ecology of the island night lizard, *Xantusia riversiana*, on Santa Barbara Island, California. Herpet. Mono. 5:28-78.
[Insects and arachnids as food; Acari (Ixodidae and Trombiculidae) as ectoparasites.]

Ferguson, D.C. 1985a. Geometroidea: Geometridae (part). *In:* R.B. Dominick *et al.*, The moths of America north of Mexico. Fascicle 18.1. 131 pp.
[*Nemoria pistacearia* (Packard, 1876), *N. leptalea* Ferguson, 1969 and *Dichora illustraria* (Hulst, 1886) from Santa Cruz and Santa Catalina Is.; *Cheteoscelis faseolaria* (Guenee, 1857) from Santa Rosa, Santa Cruz, Anacapa and Santa Catalina Is. See Ferguson 1969.]

_____. 1985b. Contributions toward reclassification of the world genera of the tribe Arctiini, Part 1 - Introduction and a revision of the *Neoarctia-Grammia* group (Lepidoptera: Arctiidae; Arctiinae). Entomography 3:181-275.
[*Grammia* spp. (unstated) from "Channel Islands"]

Ferris, C.D. 1988. Revision of several North American Leguminosae - feeding *Colias* species, with description of a new subspecies (Pieridae: Coliadinae). Bull. Allyn Museum 116:1-28.
[*C. alexandra harfordi* Hy. Edwards, 1877 from Santa Cruz I. (Lepidoptera: Pieridae).]

Furman, D.P. and E.C. Loomis. 1985. The ticks of California. Bull. Calif. Insect Surv. 25. 239 pp.
[Farallon (2 spp.), San Miguel (2 spp.), Santa Rosa (2 spp.), Santa Cruz (2 spp.), Anacapa (2 spp.), Santa Barbara (4 spp.), Santa Catalina (3 spp.) and San Clemente (2 spp.) Is. records for 12 spp. of ticks (Argasidae and Ixodidae). See also Lane *et al.* 1983.]

Gall, L.F. 1985. Santa Catalina Island's endemic Lepidoptera. II. The Avalon Hairstreak, *Strymon avalona*, and its interaction with the recently introduced Gray Hairstreak, *Strymon melinus* (Lycaenidae). Pp. 95- 104. In: Menke & Miller, l.c.
[Morphometrics and biologies of *S. avalona* (Wright, 1905) and *S. melinus* Huebner, 1818 of the Channel Islands, especially Santa Catalina I. See Gorelick 1987.]

Garrison, R.W. 1984. Revision of the genus *Enallagma* of the United States west of the Rocky Mountains and identification of certain larvae by discriminant analysis (Odonata: Coenagrionidae). Univ. Calif. Publ. Ent. 105. 129 pp.
[*E. carunculatum* Morse, 1895 from Santa Cruz I.; *E. civile* (Hagen, 1861) from Anacapa and Santa Barbara Is.; *E. cyathigerum* (Charpentier, 1840) from Santa Rosa and Santa Cruz Is.]

Garth, J.S. and J.W. Tilden. 1986. California butterflies. University of California Press: Berkeley, CA. 246 pp.
[Includes various records (none new) of island butterflies, including a brief discussion.]

Garthwaite, R.L., F.G. Hochberg and C. Sassaman. 1985. The occurrence and distribution of terrestrial isopods (Oniscoidea) on Santa Cruz Island with preliminary data for the other California Islands. Bull. So. Calif. Acad. Sci. 84:23-37.
[Records 13 spp. from Santa Cruz I., with discussion of distributions on the island and elsewhere.]

Gill, R.J. 1985. [Comment in checklist]. Pp. 19. In: S. Miller 1985b.
[*Okanagana catalina* Davis, 1936 (TL: Santa Catalina I.) elevated to species status from subspecies of *O. hirsuta* Davis, 1915 (Homoptera: Cicadidae).]

_____. 1988. The scale insects of California. Part 1. The soft scales (Homoptera: Coccoidea: Coccidae). Calif. Dept. Food & Agric., Tech. Ser. Agric. Biosyst. & Plant Pathol. 1. 132 pp.
[*Ceroplastes cistudiformis* Cockerell, 1893 from Santa Catalina I. "on urban plantings"]

Goeden, R.D. 1971. The phytophagous insect fauna of milk thistle in southern California. J. Econ. Ent. 64:1101-1104.
[Study of *Silybum marianum* (L.) Gaertner (Compositae) includes data from Santa Cruz and Santa Catalina Is. (Fig. 1), although not differentiated from mainland data.]

_____. 1986. New records of Tephritidae (Diptera) from Santa Cruz Island, California. Pan-Pac. Ent. 62:326- 328.
[Reviews published records for 5 spp. of Tephritidae from Santa Cruz I. Nineteen spp. (in 9 genera) are newly recorded. Six new host-plant-species rearing records. See Goeden 1989.]

_____. 1987. Host-plant relations of native *Urophora* spp. (Diptera: Tephritidae) in southern California. Proc. Ent. Soc. Wash. 89:269-274.
[*U. formosa* (Coquillett, 1894) reared from *Haplopappus venetus vernonioides* (Nuttall) Hall (Asteraceae) on Santa Cruz I.]

_____. 1989. Host plants of *Neaspilota* in California (Diptera: Tephritidae). Proc. Ent. Soc. Wash. 91:164-168.
[*N. callistigma* Freidberg & Mathis, 1986 from Santa Cruz I., reared from *Haplopappus venetus* var. *vernonioides* (Nuttall) Haller (=*Neaspilota* sp. in Goeden 1986).]

_____ and R.K. Benjamin. 1985. New records for *Stigmatomyces verruculosus* Thaxter (Ascomycetes: Laboulbeniaceae), a fungal parasite of adult Tephritidae (Diptera) in southern California. Proc. Ent. Soc. Wash. 87:392-394.
[*S. verruculosus* from *Tephritis californica* Doane, 1899; *T. araneosa* (Coquillett, 1894) and *Paroxyna americana* Hering, 1944, all from Santa Cruz I. Also includes flower and rearing records for the flies.]

