An annotated checklist of myxomycetes from the Seychelles Islands, Indian Ocean

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Keywords: Amoeboza, biodiversity, island myxomycetes, plant substrates, species inventory, tropics.

Abstract

The checklist provided herein contains 143 species and infra-specific taxa of myxomycetes representing six orders, 12 families and 29 genera known from the Seychelles Islands. These records are the result of 878 field collections and 468 samples processed with the use of the moist chamber technique. The overall study involved expeditions to the granitic group of islands Mahé, Praslin, La Digue, Curieuse, Félicité, and data from the literature for the coral Aldabra atoll. The taxonomic structure of the myxomycete biota for the islands studied indicates a predominance of members of the order Physarales (74 taxa). The main genera are Physarum (38 species and two varieties), Didymium (17 species), Cribraria (11 species), Argyria (eight species) and Stemonitis (six species and two varieties). For all six islands only a single species of myxomycete (Physarum crateriforme) was shared in common. For the total assemblage of species recorded from all of the islands, 4% species were abundant, 12% species were common, 29% were found occasionally, 42% were rare, and 13% species had only a single record. The most abundant species were Argyria cinerea, A. de-
nudata, Diderma effusum, Hemitrichia calyculata, Physarum compressum, and *P. melleum*. Based on data from 50 different localities with 90 collecting plots, 32% of all specimens were associated with coastal vegetation, 30% with lowland localities, 19% with intermediate forests, 9% with riverine forests, 8% with mountain forests, and only 2% with mangrove swamps. In general, this annotated checklist clearly shows that isolated tropical islands can support a diverse assemblage of myxomycetes.

Introduction

Although a few studies of the myxomycetes of particular islands have been carried out by authors (e.g., Adamonyte et al. 2011, Macabago et al. 2012, 2016, 2017, Kryvomaz et al. 2017, 2020, Stephenson & Stephenson 2019, 2020), there is still not enough information available on myxomycetes to address some of the fundamental questions relating to such things as long-distance dispersal and gene flow as they relate to these organisms. The primary purpose of the expeditions described in this paper was to contribute to the body of data available on the island biogeography of myxomycetes. The annotated checklist provided herein contains the result of expeditions to the granitic group of islands in the Seychelles during the period of 2011-2016. There were three expeditions to La Digue, two expeditions to the Mahé, and one expedition each to Praslin, Curieuse and Félicité. In addition to the records obtained a result of these expeditions, myxomycete reported in the literature from the coralline Aldabra atoll were included in the checklist (Ing & Hnatiuk 1981).

Materials and methods

The Seychelles archipelago consists of 115 granitic and coral islands near the equator in the Western Indian Ocean between Africa and Asia (Fig. 1). The largest island is Mahé (142 km²), which reaches an elevation of 905 m at Morne Seychellois, where expeditions took place in October 2011 and in June 2016. Myxomycetes were studied on Praslin (elevation 367 m, 38 km²) in June-July 2015. There were three expeditions to La Digue (elevation 333 m, 10 km²), which took place in July 2015, in January 2016 and July 2016. Some additional material was collected on two small islands with limited access. These were Curieuse (2.9 km²) in June 2015 and Félicité (2.68 km²) in July 2016.

The climate of the Seychelles is a warm and rather constant humid tropical type with a strong maritime influence (Stoddart 1984). The year can be divided into two main seasons – the rainy season that runs from October to April and the Southeast Monsoon which extends from May to October. The driest period lasts from June to August (Hansen & Laboudallon 2013).

The native flora of the Seychelles includes elements of African, Madagascan and Indo-Malaysian origin, 34% of which are thought to be endemic to the Seychelles (Fleischmann et al. 2003). The primary natural vegetation types of the Seychelles are the coastal plateau, coastal and lowland forests, mangrove forests, riverine forests, intermediate forests, mountain mist forests and the glacis type vegetation (Merlin et al. 2012). The plots where collecting was carried out during expeditions were selected with a consideration these basic types of vegetation.

In the coastal vegetation (CV) type, most plants of the plants present along the coast are species common to the shores of most tropical islands. The coastal forest is found along the edges of sandy beaches and also on the granite coasts. The dominant species are *Calophyllum inophyllum* L., *Scaevola taccada* (Gaertn.) Roxb., *Cordia subcordata* Lam., *Hibiscus tiliaceus* L. and *Cocos nucifera* L. (Fleischmann et al. 2003). The indigenous takamaka (*Calophyllum inophyllum*) can be found up to 300 m above sea. Numerous lianas grow near the coasts, with such species as *Ipomoea carica* Sweet and *I. macrantha* Roem. & Schult. (Hansen & Laboudallon 2013). Also near sea level are mangrove swamps (MS) dominated by *Avicennia marina* (Forssk.) Vierh. and *Rhizophora mucronata* Lam. (Fleischmann et al. 2003).

The lowland forests (LF) originally covered the mountain slopes up to about 200–300 m above sea.
Fig. 1. Map of the Seychelles with collecting localities indicated by numbers and circles (details are provided in the Materials and Methods section). a: The Seychelles on a world map, b: The Seychelles inner islands (the granitic group), c: Mahé, d: Praslin, e: LaDigue, f: Curieuse, g: Félicité.
level, but in the present study low elevation localities were considered to be those no more than about 90 m above sea level (Hill 2002). The species of plants present are not dispersed by ocean currents as is the case for many coastal species. The primary lowland flora was apparently composed partly of endemic species as well as indigenous species more widespread on islands in the Indian Ocean (Fleischmann et al. 2003). In drier and less accessible localities, the endemic Deckenia nobilis H.Wendl. ex Seem. is often a dominant species (Hansen & Laboudallon 2013).

Most of the remaining riverine forests (RF) in the Seychelles are composed of palm trees and vegetation along rivers that has been greatly affected by human activities. There also seems to be a constant association of Martellidendron hornei (Balf.f.) Callm. & Chassot (Fleischmann et al. 2003). Lowland and coastal localities examined included beach vegetation, beach fringes along roadsides, muddy coastal areas with mangroves present, coastal sunny exposed scrublands, rocky or sandy woodlands, wet lowland shady forests, woodlands in wet river beds, semi-humid slope forests, vegetation near habitats, and recreation areas, public parks and gardens, and agricultural land.

The intermediate forest (IF) zone of the Seychelles extends from 200 to 500 m, but in this study it was considered to range from 90 to 300 m above sea level. These forests are rich in species and have a high canopy, occasionally reaching up to 30–40 m (Franda 2019). On drier sites the intermediate forests are largely dominated by the endemic palm trees. Palms were of only minor importance in the forests of the more humid type (Merlin et al. 2012). The studied mid-elevations localities included humid forests with a considerable amount of plant remains in moist forests, on dryer sunny exposed rocky areas, open scrublands, sunny exposed woodland, slopes with red soil in association with broken ferns, public parks or plant remains in reserves, semi-humid woodlands near habitats, and agricultural land or old plantations.

The mountain forests (MF) originally covered most of the land above 400–500 m in the Seychelles. The highest peak in the Seychelles is Morne Seychellois (914 m) in the central portion of Mahé (Hansen & Laboudallon 2013). This elevation range included high elevation rain forests, hygrophile and moist forest. The vulnerable endemic Northea hornei is typical of this type of forest (Merlin et al. 2012). The mountain mist forest is rich in mosses, lichens, filmy ferns and epiphytic orchids. Large trees can still be found at undisturbed sites at higher elevations, indicating that the canopy previously reached a height of at least 15 m. In the original forests at higher elevations, endemic species dominated the vegetation (Fleischmann et al. 2003).

In total, 50 different localities with 90 collecting plots were subjected to some sampling. At each locality, the microhabitats in which myxomycetes are known or suspected to occur were examined systematically. Each plot was representative of a particular type of forest community of the main vegetation types of the Seychelles with respect to both vegetation and site conditions and consisted of a relatively homogeneous unit of vegetation located in an area of essentially uniform topography. Sampling was repeated to obtain a series of substrate samples of each type following the procedure described by Stephenson & Rojas (2017).

List of localities:

Mahé: LOC. 1: 13-X-2011, Glacis district, Anse Nord d’Est, CV, alt. 3 m, -4.56995, 55.45791. LOC. 2: 27-VI-2016, Bel Ombre district, Anse Major trail, LF, alt. 55 m, -4.61883, 55.39717. LOC. 3: 14-X-2011, Port Glaud district, Anse Souillac, Cap Ternay road, CV, alt. 8 m, -4.64706, 55.39124. LOC. 4: 14-X-2011, Port Glaud district, Port Launay, Morne Seychellois National Park, LF, alt. 20 m, -4.65145, 55.40004. LOC. 5: 10-X-2011, Port Glaud, Port Launay road, Port Glaud district, CV, alt. 3 m, -4.66255, 55.41265. LOC. 6: Morne Seychellois mountain, Sans Soucis road: A: 26-VI-2016, Mont Fleuri district, IF, alt. 223 m, -4.63482, 55.45009; B: 30-VI-2016, Port Glaud district, Tea factory, MF, alt. 399 m, -4.66247, 55.43767; C: 09-X-2011, MF, alt. 420 m, -4.65595, 55.44597; D: 29-VI-2016, Bel Air district, Salazie trail, MF, alt. 430 m, -4.65283, 55.44862; E: 26-VI-2016, Port Glaud district, MF, alt. 448 m, -4.65401, 55.44518; F: 26-VI-2016, Port Glaud district, MF, alt. 458 m, -4.65298, 55.44498; G: 30-VI-2016, Port Glaud district, Morne Blanc trail, MF, alt.
<table>
<thead>
<tr>
<th>Loc.</th>
<th>Date</th>
<th>Location</th>
<th>Altitude</th>
<th>Coordinates</th>
</tr>
</thead>
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<td>11-X-2011</td>
<td>Boileau district, Anse Anse Boileau, West coast road, LF</td>
<td>458 m</td>
<td>-4.65937, 55.43747</td>
</tr>
<tr>
<td>8</td>
<td>28-VI-2016</td>
<td>Grand' Anse district, National Biodiversity Centre</td>
<td>111 m</td>
<td>-4.36009, 55.78304</td>
</tr>
<tr>
<td>9</td>
<td>25-VI-2016</td>
<td>La Reserve trail, IF, alt. 245 m</td>
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<td>60 m</td>
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<td>Anse Lazio to Anse Lemuria, Savoy state Land, LF</td>
<td>40 m</td>
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<tr>
<td>21</td>
<td>8-VII-2015</td>
<td>Anse Kerlan, IF, alt. 39 m</td>
<td>9 m</td>
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<tr>
<td>25</td>
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</tr>
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<tr>
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<tr>
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<tr>
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<td>Vallée de Mai, IF, alt. 305 m</td>
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</tr>
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</table>
The identification of the vegetation was carried out using the book "Flora of the Seychelles" by Hansen & Laboudallon (2013), with some references to the website http://www.seychellesplantgallery.com. Authors of scientific names of plants were provided when a species was mentioned for the first time.

