

# CDF Checklist of Galapagos Arrow Worms

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## Abstract

This Checklist of Galapagos Arrow Worms includes a total of all 15 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 Arrow Worms currently known.

These long transparent worms are named for their arrow-like shape. With one exception, this small group consists entirely of ocean dwellers. Hooks on the head are used to capture prey. The worms are hermaphrodites with reproductive organs, swimmerets, and intestines located in a trunk. Chaetognats are important indicator species of habitat and water quality.

## Methods

This checklist of all known Galapagos Arrow Worms 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Species Checklists represent the synthesis of many different records: literature citations, data from previously unpublished reports (grey literature), specimen records of natural history collections located in Galapagos and all over the world.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:** 15 (13 accepted, 1 unidentified taxon, 1 problematic).

**Origin of the taxa included:** 1 indigenous.

1. *Aidosagitta regularis* Aida, 1897

**Taxon status:** Accepted name; taxon occurs in Galapagos.

Syn.: *Sagitta regularis* Aida, 1897

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

2. *Ferosagitta robusta* Doncaster, 1902

**Taxon status:** Accepted name; taxon occurs in Galapagos.

Syn.: *Sagitta robusta*

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

3. *Flaccisagitta enflata* Grassi, 1881

**Taxon status:** Accepted name; taxon occurs in Galapagos.

Syn.: *Sagitta enflata* Grassi, 1881

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

4. *Flaccisagitta hexaptera* d'Orbigny, 1836

**Taxon status:** Accepted name; taxon occurs in Galapagos.

Syn.: *Sagitta hexaptera*

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

5. *Gen. Chaetognatha indet. sp.*

**Taxon status:** Taxonomic status unresolved or unrevised.

**Origin:** No Data.

**Galapagos Distribution:** Darwin, Fernandina, Genovesa, Isabela, Marchena, Pinta, San Cristóbal, Santa Cruz, Wolf.

6. *Krohnitta pacifica* Aida, 1897  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** No Data.  
**Galapagos Distribution:** Santa Cruz.
7. *Krohnitta sp.*  
**Taxon status:** Taxon not identified to species, subspecies, form or variety.  
**Origin:** No Data.  
**Galapagos Distribution:** Santa Cruz.
8. *Mesosagitta minima* Grassi, 1881  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
Syn.: Sagitta minima Grassi, 1881  
**Origin:** No Data.  
**Galapagos Distribution:** Santa Cruz.
9. *Parasagitta peruviana* Sund, 1961  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
Syn.: Sagitta peruviana  
**Origin:** No Data.  
**Galapagos Distribution:** Santa Cruz.
10. *Parasagitta popovicii* Sund, 1961  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
Syn.: Sagitta popovicii  
**Origin:** No Data.  
**Galapagos Distribution:** Santa Cruz.
11. *Pterosagitta draco* (Krohn, 1853)  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
Syn.: Spadella draco Krohn, 1853 (Synonym), fide Appeltans et al. (2010)  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Genovesa, Santa Cruz.  
**References:** Appeltans, W. et al. (2010).
12. *Sagitta bipunctata* Quoy & Gaimard, 1828  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** No Data.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Appeltans, W. et al. (2010).
13. *Serratosagitta brierii* Alvarino, 1961  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
Syn.: Sagitta bierii  
**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

14. *Serratosagitta pacifica* Tokiota, 1940

**Taxon status:** Accepted name; taxon occurs in Galapagos.

Syn.: *Sagitta pacifica*, Tokiota, 1940

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

15. *Zonosagitta pulchra* Doncaster, 1902

**Taxon status:** Accepted name; taxon occurs in Galapagos.

Syn.: *Sagitta pulchra* Doncaster, 1903

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

### Acknowledgements

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This checklist would not be possible without adjunct and collaborating scientists, and volunteers of the Charles Darwin Foundation.

### References

1. Appeltans, W., Bouchet, P., Boxshall, G.A., Fauchald, K., Gordon, D.P., Hoeksema, B.W., Poore, G.C.B., van Soest, R.W.M., Stöhr, S., Walter, T.C., Costello, M.J. (eds.) (2010) *World Register of Marine Species (WoRMS)*. Available online at <http://www.marinespecies.org>.

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### 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](mailto: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.