_____ and F.L. Blanc. 1986. New synonymy, host, and California records in the genera *Dioxyna* and *Paroxyna* (Diptera: Tephritidae). Pan-Pac. Ent. 62:88-90.
[*P. genalis* (Thomson, 1869) reared from *Madia* sp. (probably *M. elegans* D. Don) from Santa Cruz I.]

_____, C.A. Fleschner and D.W. Ricker. 1968. Insects control prickly pear cactus. Calif. Agric. 22(10):8-10.
[Summary of Goeden *et al.* (1967). Introduction of insects to control *Opuntia* spp. on Santa Cruz I., culminating successfully with *Dactylopius opuntiae* (Cockerell, 1896) (Homoptera: Dactylopiidae). See Goeden & Ricker 1981.]

_____ and D.H. Headrick. 1991. Life history and descriptions of immature stages of *Tephritis baccharis* (Coquillett) on *Baccharis salicifolia* (Ruiz & Pavon) Persoon in southern California (Diptera: Tephritidae). Pan-Pac. Ent. 67:86-98.
[Biological data on Santa Cruz I. *T. baccharis* (Coquillett, 1894).]

_____ and L.T. Kok. 1986. Comments on a proposed "new" approach for selecting agents for the biological control of weeds. Can. Ent. 118:51-58.
[Cites use of *Dactylopius opuntia* (Cockerell, 1896) (Homoptera: Dactylopiidae) against *Opuntia* spp. on Santa Cruz I. as one of the few successful examples of biological control of native weeds with insects. See Goeden *et al.* 1967.]

_____ and D.W. Ricker. 1974. The phytophagous insect fauna of the ragweed, *Ambrosia chamissonis*, in southern California. Environ. Ent. 3:835-839.
[Study includes data from Santa Cruz I. (Fig. 1), although not differentiated from mainland California data.]

_____ and _____. 1981. Santa Cruz Island-revisited. Sequential photography records the causation, rates of progress, and lasting benefits of successful biological weed control. Pp. 355-365. In: E. Del Fosse (ed.), Proceedings of the fifth international symposium on the biological control of weeds. CSIRO: Melbourne, AUSTRALIA. 649 pp.
[Control of *Opuntia littoralis* (Engelmann) Cockerell, *O. oricola* Philbrick and their hybrids by *Dactylopius opuntiae* Cockerell (Homoptera: Dactylopiidae). Entomophagous moth *Laetilia coccidivora* (Comstock, 1879) (Lepidoptera: Pyralidae) slowed control since it arrived on Santa Cruz I. in early 1970s. See Goeden *et al.* 1967, 1968; Powell 1981b.]

_____ and _____. 1987. Phytophagous insect faunas of the native thistles, *Cirsium brevistylum*, *Cirsium congdonii*, *Cirsium occidental* and *Cirsium tioganum*, in southern California. Ann. Ent. Soc. Amer. 80:152-160.
[Data from surveys of *C. brevistylum* Cronquist and *C. occidentale* (Nuttall) Jepson (Asteraceae) on Santa Cruz I. lumped with mainland data.]

Gordon, R.D. 1985. The Coccinellidae (Coleoptera) of America north of Mexico. J. New York Ent. Soc. 93:1-912.
[*Delphastus catalinae* (Horn, 1895) from Santa Catalina I. (TL, not endemic); *Scymnus falli* Gordon, 1976 from Santa Cruz and Santa Barbara Is.; *Nephus binaevatus* (Mulsant, 1850) from Santa Catalina I. and *Hyperaspidius comparatus* Casey, 1899 from San Miguel I. See Gordon 1970, 1976).]

_____ and O.L. Cartwright. 1988. North American representatives of the Tribe Aegialiini (Coeleoptera: Scarabaeidae: Aphodiinae). Smith. Cont. Zool. 461:1-37.
[*Aegialia convexa* Fall, 1932 from San Clemente I.; *A. nigrella* Brown, 1931 and *A. punctata* Brown, 1931 from San Nicolas I.]

Gorelick, G.A. 1987 ("1986"). Santa Catalina Island's endemic Lepidoptera. III. The Avalon Hairstreak, *Strymon avalona* (Lycaenidae): an ecological study. Atala 14:1-12.
[Adult and larval ecology of *S. avalona* (Wright, 1905), endemic to Santa Catalina I. Chromosome number is n=22. Channel Is. foodplant records for 6 spp. of Lycaenidae. Reports parasites of *S. avalona* and Santa Cruz I. *S. melinus* Huebner, 1818.]

Grant, V. and K.A. Grant. 1966. Records of hummingbird pollination in the western American flora. I. Some California plant species. Aliso 6(2):51-66.
[Records "large bumblebee" as pollinator of *Galvezia speciosa* (Nuttall) Gray (Scrophulariaceae) on Santa Catalina I.]

Graves, R.C., M.E. Krejci and A.C.F. Graves. 1988. Geographic variation in the North American tiger beetle, *Cicindela hirticollis* Say, with a description of five new subspecies (Coleoptera: Cincindelidae). Can. Ent. 120:647-678.
[Map records of *C. hirticollis gravida* LeConte, 1851 from Santa Rosa and Santa Catalina Is. See Nagano 1985.]

Griswold, C.E. 1987. A revision of the jumping spider genus *Habronattus* F.O. P.-Cambridge (Araneae; Salticidae), with phenetic and cladistic analyses. Univ. Calif. Publ. Ent. 107. 344 pp.
[*Habronattus tarsalis* (Banks, 1904) from Santa Rosa, Santa Cruz and San Nicolas Is.; *H. californicus* (Banks, 1904) from Santa Catalina I.; *H. hirsutus* (G. & E. Peckham, 1888) from San Nicolas I.; *H. oregonensis* (G. & E. Peckham, 1888) from Santa Cruz and Santa Catalina Is.]

Griswold, T.L. 1985. A new *Ashmeadiella* from the California Channel Islands (Hymenoptera: Megachilidae). J. Kansas Ent. Soc. 58:555-557.
[*A. chumashae* n. sp. endemic to Santa Cruz (TL) and Santa Rosa Is.]