Field collecting (FC) of specimens of myxomycetes and samples for preparation of moist chamber (MC) cultures were carried out at each locality during the rainy and dry seasons by Kryvomaz and Michaud. MC cultures were prepared with samples of various substrates such as the bark of living trees, aerial litter and ground litter by Stephenson and Michaud. Samples consisting of substrate material were placed on filter paper in Petri dishes. Distilled water adjusted to pH 7.0 was added to each Petri dish, and what had become a moist chamber culture was maintained under diffuse daylight and at room temperature (22–23 °C). Water was added every few days as required to maintain moist conditions for the entire observation period of up to three months. The pH of each moist chamber culture (taken at 24 hours) was recorded in all instances by Stephenson. Samples were examined with the use of a high-magnification Zeiss Axiosstar dissecting microscope every day for the first two weeks and subsequently every 2–3 days for the entire period of observation. Mature fruiting bodies were removed when present and placed in small pasteboard boxes for permanent storage. A species recorded from one moist chamber culture was regarded as a single specimen, irrespective of the number of fruiting bodies appearing or the number of days separating their appearance. Myxomycete abundance was classified according to the ACOR scale based upon the proportion of a species to the total number of records for each survey: A – abundant (> 3%), C – common (> 1.5–3%), O – occasional (≥ 0.5–1.5%), R – rare (< 0.5%) (Stephenson et al. 1993).

Determination of specimens were made with the use of "Les Myxomycètes" (Poulain et al. 2011). Nomenclatural treatment follows Nomenmyx (Lado 2005–2020) with the exception of infra-specific taxa of myxomycetes, as noted in "Les Myxomycètes" (Poulain et al. 2011). All microscopic measurements and observations were made with material mounted in water and a solution of sodium hexametaphosphate. All photographs reproduced in this paper were taken by Michaud. The light photomicrographs were...
obtained using an Olympus TG3 on a Carl Zeiss Axiosstar microscope with the Zeiss Acroplan 40x, 100x, 400x, 630x, and 1000x lenses. Macrophotographs of myxomycetes were taken with an Olympus TG3 and a Nikon D70 camera mounted on a Nikon PB6 bellows, with an AF Micro Nikkor 60 mm or Nikon AF Nikkor 28 mm lens used in conjunction with an inversion ring along with a Nikon SB-26 flash for supplemental lighting. Photographs of plants were taken in situ with a Nikon D5300 with a lens Nikon AF-S Nikkor 28–300mm 1:3.5–5.6 G-ED VR, a DMC Panasonic TZ20, and an Olympus TG3. The permanent collection of specimens collected in the Seychelles is preserved in the publicly available herbarium of the University of Arkansas (UARKs), and the private herbaria of Michaud in France and Kryvomaz in the Ukraine.

Results

A total of 143 species and infra-specific taxa of myxomycetes from the Seychelles are listed in the annotated checklist provided herein. These records are based on 878 field collections and 468 samples processed using the moist chamber method as result of expeditions to granitic group of islands Mahé, Praslin, La Digue, Curieuse, Félicité. The checklist also includes the data from the literature for the coraline Aldabra atoll (Ing & Hnatiuk 1981). The specimens are listed first by genus and then by species in alphabetical order. Details of collecting localities and data are given in the Material and Methods section, so only the numbers of the locality are provided. In order to save space, the types of information associated with each specimen are abbreviated as follows: FC – field collection, MC – moist chamber (species obtained in moist chamber cultures in the laboratory), cp – collecting plots, ps – plant substrate species, A – abundant, C – common, O – occasional, R – rare, S – singleton record, Loc – locality. Names of plant substrates are given with authors only for the first mention of the plant in questions. The type of substrates is abbreviated as follows: ar – aerial litter, which includes dead plant parts still attached to living trees, and also epiphytic or parasitic plants on trees; b – bark of trees or stem surface of palms; gl - ground litter, plant remains; w – wood (trunks, stumps, big branches) and big stem of palms;* – living plant, † – dead or decaying substrates. Specimens cited herein are deposited in the herbarium of the University of Arkansas, Fayetteville, USA under the acronym SLS, which refers to Stephenson, as well as in the private collections of Michaud (AM) and Kryvomaz (TK).

Arcyria cinerea (Bull.) Pers. (Granitic islands: 95 FC, 62 MC, 50 cp, 30 ps. A)

w & b' Calophyllum inophyllum, AM2775, TK2190.  
**LOC. 22A:** w' Terminalia catappa, AM2790, TK2047.  
**LOC. 22B:** b' Casuarina equisetifolia L., SLS26761 (pH 5.7), SLS32222 (pH 5.4).  
**LOC. 22C:** b' Dillenia furruginea (Baillon) Gilg, SLS23334 (pH 5.5).  
ar' Leucaena leucocephala (Lam.) de Wit., SLS26888 (pH 6.2).  
ar* Vanilla planifolia Jacks. ex Andrews., SLS26781 (pH 5.6), SLS32158 (pH 6.5).  
**LOC. 22D:** w' Cinnamomum verum J. Presl, AM2744, TK2080.  
**LOC. 22E:** w' Calophyllum inophyllum, AM2722, TK2052.  
**LOC. 22F:** w' Artocarpus heterophyllus Lam., AM2731, TK2067.  
**LOC. 23:** gl' Dillenia furruginea (pH 6.3), ar' Lodoicea maldivica (J.F. Gmelin) Persoon, (pH 6), w'.  
AM2747, TK2102.  
**LOC. 24:** w' Casuarina equisetifolia, AM2762, TK2169.  
**LOC. 25A:** ar' Pandanus balfourii, SLS26831 (pH 6.1), SLS26843 (pH 6.7).  
**LOC. 25C:** ar' Passiflora foetida L., SLS26964 (pH 6.6).  
ar' Syngonium podophyllum, SLS27764 (pH 7).  
**LOC. 27C:** ar' Cocos nucifera, SLS32194 (pH 7.9).  
**LOC. 28A:** w' Calophyllum inophyllum, AM2931, TK2479.  
**LOC. 29:** ar' Cocos nucifera, SLS26814 (pH 5).  
**LOC. 31A:** b' Terminalia catappa, AM2851, TK2362.  
**LOC. 31B:** b' Cocos nucifera, AM2901, TK2436.  
**LOC. 34C:** w' Falcataaria moluccana (Miq.) Barneby & J.W. Grimes, AM2997, TK2581.  
**LOC. 35:** ar* Epipremnum pinnatum, AM3901, TK2421.  
**LOC. 35:** w' Terminalia catappa, AM2888, TK2417.  
**LOC. 36:** w & b' Terminalia catappa, AM3220, TK2772.  
**LOC. 37C:** b* Artocarpus heterophyllus, SLS32432 (pH 7).  
b* Calophyllum inophyllum, SLS26768 (pH 6), b' Chrysobalanus icaco (L.) L., SLS26935 (pH 4.6), SLS26838 (pH 4.8).  
**LOC. 37M:** w' AM2873, TK2398.  
**LOC. 38A:** w' Cinnamomum verum, AM2904, TK2440.  
**LOC. 38B:** ar' Ipomoea sp., SLS29864 (pH 7.3).  
ar' Musa sp., SLS26985 (pH 6.2), SLS26676 (pH 6.3), SLS32157 (pH 6.2), SLS26361 (pH 7.4), SLS26587 (pH 7.4).  
**LOC. 39A:** ar' Musa sp., SLS27774 (pH 7.2), SLS32150 (pH 6.9), SLS26999 (pH 7.5).  
w' Terminalia catappa, AM3206, TK2745.  
**LOC. 39B:** w' Calophyllum inophyllum, AM2980, AM2983, TK2552, TK2555.  
**LOC. 39C:** w' Calophyllum inophyllum, AM2973, TK2543.  
**LOC. 40C:** w' Calophyllum inophyllum, AM2921, TK2465.  
**LOC. 41A:** ar' Cocos nucifera, SLS28564 (pH 7.1).  
ar' Syngonium podophyllum, SLS29384 (pH 6.2).  
**LOC. 42B:** w' Calophyllum inophyllum, AM2942, AM2946, TK2502, TK2508.  
w' Calophyllum inophyllum, AM2949, TK2511.  
w' Calophyllum inophyllum, AM2967, TK2534.  
**LOC. 43:** w & b' Thespesia populnea (L.) Sol. ex Corrêa., AM2937, AM2938, TK2490, TK2492.  
gl' Thespesia populnea, AM3155, TK2583.  
**LOC. 44:** ar' Leucaena leucocephala, SLS32453 (pH 6), SLS26794 (pH 6.3).  
**LOC. 45c:** ar' Lantana camara L., SLS32327 (pH 7.2), SLS32330 (pH 6.2), SLS32456 (pH 7.1), SLS26864 (pH 7.1).  
**LOC. 47A:** ar' Phoenixphorium borsigianum, SLS27777 (pH 4.5), SLS26798 (pH 6).  
**LOC. 48:** ar' Cocos nucifera, SLS23874 (pH 6.2), b* Thespesia populnea, SLS26685 (pH 7.1).  

