

CDF Checklist of Galapagos Cycads

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Abstract

This Checklist of Galapagos Cycads includes a total of all 2 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 Cycads currently known.

Cycads are a unique group of vascular plants that probably originated in the Carboniferous belong to the gymnosperms. Their stem is unbranched, partially or totally immersed in the soil, or forming a tall trunk. They have pinnate or bipinnate leaves with a thick, waxy cuticle.

Like the ferns, the leaves of cycads are initially coiled, when expanded their leaves often resemble those of palm trees.

The organization of their reproductive structures is often taxonomically important. The leaves that bear the megaspores and eventually the female gametophytes are organized within a single cone vaguely resembling a pineapple. Male cones are smaller but similar in structure with scales that bear the pollen sacs.

Methods

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Species Checklists represent the synthesis of many different records: literature citations, data from previously unpublished reports (grey literature), specimen records of natural history collections located in Galapagos and all over the world.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

Origin of the taxa included: 2 cultivated.

1. *Cycas circinalis* L.

Taxon status: Accepted name; taxon occurs in Galapagos.

Syn.: *Cycas thouarsii* Gaudich.

Origin: Introduced, Cultivated.

References: Guézou, A. et al. (2010), Tropicos.org. et al. (2017).

2. *Cycas revoluta* Thunb.

Taxon status: Accepted name; taxon occurs in Galapagos.

Origin: Introduced, Cultivated.

References: Chen, J. et al. (2007), Guézou, A. et al. (2010), Hokche, O. et al. (2008), Tropicos.org. et al. (2017).

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References

1. Chen, J., Craven, L.A. (2007) *Flora of China*. *Flora of China* 13: 321–328.
http://www.efloras.org/florataxon.aspx?flora_id=2&taxon_id=10599
2. Guézou, A., Trueman, M., Buddenhagen, E., Chamorro, S., Guerrero, A.M., Pozo, P., Atkinson, R. (2010) *An extensive Alien Plant Inventory from the Inhabited Areas of Galapagos* Plos One/ www.plosone.org. Volume

3. Hokche, O., Berry, P.E. & Huber, O. (2008) *Nuev. Cat. Fl. Vas. Venezuela* 1–860.
4. Tropicos.org. (2017) *Database of Missouri Botanical Garden*. Tropicos.org. Missouri Botanical Garden. 06 Oct 2017

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.