Hall, J.C. and N.L. Evenhuis. 1986. Bombyliidae [part]. Pp. 321-592. *In:* G.C.D. Griffiths (ed.), Flies of the Nearctic Region. Vol. V, Pt. 13, Nr. 5. E. Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller): Stuttgart, GERMANY.
[*Mythicomyia mutabilis* Melander,1961 and *M. ornatula* Melander, 1961 from Santa Cruz I.; *M. discreta* n. sp. endemic to San Clemente I.]

Hardwick, D.F. 1965. The corn earworm complex. Mem. Ent. Soc. Can. 40:1-247. [*Helicoverpa zea* (Boddie, 1850) from Santa Catalina I. (Lepidoptera: Noctuidae).]

Headrick, D.H. and R.D. Goeden. 1991. Life history of *Trupanea californica* Malloch (Diptera: Tephritidae) on *Gnaphalium* spp. in southern California. Proc. Ent. Soc. Wash. 93:559-570.
[*Trupanea californica* Malloch, 1942 from *Gnaphalium luteo-album* L. from Santa Cruz I.]

Heed, W.B. 1982. The origin of *Drosophila* in the Sonoran Desert. Pp. 65-80. In: J.S.F. Barker and W.T. Starmer (eds.), Ecological genetics and evolution: the cactus-yeast-*Drosophila* model system. Academic Press: Sydney, AUSTRALIA. 362 pp.
[*D. mettleri* Heed, 1977 "associated with *Opuntia "demissa"* and *O. oricola*" and *D. mojavensis* Patterson & Crow, 1940 reared from *O. "demissa"*, both on Santa Catalina I. (Diptera: Drosophilidae).]

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[*Lotisma trigonana trigonana* (Walsingham, 1879) from Santa Cruz I.]

Hodges, R.W. 1986. Gelechioidea: Gelechiidae (in part). In: R.B. Dominick *et al.*, The moths of America north of Mexico. Fascicle 7.1. 195 pp.
[*Dichomeris delotella* Busck, 1909 from Santa Cruz I.]

Holland, G.P. 1985. The fleas of Canada, Alaska and Greenland (Siphonaptera). Mem. Ent. Soc. Can. 130:1-631.
[Places *Opisodasys keeni nesiotus* Augustson, 1941 (TL: Santa Barbara I., not endemic) as a subspecies (Ceratophyllidae).]

Holzapfel, E.P. 1978. Transoceanic airplane sampling for organisms and particles. Pacific Insects 18:169-189.
[Air-borne insects collected near Point Mugu, CA.]

_____ and B.D. Perkins. 1969. Trapping of airborne insects on ships in the Pacific, Part 7. Pacific Insects 11:455-476.
[Insects from 100-160 km from San Clemente I. and "near islands off San Francisco".]

Hopkins, G.H.E. 1952. Notes on synonymy in Siphonaptera. J. Wash. Acad. Sci. 42: 363-365.
[*Myodopsylloides* Augustson, 1941 (originally described from Santa Cruz I.) synonymized under *Myodopsylla* Jordan & Rothschild, 1911. See Hopkins & Rothschild 1956.]

_____ and M. Rothschild. 1956. An illustrated catalogue of the Rothschild Collection of fleas (Siphonaptera) in the British Museum (Natural History). Volume II. British Museum (Natural History): London, ENGLAND. 445 pp.
[Lists *Myodopsylloides piercei* Augustson, 1941 (TL: Santa Cruz I.) as a synonym of *Myodopsylla palposa* (Rothschild, 1904). See Hopkins 1952.]

Hovore, F.T. 1989 ("1988"). Additions to the cerambycid beetle fauna of Baja California, Mexico: Records and descriptions (Coleoptera: Cerambycidae). Wasmann J. Biol. 46:1-29.
[*Ipochus fasciatus* LeConte, 1852 from South Coronado I.]

Howe, W.H. (ed.). 1975. The butterflies of North America. Doubleday: Garden City, NY. 633 pp.
[States [incorrectly] that *Pieris rapae* (Linnaeus, 1758) (Lepidoptera: Pieridae) is not found on the Channel Islands. See Powell 1981; Miller 1985a.]

Hoy, J.M. 1963. A catalogue of the Eriococcidae (Homoptera: Coccoidea) of the world. New Zealand Dept. Sci. Ind. Res. Bull. 150. 260 pp.
[*Kermes rattani* Ehrhorn, 1906 from Santa Catalina I. Bullington & Kosztarab (1985) doubt this record.]

Huber, J.T. 1988. The species groups of *Gonatocerus* Nees in North America with a revision of the *sulphuripes* and *ater* groups (Hymenoptera: Mymaridae). Mem. Ent. Soc. Can. 141:1-109.
[*G. inflatiscapus* n. sp. from Santa Cruz I. (not TL).]

Hurley, R.L. 1985. Dolichopodidae: Hydrophorinae. *In:* G.C.D. Griffiths (ed.), Flies of the Nearctic Region. Vol. VI, Pt. 6, Nr. 1, Pp. 1-112. E. Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller): Stuttgart, GERMANY.
[*Hydrophorus aestuum* Loew, 1869 and *H. eldoradensis* Wheeler, 1899 map records from San Clemente I. (Diptera: Dolichopodidae).]

Jellison, W.L. and C.M. Senger. 1976. Fleas of western North America except Montana in the Rocky Mountain Laboratory collection. Pp. 55-136. *In:* H.C. Taylor and J. Clark (eds), Papers in honor of Jerry Flora. Western Washington State College: Bellingham, WA.
[*Myodopsylla collinsi* Kohls, 1937 from Santa Cruz I. on *Antrozous pallidus* (Siphonaptera: Ischnopsyllidae). Probably an error, see Haas *et al.* 1983.]

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[*T. baccharis* (Coquillett, 1894) and *T. californica* Doane, 1899 from Santa Cruz I. See Goeden 1986; Goeden & Headrick 1991.]

Johnston, D. E. 1985. [Comment in checklist]. Pg. 25. *In:* S. Miller 1985b.
[*Laelaps pilosula* Banks, 1904 (TL: Santa Rosa I.) transferred to *Poecilochirus* (Acari: Parasitidae).]

Keifer, H.H. 1962. Eriophyid studies B-7. State Bur. Entom., Calif. Dept. Agric., Sacramento. 20 pp.
[*Aceria catalinae* n. sp. from Santa Catalina I. (TL) from *Eriogonum giganteum* Wats. (Polygonaceae).]