**A. denudata** (L.) Wettt. (Granitic islands: 40 FC, 3 MC, 19 cp, 8 ps. A)  

Alabdara atoll 1: gl+ Cocos sp. 3 gatherings (Ing & Hnatiuk 1981).  
**LOC. 3:** ar' SLS26756 (pH 8.2).  
**LOC. 6G:** w' Tabebuia pallida, AM3151, TK3021.  
**LOC. 9:** w' Cinnamomum verum, AM3052, TK2803.  
w' Swietenia macrophylla, AM3042, AM3051, TK2790, TK2801.  
**LOC. 20:** w' & b' Calophyllum inophyllum, AM2774, TK2189.  
**LOC. 27A:** w' Terminalia catappa, AM2890, TK2423.  
**LOC. 27B:** w' Cinnamomum verum, AM3171, TK2632.  
**LOC. 29:** ar' Cocos nucifera, SLS32502 (pH 4.7).  
**LOC. 39A:** w' Cocos nucifera, SLS32502 (pH 4.7).  
**LOC. 22B:** b* Casuarina equisetifolia, SLS32217 (pH 5.4).  
**LOC. 22G:** w' Calophyllum inophyllum, AM2725, TK2059.  
**LOC. 37A:** w' Calophyllum inophyllum, AM3199, TK2742.  
**LOC. 37C:** w' & b' Calophyllum inophyllum, AM3181, TK2700.  
**LOC. 37G:** w' Calophyllum inophyllum, AM3197, TK2734.  
**LOC. 37K:** w' Calophyllum inophyllum, AM3195, TK2669.  
w' Cinnamomum verum, AM3193, TK2667.  
**LOC. 37P:** b' Cinnamomum verum, AM2856, TK2370.  
w' Falcataaria moluccana, AM2995, TK2579.  
**LOC. 38A:** w' & b' Cinnamomum verum, AM2909, TK2446.  
**LOC. 39A:** w' Terminalia catappa, AM3212, TK2746.  
**LOC. 40C:** w' Calophyllum inophyllum, AM2918, TK2460.  
**LOC. 41B:** w' Calophyllum inophyllum, AM2970, TK2540.  
**LOC. 45A:** w' Cinnamomum verum, AM3156, TK2587.  

**A. helvetica** (Meyl.) H. Neubert, Nowotny & K. Baumann (Granitic islands: 1 MC, 1 cp, 1 ps. S)  

**LOC. 17B:** b' Calophyllum inophyllum, SLS324995 (pH 6.1).  

**A. incarnata** (Pers. ex J.F. Gmel.) Pers. (Granitic islands: 1 MC, 1 cp, 1 ps. R)  

**LOC. 45B:** b* Casuarina equisetifolia, SLS32446 (pH 4.9).
A. insignis Kalchbr. & Cooke (Granitic islands: 14 FC, 1 MC, 7 cp, 4 ps. O)


A. marginoundulata Nann.-Bremek. & Y. Yamam. (Granitic islands: 1 MC, 1 cp, 1 ps. S)

LOC. 37D: b* Cinnamomum verum, SLS32354 (pH 5.3).

A. obvelata (Oeder) Onsberg (Granitic islands: 2 FC, 1 cp, 1 ps. R)

LOC. 42C: w' & b' Terminalia catappa, AM2961, TK2526.

A. pomiformis (Leers) Rostaf. (Granitic islands: 2 MC, 2 cp, 2 ps. R)

LOC. 22B: b* Casuarina equisetifolia, SLS32218 (pH 5.4). LOC. 45B: b*Casuarina equisetifolia, SLS32445 (pH 4.9).

Badhamia macrocarpa (Ces.) Rostaf. (Granitic islands: 2 MC, 2 cp, 2 ps. R)

LOC. 42C: w' & b' Calophyllum inophyllum, AM2957, TK2522. LOC. 43: b' Thespesia populnea, AM2934, TK2484.

Ceratiomyxa fruticulosa (O.F. Müll.) T. Maehr. (Granitic islands: 12 FC, 8 cp, 4 ps. O)


C. fruticulosa var. arbucula (Berk. & Broome) Nann.-Bremek. (Granitic islands: 8 FC, 3 cp, 3 ps. O)

LOC. 8: gl' Phoenicophorium borsigianum, AM3098, TK2913. LOC. 37E: w' Falcataria moluccana, AM2990-2, TK2574. LOC. 42C: w' & b' Terminalia catappa, AM2951, AM2963, TK2514, TK2528.

Clastoderma debaryanum A. Blytt (Granitic islands: 4 MC, 2 cp, 2 ps. O)

Aldabra atoll 1, 8: gl+ Cocos sp., 5 gatherings (Ing & Hnatiuk 1981). LOC. 29: ar' Cocos nucifera, SLS32210 (pH 4.7), SLS32213 (pH 4.5), SLS32218 (pH 4.7). LOC. 31C: b* Hernandia nymphaefolia (Presl.) Kubitzki, SLS32488 (pH 6.9).

Collaria arcyronema (Rostaf.) Nann.-Bremek. ex Lado (Granitic islands: 9 FC, 26 MC, 11 cp, 8 ps. C)

LOC. 2: ar' Agave angustifolia, SLS32347 (pH 6.5). LOC. 3: ar*, SLS26156 (pH 8.1), SLS26157 (pH 7.5), SLS26159 (pH 7.9), SLS26425 (pH 7.7), SLS26433 (pH 8.52), SLS26720 (pH 8.4), SLS26738 (pH 7.7), SLS26744 (pH 8.5), SLS26750 (pH 8.4), SLS26756 (pH 8.21), SLS26757 (pH 8.3), SLS26882 (pH 7.9), SLS26902 (pH 8.1), SLS26980 (pH 7.7). LOC. 6D: ar' Ipomoea cairica, SLS32378 (pH 6.7), SLS36778 (pH 6.9), SLS32395 (pH 6.8), SLS32398 (pH 7.1), SLS32394 (pH 7.1). LOC. 21D: ar' Epipremnum pinnatum, AM 2805. LOC. 21B: w' Terminalia catappa, AM2789-2, TK2214. LOC. 22C: b' Calophyllum inophyllum, AM2833. LOC. 37F: w' Falcataria moluccana, AM2859, TK2374. ar* Syngonium podophyllum, SLS26760 (pH 5.6), SLS26751 (pH 5.3), SLS26758 (pH 5.8). LOC. 39A: w' Terminalia catappa, AM3207, TK2748. LOC. 40C: w' & b' Cinnamomum verum, AM2923, TK2469. LOC. 42A: ar' Cocos nucifera, SLS2673 (pH 5.9). LOC. 48: b* Thespesia populnea, SLS26731 (pH 6.1), SLS26738 (pH 7.4).

Comatricha elegans (Racib.) G. Lister (Granitic islands: 2 MC, 2 cp, 2 ps. R)

LOC. 19: ar' Musa sp., SLS32492 (pH 7). LOC. 37C: b' Chrysobalanus icaco, SLS32459 (pH 4.83).

C. elegans var. microspora H. Marx, in Neubert, Nowotny & Baumann (Granitic islands: 2 FC, 1 cp, 1 ps. R)

LOC. 20: w' Calophyllum inophyllum, AM2786, TK2205.

C. laxa Rostaf. (Granitic islands: 2 MC, 2 cp, 2 ps. R)

LOC. 23: gl' Lodoicea maldivica, SLS32431 (pH 5.6). LOC. 37C: b* Cinnamomum verum, SLS32440 (pH 6.7).
C. pulchella (C. Bab.) (Granitic islands: 6 FC, 4 MC, 4 cp, 5 ps. O)

**LOC. 6D:** gl¹ Dianella ensifolia, SLS32466. ar* Ipomoea cairica, SLS32471 (pH 7.1). **LOC. 6G:** gl¹ Dillenia ferruginea, AM3137, TK2990. gl¹ Pandanus balfourii, AM3138, TK2993. **LOC. 37C:** ar* Cinnamomum verum, SLS32454 (pH 6), SLS32458 (pH 4.6).

C. intricata Schrad. (Granitic islands: 6 FC, 2 cp, 3 ps. O)

**LOC. 9:** w* & b* Cinnamomum verum, AM3057, TK2810, w* Swietenia macrophylla, AM3048, TK2797. **LOC. 42C:** w* Calophyllum inophyllum, AM2963, TK2529.

C. intricata var. dictydioides (Cooke & Balf.f.) Lister (Granitic islands; 24 FC, 10 cp, 6 ps. C)

**LOC. 6D:** w* Calophyllum inophyllum, AM3119, TK2942. **LOC. 6E:** w* Cinnamomum verum, AM3074, TK2838. **LOC. 16:** gl¹ Cocos nucifera, AM2161, TK75S. **LOC. 17:** w*, AM2145, TK59S. w* Nephrosperma vanhoutteanum Balf., AM2165, TK79S. **LOC. 31A:** w* Terminalia catappa, AM2850, TK2360. **LOC. 37B:** w* Calophyllum inophyllum, AM3177, TK2676. **LOC. 37I:** w* Falcataeria moluccana, AM2989, TK2567. **LOC. 39C:** w* Terminalia catappa, AM2976, TK2545. **LOC. 45A:** w* Calophyllum inophyllum, AM3157, TK2590, w* Cinnamomum verum, AM3157, TK2589.

C. tenerrima (M.A. Curtis) G. Lister (Granitic islands: 1 MC, 1 cp, 1 ps. S)

**LOC. 48:** b* Thespesia populnea, SLS32207 (pH 7.2).

*C* leucocephalum (Pers. ex J.F. Gmel.) Ditmar (R)

Aladabra atoll 14: gl¹ Mystroxylon sp., 2 gatherings (Ing & Hnatiuk 1981).

C. minutum var. bruneum (Nann.-Bremek.) L.G. Krieglst. (Granitic islands: 4 FC, 2 cp, 1 ps. R)

**LOC. 34B:** gl¹ Terminalia catappa, AM2898, TK2433. **LOC. 35:** w* & b* Terminalia catappa, AM2884, TK2414.

Cribraria aurantiaca Schrad. (Granitic islands: 2 FC, 1 cp, 1 ps, Fig. 2b. R)

**LOC. 37F:** w* Falcataeria moluccana, AM2860, TK2376.

C. cancellata (Batsch) Nann.-Bremek. (Granitic islands: 6 FC, 2 cp, 3 ps. O)

**LOC. 37I:** w* & b* Calophyllum inophyllum, AM3185, TK2674. w* & b* Cinnamomum verum, AM3183, TK2673. **LOC. 39A:** w* Terminalia catappa, AM3203, TK2749.

C. confusa Nann.-Bremek. & Y. Yamam. (Granitic islands: 2 MC, 2 cp, 2 ps. R)

**LOC. 23:** b* Erythroxylum sechellarum O. Schulz, SLS32414 (pH 4.2). **LOC. 37C:** b* Chrysobalanus ica-co, SLS32348 (pH 4.6).

