

**Faunal affinities,  
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# Faunal Affinities Systematics And Bionomics Of The Orthoptera Of The California Channel Islands

**Patrick Vollmar**



## **Faunal Affinities Systematics And Bionomics Of The Orthoptera Of The California Channel Islands:**

**Faunal Affinities, Systematics, and Bionomics of the Orthoptera of the California Channel Islands** David C. Rentz, David B. Weissman, **Systematics and Bionomics of Anthophora--the Bomboidea Group and Species Groups of the New World (Hymenoptera--Apoidea, Anthophoridae)** Robert W. Brooks, 1983-01-01 [Channel Islands Research](#)  
Bobette V. Nelson, 1989 *Resources Management Plan, Channel Islands National Park*, 1994 **Entomology of the California Channel Islands** Arnold S. Menke, Douglass R. Miller, 1985 **The Cerambycidae of North America, Part VII, No. 1** Earle Gorton Linsley, John A. Chemsak, 1984-01-01 This volume concludes the taxonomy and classification of the family Cerambycidae of America north of Mexico This part includes the remainder of the subfamily Lamiinae tribes Acanthocinini Cyrtinini Saperdini Phytoeciini Tetraspini and Hemilophini The 32 genera and 138 species are all fully described with keys included to separate all taxa Complete synonymical bibliographies are presented along with 54 illustrations *Cladistic Analysis of North American Platynini and Revision of the Agonum Extensicolle Species Group (Coleoptera, Carabidae)* James Kenneth Liebherr, 1986-01-01 Cladistic analysis based on internal male female reproductive characters and external characters is used to group exemplar taxa in the carabid tribe Platynini A classification key to genera in North America and a key to species groups of Agonum in North America north of Mexico are presented The Agonum extensicolle species group comprises seven species A cyanope Bates A extimum Liebherr n sp A parextimum Liebherr n sp A texanum LeConte A extensicolle Say A decorum Say A elongatulum Dejean Analyses of infraspecific geographic variation show 1 A texanum is biometrically uniform over the center of its range whereas individuals from outlying populations deviate in several measurements 2 A extensicolle is a variable species with clinal changes in biometry and color occurring across its range 3 A decorum is polymorphic for color and setation and clinally variable in biometric characters Across the group flight apparatus development is inversely correlated with the amount of genetic heterogeneity measured by starch gel electrophoresis Electrophoretic qualitative morphological and biometric data are used to estimate phylogenetic relationships in the A extensicolle group The electrophoretic and morphological data produce compatible estimates of phylogeny The biometric data are incompatible with the other data and are judged less useful for estimation of affinities Distributional data are utilized in conjunction with the proposed phylogeny to investigate speciation events in the group The principal mechanism is allopatric speciation brought about by vicariance across the lowlands of southeastern Arizona the Cochise filter barrier A second pattern involves a peripheral isolate of Antillean stock diverging on the Florida peninsula A third speciation event involves a habitat shift in which a lowland desert form produced a species which now inhabits the pine oak zone in the Sierra Madre Occidental The area taxon relationships are compared with those in other groups Based on an electrophoretic clock calibrated using data from Drosophila the timing of the initial speciation event in the group is estimated at 6 12 million years b p Other speciation events occurred throughout the Pliocene and Pleistocene with the most recent divergence of A

decorum and *A. elongatulum* estimated at less than two million years b p      **The North American Grasshoppers** Daniel Otte, 1981 Having received such lavish praise for the first volume of his definitive taxonomic handbook Daniel Otte now turns his attention to the bandwing grasshoppers As before the book includes Highly detailed full color drawings of all species including more than one color phase when appropriate Illustrated keys and lists of principal recognition features Information on distributional limits habitat preferences ecology behavior and life cycle Excellent point distribution maps Pertinent references taxonomic index history of name changes and an explanation of the characters used to derive phylogenies Like its predecessor this volume will be useful to scientists in agriculture environmental assessment biogeography grassland ecology and insect taxonomy It will also appeal to amateur naturalists      *Bees of the New Genus Ctenoceratina in Africa, South of the Sahara (Hymenoptera: Apoidea)* Howell V. Daly, 1988-01-01 The African continent has a rich fauna of insects many of which are unstudied This monograph treats one such group known as the small carpenter bees Thirteen biological species in a new genus are described and a key for identification and details of their nests and natural enemies are given      Ecological Studies of Six Endangered Butterflies (Lepidoptera, Lycaenidae) Richard A. Arnold, Richard Arthur Arnold, 1983-01-01

Proceedings of the Entomological Society of Washington Entomological Society of Washington, 1982 List of members in v 1 3 5 14      **Revision of the Genus Enallagma of the United States West of the Rocky Mountains and Identification of Certain Larvae by Discriminant Analysis (Odonata: Coenagrionidae)** Rosser W. Garrison, 1984      **Third California Islands Symposium** F. G. Hochberg, 1993      *University of California Publications in Entomology* University of California, Berkeley, 1981      University of California Publications in Entomology University of California (1868-1952), 1987      *Bulletin*, 2000      Bulletin of the Southern California Academy of Sciences Southern California Academy of Sciences, 2000

*Natural History, Population Genetics, Systematics and Biogeography of the Spider Genus Lutica (Araneae)* Martin Gabriel Ramirez, 1990      The Wasmann Journal of Biology, 1977 SCC Library has 1974 current      Invertebrate Taxonomy, 1989

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