

Peck, S. B., Otte, D. (2012). CDF Checklist of Galapagos Grasshoppers, locusts and crickets - FCD Lista de especies de Saltamontes, langostas y grillos de Galápagos. *In*: Bungartz, F., Herrera, H., Jaramillo, P., Tirado, N., Jiménez-Uzcátegui, G., Ruiz, D., Guézou, A. Ziemmeck, F. (eds.). Charles Darwin Foundation Galapagos Species Checklist - Lista de Especies de Galápagos de la Fundación Charles Darwin. Charles Darwin Foundation / Fundación Charles Darwin, Puerto Ayora, Galapagos: <http://checklists.datazone.darwinfoundation.org/terrestrial-invertebrates/orthoptera/> Last updated 03 Jul 2012.

CDF Checklist of Galapagos Grasshoppers, locusts and crickets

Stewart B. Peck, Daniel Otte

Contribs.: Sandra Abedrabbo, Fabián Bersosa, Ruth Boada, Charlotte Causton, Germania Estévez, Lilian Guzmán, Henri W. Herrera, María T. Lasso, María Piedad Lincango, E. G. Linsley, Yale Lubin, Alejandro Míeles, Renato Oquendo, Helmut W. Rogg, Lázaro Roque-Álbelo, Bradley J. Sinclair, Leslie Usinger.

03 Jul 2012

This checklist is automatically generated using Version 3.0 of the online database CDF Galapagos Species Checklist.

The Order **Orthoptera** contains a varied assemblage of insects, which are usually herbivores, but some may be predators or scavengers. Considering the richness of the mainland Ecuador fauna, the island fauna are highly impoverished.

Colonization may have been by flight (and wind) for strong fliers such as *Schistocerca*, *Sphingonotus*, and *Neoconocephalus*.

Rafting is more likely for weak fliers and flightless groups, especially in the Gryllidae (Nemobiinae and Mogoplistinae).

Seventy-four percent of the endemic species are flightless. Loss of flight ability on the Galapagos has occurred in *Halmenus* (maybe it is a descendent from a *Schistocerca* locust), *Closteridea*, *Gryllus*, and *Conocephalus*. Of special note is the evolution of the two species of eyeless subterranean *Anurogryllus* crickets. No eyed ancestor of these is known in the islands. Evolution of endemics in the Orthoptera has been relatively frequent when compared to most other insect groups.

For marine species distribution data cited in the CDF Galapagos Checklists refer to the five main bioregions of the archipelago (Far Northern, Northern, Western, South Eastern and the Elithabeth Bay Bioregion). For the terrestrial species the more than 120 islands, islets and small rocks have been aggregated into Islands Groups, thus, for example, the island group "Santa Cruz" includes smaller islands like Santa Fé, Plaza Norte, Plaza Sur, Baltra, Daphne Mayor, Daphne Minor, and others.

Please be aware that the distribution data presented here is automatically generated from specimen records and does not always accurately reflect the known distribution for all species.

IUCN red-list assessments presented here may deviate from the global IUCN list for the following reasons:

- for well known species groups like vascular plants or vertebrates updates proposed to the IUCN are shown instead of the outdated, but currently accepted status;
- for poorly known species groups (e.g., lichenized fungi) a general assessment is currently not possible and the list presented here is a regional red-list list for Galapagos archipelago.

Names of taxa included in this checklist: 38 (33 Accepted , 1 Unidentified Taxon , 4 New to Science).

Origin of the taxa included: 4 Accidental, 29 Endemic, 1 Indigenous.