C. minutum var. bruneum (Nann.-Bremek.) L.G. Krieglst. (Granitic islands: 4 FC, 2 cp, 1 ps. R)

**LOC. 34B:** gl¹ Terminalia catappa, AM2898, TK2433. **LOC. 35:** w* & b* Terminalia catappa, AM2884, TK2414.

C. confusa Nann.-Bremek. & Y. Yamam. (Granitic islands: 2 MC, 2 cp, 2 ps. R)

**LOC. 23:** b* Erythroxylum sechellarum O. Schulz, SLS32414 (pH 4.2). **LOC. 37C:** b* Chrysobalanus ica-co, SLS32348 (pH 4.6).

C. intricata Schrad. (Granitic islands: 6 FC, 2 cp, 3 ps. O)

**LOC. 9:** w* & b* Cinnamomum verum, AM3057, TK2810, w* Swietenia macrophylla, AM3048, TK2797. **LOC. 42C:** w* Calophyllum inophyllum, AM2963, TK2529.

C. intricata var. dictydioides (Cooke & Balf.f.) Lister (Granitic islands; 24 FC, 10 cp, 6 ps. C)

**LOC. 6D:** w* Calophyllum inophyllum, AM3119, TK2942. **LOC. 6E:** w* Cinnamomum verum, AM3074, TK2838. **LOC. 16:** gl¹ Cocos nucifera, AM2161, TK75S. **LOC. 17:** w*, AM2145, TK59S. w* Nephrosperma vanhoutteanum Balf., AM2165, TK79S. **LOC. 31A:** w* Terminalia catappa, AM2850, TK2360. **LOC. 37B:** w* Calophyllum inophyllum, AM3177, TK2676. **LOC. 37I:** w* Falcataeria moluccana, AM2989, TK2567. **LOC. 39C:** w* Terminalia catappa, AM2976, TK2545. **LOC. 45A:** w* Calophyllum inophyllum, AM3157, TK2590, w* Cinnamomum verum, AM3157, TK2589.

C. languescens Rex (R)

Aladabra atoll 8, 9: gl¹ Cocos sp., b*, 2 gatherings (Ing & Hnatiuk 1981).

C. lepida Meyl. (Granitic islands: 6 FC, 3 cp, 3 ps. O)

**LOC. 22A:** fungi on w* Terminalia catappa, AM2711, TK2050. **LOC. 43:** w* & b* Thespesia populnea, AM2936, TK2487. **LOC. 45A:** w* & b* Calophyllum inophyllum, AM3158, TK2592.

C. microcarpa (Schrad.) Pers. (Granitic islands: 4 FC, 5 MC, 7 cp, 5 ps. O)

Aladabra atoll 1: gl¹ Cocos sp., 1 gathering (Ing & Hnatiuk 1981). **LOC. 8:** b* Tabebuia pallida, SLS32407 (pH 6.2). **LOC. 9:** gl¹ Deckenia pallida, SLS32384 (pH 5.3). **LOC. 22B:** b* Calophyllum inophyllum, SLS32403 (pH 5.7). **LOC. 22G:** w* Calophyllum inophyllum, AM2726, TK2060. **LOC. 23:** gl¹ Dillenia ferruginea, SLS32486 (pH 6.3). **LOC. 36:** w* & b* Terminalia catappa, AM3217, TK2774. **LOC. 37C:** b* Calophyllum inophyllum, SLS32336 (pH 6.6).

C. pachydictyon Nann.-Bremek. (Granitic islands: 2 FC, 1 cp, 1 ps. R)

**LOC. 66:** w*, AM3134, TK2986.
C. tenella Schrad. (Granitic islands: 2 FC, 1 cp, 1 ps. R)  
**LOC. 40C:** w³ Cinnamomum verum, AM2925, TK2471.

C. violacea Rex (Granitic islands: 18 MC, 11 cp, 10 ps. C)  
Alldabra atoll 8, 15: gl¹ Cocos sp., b¹, 2 gatherings (Ing & Hnatiuk 1981). **LOC. 6A:** bº Tabebuia pallida, SLS32424 (pH 6.2). **LOC. 6D:** ar³ Ipomoea caricina, SLS32428 (pH 7.1). **LOC. 22D:** bº Artocarpus heterophyllus, SLS32226 (pH 7.33). **LOC. 22E:** bº Syzygium jambos L. (Alston), SLS32427 (pH 6.1). **LOC. 25B:** bº Cordia subcordata, SLS32208 (pH 7.2). **LOC. 25C:** ar³ Passiflora foetida, SLS32205 (pH 7.8). **LOC. 26:** bº Terminalia catappa, SLS32408 (pH 6.6), SLS32420 (pH 6.6). **LOC. 37C:** bº Calophyllum inophyllum, SLS32429 (pH 7.4). **LOC. 45D:** bº Cordia subcordata, SLS32402 (pH 5.6), SLS32325 (pH 6.6), SLS32338 (pH 6.6), SLS32340 (pH 6.6). **LOC. 47B:** bº Rhizophora mucronata, SLS32351 (pH 7.1). **LOC. 48:** bº Thespesia populnea, SLS32444 (pH 7.2), SLS32206 (pH 7.1), SLS32583 (pH 7.2), SLS32358 (pH 7.4).

Diachea bulbillosa (Berk. & Broome) Lister (Granitic islands: 6 FC, 3 cp. O)  
Alldabra atoll 1, 3: gl¹ Mystroxylon sp., Sideroxylon sp., Tournefortia sp., Tricalysia sp., 2 gatherings (Ing & Hnatiuk 1981). **LOC. 6C:** developed from yellow plasmodium on gl¹ Plumeria alba, AM2091, TKSS. **LOC. 13:** gl¹, AM2153, TK67S. **LOC. 18:** gl¹ Plumeria alba, AM2106, TK20S.

D. leucopodia (Bull.) Rostaf. (Granitic islands: 6 FC, 1 MC, 3 cp. 4 ps. O)  
Alldabra atoll 1, 4: gl¹ Casuarina equisetifolia, Lumnitzera sp., Mystroxylon sp., Terminalia catappa, 3 gatherings (Ing & Hnatiuk 1981). **LOC. 2:** gl¹ Tabebuia pallida, AM3088, TK2882, gl¹ Artocarpus altilis (Parkinson) Fosberg, AM3085, TK2878. **LOC. 18:** gl¹ Plumeria alba, AM2105, TK19S. **LOC. 37C:** ar³ Cinnamomum verum, SLS32339 (pH 4.6).

D. radiata G. Lister & Petch (R)  

Dictydiaethalium dictyosporum (Schumach.) Rostaf. (Granitic islands: 2 FC, 1 cp, 1 ps. R)  
**LOC. 39C:** w³ & b³ Terminalia catappa, AM2978, TK2547.

Diderma chondrioderma (de Bary & Rostaf.) Kuntze (Granitic islands: 22 FC, 10 MC, 15 cp, 11 ps. Fig. 2f. C)  
**LOC. 2:** gl¹ Artocarpus altilis, AM3077, TK2864. **LOC. 7:** ar³ Cocos nucifera, AM2112, TK26S. **LOC. 8:** moss on b³ Tabebuia pallida, AM3106, TK2923. moss on bº Phoenixicophorium borsigianum. AM3097, TK2912. **LOC. 11:** moss on bº Artocarpus altilis, AM2133, TK47S. moss on bº Artocarpus altilis with Physarum pusillum, AM2136, TK50S. **LOC. 12:** moss on bº, AM2120, TK34S. **LOC. 22C:** ar³ Calophyllum inophyllum, SLS32209 (pH 4.8). **LOC. 22B:** bº Calophyllum inophyllum, SLS32221 (pH 6.4). **LOC. 38B:** bº Artocarpus altilis, SLS32412 (pH 5.7). **LOC. 42C:** moss on bº Calophyllum inophyllum, AM2954, TK2517. **LOC. 43:** moss on bº Thespesia populnea, AM2934, TK2485. **LOC. 48:** bº Calophyllum inophyllum, SLS32212 (pH 5.9). bº Rhizophora mucronata, AM2834.

D. effusum (Schwein.) Morgan (Granitic islands: 32 FC, 19 MC, 24 cp, 13 ps. A)  
Alldabra atoll 1, 5, 10, 12, 13: gl¹ Acalypha sp., Maytenus sp., Mystroxylon sp., Pemphis sp., Sideroxylon sp., Tarenna supra-axillaris, Tricalysia sp., 12 gatherings (Ing & Hnatiuk 1981). **LOC. 6A:** gl¹ Dilenia suffruticos a(Griff ex Hook.f. & Thomson) Martelli, AM3060, TK2816. **LOC. 6C:** gl¹, AM2089, TK3S. **LOC. 6D:** gl¹ Calophyllum inophyllum, AM3115, TK2937. **LOC. 6E:** ar³ Nephelepis biserrata on Elaeis guineensis, SLS32332 (pH 6.4). bº Tabebuia pallida, SLS32369 (pH 6.4). **LOC. 6F:** gl¹, AM3065, TK2824. **LOC. 7:** On fallen small twig, AM2113, TK27S. **LOC. 8:** gl¹ Tabebuia pallida, AM3103, TK2918. **LOC. 18:** b³, AM2097, TK11S. **LOC. 21E:** gl¹ Adenanthera pavonina L., SLS32368 (pH 5.7), AM2806. **LOC. 22C:** ar³ Albostia macrophylla, SLS32355 (pH 6). gl¹ Phoenixicophorium borsigianum, SLS32401 (pH 5.3). **LOC. 22F:** gl¹ Calophyllum inophyllum, AM2732, TK2068.
**D. hemisphaericum** (Bull.) (Granitic islands: 6 MC, 5 cp, 5 ps, R)

Alabstra atoll 2, 10: gl* Acalypha sp., 2 gatherings (Ing & Hnatiuk 1981). **LOC. 2:** gl* Epipremnum pinnatum, SLS32288 (pH 5.8). **LOC. 37c:** gl* Cinnamomum verum, SLS32328 (pH 6). **LOC. 38b:** b* Artocarpus altilis, SLS32213 (pH 5.7), SLS32195 (pH 5.6). **LOC. 39a:** ar* Syngonium podophyllum, SLS32359 (pH 8.5). **LOC. 48:** gl* Cocos nucifera, SLS32371 (pH 5).