Kim, K.C., H.D. Pratt and C.J. Stojanovich. 1986. The sucking lice of North America: an illustrated manual for identification. Pennsylvania State University Press: University Park, PA. 241 pp.
[*Haematopinus suis* (Linnaeus, 1758) from Santa Catalina I. on pig (*Sus scrofa*) (Anoplura: Haematopinidae); *Solenopotes ferrisi* (Fahrenholz, 1919) from Santa Catalina I. on deer (*Odocoileus* sp.) (Linognathidae) and *Haemodipsus ventricosus* (Denny, 1842) from Farallon Is. (Polyplacidae).]

Klimaszewski, J. 1984. A revision of the genus *Aleochara* Gravenhorst of America North of Mexico (Coleoptera: Staphylinidae, Aleocharinae). Mem. Ent. Soc. Can. 129:1-211.
[*Aleochara* spp. from Santa Rosa (1 sp.), Santa Cruz (1 sp.), Santa Barbara (1 sp.), Santa Catalina (4 spp.) and Ano Nuevo (3 spp.) Is.]

Knabke, J.J. and A.A. Grigarick. 1971. Biology of the African Earwig, *Euborellia cincticollis* (Gerstaecker), in California and comparative notes on *Euborellia annulipes* (Lucas). Hilgardia 41:157-194.
[*Euborellia annulipes* (Lucas, 1847) from Santa Rosa, San Catalina and San Clemente Is. See S. Miller 1984; Powell 1981. (Dermaptera: Carcinophoridae).]

Knight, H.H. 1968. Taxonomic review: Miridae of the Nevada Test Site and the western United States. Brigham Young Univ. Sci. Bull., Biol. Ser. 9(3): 1-282.
[*Chaetophylidae moerens* (Reuter, 1909) from Santa Catalina I. (Hemiptera: Miridae).]

Krombein, K.V. and S.S. Gingras. 1984. Revision of North American *Liris* Fabricius (Hymenoptera: Sphecoidea: Larridae). Smith. Cont. Zool. 404:1-96.
[*L. mescalero latus* n. ssp. (not endemic) from Santa Cruz and Santa Catalina Is.; *L. argentatus* (Palisot de Beauvois, 1811) from Santa Cruz, San Nicolas and San Clemente Is.; *L. beatus* (Cameron, 1889) from Santa Cruz, Santa Catalina and San Clemente Is.]

LaBerge, W.E. 1989. A revision of the bees of the genus *Andrena* of the Western Hemisphere. Part XIII. Subgenera *Simandrena* and *Taeniandrena*. Trans. Amer. Ent. Soc. 115:37-56.
[*A. hypoleuca* Cockerell, 1939 from Santa Catalina (TL, not endemic) and Santa Cruz Is.; *A. pallidifovea* (Viereck, 1904) from Santa Cruz I.]

Lafontaine, J.D. 1987. Noctuoidea: Noctuidae (part): Noctuinae (part- *Euxoa*). *In:* R. B. Dominick *et al.*, The moths of America north of Mexico. Fascicle 27.2. 237 pp.
[*Euxoa riversii* (Dyar, 1903) from San Miguel I. See Hardwick 1970; Lafontaine 1982.]

_____ and R.W. Poole. 1991. Noctuoidea: Noctuidae (part): Plusiinae. *In:* R.B. Dominick *et al.*, The moths of America north of Mexico. Fascicle 25.1. 182 pp.
[Map records of *Trichoplusia ni* (Huebner, 1803), *Autoplusia egenoides* Franclement & Todd, 1983, *Autographa californica* (Speyer, 1875) and *Megalographa biloba* (Stephens, 1830) from southern Channel Is.]

Lattin, J.D. 1964. The Scutellerinae of America north of Mexico (Hemiptera: Heteroptera: Pentatomidae). Ph.D. dissertation, University of California, Berkeley, CA. 350 pp. University Microfilms 64-13, 041.
[*Eurygaster amerinda* Bliven, 1956 from Santa Rosa I.]

Levi, H.W. 1971. The diadematus group of the orb-weaver genus *Araneus* North of Mexico (Araneae: Araneidae). Bull. Mus. Comp. Zool. 141:131-179.
[Map record of *A. andrewsi* (Archer, 1951) from a southern Channel I.]

Liebherr, J.K. 1984. Description of the larval stages and bionomics of the tule beetle, *Tanystoma maculicolle* (Coleoptera: Carabidae). Ann. Ent. Soc. Amer. 77:531-538.
[*T. maculicolle* (Dejean, 1828) from Santa Cruz, Santa Catalina and San Clemente Is. See Liebherr 1985; Liebherr & Hajek 1986.]

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[*T. maculicolle* (Dejean, 1828) from San Miguel, Santa Rosa, Santa Cruz, Anacapa, Santa Catalina, San Nicolas and San Clemente Is. See Liebherr 1984; Liebherr & Hajek 1986.]

_____. 1986. Cladistic analysis of North American Platynini and revision of the *Agonum extensicolle* species group (Coleoptera: Carabidae). Univ. Calif. Publ. Ent. 106:1-198.
[*A. decorum* (Say, 1823) from Santa Cruz I.]

_____. 1991. Phylogeny and revision of the *Anchomenus* clade: the genera *Tetraleucus*, *Anchomenus*, *Sericoda*, and *Elliptoleus* (Coleoptera: Carabidae: Platynini). Bull. Amer. Mus. Natr. Hist. 202:1-163.
[*A. funebris* (LeConte, 1854) from Santa Cruz and San Clemente Is.]

_____ and A.E. Hajek. 1986. Geographic variation in flight wing development and body size of the Tule Beetle, *Tanystoma maculicolle* (Coleoptera: Carabidae). Pan-Pac. Ent. 62:13-22.
[San Miguel, Santa Rosa, Santa Cruz, Anacapa, Santa Catalina, San Clemente and San Nicolas Is. populations are predominately brachypterous. Body size of island populations varies erratically from south to north but is correlated with floristic diversity. See Liebherr 1984, 1985.]

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[*Ipochus fasciatus* LeConte, 1852 (including *I. catalinae* Casey, 1913, n. syn., TL: Santa Catalina I.) from San Miguel, Santa Rosa, Santa Cruz, Anacapa and Santa Catalina Is.]