1. *Anaulocomera darwini* Scudder, 1893
Taxon status: Accepted name; taxon occurs in Galapagos.
Syn.: *Anaulocomera cornucervi*
Origin: Native, Endemic.
Galapagos Distribution: Isabela, San Cristóbal, Santa Cruz, Santiago.
References: Hebard, M. et al. (1920), Linsley, E.G. et al. (1966), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
2. *Anurogryllus sp. 2*
Taxon status: Taxon not identified to species, subspecies, form or variety.
Origin: Native, Endemic.
Galapagos Distribution: Santa Cruz.
References: Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
3. *Anurogryllus typhlops* Otte Peck, 1998
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Isabela.
References: Otte, D. et al. (1998), Peck, S.B. et al. (2001).
4. *Closteridea bauri* Scudder, 1893
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Floreana, San Cristóbal, Santa Cruz.
References: Dirsh, V.M. et al. (1969), Hebard, M. et al. (1920), Linsley, E.G. et al. (1977), Linsley, E.G. et al. (1966), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
5. *Conocephalus exitiosus* (McNeil, 1901)
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Isabela, San Cristóbal, Santa Cruz, Santiago.
References: Hebard, M. et al. (1920), Linsley, E.G. et al. (1966), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
6. *Conocephalus sp. nov. 1*
Taxon status: Unpublished name (Nomen nudum).
Origin: Native, Endemic.
Galapagos Distribution: Santa Cruz.
References: Peck, S.B. et al. (2001).
7. *Conocephalus sp. nov. 2*
Taxon status: Unpublished name (Nomen nudum).
Origin: Native, Endemic.
Galapagos Distribution: San Cristóbal.
References: Peck, S.B. et al. (2001).
8. *Copiphora brevicauda* Karny, 1912
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Introduced, Accidental.
Galapagos Distribution: Isabela, San Cristóbal, Santa Cruz, Santa Fé.
References: Peck, S.B. et al. (1996), Peck, S.B. et al. (1998), Peck, S.B. et al. (2001).
9. *Cycloptilum erraticum* Scudder, 1893
Taxon status: Accepted name; taxon occurs in Galapagos.
Galapagos Distribution: Española, Fernandina, Floreana, Genovesa, Isabela, Marchena, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santiago.

- References:** Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
10. *Cycloptilum lepismoide* McNeill, 1901
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Española, Fernandina, Floreana, Genovesa, Isabela, Marchena, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santiago.
References: Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
 11. *Desmopleura concinna* Shudder, 1893
Taxon status: Accepted name; taxon occurs in Galapagos.
 Known only from the type specimen (Santiago = San Salvador). Probably a mislabelled specimen of *Dichroplus vittiger* of Argentina, fide Peck (2001)
Galapagos Distribution: Unknown.
References: Dirsh, V.M. et al. (1969), Linsley, E.G. et al. (1977), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
 12. *Gryllodes sigillatus* (Walker)
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Introduced, Accidental.
Galapagos Distribution: Genovesa, Marchena, San Cristóbal, Santa Cruz.
References: Peck, S.B. et al. (1996), Peck, S.B. et al. (1998), Peck, S.B. et al. (2001), Peck, S.B. et al. (1996).
 13. *Gryllus abditus* Otte Peck, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Española, Fernandina, Floreana, Isabela, San Cristóbal, Santa Cruz, Santa Fé, Santiago.
References: Otte, D. et al. (1997), Peck, S.B. et al. (2001).
 14. *Gryllus abingdoni* Otte Peck, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Pinta.
References: Otte, D. et al. (1997), Peck, S.B. et al. (2001).
 15. *Gryllus darwini* Otte Peck, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Darwin.
References: Otte, D. et al. (1997), Peck, S.B. et al. (2001).
 16. *Gryllus galapageius* Scudder, 1893
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Gryllus assimilis*
Origin: Native, Endemic.
Galapagos Distribution: Santa Cruz, Santa Fé, Santiago.
References: Otte, D. et al. (1997), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
 17. *Gryllus genovesa* Otte Peck, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Genovesa.
References: Otte, D. et al. (1997), Peck, S.B. et al. (2001).
 18. *Gryllus isabela* Otte Peck, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Isabela.
References: Otte, D. et al. (1997), Peck, S.B. et al. (2001).

