

# CDF Checklist of Galapagos Diatoms

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## Abstract

This Checklist of Galapagos Diatoms includes a total of all 83 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 Diatoms currently known.

Part of the phytoplankton, diatoms are unicellular algae that inhabit both salt- and fresh-water habitats.

All possess a cell wall made from silica that encapsulates the cell like a skeleton. This unique structure is called a frustule.

Diatoms are divided into three classes: **Bacillariophyceae** and **Fragilariophyceae** with bilateral symmetry, and **Coscinodiscophyceae** that are cylindrical.

The cells have yellow or light brown chloroplasts.

## Methods

This checklist of all known Galapagos Diatoms 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Species Checklists represent the synthesis of many different records: literature citations, data from previously unpublished reports (grey literature), specimen records of natural history collections located in Galapagos and all over the world.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:** 83 (80 accepted, 2 doubtful, 1 problematic).

**Origin of the taxa included:** 16 endemic, 57 indigenous, 1 questionable endemic.

1. *Achnanthes brevipes* var. *intermedia* (Kützing) Cleve

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

2. *Achnanthes submarina* Hustedt

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

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

3. *Achnanthes turgida* Ehrenberg

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

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

**References:** Ehrenberg, C.G. et al. (1853), Guiry, M.D. et al. (2010).

4. *Amphora cf. marina* Witkowski, Lange-Bertalot & Metzeltin

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

Taxon authors listed by Seddon (2011) (Witkowski, Lange-Bertalot & Metzeltin) do not match those listed by Guiry & Guiry (2010) (W.Smith)

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

5. *Amphora micrometra* Giffen

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

6. *Amphora pseudoholsatica* Nagumo & Kobaysi

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

7. *Amphora strigosa* Hustedt

**Taxon status:** The identification of this taxon or its occurrence in Galapagos is doubtful.

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

8. *Anomoeoneis sphaerophora* (Kützing) Pfitzer

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).

9. *Brachysira aponina* Kützing

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

10. *Campylodiscus clypeus* Ehrenberg

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

11. *Cymatosira lorenziana* Grunow

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

12. *Cymbella delicatissima* var. *beagleana* Patrick

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

**Origin:** Native, Endemic.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

13. *Cymbella thienemanni* Hustedt  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
14. *Denticula subtilis* Grunow  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
15. *Diploneis cabro* Ehrenberg  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
16. *Diploneis caffra* Giffen  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
17. *Diploneis smithii* var. *smithii* (Brébisson) Cleve  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
18. *Diploneis vacillans* var. *vacillans* (A. Schmidt) Cleve  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
19. *Encyonema ventricosum* (Agardh) Grunow  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
Syn.: *Cymbella ventricosa* Agardh fide Guiry & Guiry (2010)  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
20. *Envekadea pseudocrassirostris* (Hustedt) Van de Vijver, Gligora, Hinz, Kralj & Cocquyt  
**Taxon status:** Accepted name; taxon occurs in Galapagos.

Syn.: *Navicula pseudocrassirostris* Hustedt fide Guiry & Guiry (2010).

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

21. *Fallacia pseudolitoricola* (Hustedt) Lange-Bertalot

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Seddon, A.W.R. et al. (2011).

22. *Fragilaria bronkei* Witkowski, Lange-Bertalot & Metzeltin

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

23. *Fragilaria geocollegarum* Witkowski & Lange-Bertalot

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

24. *Fragilaria sopotensis* Witkowski & Lange-Bertalot

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

25. *Frustulia isabelae* Patrick

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).

26. *Halumphora acutiuscula* (Kützing) Levkov

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

Syn.: *Amphora acutiuscula* Kützing fide Guiry & Guiry (2010)

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).

27. *Halumphora coffeaeformis* (Agardh) Levkov

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

Syn.: *Amphora coffeaeformis* (C.Agardh) Kützing fide Guiry & Guiry (2010)

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).

28. *Halamphora cymbifera* (Gregory) Levkov

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

Syn.: *Amphora caroliniana* Giffen fide Guiry & Guiry (2010)

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

29. *Hannaea arcus* (Ehrenberg) R.M.Patrick

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

30. *Hyalosira hustediana* (Patrick) Navarro

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

31. *Hyalosynedra fasciculata* Kützing

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Seddon, A.W.R. et al. (2011).

32. *Mastogloia braunii* Grunow

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

33. *Mastogloia braunii f. elongata* Voigt

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Patrick, R. et al. (1970).

34. *Mastogloia crucicula var. crucicula* (Grunow) Cleve

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Seddon, A.W.R. et al. (2011).

35. *Mastogloia drouetiana* Patrick

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).

36. *Mastogloia habensis* Voigt

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

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

**References:** Patrick, R. et al. (1970).

37. *Mastogloia lanceolata* Thwaites ex W. Smith

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

38. *Mastogloia pseudoexigua* Chohnoky

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

**Origin:** Native, Endemic.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

39. *Mastogloia pumila* (Grunow) Cleve

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

40. *Navicula atwateri* Seddon, Witkowski & Hemphill-Haley

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Seddon, A.W.R. et al. (2011).