Loomis, E.C., R.M. Bohart and J.N. Belkin. 1956. Additions to the taxonomy and distribution of California mosquitoes. Calif. Vector Views 3:37- 45.
[*Culiseta inornata* (Williston, 1893) from San Clemente I. (Diptera: Culicidae).]

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[*T. unica* (Stein, 1898) from Santa Catalina I.]

Macquitty, M. 1984. The marine Halacaroidea (Acari) of California. J. Nat. Hist. 18:527-554.
[Four spp. from intertidal algae on South Coronado I.; 2 spp. from ocean bottom off Santa Catalina and San Clemente Is. See Macquitty 1983.]

McDunnough, J.H. 1944. *Hydriomena* studies I. The *glaucata-crokeri* group. Bull. So. Calif. Acad. Sci. 43:23-29.
[*H. glaucata* Packard, 1874 from Santa Cruz and Santa Catalina Is. (Lepidoptera: Geometridae). See McDunnough 1954.]

_____. 1954. The species of the genus *Hydriomena* occurring in America north of Mexico (Geometridae, Larentiinae). Bull. Amer. Mus. Nat. Hist. 104:237-358.
[*H. glaucata* Packard, 1874 from Santa Rosa, Santa Cruz ("bred from oak") and Santa Catalina Is.; *H. quinquefasciata* Packard, 1871 from Santa Rosa I.; H. *a. albifasciata* Packard, 1874 from "Channel Islands". See McDunnough 1944.]

McGinley, R.J. 1986. Studies of Halictinae (Apoidea: Halictidae), I: Revision of New World *Lasioglossum* Curtis. Smith. Cont. Zool. 429: 1-294.
[*Lasioglossum channelense* n. sp. endemic to Santa Cruz I. (TL), although probably occurs also on Santa Rosa I.; *L. pavonotum* (Cockerell, 1925) from San Miguel and Santa Rosa Is.; *L. sisymbrii* (Cockerell, 1895) from Anacapa and Santa Catalina Is.; *L. titusi* (Crawford, 1902) from San Miguel, Santa Rosa, Santa Cruz and Anacapa Is.]

Menke, A.S. 1985a. Symposium introduction. Pp. 1-2. *In:* Menke & Miller, l.c.
[Introduction to symposium volume, including suggestions for labeling Channel Is. specimens and a plea for unimpeded feral animal removal.]

_____. 1985b. Maps and place-names of the California Channel Islands. Pp. 171-178 plus 8 loose maps. *In:* Menke & Miller, l.c.
[Maps based on U.S. Geological Survey topographic maps, overlain with place-names used by insect collectors, with explanatory text.]

_____ and D.R. Miller. 1985. Entomology of the California Channel Islands: proceedings of the first symposium. Santa Barbara Museum of Natural History: Santa Barbara, CA. 178 pp, 8 maps.
[For individual contributions, see entries under: Gall, Menke, D. Miller, S. Miller, Nagano, Powell, Rust *et al.* and Weissman.]

Miller, D.R. 1985. Symposium conclusions and summation. Pp. 113-116. *In:* Menke & Miller, l.c.

_____. 1991. Superfamily Coccoidea. *In:* F.W. Stehr (ed.), Immature insects. Vol. 2. Kendall/ Hunt Publ. Co.: Dubuque, IA. 975 pp.
[*Dactylopius opuntiae* (Cockerell, 1896) on *Opuntia* spp. on Channel Is. (Homoptera: Dactylopiidae).]

Miller, J.S. 1987. A revision of the genus *Phryganidia* Packard, with description of a new species (Lepidoptera: Dioptidae). Proc. Ent. Soc. Wash. 89: 303-321.
[*P. californica* Packard, 1864 from Santa Rosa, Santa Cruz, Anacapa and Santa Catalina Is.]

Miller, S.E. 1984. Earwigs of the California Channel Islands, with notes on other species in California (Dermaptera). Psyche 91: 47-50.
[*Euborellia annulipes* (Lucas, 1847) (Carcinophoridae) has been on Santa Rosa, Santa Catalina and San Clemente Is. for 40-100 years; *Forficula auricularia* Linnaeus, 1758 (Forficulidae) recently established on 6 islands.]

_____. 1985a ("1984"). Butterflies of the California Channel Islands. J. Res. Lepid. 23: 282-296.
[Butterflies (Lepidoptera: Papilionidea and Hesperioidea) of Channel Is. listed, with residency status. The island faunas are depauperate aggregations of mainland species with limited endemism. A species/area relationship exists, but turnover in species composition over time (and thus MacArthur-Wilson equilibrium) is difficult to document.]

_____. 1985b. The California Channel Islands—past, present, and future: an entomological perspective. Pp. 3-27. *In:* Menke & Miller, l.c.
[Overview of island geology, climate, human impact and a synopsis of biota, emphasizing insects; general information on each island; list of known endemic terrestrial arthropod species.]

_____. 1985c. Entomological bibliography of the California Islands. Supplement I. Pp. 137-169. *In:* Menke & Miller, l.c.
[Supplement to Miller & Menke (1981), with subject index to both bibliographies.]

_____ and W.S. Davis. 1986 ("1985"). Insects associated with the flowers of two species of *Malacothrix* (Asteraceae) on San Miguel Island, California. Psyche 92: 547-555.
[All forms of *Malacothrix* on San Miguel I. visited by suite of generalist bees and a few flies, also small beetles and true bugs. Circumstantial evidence suggests *Agapostemon texanus* Cresson, 1872 is most important pollinator (Hymenoptera: Halictidae). See Davis & Philbrick 1986.]

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[*Lipographis fenestrella* (Packard, 1873) from Angel I. (Lepidoptera: Pyralidae).]

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[51 spp. from Santa Barbara I., with keys and discussion of biogeography; includes new distribution records for other islands.]

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[*Evylaeus hammondi* (Cockerell, 1938) [TL: San Miguel I.] "may be a synonym of" *E. miguelensis* (Cockerell, 1937).]

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[Map record of *E. scopulatus* Muma, 1951 from Santa Catalina I. See also Muma 1951.]

