

CDF Checklist of Galapagos Sponges

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Abstract

This Checklist of Galapagos Sponges includes a total of all 46 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 Sponges currently known.

Sponges are permanently attached to the substrate. Due to their internal system composed of pores, canals, and chambers, their bodies circulate water with dissolved organic material or plankton that is assimilated by the animal.

Methods

This checklist of all known Galapagos Sponges 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Species Checklists represent the synthesis of many different records: literature citations, data from previously unpublished reports (grey literature), specimen records of natural history collections located in Galapagos and all over the world.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: 46 (39 accepted, 5 unidentified taxon, 1 doubtful, 1 preliminary identification).

Origin of the taxa included: 3 endemic, 3 indigenous.

1. *Acarinus peruanus* van Soest, Hooper & Hiemstra, 1991

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

2. *Antho lithophoenix* (De Laubenfels, 1927)

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Isociona lithophoenix* (De Laubenfels, 1927), *Plocamia lithophoenix* De Laubenfels, 1927, fide Appeltans et al. (2010).

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

3. *Arachnanthus sp.*

Taxon status: Taxon not identified to species, subspecies, form or variety.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Appeltans, W. et al. (2010), Fautin, D.G. et al. (2007), Hickman, C.P. Jr. et al. (2008).

4. *Auletta dendrophora* Wilson, 1904

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: San Cristóbal.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

5. *Chondrilla verrucosa* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

6. *Cinachyrella globulosa* Desqueyroux-Faúndez & van Soest, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Santa Cruz.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).
7. *Ciocalypta* sp.
Taxon status: Taxon not identified to species, subspecies, form or variety.
Origin: No Data.
Galapagos Distribution: Unknown.
8. *Clathrina canariensis* (Miklucho-Maclay, 1868)
Taxon status: The identification of this taxon or its occurrence in Galapagos is doubtful.
Syn.: *Ascuris arrecifae* Haeckel, 1872, *Ascuris papillata* Haeckel, 1872, *Clathrina sulphurea* (Miklucho-Maclay, 1868), *Leucosolenia canariensis* (Miklucho-Maclay, 1868), *Nardoa canariensis* Miklucho-Maclay, 1868, *Nardoa rubra* Miklucho-Maclay, 1868, *Nardoa sulphurea* Miklucho-Maclay, 1868, fide Appeltans et al. (2010).
Origin: No Data.
Galapagos Distribution: Unknown.
References: Appeltans, W. et al. (2010).
9. *Clathrina* sp.
Taxon status: Taxon not identified to species, subspecies, form or variety.
Origin: No Data.
IUCN Red List: Not Evaluated.
Galapagos Distribution: Santa Cruz.
References: Appeltans, W. et al. (2010), Bustamante, R.H. et al. (2002).
10. *Cliona chilensis* Thiele, 1905
Taxon status: Accepted name; taxon occurs in Galapagos.
Syn.: *Pseudosuberites melanos*, De Laubenfels, 1972, *Pseudosuberites pseudos*, Dickinson, 1945, fide Desqueyroux-Faúndez & Van Soest (1997).
Origin: No Data.
IUCN Red List: Not Evaluated.
Galapagos Distribution: Santa Cruz.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997), Thiele, J. et al. (1905).
11. *Corallistes isabela* Desqueyroux-Faúndez & van Soest, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Santa Cruz.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).
12. *Geodia media* Bowerbank, 1873
Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: Synops(?) media Sollas, 1888, fide Desqueyroux-Faúndez & Van Soest (1997).

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

13. *Guitarra abbotti* Lee, 1987

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

14. *Haliclona cinerea* (Grant, 1826)

Taxon status: Identification not yet confirmed.

Syn. *Haliclona permollis* (Bowerbank, 1866), fide Appeltans et al., 2010

Origin: No Data.

Galapagos Distribution: Isabela.

References: Appeltans, W. et al. (2010).

15. *Halicnemia diazae* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

16. *Hymeniacidon sinapium* De Laubenfels, 1930

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Leucophloeus actites* Ristau, 1978, fide Desqueyroux-Faúndez & Van Soest (1997).

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

17. *Iophon lamella* Wilson, 1904

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Burtonella melanokhemia* de Laubenfels, 1928, *Iophon chelifera* var. *californiana* de Laubenfels, 1932, fide Appeltans et al. (2010).

