

CDF Checklist of Galapagos True slime molds (plasmodial, dictyostelid and protostelid)

Frank Bungartz

Last updated: 03 Jan 2013

Abstract

This Checklist of Galapagos True slime molds (plasmodial, dictyostelid and protostelid) includes a total of all 56 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 True slime molds (plasmodial, dictyostelid and protostelid) currently known.

The phylum **Myxomycota** includes the plasmodial or acellular slime molds.

Previously believed to be fungi, slime molds are a diverse group of heterotrophic amoeboid organisms that feed on organic matter.

Slime molds are known to be quite diverse in terrestrial habitats rich in detritus. They are best studied in temperate areas of the Northern Hemisphere, thus tropical slime molds remain poorly known.

In Galapagos, only a single species has been reported.

Methods

This checklist of all known Galapagos True slime molds (plasmodial, dictyostelid and protostelid) 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Species Checklists represent the synthesis of many different records: literature citations, data from previously unpublished reports (grey literature), specimen records of natural history collections located in Galapagos and all over the world.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: 56 (52 accepted, 2 unidentified taxon, 2 preliminary identification).

1. *Acryria affinis* Rostaf.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

2. *Arcyria cinerea* (Bull.) Pers.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).

3. *Arcyria denudata* (L.) Wettst.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

4. *Badhamia affinis* Rostaf.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).

5. *Badhamia gracilis* (T. Macbr.) T. Macbr.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).
6. *Ceratiomyxa fruticulosa* (O.F. Müll.) T. Macbr.
Taxon status: Identification not yet confirmed.
Origin: No Data.
Galapagos Distribution: Santa Cruz.
References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983).
7. *Clastoderma debaryanum* A. Blytt
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).
8. *Collaria elegans* (Racib.) Dhillon & Nann.-Bremek.
Taxon status: Accepted name; taxon occurs in Galapagos.
Syn.: *Comatricha elegans* (Racib.) Lister
Origin: No Data.
Galapagos Distribution: Unknown.
References: Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).
9. *Collaria rubens* (Lister) Nann.-Bremek
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
10. *Craterium leucocephalum* (Pers.) Ditmar
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Bonar, L. et al. (1939), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Reid, D.A. et al. (1980).
11. *Craterium leucocephalum var. scyphoides* (Cooke & Balf. f. ex Masee) G. Lister
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Lister, A. et al. (1911).

12. *Cribraria cancellata* (Batsch) Nann.-Bremek
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
13. *Cribraria languescens* Rex
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).
14. *Cribraria tenella* Schrad.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
15. *Cribraria violacea* Rex
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).
16. *Diachea leucopodia* (Bull.) Rostaf.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Bonar, L. et al. (1939), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Reid, D.A. et al. (1980).
17. *Diderma chondrioderma* (de Bary & Rostaf.) Kuntze
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
18. *Diderma effusum* (Schwein.) Morgan
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

19. *Diderma hemisphaericum* (Bull.) Hornem
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
20. *Diderma platycarpum var. berkeleyanum* Nann.-Bremek.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
21. *Diderma rimosum* Eliasson & Nann.-Bremek.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
22. *Diderma scabrum* Eliasson & Nann.-Bremek.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
23. *Didymium clavus* (Alb. & Schwein.) Rabenh.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
24. *Didymium floccosum* G.W. Martin, K.S. Thind & Rehill
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
25. *Didymium karstensii* Nann.-Bremek.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
26. *Didymium listeri* Masee
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

27. *Didymium nigripes* (Link) Fr.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

28. *Didymium squamulosum* Fuckel

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

29. *Didymium verrucisporum* A.L. Welden

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

30. *Echinostelium minutum* de Bary

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).

31. *Fuligo septica* (L.) F.H. Wigg.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

32. *Hemitrichia calyculata* (Speg.) M.L. Farr

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

33. *Hemitrichia serpula* (Scop.) Rostaf.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

34. *Lamproderma scintillans* (Berk. & Broome) Morgan
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
35. *Licea operculata* (Wingate) G.W. Martin
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
36. *Lycogala epidendrum* (J.C. Buxb. ex L.) Fr.
Taxon status: Identification not yet confirmed.
Origin: No Data.
Galapagos Distribution: Santa Cruz.
References: Eliasson, U. et al. (1983), Reid, D.A. et al. (1980).
37. *Macbrideola cornea* (G. Lister & Cran) Alexop.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
38. *Metatrichia vesparium* (Batsch) Nann.-Bremek. ex G.W. Martin & Alexop.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
39. *Perichaena chrysosperma* (Curr.) Lister
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).
40. *Perichaena corticalis* (Batsch) Rostaf.
Taxon status: Accepted name; taxon occurs in Galapagos.
Origin: No Data.
Galapagos Distribution: Unknown.
References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).
41. *Perichaena depressa* Lib.
Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).

42. *Perichaena vermicularis* (Schwein.) Rostaf.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).

43. *Physarella oblonga* (Berk. & M.A. Curtis) Morgan

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

44. *Physarum aeneum* (Lister) R.E. Fr.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

45. *Physarum bivalve* Pers.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

46. *Physarum bogoriense* Racib.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Bonar, L. et al. (1939), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Reid, D.A. et al. (1980).

47. *Physarum compressum* Alb. & Schwein.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

48. *Physarum crateriforme* Petch

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

49. *Physarum melleum* (Berk. & Broome) Massee

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

50. *Physarum nutans* Pers.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

51. *Physarum sp.*

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

Origin: No Data.

Galapagos Distribution: Santa Cruz.

52. *Physarum stellatum* (Massee) G.W. Martin

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010).

53. *Stemonitis fusca* Roth

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Bonar, L. et al. (1939), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Reid, D.A. et al. (1980).

54. *Stemonitis pallida* Wingate

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Martin, G.W. et al. (1948), Reid, D.A. et al. (1980).

55. *Stemonitis sp.*

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

Origin: No Data.

Galapagos Distribution: Santa Cruz.

56. *Stemonitis splendens* Rostaf.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: No Data.

Galapagos Distribution: Unknown.

References: Bonar, L. et al. (1939), Eliasson, U. et al. (1971), Eliasson, U. et al. (1983), Kirk, P. (ed.) et al. (2010), Reid, D.A. et al. (1980).

Acknowledgements

We are grateful for the financial report received for this project. Please refer to the website (www.darwinfoundation.org/datazone/checklist/) for a detailed list of all our donors.

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

References

1. Bonar, L. (1939) *Fungi from the Galápagos and other Pacific coastal islands* Proc. Calif. Acad. Sci., Ser. 4, 22, 195-206
2. Eliasson, U. (1971) *A collection of myxomycetes from the Galápagos Islands*. Svensk Bot. Tidskr. 65, 105-111
3. Eliasson, U., Nannenga-Bremekamp, N.E. (1983) *Myxomycetes of the Scalesia forests in the Galapagos Islands, Ecuador*. Mycology Proceedings C 86(2): 143-153.
4. Kirk, P. (ed.) (2010) *Index Fungorum*. CABI Bioscience, CBS and Landcare Research, available online at www.indexfungorum.org.
5. Lister, A. (1911) *A monograph of the Mycetozoa* Ed. 2 (revised by G. Lister). London
6. Martin, G.W. (1948) *Additions to Galápagos Fungi* Pacific Science 11(2):71-77
7. Reid, D.A., Pegler, D.N., & Spooner, B.M. (1980) *An Annotated List of the Fungi of the Galápagos Islands*. Kew Bulletin 35(4): 847-892.

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.