CDF Checklist of Galapagos Booklice and barklice

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Abstract
This Checklist of Galapagos Booklice and barklice includes a total of all 44 taxa reported from the Galapagos Islands. For each name, detailed information is provided: its Galapagos distribution in islands groups or bioregions generated from the specimen records, comments about the taxonomy (especially synonyms), the origin (native and introduced), taxon status (accepted vs. rejected records) and relevant literature references.

Introduction
This publication lists all species of Galapagos Booklice and barklice currently known. 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.

Methods
This checklist of all known Galapagos Booklice and barklice is automatically generated using the online database of the Charles Darwin Foundation Galapagos Species Checklist.

All CDF Galapagos Species Checklists represent the synthesis of many different records: literature citations, data from previously unpublished reports (grey literature), specimen records of natural history collections located in Galapagos and all over the world. To the best of their knowledge authors of the individual checklists revised all available data. When new information becomes available, the taxonomy of a group changes or new species are discovered, the CDF online database and thus this publication becomes updated.
For many poorly known species groups the higher taxonomic classification still regularly changes according to how our knowledge about species being related changes. In many well known groups the phylogeny is somewhat stable, but to avoid confusion, in particular for groups where taxonomic changes are frequent, all checklists presented here are sorted alphabetical according to genus name and specific epithet. Please refer to the website for the currently accepted taxonomic hierarchy of each group.

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

For marine species, the distribution generally refers to the five main bioregions of the archipelago (Far Northern, Northern, Western, South Eastern and the Elisabeth Bay Bioregion). For the terrestrial species 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.

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.

Numbers of the species included in this list are auto-generated. Adding up the number of species in each category will not always equal the total number indicated. Some species have insufficient data to be categorized while others (e.g., category eradicated) will not be included in the total.

### Results

**Names of taxa included in this checklist:** 44 (40 accepted, 4 unidentified taxon).

**Origin of the taxa included:** 10 accidental, 5 questionable accidental, 5 questionable native, 21 endemic, 1 indigenous, 2 questionable endemic.

1. **Aaroniella galapagensis** Thornton & Woo, 1973
   - **Taxon status:** Accepted name; taxon occurs in Galapagos.
   - **Origin:** Native, Endemic.
   - **Galapagos Distribution:** Española, Floreana, Isabela, San Cristóbal, Santa Cruz, Santiago.

2. **Archipsocus spinosus** Thornton, Lee & Chui, 1972
   - **Taxon status:** Accepted name; taxon occurs in Galapagos.
   - **Origin:** Introduced, Questionable Accidental.
   - **Galapagos Distribution:** Isabela, Pinta, San Cristóbal, Santa Cruz, Santa Fé.

3. **Blaste uncinata** Thornton & Woo, 1973
   - **Taxon status:** Accepted name; taxon occurs in Galapagos.
   - **Origin:** Native, Endemic.
   - **Galapagos Distribution:** Floreana, Isabela, Santa Cruz, Santiago.

4. **Caecilius antillanus** Thornton & Woo, 1973
   - **Taxon status:** Accepted name; taxon occurs in Galapagos.
   - **Origin:** Introduced, Questionable Native.
5. **Caecilius distinctus**  
   Thornton & Woo, 1973  
   **Taxon status:** Accepted name; taxon occurs in Galapagos.  
   **Origin:** Introduced, Questionable Native.  
   **Galapagos Distribution:** San Cristóbal, Santa Cruz.  

6. **Caecilius insularum**  
   Mockford, 1966  
   **Taxon status:** Accepted name; taxon occurs in Galapagos.  
   **Origin:** Introduced, Questionable Native.  
   **Galapagos Distribution:** Isabela, Santa Cruz, Santiago.  

7. **Cerobasis lambda**  
   Thornton & Woo, 1973  
   **Taxon status:** Accepted name; taxon occurs in Galapagos.  
   **Origin:** Native, Endemic.  
   **Galapagos Distribution:** Pinzón, San Cristóbal, Santa Cruz, Santiago.  