**D. rimosum** Eliasson & Nann.-Bremek. (Granitic islands: 4 FC, 2 cp, 1 ps, R)

**LOC. 6a:** gl*, AM3063, TK2821. **LOC. 37h:** gl* Calophyllum inophyllum, AM2863, TK2386.

**D. saundersii** (Berk. & Broome ex Masse) E. Sheld. (Granitic islands: 11 FC, 1 MC, 5 cp, 4 ps, Fig. 2c-d, O)

**LOC. 6e:** m oss on b* Cinnamomum verum, AM3075, TK2839. **LOC. 8:** gl*, AM3108, TK2927, gl*, AM3109, TK2929. **LOC. 39a:** b* Cocos nucifera, AM3208, TK2751. **LOC. 39b:** gl* Cocos nucifera, AM2987, TK2562. **LOC. 40b:** b* Calophyllum inophyllum, AM3903, TK2458.

**Didymium anello**s Morgan (Granitic islands: 3 MC, 3 cp, 3 ps, R)

Alabstra atoll 13: gl* Sideroxylon sp., 1 gathering (Ing & Hnatiuk 1981). **LOC. 22c:** ar* Cassytha filiformis L. over-growing on Prosopis juliflora, SLS32467 (pH 5.9). **LOC. 39a:** gl* Alocasia macrorhiza, SLS32381 (pH 6.6). **LOC. 48:** gl* Cocos nucifera, SLS32482 (pH 5.6).

**D. baihe**ns Gottsb. (Granitic islands: 2 FC, 2 MC, 3 cp, 3 ps, R)

**LOC. 20:** ar* Falcataria moluccan*, SLS32497 (pH 6.2). **LOC. 42c:** gl* Terminalia catappa, AM2943, TK2503. **LOC. 48:** gl* Cocos nucifera, SLS32356 (pH 5).

**D. clavus** (Alb. & Schwein.) Rabenh. (Granitic islands: 2 FC, 1 cp, 1 ps, R)

**LOC. 66:** gl* Cinnamomum verum, AM3135, TK2988.

**D. columellacavum** Hochg., Gottsb. & Nann.-Bremek. (Granitic islands: 24 FC, 9 cp, 6 ps, C)

**LOC. 2:** gl* Cinnamomum verum, AM3083, TK2874. **LOC. 6a:** ar* palm, AM3061, TK2818. **LOC. 6d:** gl* Artocarpus altilis, AM3117, TK2940. **LOC. 6f:** b* Nephrosperma vanhoutteanu m, AM3070, TK2834. **LOC. 66:** gl* Pandanus balfouri, AM3149, TK3018. gl*, AM3146, AM3147, AM3148, TK3007, TK3011, TK3015. **LOC. 8:** gl*, AM3107, TK2925. **LOC. 22f:** w* Cinnamomum verum, TK2743, TK2078. **LOC. 30:** gl* Mangifera indica L., AM2879, TK2407. **LOC. 42c:** gl* Calophyllum inophyllum, AM2966, TK2532.

**D. dubium** Rostaf. (Granitic islands: 1 MC, 1 cp, S)

**LOC. 3:** b*, SLS26429 (pH 8.3).

**D. eximium** Peck (S)

Alabstra atoll 7: gl* Mystroxylon sp., 1 gathering (Ing & Hnatiuk 1981).

**Didymium floccosum** G.W. Martin, K.S. Third & Rehill (S)

Alabstra atoll 1: b* Cocos sp., 1 gathering (Ing & Hnatiuk 1981).

**D. intermedium** J. Schrö. (R)

Alabstra atoll 1, 4, 16: w* & gl* Tricalysia sp., 4 gatherings (Ing & Hnatiuk 1981).

**D. iridis** (Ditmar) Fr. (Granitic islands: 16 MC, 9 cp, 10 ps, O)

**LOC. 19:** ar* Musa sp., SLS32474 (pH 6.9). **LOC. 22c:** gl* Dillenia ferruginea, SLS32478 (pH 5.5), ar* Leucaena leucocephala, SLS32437 (pH 6.4). ar* Va-
nilla planifolia, SLS32171 (pH 6.2). LOC. 23: ar' Lodoceca maidicifuga, SLS32452 (pH 6.6), SLS32493 (pH 6.5). LOC. 25A: ar' Pandanus balfouri, SLS32481 (pH 6.4). LOC. 37C: ar' Cinnamomum verum, SLS32462 (pH 6). LOC. 38B: gl' Calophyllum inophyllum, SLS32466 (pH 7.9). LOC. 39A: ar' Musa sp., SLS32421 (pH 6.9); SLS32431 (pH 7.2), SLS32439 (pH 7.5). LOC. 45C: ar' Lantana camara, SLS32464 (pH 6.2). LOC. 50: gl' Cocos nucifera, SLS32318 (pH 6.6), SLS32324 (pH 6.5), SLS32328 (pH 6.9).

**D. leoninum** Berk. & Broome (R)


**D. melanospermum** (Pers.) T. Machr. (S)


**D. minus** (Lister) Morgan (Granitic islands: 2 FC, 1 MC, 1 cp, 2 ps. R)


**D. nigripes** (Link) Fr. (Granitic islands: 14 FC, 2 MC, 6 cp, 4 ps. C)


**D. ochroleuroides** G. Lister (Granitic islands: 2 FC, 7 MC, 3 cp, 2 ps. O)

LOC. 2: ar' Cordyline fruticosa (L.) A. Chev., SLS32392 (pH 8.6). LOC. 3: b*, SLS26429 (pH 8.3), SLS26721 (pH 7.7), SLS26736 (pH 7.4), SLS26755 (pH 7.9), SLS26758 (pH 7.9), SLS26763 (pH 7.7). LOC. 34B: b' Alocasia macrorrhizos (L.) G. Don, AM2903, TK2438.

**D. ovoideum** Nann.-Bremek. (Granitic islands: 2 FC, 1 cp, 1 ps. R)

LOC. 6F: gl' Calophyllum inophyllum, AM3068, TK2828.

**D. squamulosum** (Alb. & Schwein.) Fr. & Palmquist (Granitic islands: 6 FC, 12 MC, 10 cp, 13 ps. C)


**D. verrucosum** A.L. Welden (Granitic islands: 2 FC, 1 cp, 1 ps. R)


**Echinostelium minutum** de Bary (Granitic islands: 10 MC, 9 cp, 9 ps. O)

LOC. 8: ar' Roscheria melanochaetes H. Wendl. SLS32411 (pH 4.8). LOC. 23: b* Erythroxylum schellerrum, SLS32421 (pH 4.2). LOC. 26: b* Terminalia catappa, SLS32406 (pH 6.6). LOC. 37D: b* Cinnamomum verum, SLS32385 (pH 5). b* Falcataira mollucana, SLS32422 (pH 6.9). LOC. 38B: b* Artocarpus altilis, SLS32214 (pH 5.7). LOC. 42A: b* Calophyllum inophyllum, SLS32373 (pH 5.5). LOC. 45B: b* Casuarina equisetifolia, SLS32430 (pH 4.9). LOC. 46: b* Calophyllum inophyllum, SLS32413 (pH 5.5). LOC. 47A: ar' Phoenicophilum borsigianum, SLS32346 (pH 5.6).

**E. paucifilum** K.D. Whitney (Granitic islands: 2 MC, 2 cp, 2 ps. R)

LOC. 24: b* Tabebuia pallida, SLS32437 (pH 5.7). LOC. 48: b* Calophyllum inophyllum, SLS32439 (pH 5.9).
**Fuligo cinerea** (Schwein.) Morgan (Granitic islands: 2 MC, 1 cp, R)  
**LOC.** 3: b*, SLS26738 (pH 7.7), SLS26161 (pH 8.4).

**F. septica** (L.) F.H. Wigg. (R)  
Aldabra atoll 1, 8: w’ *Casuarina* sp., gl* *Sporo*  
robolus sp., 4 gatherings (Ing & Hnatiuk 1981).

**F. septica** var. *candida* (Pers.) R.E. Fr. (Granitic islands: 8 FC, 4 cp, 3 ps, O)  
**LOC.** 2: w’ *Cinnamomum verum*, AM3082, TK2872.  
**LOC.** 3: ar*, AM2172-1, TK865.  
**LOC.** 23: gl* *Lodoicea* maldivica, AM2748, TK2103.  
**LOC.** 36: w’ & b’ *Terminalia catappa*, AM3214, TK2775.

**F. septica** var. *flava* (Pers.) Lázaro Ibiza (Granitic islands: 8 FC, 4 cp, 3 ps, O)  
**LOC.** 22B: w* & b* *Thepesia populnea*, AM2707, TK2028.  
**LOC.** 31A: w’ *Terminalia catappa*, AM2845, TK2355.  
**LOC.** 31B: w’ *Terminalia catappa*, AM2852, TK2364.  
**LOC.** 40D: w’ *Calophyllum inophyllum*, AM2947, TK2500.

**Hemitrichia calyculata** (Speg.) M.L. Farr (Granitic islands: 50 FC, 20 cp, 5 ps, A)  
Aldabra atoll 1, 8, 9: gl’ *Cocos* sp., 10 gatherings (Ing & Hnatiuk 1981).  
**LOC.** 2: w’, AM3086, TK2879.  
**LOC.** 3: b*, AM2177, TK91S.  
**LOC.** 6E: moss on w’ *Cinnamomum verum*, AM3076, TK2844.  
**LOC.** 6G: w’, AM3132, TK2983.  
**LOC.** 20: w’ *Calophyllium inophyllum*, AM2784, TK2204.  
**LOC.** 21C: w’ *Falcataria moluccana*, AM2764, TK2174.  
**LOC.** 22E: w’ *Calophyllum inophyllum*, AM2724, TK2053.  
**LOC.** 22F: w’ *Cinnamomum verum*, AM2738, TK2073.  
**LOC.** 30: w*, AM2882, TK2410.  
**LOC.** 31A: w’ *Terminalia catappa*, AM2846, TK2357.  
**LOC.** 35: w’ *Terminalia catappa*, AM2889, TK2418.  
**LOC.** 36: w’ *Terminalia catappa*, AM3221, TK2776.  
**LOC.** 37B: w’ *Calophyllium inophyllum*, AM3181, AM3188, AM3191, AM3196, TK2682, TK2683, TK2684, TK2685.  
**LOC.** 37E: w’ *Falcataria moluccana*, AM2990, TK2569.  
**LOC.** 37P: w’ *Falcataria moluccana*, AM2855, TK2369.  
**LOC.** 38A: w’ *Cinnamomum verum*, AM2905, TK2441.  
**LOC.** 39A: b’ *Cocos nucifera*, AM3209, TK2754.  
**LOC.** 40A: w’ *Terminalia catappa*, AM3202, TK2752.  
**LOC.** 40C: w’ & b’ *Terminalia catappa*, AM2912, TK2450.  
**LOC.** 42C: w’ *Calophyllium inophyllum*, AM2970, TK2535.