41. *Navicula crateri* Patrick

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

**Origin:** Native, Endemic.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

42. *Navicula darwiniana* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
43. *Navicula galapagoensis* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
44. *Navicula isabelensiformis* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
Closely resembles an unidentified *Navicula* sp. by Rumrich et al. 2000 from mainland Ecuador and the Bolivian high Andes.  
**Origin:** Native, Questionable Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
45. *Navicula isabelensiminor* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
46. *Navicula isabelensis* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
47. *Navicula isabelensoides* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
48. *Navicula lagunae* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).



49. *Navicula phylleptosomaformis* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
50. *Navicula tagiana* Patrick  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
51. *Navicula willisiae* Seddon & Witkowski  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
52. *Navicymbula pusilla* (Grunow) Krammer  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
Syn.: *Cymbella pusilla* Grunow, *Seminavis pusilla* (Grunow) E.J.Cox & G.Reid fide Guiry & Guiry (2010)  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
53. *Nitzschia amphibia* Grunow  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
54. *Nitzschia beagleana* Patrick  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
55. *Nitzschia communis* Rabenhorst  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
56. *Nitzschia communis var. hyalina* Lund  
**Taxon status:** Accepted name; taxon occurs in Galapagos.

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

57. *Nitzschia confinis* Hustedt

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

Possibly in Seddon et al. (2011) as *Nitzschia confinis* Patrick.

**Origin:** Native, Endemic.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).

58. *Nitzschia confinis var. maxima* Patrick

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

Possibly in Seddon et al. (2011) as *Nitzschia confinis* Patrick.

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

**References:** Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).

59. *Nitzschia elliptica* Hust.

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

60. *Nitzschia frustulum* (Kützing) Grunow

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

61. *Nitzschia kutzingiana* Hilse

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

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

62. *Nitzschia microcephala* Grunow

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

63. *Nitzschia nana* Grunow

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

64. *Nitzschia ovalis* Arnott ex Grunow

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

65. *Nitzschia palea* (Kützing) W. Smith

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

66. *Nitzschia paleacea* Grunow

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

67. *Nitzschia pusilla* Grunow

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

68. *Nitzschia scalpelliformis* (Grunow) Grunow

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

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

69. *Nitzschia sigma* (Kützing) W. Smith

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

70. *Nitzschia subcommunis* Hust

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

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

71. *Nitzschia vitrea* var. *salinarum* Grunow  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
72. *Paralia sulcata* (Ehrenberg) Cleve  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** No Data.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
73. *Plagiogramma atomus* Greville  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
74. *Proshkinia bulnheimii* var. *bulnheimii* (Grunow) Karayeva  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
75. *Rhopalodia gibberula* (Ehrenberg) Müller  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
76. *Rhopalodia musculus* (Kützing) Müller  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
77. *Seminavis delicatissima* Patrick  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Endemic.  
**Galapagos Distribution:** Santa Cruz.  
**References:** Seddon, A.W.R. et al. (2011).
78. *Staurosira punctiformis* Witkowski, Metzeltin & Lange-Bertalot  
**Taxon status:** Accepted name; taxon occurs in Galapagos.  
**Origin:** Native, Indigenous.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

79. *Striatella hustediana* Patrick

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

**Origin:** Native, Endemic.

**Galapagos Distribution:** Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).

80. *Synedra isabelae* var. *isabelae* Patrick

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

**Origin:** Native, Endemic.

**Galapagos Distribution:** Santa Cruz.

**References:** Patrick, R. et al. (1970).

81. *Synedra isabelae* var. *minor* Patrick

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

**Origin:** Native, Endemic.

**Galapagos Distribution:** Santa Cruz.

**References:** Patrick, R. et al. (1970).

82. *Triceratium tripos* Cleve

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

**Origin:** No Data.

**Galapagos Distribution:** Santa Cruz.

**References:** Cleve, P.T. et al. (1881), Guiry, M.D. et al. (2010).

83. *Tryblionella coarctata* (Grunow) D.G.Mann

**Taxon status:** The identification of this taxon or its occurrence in Galapagos is doubtful.

Syn.: *Nitzschia coarctata* Grunow fide Guiry & Guiry (2010).

**Origin:** Native, Indigenous.

**Galapagos Distribution:** Isabela, Santa Cruz.

**References:** Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

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## References

1. Cleve, P.T. (1881) *On Some New and Little Known Diatoms*. Kongl. Vetensk. Akad. Handl. 18(5):1-28.
2. Ehrenberg, C.G. (1853) *Über das mikroskopische Leben der Galápagos-Inseln und über die organische Mischung der dortigen vulkanischen Gebirgsarten, besonders des Palagonits*. Monatsberichte Berliner Akad. Wissenschaften 1983: 178-182.
3. Guiry, M.D., Guiry, G.M. (2010) *AlgaeBase*. World-wide electronic publication, National University of Ireland, Galway. <http://www.algaebase.org>.
4. Patrick, R. (1970) *The Diatom Flora of Some Lakes of the Galapagos Islands*. Nova Hedwigia 31: 495-510.
5. Seddon, A.W.R., Froyd, C.A. & Witkowski, A. (2011) *New Diatoms in the Genus Navicula from Galápagos*. J. Phycol. 47: 861-879.

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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.