8. **Cerobasis recta**  
   Thornton & Woo, 1973  
   **Taxon status:** Accepted name; taxon occurs in Galapagos.  
   **Origin:** Native, Endemic.  
   **Galapagos Distribution:** Santa Cruz, Santiago.  

9. **Cerobasis treptica**  
   Thornton & Woo, 1973  
   **Taxon status:** Accepted name; taxon occurs in Galapagos.  
   **Origin:** Native, Endemic.  
   **Galapagos Distribution:** Darwin, Española, Fernandina, Floreana, Genovesa, Isabela, Marchena, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santa Fé, Santiago, Wolf.  

10. **Echmepteryx aperta**  
    Thornton & Woo, 1973  
    **Taxon status:** Accepted name; taxon occurs in Galapagos.  
    **Origin:** Native, Endemic.  
    **Galapagos Distribution:** Floreana, Isabela, San Cristóbal, Santa Cruz.  

11. **Echmepteryx lunulata**  
    Thornton, Lee & Chui, 1972  
    **Taxon status:** Accepted name; taxon occurs in Galapagos.  
    **Origin:** Native, Indigenous.  
    **Galapagos Distribution:** Floreana, Isabela, Pinta, San Cristóbal, Santa Cruz, Santiago.

12. *Echmepteryx madagascariensis*  (Kolbe, 1885)
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Accidental.
   **Galapagos Distribution:** Floreana, Isabela, Santa Cruz.

   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Accidental.
   **Galapagos Distribution:** Genovesa, Isabela, San Cristóbal, Santa Cruz.

14. *Ectopsocus meridionalis*  Ribaga, 1904
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Accidental.
   **Galapagos Distribution:** Isabela, Pinta, Santa Cruz, Santiago.

15. *Ectopsocus richardsi*  (Pearman, 1929)
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Accidental.
   **Galapagos Distribution:** Santa Cruz.

   **Taxon status:** Taxon not identified to species, subspecies, form or variety.
   **Origin:** Native, Questionable Endemic.
   **Galapagos Distribution:** Española, Fernandina, Floreana, Genovesa, Isabela, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santiago, Wolf.

17. *Ectopsocus sp. 1*
   **Taxon status:** Taxon not identified to species, subspecies, form or variety.
   **Origin:** Native, Questionable Endemic.
   **Galapagos Distribution:** Santa Cruz.
   **References:** Peck, S.B. et al. (2001).

   **Taxon status:** Accepted name; taxon occurs in Galapagos.
19. **Embidopsocus thorntoni**  Badonnel, 1955  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  

20. **Epipsocus campanulatus**  Thornton & Woo, 1973  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Isabela, San Cristóbal, Santa Cruz.  

21. **Indiopsocus acraea**  (Thornton & Woo, 1973)  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Floreana, Isabela, Pinzón, San Cristóbal, Santa Cruz, Santiago.  
**References:** Peck, S.B. et al. (2001).

22. **Indiopsocus dentata**  (Thronton & Woo, 1973)  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Fernandina, Floreana, Genovesa, Isabela, Marchena, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santa Fé, Santiago.  
**References:** Peck, S.B. et al. (2001).

23. **Indiopsocus marta**  (Thronton & Woo, 1973)  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Floreana, San Cristóbal, Santa Cruz, Wolf.  
**References:** Peck, S.B. et al. (2001).

24. **Lachesilla aethiopica**  Enderlein, 1902  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Introduced, Questionable Accidental.  
**Galapagos Distribution:** Floreana, Santa Cruz, Santiago.  
25. **Lachesilla castroi**  Thornton & Woo, 1973  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Fernandina, Floreana, Genovesa, Isabela, Marchena, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santiago, Wolf.  

26. **Lepidopsocus maculatus**  Thornton, Lee & Chui, 1972  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Introduced, Questionable Native.  
**Galapagos Distribution:** Fernandina, Floreana, Genovesa, Isabela, Pinzón, San Cristóbal, Santa Cruz, Santiago.  

27. **Lichenomima chelata**  Thornton & Woo, 1973  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Española, Floreana, Isabela, San Cristóbal, Santa Cruz, Santa Fé, Santiago.  
**References:** Peck, S.B. et al. (2001).