**H. minor** G. Lister (Granitic islands: 4 MC, 3 cp, 4 ps, R)  
**LOC.** 22B: b* *Calophyllium inophyllum*, SLS32220 (pH 6.4).  
**LOC.** 24: b* *Tabebuia pallida*, SLS32443 (pH 5.7).  
**LOC.** 37C: b* *Cinnamomum verum*, SLS32416 (pH 6.7).

**H. serpula** (Scop.) Rostaf. ex Lister (Granitic islands: 24 FC, 1 MC, 12 cp, 5 ps, C)  
Aldabra atoll 1: gl’ *Cocos* sp., 1 gathering (Ing & Hnatiuk 1981).  
**LOC.** 7: b* *Cocos nucifera*, AM2117, TK31S.  
**LOC.** 8: gl’ *Pandanus balfourii*, AM3104, TK2920.  
**LOC.** 10A: ar* *Cocos nucifera*, AM2124, TK38S.  
**LOC.** 19: b* *Phoenicophorium borsigianum*, AM2746, TK2086.  
**LOC.** 22B: ar’ *Cocos nucifera*, AM2708, TK2029.  
**LOC.** 25A: ar’ *Cocos nucifera*, AM2752, TK2124.  
**LOC.** 34B: b’ *Cocos nucifera*, AM2902, TK2437.  
**LOC.** 37C: ar’ *Cinnamomum verum*, SLS32400 (pH 6).  
**LOC.** 39A: ar’ & b* *Cocos nucifera*, AM3211, TK2755.  
**LOC.** 42A: w’ *Calophyllium inophyllum*, AM3163, TK2627.  
**LOC.** 45A: w’ *Calophyllium inophyllum*, AM3159, TK2594.  
**LOC.** 49: gl’ *Cocos nucifera*, AM2717, TK2239.

**Lamproderma scintillans** (Berk. & Broome) Morgan (Granitic islands: 14 MC, 6 cp, 7 ps, O)  
**LOC.** 2: ar’ *Agave angustifolia*, SLS26418 (pH 7.0).  
**LOC.** 3B*: SLS26422 (pH 7.3), SLS26160 (pH 8.53).  
**LOC.** 6E: ar’ *Ipomoea Cairica*, SLS26461 (pH 7.1).  
**LOC.** 21: ar’ *Epipremnum pinnatum*, SLS26171 (pH 7.4).  
**LOC.** 38B: gl’ *Calophyllium inophyllum*, SLS32181 (pH 7.7), SLS32195 (pH 8.2), SLS32176 (pH 6.3), SLS32178 (pH 6.31), SLS32179 (pH 6.67).  
**LOC.** 41A: ar’ *Syngonium Podophyllum*, SLS26169 (pH 6.2), SLS32183 (pH 6.2).

**Licea biforis** Morgan (Granitic islands: 1 MC, 1 cp, 1 ps, S)  
**LOC.** 48: b* *Calophyllium inophyllum*, SLS32417 (pH 5.9).

**L. kleistobolus** G.W. Martin (Granitic islands: 1 MC, 1 cp, 1 ps, S)  
**LOC.** 26: b* *Terminalia catappa*, SLS32411 (pH 6.6).
*L. minima* Fr. (Granitic islands: 1 MC, 1 cp, 1 ps. S)  
**LOC. 22E:** b* Syzygium jambos, SLS32418 (pH 6.1).

*L. operculata* (Wingate) G.W. Martin (Granitic islands: 2 MC, 2 loc, 2 ps. R)  
**LOC. 37C:** b* Falcataria mollucana, SLS32409 (pH 6.9). **LOC. 48:** b* Thespesia populnea, SLS32198 (pH 7.2).

*L. rufocuprea* Nann.-Bremek. & H.W. Keller (Granitic islands: 1 MC, 1 cp, 1 ps. S)  
**LOC. 48:** b* Thespesia populnea, SLS32985 (pH 7.2).

*L. scyphoides* T.E. Brooks & H.W. Keller (Granitic islands: 1 MC, 1 cp, 1 ps. S)  
**LOC. 23:** b* Erythroxylum sechellarum, SLS32448 (pH 4.2).

*Lycogala epidendrum* (L.) Fr. (Granitic islands: 16 FC, 8 cp, 4 ps. O)  
Alcadabra atoll 1: ar* Agave sp., 1 gathering (Ing & Hnatiuk 1981). **LOC. 6C:** w*, AM2087, TK1S. **LOC. 22G:** w* Artocarpus heterophyllus, AM2730, TK2065. **LOC. 27B:** w* Calophyllum inophyllum, AM3174, TK2635. **LOC. 37I:** w* Falcataria mollucana, AM2988-1, TK2566. **LOC. 39A:** w* Tabebuia pallida, AM3201, TK2757. **LOC. 41A:** w* Calophyllum inophyllum, AM2782, TK2339. **LOC. 41B:** w* Calophyllum inophyllum, AM2968, TK2538. **LOC. 42A:** w* Calophyllum inophyllum, AM3161, TK2628.

*L. exiguum* Morgan (Granitic islands: 4 FC, 2 cp, 2 ps. R)  
**LOC. 41B:** w* Calophyllum inophyllum, AM2969, TK2539. **LOC. 49:** w* Cocos nucifera, AM2716, TK2238.

*M. scintillans* H.C. Gilbert (Granitic islands: 1 MC, 1 cp, 1 ps. S)  
**LOC. 47B:** b* Rhizophora mucronata, SLS32393 (pH 7.5).

*Metatrichia vesparia* (Batsch) Nann.-Bremek. ex G.W. Martin & Alexop. (R)  
Alcadabra atoll 1, 8, 15: gl* Cocos sp., 5 gatherings (Ing & Hnatiuk 1981).

*Perichaena chrysosperma* (Curr.) Lister (Granitic islands: 16 MC, 13 cp, 10 ps. O)  
**LOC. 2:** gl* Cheilocostus speciosus, SLS32447 (pH 7). **LOC. 3:** b*, SLS26164 (pH 7.8). **LOC. 6D:** ar* Dioscorea sp., SLS32329 (pH 7.1). **LOC. 17B:** b* Calophyllum inophyllum, SLS32491 (pH 6.5). **LOC. 20:** ar* Syngonium podophyllum, SLS32340 (pH 7.7). **LOC. 22C:** ar* Leucaena leucocephala, SLS32498 (pH 6.2). **LOC. 22D:** b* Artocarpus heterophyllus, SLS32227 (pH 7.3). **LOC. 27B:** b* Calophyllum inophyllum, SLS32598 (pH 7), ar* Cocos nucifera, SLS32530 (pH 7.9). **LOC. 38B:** ar* Ipomoea sp., SLS32531 (pH 7.3). **LOC. 39A:** ar* Syngonium podophyllum, SLS32385 (pH 8.7). **LOC. 45D:** b* Cordia subcordata, SLS32321 (pH 6.7). SLS32345 (pH 6.6), SLS32349 (pH 6.6). **LOC. 48:** b* Thespesia populnea, SLS32200 (pH 7.1). **LOC. 50:** b* Cordia subcordata, SLS32419 (pH 6.7).

*P. corticalis* (Batsch) Rostaf. (Granitic islands: 2 FC, 1 cp. R)  
Alcadabra atoll 1: w*, 1 gathering (Ing & Hnatiuk 1981). **LOC. 10A:** gl* Cocos nucifera, AM2126, TK40S.

*P. depressa* Lib. (Granitic islands: 6 FC, 10 MC, 10 cp, 9 ps. O)  
Alcadabra atoll 16: w*, 1 gathering (Ing & Hnatiuk 1981). **LOC. 2:** w* & b* Cinnamomum verum, AM3081, TK2870. gl* & ar* Phoenicophorium borsigianum, SLS32350 (pH 5.7). **LOC. 6D:** ar* Dioscorea sp., SLS32371 (pH 7.1). **LOC. 24:** w* Cordia subcordata. AM2760, TK2167. **LOC. 37C:** ar* Cinnamomum verum, SLS32381 (pH 6.4). **LOC. 37M:** w*, AM2874, TK2399. **LOC. 38B:** gl* Calophyllum inophyllum, SLS32189 (pH 7.9). **LOC. 39D:** ar* Musa sp., SLS32134 (pH 7.5). **LOC. 45C:** ar* Lantana camara, SLS32170 (pH 7.2). **LOC. 45D:** b* Cordia subcordata, SLS32156 (pH 6.6). **LOC. 48:** gl* Cocos nucifera, SLS32360 (pH 6.8). b* Thespesia populnea, SLS32140 (pH 6.9), SLS32175 (pH 7.1).

*P. dictyonema* Rammeloo (Granitic islands: 18 MC, 5 cp, 4 ps. O)  
**LOC. 3:** b*, SLS26165 (pH 8.1), SLS26160 (pH
P. pedata (Lister & G. Lister) G. Lister ex E. Jahn (Granitic islands: 3 MC, 2 cp, 3 ps. R)

LOC. 25C: ar* Syngonium podophyllum, SLS26485 (pH 8.0), SLS26491 (pH 8.5), SLS26500 (pH 8.4), SLS26507 (pH 8.1), SLS26519 (pH 8.3), SLS26523 (pH 8.1), SLS26525 (pH 8.0).

LOC. 38B: gl* Calophyllum inophyllum, SLS32489 (pH 4.7).

LOC. 41A: ar* Cocos nucifera, SLS26178, TK2240.

P. atroviolaceum G. Moreno, Y. Yamam. & A. Castillo (Granitic islands: 2 FC, 1 cp, 1 ps. R)


P. auriscalpium Cooke (Granitic islands: 2 FC, 1 cp, 1 ps. R)

LOC. 7: b* Cocos nucifera, AM2108, TK225.