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[Distribution and biogeography of five *Cicindela* spp. See also Nagano 1982.]

Neunzig, H.H. 1986. Pyraloidea: Pyralidae (in part) [Phycitinae]. *In:* R.B. Dominick *et al.*, The moths of America north of Mexico. Fascicle 15.2. 113 pp.
[*Trachycera caliginella* (Hulst, 1887) (=*Rhodophaea cruza* Opler, 1977, n. syn., TL: Santa Cruz I.) and *Acrobasis comptella* Ragonot, 1887 from Santa Cruz and Santa Catalina Is.]

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[*Vitula insula* n. sp. from Santa Catalina (TL) and Santa Cruz Is.; *Sosipatra proximanthophila* n. sp. from Santa Cruz (TL) and Santa Catalina Is.]

Nuttall, G.H.F., C. Warburton, W.F. Cooper and L.E. Robinson. 1908. Ticks: a monograph of the Ixodoidea. Part I. The Argasidae. Cambridge University Press: Cambridge, ENGLAND. 104 pp.
[*Ornithodoros talaje* (Guerin-Meneville, 1849) from San Clemente I. See Banks 1908; Aitken 1939; Lane *et al.* 1982.]

Opler, P.A. 1974. Oaks as evolutionary islands for leaf-mining insects. Amer. Sci. 62: 67-73.
[*Quercus agrifolia* Nee (Fagaceae) on Santa Cruz I. "supports a harmonic guild of leaf-miners." See Opler 1974.]

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[Map records of *Sympherobius californicus* Banks, 1911 and *S. barberi* (Banks, 1903) from northern Channel Is.]

Otte, D. 1984. The North American grasshoppers. Vol. II. Acrididae: Oedipodinae. Harvard University Press: Cambridge, MA. 366 pp.
[Repeats island records from Rentz & Weissman (1982, etc.) and transfers *Microtes nicola* Rentz & Weissman, 1982 (San Nicolas I. endemic) and *Scirtetica clementina* Rentz & Weissman, 1982 (San Clemente I. endemic) to *Conozoa*.]

Peck, S.B. and M.M. Kaulbars. 1988 ("1987"). A synopsis of the distribution and bionomics of the carrion beetles (Coleoptera: Silphidae) of the conterminous United States. Proc. Ent. Soc. Ontario 118: 47-81.
[*Nicrophorus nigrita* Mannerheim, 1843 from Santa Cruz and San Clemente Is.; *N. guttula* Motschulsky, 1845 from San Clemente I.; *Heterosilpha ramosa* (Say, 1823) from Santa Cruz I. See Miller & Peck 1979.]

Platnick, N.I. 1984 ("1983"). On the Gnaphosidae (Arachnida, Araneae) of the California Channel Islands. J. Arachnol. 11: 453- 455.
[Distribution of Gnaphosidae, including *Drassyllus barbus* n. sp. from Santa Barbara I. (TL).]

_____ and J.A. Murphy. 1984. A revision of the spider genera *Trachyzelotes* and *Urozelotes* (Araneae, Gnaphosidae). Amer. Mus. Novitates 2792: 1-30.
[*T. lyonneti* (Audouin, 1827) from San Clemente I.; *T. jaxartensis* (Kroneberg, 1875) from Santa Catalina I.; both species are introduced.]

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[Map record of *M. utahna* Gertsch, 1933 from northern Channel I. See Platnick 1984.]

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[*P. radiosaria* (Hulst, 1886) from Santa Catalina I.; *P. catalina* n. sp. endemic to Santa Catalina I.]

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[*Grapholita vitrana* (Walsingham, 1879) from San Miguel and Santa Catalina Is. (Lepidoptera: Tortricidae: Olethreutinae).]

Pulawski, W.J. 1988. Revision of North American *Tachysphex* wasps including Central American and Caribbean species (Hymenoptera: Sphecidae). Mem. Calif. Acad. Sci. 10. 211 pp.
[*Tachysphex* spp. from San Miguel (2 spp.), Santa Rosa (5 spp.), Santa Cruz (8 spp.), Santa Barbara (1 sp.), Santa Catalina (1 sp.), San Clemente (1 sp.), San Nicolas (2 spp.) and South Coronados (1 sp.) Is.]

Pyle, R.M. 1976. Conservation of Lepidoptera in the United States. Biol. Conserv. 9: 55-75.
[*Strymon* spp. and *Anthocharis* spp. on Santa Catalina I. (Lepidoptera: Lycaenidae, Pieridae). See Gall 1981, 1985; S. Miller 1985a.]

_____. 1981. The Audubon Society field guide to North American butterflies. Alfred A. Knopf: New York, NY. 916 pp.
[Discusses *Strymon melinus* Huebner, 1818 and *S. avalona* (Wright, 1905) on the Channel Islands, especially Santa Catalina I. (Lepidoptera: Lycaenidae). See Gall 1985; Gorelick 1987.]

Reddell, J.R. 1983. A checklist and bibliography of the Japygoidea (Insecta: Diplura) of North America, Central America, and the West Indies. Pearce-Sellards Ser. 37: 1-41, Texas Memorial Mus., Austin, TX.
[*Evalljapyx dispar* Silvestri, 1948 from Santa Cruz I. (TL, not endemic) (Japygidae).]

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[*P. mexicanus* (Saussure, 1861) from Santa Cruz I. See Rentz & Weissman 1982.]

_____ and M. Hebard. 1915. The genus *Gryllus* (Orthoptera) as found in America. Proc. Acad. Nat. Sci. Phil. 67: 293-322.
[*G. assimilis* (Fabricius, 1775) from Santa Rosa and Santa Catalina Is. Probably misidentification; see Weissman *et al.* 1980.]

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[*P. edwardsii* (Cresson, 1872) from Santa Catalina I.]

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[*H. williami* n. sp. from Santa Catalina I. (not TL). One of the paratypes was misidentified by Fall (1923) as *H. belfragei* Sharp.]

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[*A. lingnanensis* Compere, 1955, *A. diaspidis* (Howard, 1881), and *A. mytilaspidis* (LeBaron, 1870) from Santa Cruz I., with scale insect and plant host records.]

