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CDF Checklist of Galapagos Diatoms

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30 Mar 2012

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

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.

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for well known species groups like vascular plants or vertebrates updates proposed to the IUCN are shown instead of the outdated, but currently accepted status;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: 79 (76 Accepted , 2 Doubtful , 1 Problematic).

Origin of the taxa included: 15 Endemic, 54 Indigenous, 1 Questionable Endemic.

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

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Indigenous.

Galapagos Distribution: Unknown.

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.
Galapagos Distribution: Unknown.
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.
Galapagos Distribution: Unknown.
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)
Galapagos Distribution: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
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: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
 21. *Fragilaria bronkei* Witkowski, Lange-Bertalot Metzeltin
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
 22. *Fragilaria geocollegarum* Witkowski Lange-Bertalot
Taxon status: Accepted name; taxon occurs in Galapagos.

- Origin:** Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
23. *Fragilaria sopotensis* Witkowski Lange-Bertalot
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
24. *Frustulia isabelae* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
25. *Halamphora acutiuscula* (Kützing) Levkov
Taxon status: Accepted name; taxon occurs in Galapagos.
Syn.: *Amphora acutiuscula* Kützing fide Guiry Guiry (2010)
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
26. *Halamphora 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: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
27. *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: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
28. *Hannaea arcus* (Ehrenberg) R.M.Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
29. *Hyalosynedra fasciculata* Kützing
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Seddon, A.W.R. et al. (2011).
30. *Mastogloia braunii* Grunow
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
31. *Mastogloia braunii f. elongata* Voigt
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Patrick, R. et al. (1970).

32. *Mastogloia crucicula* var. *crucicula* (Grunow) Cleve
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Seddon, A.W.R. et al. (2011).
33. *Mastogloia drouetiana* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
34. *Mastogloia habensis* Voigt
Taxon status: Accepted name; taxon occurs in Galapagos.
Galapagos Distribution: Unknown.
References: Patrick, R. et al. (1970).
35. *Mastogloia lanceolata* Thwaites ex W. Smith
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
36. *Mastogloia pseudoexigua* Cholnoky
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
37. *Mastogloia pumila* (Grunow) Cleve
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
38. *Navicula atwateri* Seddon, Witkowski Hemphill-Haley
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Seddon, A.W.R. et al. (2011).
39. *Navicula crateri* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
40. *Navicula darwiniana* Seddon Witkowski
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Seddon, A.W.R. et al. (2011).
41. *Navicula galapagoensis* Seddon Witkowski
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Seddon, A.W.R. et al. (2011).
42. *Navicula isabelensisformis* 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: Unknown.

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

43. *Navicula isabelensiminor* Seddon Witkowski

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

Galapagos Distribution: Unknown.

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

44. *Navicula isabelensis* Seddon Witkowski

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

Galapagos Distribution: Unknown.

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

45. *Navicula isabelensoides* Seddon Witkowski

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

Galapagos Distribution: Unknown.

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

46. *Navicula lagunae* Seddon Witkowski

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Indigenous.

Galapagos Distribution: Unknown.

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

47. *Navicula phylleptosomaformis* Seddon Witkowski

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

Galapagos Distribution: Unknown.

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

48. *Navicula tagiana* Patrick

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

Galapagos Distribution: Unknown.

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

49. *Navicula willisiae* Seddon Witkowski

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Endemic.

Galapagos Distribution: Unknown.

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

50. *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: Unknown.

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

51. *Nitzschia amphibia* Grunow

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Native, Indigenous.

Galapagos Distribution: Unknown.

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

52. *Nitzschia beagleana* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
53. *Nitzschia communis* Rabenhorst
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
54. *Nitzschia communis* var. *hyalina* Lund
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
55. *Nitzschia confinis* var. *maxima* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Possibly in Seddon et al. (2011) as *Nitzschia confinis* Patrick.
Galapagos Distribution: Unknown.
References: Patrick, R. et al. (1970), Seddon, A.W.R. et al. (2011).
56. *Nitzschia elliptica* Hust.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
57. *Nitzschia frustulum* (Kützing) Grunow
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
58. *Nitzschia kutzingiana* Hilse
Taxon status: Accepted name; taxon occurs in Galapagos.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
59. *Nitzschia microcephala* Grunow
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
60. *Nitzschia nana* Grunow
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
61. *Nitzschia ovalis* Arnott ex Grunow
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
62. *Nitzschia palea* (Kützing) W. Smith
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.

- Galapagos Distribution:** Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
63. *Nitzschia paleacea* Grunow
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
64. *Nitzschia pusilla* Grunow
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
65. *Nitzschia scalpelliformis* (Grunow) Grunow
Taxon status: Accepted name; taxon occurs in Galapagos.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
66. *Nitzschia sigma* (Kützing) W. Smith
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
67. *Nitzschia subcommunis* Hust
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
68. *Paralia sulcata* (Ehrenberg) Cleve
Taxon status: Accepted name; taxon occurs in Galapagos.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
69. *Plagiogramma atomus* Greville
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
70. *Proshkinia bulnheimii* var. *bulnheimii* (Grunow) Karayeva
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Seddon, A.W.R. et al. (2011).
71. *Rhopalodia gibberula* (Ehrenberg) Müller
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
72. *Rhopalodia musculus* (Kützing) Müller
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

73. *Seminavis delicatissima* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Seddon, A.W.R. et al. (2011).
74. *Staurosira punctiformis* Witkowski, Metzeltin Lange-Bertalot
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Indigenous.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).
75. *Striatella hustediana* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Guiry, M.D. et al. (2010), Patrick, R. et al. (1970).
76. *Synedra isabelae* var. *isabelae* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Patrick, R. et al. (1970).
77. *Synedra isabelae* var. *minor* Patrick
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: Native, Endemic.
Galapagos Distribution: Unknown.
References: Patrick, R. et al. (1970).
78. *Triceratium tripos* Cleve
Taxon status: Accepted name; taxon occurs in Galapagos.
Galapagos Distribution: Unknown.
References: Cleve, P.T. et al. (1881), Guiry, M.D. et al. (2010).
79. *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: Unknown.
References: Guiry, M.D. et al. (2010), Seddon, A.W.R. et al. (2011).

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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.