P. bethellii T. Macbr. ex G. Lister (Granitic islands: 2 FC, 1 cp, 1 ps. R)

LOC. 8: w* Phoenixichorium borsigianum, AM3099, TK2914.

P. bogoriense Racib. (Granitic islands: 12 FC, 5 cp, 4 ps. O)


P. cinereum (Batsch) Pers. (Granitic islands: 2 MC, 1 cp, 1 ps. Fig. 2e. R)


P. compressum Alb. & Schwein. (Granitic islands: 6 FC, 39 MC, 11 cp, 10 ps. A)

P. crateriforme  Petch (Granitic islands: 14 FC, 19 MC, 15 cp, 11 ps. C)

Alabera atoll 9: algae on steep rock faces, 3 gatherings (Ing & Hnatiuk 1981). **LOC. 1:** b*, AM2166, TK80S. **LOC. 3:** Tremella on w* Gleditsia triacanthos, AM2184, TK98S. b*, SLS26159 (pH 7.9), SLS26485 (pH 8.0), SLS26725 (pH 8.1), SLS26757 (pH 8.3), SLS26882 (pH 7.9). SLS26746 (pH 7.7). SLS26757 (pH 8.3). SLS26882 (pH 7.9). SLS26723 (pH 7.5). SLS26275 (pH 8.1). SLS26746 (pH 7.7). SLS26757 (pH 8.3). SLS26882 (pH 7.9). SLS26746 (pH 7.7). LOC. 12: Calophyllum inophyllum, SLS26159 (pH 7.9). SLS26882 (pH 7.9). SLS26746 (pH 7.7). LOC. 12: Calophyllum inophyllum, SLS26159 (pH 7.9). SLS26882 (pH 7.9). SLS26746 (pH 7.7).

**P. cremitateum** Y.F. Chen & C.H. Liu (Granitic islands: 24 FC, 8 cp, 6 ps, Fig. 2a. C)

**LOC. 2:** gl* Tabebuia pallida, AM3087, TK2880. w* Cinnamomum verum, AM3079, TK2867. gl* Tabebuia pallida, AM3084, TK2876. **LOC. 6F:** gl* Dillenia suffruticosa, AM3069, TK2831. gl* Mangifer indica, AM3066, TK2826. **LOC. 21D:** gl* Cinnamomum verum & Falcataaria moluccana & Tabebuia pallida, AM2765, TK2176. **LOC. 28A:** gl* Calophyllum inophyllum, AM2930, TK2478. **LOC. 34B:** gl* Terminalia catappa, AM2900, TK2435. **LOC. 35:** gl* Terminalia catappa, AM2885, TK2415. **LOC. 39B:** gl* Calophyllum inophyllum, AM2981, TK2558. **LOC. 42B:** gl* Terminalia catappa, AM2950, AM2956, TK2512, TK2521.

**P. decipiens** M.A. Curtis (Granitic islands: 3 MC, 2 cp, 2 ps. R)

**LOC. 3:** b*, SLS26872 (pH 8.3). **LOC. 48:** b* Calophyllum inophyllum, SLS2345 (pH 5.9). b* Thespesia populnea, SLS23190 (pH 6.1).

**P. dideroides** (Pers.) Rostaf. (Granitic islands: 2 MC, 1 cp. R)

**LOC. 3:** b*, SLS26757 (pH 8.3), SLS26764 (pH 8.2).

**P. echinosporum** Lister (Granitic islands: 2 FC, 1 cp, 1 ps. O)

Alabera atoll 1, 4, 7: gl* Carica papaya, Cocos nucifera, Lumnitzera racemosa, Terminalia catappa, 5 gatherings (Ing & Hnatiuk 1981). **LOC. 22A:** w* Terminalia catappa, AM2710, TK2049.

**P. flavicomum** Berk. (Granitic islands: 2 FC, 1 cp. R)

**LOC. 17:** moss on b*, AM2157, TK71S.

**P. florigerum** (Meyl.) Y. Yamam. (Granitic islands: 2 FC, 1 cp. R)

**LOC. 8:** w* palm, AM3112, TK2931.

**P. globuliferum** (Bull.) Pers. (O)

Alabera atoll 1, 9, 16: gl* Cocos sp., w* Casuarina sp., mangrove, 17 gatherings (Ing & Hnatiuk 1981).
**P. gyrosum** Rostaf. (Granitic islands: 5 MC, 4 cp, 4 ps R)

**LOC. 2**: ar* Phoenicophorium borsigianum, SLS32351 (pH 5.7). **LOC. 25C**: ar* Syngonium podophyllum, SLS32736 (pH 6.3), SLS32745 (pH 7). **LOC. 38B**: gl* Calophyllum inophyllum, SLS32781 (pH 8.2). **LOC. 41A**: ar* Cocos nucifera, SLS32163 (pH 7.2).

**P. hongkongense** Chao H. Chung (Granitic islands: 16 FC, 2 MC, 10 cp, 6 ps. O)


**P. javanicum** Racib. (Granitic islands: 1 MC, 1 cp. S)

**LOC. 3**: b*, SLS26761 (pH 7.5).

**P. lakhanpalii** Nann.-Bremek. & Y. Yamam. (Granitic islands: 15 FC, 10 MC, 10 cp, 6 ps. C)

**LOC. 2**: w* Tabebuia pallida, AM3093, TK2888. **LOC. 3**: ar* Musa paradisiaca L., AM2173, TK87S. b*, SLS26752 (pH 7.6). **LOC. 7**: ar* Cocos nucifera, AM2109, TK23S. ar* Cocos nucifera, AM2111. ar* Cocos nucifera, AM2112, TK29S. **LOC. 12**: w* Plumeria alba, AM2121, TK35S. ar* Cocos nucifera, w* palm with Aracyria cinerea, AM2122, TK36S. **LOC. 17B**: b* Calophyllum inophyllum, SLS32476 (pH 6.6), SLS32381 (pH 6.1). **LOC. 22B**: b* Calophyllum inophyllum, SLS32219 (pH 6.4). **LOC. 23**: ar* Lodoicea maldivea, SLS32371 (pH 6.6). **LOC. 25A**: ar* Pandanus balfourii, SLS32762 (pH 6.7). ar* Cocos nucifera, AM2753, TK2126. **LOC. 29**: ar* Cocos nucifera, SLS32355 (pH 5), SLS32362 (pH 6). **LOC. 50**: gl* Cocos nucifera, SLS32388 (pH 6.4), SLS32399 (pH 6.6).

**P. leucopus** Link (S)

Aldabra atoll 1: moss-covered rock, 1 gathering (Ing & Hnatiuk 1981).

**P. luteolum** Peck (Granitic islands: 2 FC, 1 cp, 1 ps. R)

**LOC. 27A**: gl* Calophyllum inophyllum, AM2895, TK2428.

**P. melleum** (Berk. & Broome) Massee (Granitic islands: 49 FC, 10 MC, 25 cp, 17 ps. A)


**P. melleum f. luteum** Y.Yamam. (Granitic islands: 2 FC, 1 cp. R)

**LOC. 18**: gl*, AM2100, TK14S.

**P. mutable** (Rostaf.) G. Lister (Granitic islands: 6 FC, 3 cp. 1 ps. O)

Aldabra atoll 1, 3, 4, 5: b* & gl* Cyperus sp., gl*

**P. nicaraguense** T. Macbr. (R)

Aldabra atoll 3, 14: moss-covered rock, moss on w* Ochna sp., 2 gatherings (Ing & Hnatiuk 1981).

**P. notabile** T. Macbr. (Granitic islands: 2 FC, 1 cp, 1 ps, R)

LOC. 2: ar* Epipremnum pinnatum, AM3080, TK2869.

**P. nucleatum** Rex (Granitic islands: 4 FC, 2 cp, 2 ps, R)

LOC. 22F: w* palm, AM2741, TK2076; LOC. 36: w* & b* Terminalia catappa, AM3219, TK2778.

**P. oblatum** T. Macbr. (Granitic islands: 11 MC, 5 cp, 4 ps, O)


**P. plicatum** Nann.-Bremek. & Y. Yamam. (Granitic islands: 8 FC, 1 cp, 4 ps, O)

LOC. 66: gl* Cinnamomum verum, AM3131, TK2979, gl* Deckenia nobilis, AM3128, TK2975, gl* Dillenia ferruginea, AM3122, TK2967. gl* Pandanus balfourii, AM3145, TK3002.

**P. pusillum** (Berk. & M.A. Curtis) G. Lister (Granitic islands: 7 FC, 26 MC, 17 cp, 16 ps, C)


**P. roseum** Berk. & Broome (Granitic islands: 10 FC, 1 MC, 6 cp, 5 ps, O)


**P. serpula** Morgan (O)


**P. sessile** Brândza (Granitic islands: 12 FC, 6 cp, 2 ps, O)


Aldabra atoll 1: gl* Cocos sp., b* mangrove,
P. superbum Hagelst. (Granitic islands: 4 MC, 1 cp, R)  
**LOC. 3:** b*, SLS26718 (pH 7.6), SLS26739 (pH 7.1), SLS26750 (pH 8.4), SLS26881 (pH 8.3).

P. tenerum Rex (Granitic islands: 4 FC, 2 cp, 2 ps. O)  
Alabdra atoll 1, 8; gl' Cocos sp., 3 gatherings (Ing & Hnatiuk 1981). **LOC. 36:** w' & b' Terminalia catappa, AM3217, TK2780. **LOC. 42C:** ar* liana on Calophyllum inophyllum, AM2953, TK2516.

P. viride (Bull.) Pers. (Granitic islands: 6 FC, 3 cp, 2 ps. C)  
Alabdra atoll 1, 4, 8, 13: gl' Cocos sp., w' Sideroxylon sp., 19 gatherings (Ing & Hnatiuk 1981). **LOC. 9:** w' Swietenia macrophylla, AM3050, TK2800. **LOC. 22F:** w' palm, AM2736, TK2071. **LOC. 21F:** w' Terminalia catappa, AM2766, TK2180.