Rowland, J.M. 1972a. Origins and distribution of two species groups of Schizomida (Arachnida). Southwest. Nat. 17: 153- 160.
[Records "undescribed insular ... species" of *Trithyreus belkini* group on Santa Cruz I. Now *Schizomus belkini* (McDonald & Hogue, 1957); see Rowland & Reddell 1981.]

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[Discusses *V. pensylvanica* (Saussure, 1857) (Hymenoptera: Vespidae) and its control in 1966 and 1967 near Avalon, Santa Catalina I.]

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[28 spp. of bees in 6 families from Anacapa I.]

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[Distribution and comparative biogeography of Apoidea, Sphecidae and Pseudococcidae; *Bembix americana dugi* Menke, n. ssp. endemic to San Clemente I. (Sphecidae). See Pulawski 1988.]

Scheller, U. 1985. Taxonomic and distributional notes on pauropods from the United States (Myriapoda, Pauropoda, Pauropodidae, Eurypauropodidae). Ent. Scand. 16: 237-257.
[Considers *Pauropus santus* Hilton, 1930 a *nominum dubium* because of poor description and lost type specimen (TL: Santa Cruz I.).]

_____. 1986. Symphyla from the United States and Mexico. Pp. 87-125. *In:* J.R. Reddell (ed.), Studies on the cave and endogean fauna of North America. Texas Memorial Museum, Speleological Monograph 1. 167 pp.
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[*I. brachycera* (Uhler, 1872) from Santa Catalina I.; *I. californica* Van Duzee, 1921 from San Miguel, Santa Cruz, Anacapa, Santa Catalina and San Nicolas Is.; *I. mollipes* Van Duzee, 1917 from Santa Cruz I.]

Scott, J.A. 1986. The butterflies of North America. Stanford University Press: Stanford, CA. 583 pp.
[*Anthocharis sara* Lucas, 1852, *A. cethura* C. &. R. Felder, 1865, *Strymon avalona* (Wright), 1905, and *S. melinus* Huebner, 1818 from Santa Catalina I. (Pieridae and Lycaenidae); *Ochlodes sylvanoides santacruza* Scott, 1981 from Santa Cruz I. (TL), not endemic (Hesperiidae); *Cercyonis stenele* "similar to" *stenele* (Boisduval, 1852) from Santa Cruz I. (Satyridae). See S. Miller 1985a.]

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[*Melanopleurus fuscosus* Brailovsky, 1977 (TL: Santa Cruz I.) included in key.]

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[*O. coronadense* Cockerell, 1916 (TL: South Coronado I.) conspecific with *O. setulipes* Shear & Gruber, 1983 (TL: mainland California). Shear & Gruber (1983) also record this species from Santa Cruz I. (Opiliones: Nemastomatidae).]

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[*T. posticus* (Say, 1821) from Santa Cruz I.]

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[Ecology of *T. coweni* (Cockerell, 1905) on *A. insularis* Greene on Santa Cruz I.]

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[Includes data on Santa Cruz I. *Drosophila pseudoobscura* Frolova, 1929 (Diptera: Drosophilidae) in reassessment of earlier concepts of alleles and their heterozygosity. See Coyne & Felton 1977.]

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[*F. provancheri* (Rohwer, 1909) from Santa Cruz I.]

Snelling, R.R. 1985. [Comment in checklist]. Pp. 24. *In:* S. Miller 1985b.
[*Camponotus bakeri* Wheeler, 1904 (TL: Santa Catalina I.) elevated to species status from subspecies of *C. hyatti* Emery, 1893 (Hymenoptera: Formicidae). See Snelling 1988.]

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[*Camponotus anthrax* Wheeler, 1911 from Santa Cruz I.; *C. bakeri* Wheeler, 1904 endemic to Santa Catalina (TL), San Clemente and Santa Barbara Is.]

Somerby, R.E. 1972. Systematics of *Eleodes (Blapylis)* with a revision of the *caseyi* group using taximetric methods (Coleoptera: Tenebrionidae). Ph.D. dissertation, University of California, Riverside, CA. 441 pp. Univ. Microfilms 73-32693.
[*E. inculta* LeConte, 1861 (including var. *affinis* Blaisdell, 1918) endemic to San Miguel (including Prince), Santa Rosa, Santa Cruz and Anacapa Is.; Santa Barbara I. TL for *inculta* was an error for Santa Cruz I.; *E. subvestitus* (Blaisdell, 1939) endemic to San Nicolas I.]

_____. 1985. [Comment in checklist]. Pp. 21. *In:* S. Miller 1985b.
[*Eleodes incultus affinis* Blaisdell, 1918 (TL: Santa Cruz I.), synonymized under *E. incultus* LeConte, 1861 (TL: Santa Barbara I.) (Coleoptera: Tenebrionidae).]

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[*M. constrictum austrinum* Stehr n. ssp. from Santa Catalina I. (not TL).]

Stonedahl, G.M. 1988. Revision of the mirine genus *Phytocoris* Fallen (Heteroptera: Miridae) for Western North America. Bull. Amer. Mus. Nat. Hist. 188: 1-257.
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_____. 1990. Revision and cladistic analysis of the Holarctic genus *Atractotomus* Fieber (Heteroptera: Miridae: Phylinae). Bull. Amer. Mus. Nat. Hist. 198: 1-88.
[*A. agrifoliae* n. sp. from Santa Cruz I. (not TL).]

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[*P. edwardsii* (Cresson, 1879) from Santa Rosa I.]

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[*Cryptadius inflatus inflatus* LeConte, 1852 from Santa Cruz I.]

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[Mentions *Strymon avalona* (Wright, 1905) of Santa Catalina I. as an unusual endemic (Lepidoptera: Lycaenidae).]

Thornton, I.W.B. 1964. Air-borne Psocoptera trapped on ships and aircraft. Pacific Insects 6: 285-291.
[Records Psocoptera from 7-835 km from San Francisco, CA.]

Tilden, J.W. and A.C. Smith. 1986. A field guide to western butterflies. Houghton Mifflin: Boston, MA. 370 pp.
[Records *Ochlodes sylvanoides santacruza* Scott, 1981 from coastal central CA in addition to Santa Cruz I. (TL). See S. Miller 1985a; Scott 1986. (Lepidoptera: Hesperiidae).]