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

18. *Mycale cecilia* De Laubenfels, 1936

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Mycale maunakea* de Laubenfels, 1951 (junior synonym), fide Appeltans et al. (2010), *Mycale microsigmatosa* Green & Gomez, 1986, fide Desqueyroux-Faúndez & Van Soest (1997)

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

19. *Myxilla mexicensis* Dickinson, 1945

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

20. *Oceanapia microtoxa* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

21. *Penares apicospinatus* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

22. *Penares saccharis* (de Laubenfels, 1930)

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Papyrula saccharis* De Laubenfels, 1930, fide Desqueyroux-Faúndez & Van Soest (1997).

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

23. *Penares scabiosus* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

24. *Phakellia hooperi* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

25. *Phorbas californiana* (De Laubenfels, 1932)

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Myxilla californiana* de Laubenfels, 1932, *Myxilla versicolor* var. *californiana* de Laubenfels, 1932, fide Appeltans et al. (2010), *Podotuberculum hoffmani* Bakus, 1966,

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

26. *Plakina fragilis* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

27. *Plakina microlobata* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

28. *Plakina pacifica* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

29. *Plakortis galapagensis* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

30. *Poecillastra cribraria* Wilson, 1904

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

31. *Polymastia sp.*

Taxon status: Taxon not identified to species, subspecies, form or variety.

Origin: No Data.

Galapagos Distribution: Española, Isabela, Santa Cruz.

References: Appeltans, W. et al. (2010), Bustamante, R.H. et al. (2002).

32. *Polymastia villosa* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Indigenous.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

33. *Quasillina translucida* Desqueyroux-Faúndez & van Soest, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Santa Cruz.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).
34. *Raspailia galapagensis* (Desqueyroux-Faúndez & van Soest, 1997)
Taxon status: Accepted name; taxon occurs in Galapagos.
Syn.: Aulospongia galapagensis Desqueyroux-Faúndez & van Soest, 1997, fide Appeltans et al. (2010);
Holotype: USNM 43173, type locality: Galapagos Islands
Origin: No Data.
Galapagos Distribution: Santa Cruz.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).
35. *Scalarispongia incognita* (Desqueyroux-Faúndez & van Soest, 1997)
Taxon status: Accepted name; taxon occurs in Galapagos.
Syn. Cacospongia incognita Desqueyroux-Faúndez & van Soest, 1997, fide Appeltans, 2010.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).
36. *Scalarispongia similis* (Thiele, 1905)
Taxon status: Accepted name; taxon occurs in Galapagos.
Syn. Cacospongia similis Thiele, 1905, fide Appeltans et al., 2010.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997), Thiele, J. et al. (1905).
37. *Scalarispongia sp.*
Taxon status: Taxon not identified to species, subspecies, form or variety.
Syn. Cacospongia, fide Appeltans et al., 2010
Origin: No Data.
Galapagos Distribution: Wolf.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).
38. *Sigmosceptrella hospitalis* Desqueyroux-Faúndez & van Soest, 1997
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Santa Cruz.
References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).
39. *Spongionella repens* (Thiele, 1905)
Taxon status: Accepted name; taxon occurs in Galapagos.
Syn.: Euryspongia repens (Thiele, 1905) (genus transfer), Spongelia repens Thiele, 1905 (genus transfer), fide Appeltans et al. (2010).

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

40. *Spongosorites smithae* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

41. *Stelletta eduardoi* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

42. *Tedania (Tedania) galapagensis* Desqueyroux-Faúndez & van Soest, 1996

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Tedania galapagensis* Desqueyroux-Faúndez & van Soest, 1996 (subgenus assignment), fide Appeltans et al. (2010).

Origin: Native, Endemic.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

43. *Tedania galapagensis* Gill, 1862

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Santa Cruz.

References: Banks, S. et al. (2009).

44. *Tethya sarai* Desqueyroux-Faúndez & van Soest, 1997

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

IUCN Red List: Not Evaluated.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Banks, S. et al. (2009), Desqueyroux-Faúndez, R. et al. (1997).

45. *Tethya strongylata* Sarà, Bavestrello & Calcinai, 2000

Taxon status: Accepted name; taxon occurs in Galapagos.

Syntypes (BMNH 1938:4:8:1, slide 1938:4:8). Type locality: Galapagos Islands. West side of James Island.

Origin: No Data.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Sarà, M. et al. (2000).

46. *Vulcanella tricornis* (Wilson, 1904)

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Poecillastra tricornis* Wilson, 1904, fide Desqueyroux-Faúndez & Van Soest (1997).

Origin: Native, Endemic.

Galapagos Distribution: Santa Cruz.

References: Appeltans, W. et al. (2010), Desqueyroux-Faúndez, R. et al. (1997).

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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.

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