19. *Gryllus marchena* Otte Peck, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Marchena.
References: Otte, D. et al. (1997), Peck, S.B. et al. (2001).
20. *Gryllus pinta* Otte Peck, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Española, Pinta, Santa Cruz.
References: Otte, D. et al. (1997), Peck, S.B. et al. (2001).
21. *Halmenus choristopterus* Snodgrass, 1902
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Halmenus robustus choristopterus*
Origin: Native, Endemic.
Galapagos Distribution: Floreana.
References: Dirsh, V.M. et al. (1969), Linsley, E.G. et al. (1977), Parkin, P. et al. (1972), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
22. *Halmenus cuspidatus* Snodgrass, 1902
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Halmenus robustus cuspidatus*
Origin: Native, Endemic.
Galapagos Distribution: Isabela.
References: Dirsh, V.M. et al. (1969), Linsley, E.G. et al. (1977), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
23. *Halmenus eschatus* Hebard, 1920
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Wolf.
References: Dirsh, V.M. et al. (1969), Hebard, M. et al. (1920), Linsley, E.G. et al. (1977), Linsley, E.G. et al. (1966), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
24. *Halmenus robustus* Scudder, 1893
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Halmenus robustus robustus*
Origin: Native, Endemic.
Galapagos Distribution: Floreana, Genovesa, Santa Cruz, Santiago.
References: Dirsh, V.M. et al. (1969), Linsley, E.G. et al. (1977), Linsley, E.G. et al. (1966), Parkin, P. et al. (1972), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
25. *Hygronemobius daphne* Otte Peck, 1998
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Introduced, Accidental.
Galapagos Distribution: Darwin, Isabela, Santa Cruz.
References: Otte, D. et al. (1998), Peck, S.B. et al. (2001).
26. *Hygronemobius sp. nov. 1*
Taxon status: Unpublished name (Nomen nudum).
Galapagos Distribution: Unknown.
References: Peck, S.B. et al. (1990), Peck, S.B. et al. (1996).
27. *Hygronemobius sp. nov. 2*
Taxon status: Unpublished name (Nomen nudum).
Galapagos Distribution: Unknown.
References: Peck, S.B. et al. (1990).
28. *Hygronemobius speculi* (McNeill, 1901)
Taxon status: Accepted name; taxon occurs in Galapagos.

- Origin:** Native, Endemic.
Galapagos Distribution: Darwin, Española, Fernandina, Floreana, Isabela, San Cristóbal, Santa Fé.
References: Hebard, M. et al. (1920), Linsley, E.G. et al. (1966), Otte, D. et al. (1998), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
29. *Jarmilaxipha ecuadorica* Otte Peck, 1998
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Introduced, Accidental.
Galapagos Distribution: Fernandina, Floreana, Isabela, San Cristóbal, Santa Cruz, Santiago.
References: Otte, D. et al. (1998), Peck, S.B. et al. (2001).
30. *Neoconocephalus triops* (Linnaeus, 1758)
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Conocephalus insulanus*, *C. insularum*
Origin: Native, Indigenous.
Galapagos Distribution: Española, Fernandina, Floreana, Isabela, Pinta, San Cristóbal, Santa Cruz, Santiago.
References: Hebard, M. et al. (1920), Linsley, E.G. et al. (1966), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
31. *Nesoecia cooksonii* (Butler, 1877)
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Nesoecia cooksoni ensifer*, *N. pallidus*, *N. paludicola*
Origin: Native, Endemic.
Galapagos Distribution: Española, Fernandina, Floreana, Genovesa, Isabela, Pinzón, Santa Cruz, Santiago.
References: Linsley, E.G. et al. (1977), Parkin, P. et al. (1972), Peck, S.B. et al. (2001).
32. *Nesoecia padulicola* McNeill, 1901
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Isabela.
33. *Pteronemobius cristobalensis* Otte Peck, 1998
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: San Cristóbal, Santa Cruz.
References: Otte, D. et al. (1998), Peck, S.B. et al. (2001).
34. *Pteronemobius santacruzensis* Otte Peck, 1998
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Isabela, San Cristóbal, Santa Cruz.
References: Otte, D. et al. (1998), Peck, S.B. et al. (2001).
35. *Schistocerca literosa* (Walker, 1870)
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Schistocerca discoidalis*, *Schistocerca punctata*, *Schistocerca hyalina*
Origin: Native, Endemic.
Galapagos Distribution: Española, Fernandina, Floreana, Genovesa, Marchena, San Cristóbal, Santa Cruz.
References: Chapman, R.F. et al. (2000), Dirsh, V.M. et al. (1969), Hebard, M. et al. (1920), Linsley, E.G. et al. (1977), Linsley, E.G. et al. (1966), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).
36. *Schistocerca melanocera* (Stål, 1860)
Taxon status: Accepted name; taxon occurs in Galapagos.
 Syn.: *Schistocerca minor*, *Schistocerca pallida*, *Schistocerca lineata*, *Schistocerca immaculata*, *Schistocerca intermedia*, *Schistocerca borealis*
Origin: Native, Endemic.
Galapagos Distribution: Fernandina, Floreana, Genovesa, Isabela, Marchena, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santa Fé, Santiago.