28. **Liposcelis entomophila**  (Enderlein, 1907)  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Introduced, Accidental.  
**Galapagos Distribution:** Pinzón, Santa Cruz.  

29. **Nepticulomima cavagnaroi**  Thornton & Woo, 1973  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Isabela, San Cristóbal, Santa Cruz.  

30. **Pachytroctes achrosta**  Thornton & Woo, 1973  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  

31. **Peripsocus pauliani**  Badonnel, 1949  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Introduced, Accidental.  
**Galapagos Distribution:** Española, Fernandina, Floreana, Genovesa, Isabela, Marchena, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santiago, Wolf.  
32. *Peripsocus potosi* Mockford, 1971
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Questionable Native.
   **Galapagos Distribution:** Floreana, Isabela, Pinta, San Cristóbal, Santa Cruz, Santiago.

33. *Peripsocus sp.*
   **Taxon status:** Taxon not identified to species, subspecies, form or variety.
   **Origin:** Native, Endemic.
   **Galapagos Distribution:** Floreana, Isabela.

34. *Peripsocus sp. 1*
   **Taxon status:** Taxon not identified to species, subspecies, form or variety.
   **Origin:** Native, Endemic.
   **Galapagos Distribution:** Santa Cruz.
   **References:** Peck, S.B. et al. (2001).

35. *Peripsocus stagnivagus* Chapman, 1930
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Questionable Accidental.
   **Galapagos Distribution:** Fernandina, Floreana, Genovesa, Isabela, Marchena, Pinta, Pinzón, San Cristóbal, Santa Cruz, Santa Fé, Santiago.

   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Accidental.
   **Galapagos Distribution:** Isabela.
   **References:** Causton, C.E. et al. (2008).

37. *Pseudocaecilius criniger* (Perkins, 1899)
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Accidental.
   **Galapagos Distribution:** Española, Floreana, Isabela, Pinta, Santa Cruz, Santiago.

38. *Pseudocaecilius tahitiensis* (Karny, 1926)
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Questionable Accidental.
   **Galapagos Distribution:** Isabela, San Cristóbal, Santa Cruz, Santiago.
39. *Psoquilla marginepunctata*  Hagen, 1865
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Accidental.
   **Galapagos Distribution:** Santa Cruz.

40. *Rhypsocus orthatus*  Thornton & Woo, 1973
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Native, Endemic.
   **Galapagos Distribution:** Santa Cruz.

41. *Soa flaviterminata*  Enderlein, 1906
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Introduced, Accidental.
   **Galapagos Distribution:** Floreana, Isabela, San Cristóbal.
   **References:** Causton, C.E. et al. (2008).

42. *Soa reticulata*  Thornton & Woo, 1973
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Native, Endemic.
   **Galapagos Distribution:** Santa Cruz.

43. *Tapinella francesca*  Thornton & Woo, 1973
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Native, Endemic.
   **Galapagos Distribution:** Pinta, San Cristóbal, Santa Cruz.

44. *Tapinella stenomedia*  Thornton & Woo, 1973
   **Taxon status:** Accepted name; taxon occurs in Galapagos.
   **Origin:** Native, Endemic.
   **Galapagos Distribution:** Santa Cruz.

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References


Disclaimer

The Charles Darwin Foundation Galapagos Species Checklist is a continuously updated list of all species currently known from the Galapagos Islands and reflects up-to-date knowledge compiled by scientists of the Charles Darwin Foundation (CDF) in collaboration with experts from around the world. CDF shares this data publicly and invites comments, corrections and additions. Please do not hesitate to contact us; your input is very welcome. However, please understand that additions, changes, and corrections will be posted at periodic intervals after thorough cross-referencing of all new data. As an independent international scientific organization, the Charles Darwin Foundation relies on funding from donors who support our work. Please contact us at datazone@fcdarwin.org.ec if you would like to support the Charles Darwin Foundation Galapagos Species Checklist and help make knowledge of Galapagos biodiversity more widely available.