P. viride var. aurantium (Bull.) Lister (Granitic islands: 26 FC, 11 cp, 9 ps. C)  
**LOC. 9:** w' Bamboua sp., AM3054, TK2806. **LOC. 8:** b* Nephroperma vanhoutteanum, AM3096, TK2909. w' Spondias cytherea, AM3102, TK2916. **LOC. 25A:** ar' Cocos nucifera, AM2755, TK2130. **LOC. 27B:** w' Artocarpus altissim, AM3169, TK2642. **LOC. 37B:** w' & b' Calophyllum inophyllum, AM3192, TK2690. w' Cinnamomum verum, AM3180, TK2688. **LOC. 37E:** w' Falcataria moluccana, AM2993, TK2573. **LOC. 38A:** w' Cinnamomum verum, AM2905, TK2445. **LOC. 39B:** w' Calophyllum inophyllum, AM2984, TK2556. **LOC. 40C:** w' Cinnamomum verum, AM2922, TK2468. **LOC. 42C:** w' Terminalia catappa, AM2944, TK2504. w' Terminalia catappa, AM2963, TK2527.

**Reticularia olivacea** (Ehrenb.) Fr. (Granitic islands: 1 MC, 1 cp, 1 ps. S)  
**LOC. 22B:** b* Calophyllum inophyllum, SLS32452 (pH 5.7).

**Stemonaria longa** (Peck) Nann.-Bremek., R. Sharma & Y. Yamam. (Granitic islands: 6 FC, 2 cp, 2 ps. O)  
**LOC. 28B:** w' Terminalia catappa, AM2929, TK2476. **LOC. 43:** w' & b' Thespesia populnea, AM2939, TK2496. w' & b', AM3154, TK2585.

**Stemonitis axifera** (Bull.) T.Macbr. (Granitic islands: 14 FC, 6 cp, 3 ps. O)  
**LOC. 9:** w' Swietenia macrophylla, AM3046, TK2794. **LOC. 6F:** w', AM3071, TK2836. **LOC. 22F:** w' Cinnamomum verum, AM2734, TK2069. **LOC. 37M:** w', AM2877, TK2404. **LOC. 38A:** w' Cinnamomum verum, AM2910, TK2447. **LOC. 40C:** w' & b' Calophyllum inophyllum, AM2919, AM2928, TK2463, TK2474.

**S. flavogenita** E. Jahn (Granitic islands: 2 FC, 1 cp., R)  

**S. fusca** Roth (Granitic islands: 18 FC, 9 cp, 3 ps. C)  
Alabdra atoll 4, 10: w' Apodytes sp., 2 gatherings (Ing & Hnatiuk 1981). **LOC. 3:** w', AM2182, TK968. **LOC. 5:** w', AM2107, TK215S. **LOC. 20:** moss on w' & b' Calophyllum inophyllum, AM2776, TK2191. **LOC. 21B:** w' Terminalia catappa, AM2791, TK2217. **LOC. 27B:** w' Calophyllum inophyllum, AM3170, TK2644. **LOC. 36:** w' Terminalia catappa, AM3216, TK2784. **LOC. 37N:** moss on w' & b' Falcataria moluccana, AM2988, TK2577. **LOC. 40C:** w' Calophyllum inophyllum, AM2920, TK2464. **LOC. 43:** w' & b' Calophyllum inophyllum, AM2937, TK2507.

**S. fusca** var. nigrescens (Rex) Torrend (Granitic islands: 10 MC, 6 cp, 6 ps. O)  
**LOC. 6D:** ar' Dioscorea sp., SLS32379 (pH 6.7). **LOC. 22C:** gl' Adenanthera pavonina, SLS32381 (pH 5.2). **LOC. 22D:** gl', SLS32494 (pH 5.5). **LOC. 23:** gl' Lodoicea maldivica, SLS32490 (pH 5.5), SLS32494 (pH 5.4). **LOC. 37C:** ar' Cinnamomum verum, SLS32333 (pH 4.6), SLS32338 (pH 4.6), b* Cinnamomum verum, SLS32377 (pH 5.2). **LOC. 47A:**
ar Phoenicophorium borsigianum, SLS32331 (pH 4.9), SLS32345 (pH 4.7).

**S. herbatica** Peck (Granitic islands: 1 MC, 1 cp, 1 ps. R)


**S. pallida** Wingate (Granitic islands: 6 FC, 3 cp, 2 ps. O)

**LOC. 22F**: w* palm, AM2737, TK2072. **LOC. 22G**: w* Calophyllum inophyllum*, AM2772-1, TK2061. **LOC. 40A**: w* & b* Terminalia catappa*, AM2914, TK2452.

**S. pallida** var. **rubescens** Y. Yamam. (Granitic islands: 2 FC, 1 cp, 1 ps. R)

**LOC. 20**: w* Calophyllum inophyllum*, AM2787, TK2206.

**S. splendens** Rostaf. (Granitic islands: 28 FC, 12 cp, 5 ps. C)


**Discussion**

In general, this annotated checklist clearly shows that isolated tropical islands can support a diverse assemblage of myxomycetes. From the total of 143 taxa, 88 species and infra-specific taxa are new for the Seychelles as result of expeditions to Mahé, Praslin, La Digue, Curieuse and Félicité. Fifty-five species had been reported previously from the coralline Aldabra atoll (Ing & Hnatiuk 1981). Collectively, these records represent six orders, 12 families and 29 genera in the class Myxomycetes, with a predominance of members of the order Physarales (74 taxa). From the total body of data, 4% species were abundant, 12% species were common, 29% were found occasionally, 42% were rare, and 13% species had only a single record. The most abundant species were Arcyria cinerea, A. denudata, Diderma effusum, Hemitrichia calyculata, Physarum compressum, and P. melleum. A consideration of the taxonomic structure of the myxomycete biota in the area studied shows that the main genera are Physarum (38 species and two varieties), Didymium (17 species), Cribraria (11 species), Arcyria (eight species) and Stemonitis (six species and two varieties) (Table 1).
Fig. 2. Myxomycete species collected in the Seychelles. a: Physarum cremiluteum on dead leaves of Terminalia catappa, La Digue, 06-1-2016 (AM2900), b: Cribraria aurantiaca on the trunk of Falcatoria moluccana, La Digue, 03-1-2016 (AM2860), c: Diderma saundersii on mosses on Cinnamomum verum, d: Diderma saundersii capillitium and spores (x630), Mahé, 26-VI-2016 (AM3075), e: Physarum cinereum on dry twigs of Epipremnum pinnatum, La Digue, MC (AM 3899), f: Diderma chondrioderma on the bark of living Rhizophora mucronata, Curieuse, MC (AM2834). Scale bars: a scale = 1 mm, b scale = 0.5 mm, c scale = 0.5 mm, d scale = 25 μm, e scale = 0.8 mm, f scale = 1 mm. – Photo: A. Michaud.
For six islands (Aldabra, Mahé, Praslin, La Digue, Curieuse and Félicité) only a single species of myxomycete (*Physarum crateriforme*) was shared in common. For La Dique, Mahé, Praslin and Aldabra, 18 species of myxomycetes were recorded for all of the islands. These were *Arcyria cinerea*, *A. denudata*, *Ceratiomyxa fruticulosa*, *Cribraria microcarpa*, *C. violacea*, *Diderma effusum*, *Didymium squamulosum*, *Hemitrichia calyculata*, *H. serpula*, *Lycogala epidendrum*, *Perichaena depressa*, *Physarum album*, *P. compressum*, *P. crateriforme*, *P. melleum*, *P. pusillum*, *Stemonitis fusca*, *S. splendens*. In total, 50 different localities with 90 collecting plots were subjected to some sampling on the granitic islands. The abundance of myxomycetes collected in the field depends greatly upon the humidity of the collecting locality and the substrate moisture at the time of sampling. Thirty-two percent of all samples were collected in coastal vegetation, 30% in lowland localities, 19% at intermediate forests, 9% in riverine forests, 8% in mountain forests, and only 2% in mangrove swamps. The overwhelming majority of species of myxomycetes were found in coastal and lowland vegetation, *Cribraria pachydictyon*, *Didymium clavus*, *D. minus*, *D. ovoideum*, *Physarum atrovioleaceum*, and *P. plicatum* were recorded only at high elevations on Mahé. Among the species peculiar for intermediate forests, *Arcyria marginoundulata*, *Diderma rimosum*, *Comatricha laxa*, and *Cribraria confusa* were noteworthy examples.

Reach vegetation in the Seychelles is characterized by many endemic and introduced plants and thus substrates diversity for myxomycetes is high (Fig. 3). However, from 57 species of plants used by myxomycetes as substrates on the granitic islands, only nine species provided 63% of the specimens of myxomycetes. The most productive substrates on the islands were provided by the common Seychelles trees *Calophyllum inophyllum*, *Cinnamomum verum*, *Cocos nucifera*, *Falcataria moluccana*, *Synegonium podophyllum*, *Tabebuia pallida*, *Terminalia catappa*, and *Thespesia populnea*. It is noteworthy that among singleton substrates, there is no single example specific for any myxomycetes recorded only once, and most single and rare species usually were found on substrates that were abundant and common. Almost 30% of the specimens of myxomycetes were collected on dead wood and large decaying palm stems, nearly equal numbers of species were found on bark and ground litter (26% and 24%, respectively), and 20% species were associated with aerial substrates. Some species were not very selective with respect their choice of substrates, but others clearly preferred certain substrates.

In summary, because of favorable climatic conditions and their location between Asia and Africa, the Seychelles Islands are very promising for the study of myxomycetes. There is still the hope that the vegetation of the Seychelles could yield interesting results for species of myxomycetes and thus there is a need for more detail research. Future expeditions should be carried out to survey islands not yet explored and high elevations areas that were under-represented in the expeditions reported herein.
Fig. 3. Examples of substrates for myxomycetes. 

a: *Leucaena leucocephala*, Praslin, 
b: *Lodoicea maldivica* (endemic) in Vallée de Mai, a World Heritage Site, Praslin, 
c: *Martellidendron hornei* (endemic), La Plaine hollandaise, Praslin, 
d: inflorescence with ripe fruits of *Nephrosperma vanhoutteanum* (endemic), Mahé, National Biodiversity Centre. – Photo: A. Michaud.
Table 1. Taxonomical structure of an annotated checklist of myxomycetes from the Seychelles Islands

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Acknowledgements

The authors are very thankful to Marianne Meyer for her highly valuable comments relating to the identification of the most difficult specimens of myxomycetes. Thanks also to all our colleagues who were interested in and commented this research in the Seychelles.

References