References: Chapman, R.F. et al. (2000), Dirsh, V.M. et al. (1969), Hebard, M. et al. (1920), Linsley, E.G. et al. (1977), Linsley, E.G. et al. (1966), Parkin, P. et al. (1972), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).

37. *Sphingonotus fuscoirroratus* (Stål, 1860)

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Sphingonotus tetranesiotis*, *S. tetranesiotis tetranesiotis*, *S. tetranesiotis barringtonensis*, *S. tetranesiotis hoodensis*, *S. tetranesiotis indefatigabilensis*, *S. trinesiotis*, *S. trinesiotis trinesiotis*, *S. trinesiotis indefatigabilensis*, *S. trinesiotis albemarlensis*

Origin: Native, Endemic.

Galapagos Distribution: Española, Fernandina, Floreana, Isabela, Pinta, San Cristóbal, Santa Cruz, Santa Fé, Santiago.

References: Dirsh, V.M. et al. (1969), Hebard, M. et al. (1920), Linsley, E.G. et al. (1977), Peck, S.B. et al. (1996), Peck, S.B. et al. (2001).

38. *Sphingonotus tetranesiotis albemarlensis* Snodgrass, 1902

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

Galapagos Distribution: Isabela.

References: Linsley, E.G. et al. (1966).

References:

1. Chapman, R.F., Espelie, K.E., Peck, S.B. (2000) *Cuticular hydrocarbons of grasshoppers from the Galapagos Islands, Ecuador*. *Biochemical Systematics and Ecology* 28: 579-588.
2. Dirsh, V.M. (1969) *Acridoidea of the Galapagos Islands (Orthoptera)*. *Bull. British Museum Entomology* 23(2): 28-51.
3. Hebard, M. (1920) *Expedition of the California Academy of Sciences to the Galapagos Islands, 1905-1906. 17. Dermaptera and Orthoptera*. *Proceedings of the California Academy of Sciences, Fourth Series* 2(17): 311-346.
4. Linsley, E.G., Usinger, R.L. (1966) *Insects of the Galápagos Islands*. *Proceedings of the California Academy of Sciences Fourth Series* 33(7): 113-196.
5. Linsley, E.G. (1977) *Insects of the Galápagos (Supplement)*. *Occasional Papers of the California Academy of Sciences* 125: 1-50.
6. Otte, D., Peck, S.B. (1997) *New species of gryllus (Orthoptera: Grylloidea: Gryllidae) from the Galapagos Islands*. *Journal of Orthoptera Research* 6: 161-173.
7. Otte, D., Peck, S.B. (1998) *A new blind Anurogryllus from the Galapagos Islands, Ecuador (Orthoptera: Gryllidae: Brachytrupinae)*. *Journal of Orthoptera Research* 7: 227-229.
8. Otte, D., Peck, S.B. (1998) *Crickets of the Galapagos Islands, Ecuador (Orthoptera: Gryllidae: Nemobiinae and Trigonidiinae)*. *Journal of Orthoptera Research* 7: 231-240.
9. Parkin, P., Parkin D.T., Ewing, A.W. Ford, H.A. (1972) *A report on the arthropods collected by the Edinburgh University Galapagos Islands Expedition, 1968*. *The Pan-pacific Entomologist* 48: 100-107.
10. Peck, S.B. (1990) *Eyeless arthropods of the Galapagos Islands, Ecuador: Composition and origin of the cryptozoic fauna of a young, tropical, oceanic archipelago*. *Biotropica* 22(4): 366-381.
11. Peck, S.B. (1996) *Diversity and distribution of the orthopteroid insects of the Galápagos Islands, Ecuador*. *Canadian Journal of Zoology* 74: 1497-1510.
12. Peck, S.B. (1996) *The arthropods of the allobiosphere (barren lava flows) of the Galapagos islands, Ecuador* *Noticias de Galápagos* 56: 9-12.
13. Peck, S.B., Heraty, J., Landry, B. Sinclair, B.J. (1998) *Introduced insect fauna of an oceanic archipelago: The Galápagos Islands, Ecuador*. *Am. Entomol.* 44: 218-237.

14. Peck, S.B. (2001) *Small Orders of Insects of the Galápagos Islands, Ecuador: Evolution, Ecology, and Diversity*. NRC Research Press, Ottawa, Ontario, Canada, 278 pp.