Traub, R., M. Rothschild and J.F. Haddow. 1983. The Rothschild collection of fleas. The Ceratophyllidae: key to the genera and host relationships with notes on their evolution, zoogeography and medical importance. Cambridge University Press: Cambridge, ENGLAND. 288 pp.
[Map record of *Opisodasys nesiotus* Augustson, 1941 from 2 Channel Is.; *Ceratophyllus pelicani* Augustson, 1942 from S. Farallon I. and Los Coronados Is.]

Triplehorn, C.A. 1990. Review of the genus *Corticeus* (Coleoptera: Tenebrionidae) of America north of Mexico. Ann. Ent. Soc. Amer. 83: 287-306.
[*C. opaculus* (LeConte, 1878) from Santa Cruz I.]

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[*C. topanga* (Briggs, 1968) from Santa Cruz I.]

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[*Murgantia histrionica* (Hahn, 1834), *Nezara viridula* (Linnaeus, 1758) (both Pentatomidae) and *Aradus aequalis* Say, 1832 (Aradidae), from Santa Cruz I.]

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[*Berosus hatchi* Miller, 1965 and *B. fraternus* LeConte, 1855 from Santa Catalina I.]

Vockeroth, J.R. 1986. Revision of the New World species of *Paragus* Latreille (Diptera: Syrphidae). Can. Ent. 118: 183-198.
[Map record of *P. haemorrhous* Meigen, 1822 from Santa Catalina I.]

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[*O. rileyi* Baker, 1905 from Santa Catalina I.]

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[*P. apache* Creighton, 1952 from Santa Cruz I.]

Wasbauer, M.S. and L.S. Kimsey. 1985. California spider wasps of the subfamily Pompilinae (Hymenoptera: Pompilidae). Bull. Calif. Insect Surv. 26: 1-130.
[Records from San Miguel (11 spp.), Santa Rosa (16), Santa Cruz (35), Anacapa (2), Santa Barbara (2), Santa Catalina (8), San Nicolas (5) and San Clemente (6) Is. No island endemic taxa.]

Webb, J.P., S.G. Bennett and G.L. Challet. 1990. The larval ticks of the genus *Ixodes* Latreille (Acari: Ixodidae) of California. Bull. Soc. Vector Ecol. 15: 73-124.
[*I. pacificus* Cooley & Kohls, 1943 from Santa Rosa, Santa Cruz and Santa Catalina Is.; *I. peromysci* Augustson, 1939 from West Anacapa and Santa Barbara Is.; *I. rugosus* Bishopp, 1911 from Santa Rosa I.; *I. signatus* Birula, 1895 from Prince I.]

Weissman, D.B. 1985. Zoogeography of the Channel Island Orthoptera. Pp. 61-68. *In:* Menke & Miller, l.c.
[Summary of Rentz & Weissman 1973, 1982 and Weissman & Rentz 1976.]

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[*Neuroterus florulentus* n. sp. from galls on flowers of *Quercus dumosa* Nutt. from Santa Catalina I. (TL, not endemic) (Hymenoptera: Cynipidae).]

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_____. 1935. Check list of the ants of Oceania. Bernice P. Bishop Museum Occ. Pap. 11(11): 1-56.
[Repeats previous Wheeler records from Santa Catalina (8 spp.), San Nicolas (1 sp.) and Santa Cruz (1 sp.) Is. (Hymenoptera: Formicidae).]

White, R.E. 1985. North American *Euvrilletta* (Coleoptera: Anobiidae) - transferal of taxa from *Xyletinus*, two new species, and a key. Coleop. Bull. 39: 185-193.
[*E. catalinae* (Fall, 1905) (TL: Santa Catalina I.) included in key. See White 1976.]

Whitfield, J.B. 1985. The Nearctic species of *Deuterixys* Mason (Hymenoptera: Braconidae). Pan-Pac. Ent. 61: 60- 67.
[*D. quercicola* n. sp. from *Bucculatrix albertiella* Busck, 1910 (Lepidoptera: Lyonetiidae) on *Quercus agrifolia* Nee (Fagaceae) on Santa Cruz I. (not TL); *D. pacifica* n. sp. from San Nicolas I. (not TL).]

_____. 1988. Revision of the Nearctic species of the genus *Stiropius* Cameron (=*Bucculatriplex* Auct.) with the description of a new related genus (Hymenoptera: Braconidae). Syst. Ent. 13: 373-385.
[*Viridipyge prunicola* n.sp., parasite of *Paraleucoptera heinrichi* Jones (Lepidoptera: Lyonetiidae) on *Prunus lyonii* (Catalina cherry), is not known from Channel Is. Suggests *V. prunicola* "...may have been introduced recently from ...Channel Islands with the artificial planting of the host plant."]

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[*Polyphylla ona* Von Bloeker, 1939 (TL: Santa Cruz I.), *P. santarosae* Von Bloeker, 1939 (TL: Santa Rosa I.), *P. martini* Von Bloeker, 1939 (TL: Santa Rosa I.) and *P. santacruzae* Von Bloeker, 1939 (TL: Santa Cruz I.) as synonyms of *P. crinita* LeConte, 1856. See Cazier 1940; Young 1988.]

_____. 1988. A monograph of the genus *Polyphylla* Harris in America North of Mexico (Coleoptera: Scarabaeidae: Melolonthinae). Bull. Univ. Nebraska St. Mus. 11(2): 1-115.
[*Polyphylla crinita* LeConte, 1856 (=*P. ona* Von Bloeker, 1939, TL: Santa Cruz I.; =*P. santarosae* Von Bloeker, 1939, TL: Santa Rosa I.) and *P. nigra* Casey, 1914 (=*P. martini* Von Bloeker, 1939, TL: Santa Rosa I.; = *P. santacruzae* Von Bloeker, 1939; TL: Santa Cruz I) both from Santa Rosa and Santa Cruz Is. See Cazier 1940; Young 1967.]

Zimmerman, J.R. and R.L. Smith. 1975. The genus *Rhantus* (Coleoptera: Dytiscidae) in North America. Part I. General account of the species. Trans. Amer. Ent. Soc. 101: 33-123.
[*Rhantus gutticollis* (Say, 1834) from San Clemente I.]