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## The Bryoflora of Fernando de Noronha, Brasil

Daniel Vital  
Christina Giancotti

Instituto de Botânica, Caixa Postal 4005, 01051 Sao Paulo, SP, Brasil.

Ronald A. Pursell

Department of Biology, 208 Mueller Laboratory, The Pennsylvania State University,  
University Park, PA 16802, U.S.A.

**Abstract.** Twenty-two species of bryophytes are reported from Fernando de Noronha. One of these, *Fissidens veracruzensis* Pursell, has not been reported previously from Brasil.

The Território Fernando de Noronha consists of a group of 19 volcanic islands situated ca 360 km NE of the coast of the State of Rio Grande do Norte (3° 51' S - 32° 25' W) and covers an area of 26 km<sup>2</sup>. The island of Fernando de Noronha is the largest (15 km<sup>2</sup>) and its highest elevation reaches 323 m. The climate is semi-arid with a mean annual precipitation of 1,300 mm and temperatures ranging from 18° to 32°C. The dominant vegetation is similar to the very peculiar "caatinga" (thorn, deciduous scrubs

and cacti, 3 to 5 m tall) found in the northeastern part of Brasil. The only previous paper published in which bryophytes from Fernando de Noronha were mentioned is that of Gepp (1891). In this report a new species of *Riccia*

(*R. ridleyi* Gepp) was described and the occurrence of *Calymperes richardii* C. Müll. [= *C. palisotii* subsp. *richardii* (C. Müll.) Edwards] cited. Two additional genera of mosses, *Tortula* sp. and *Hypnum* sp., were also given. The first of these probably can be referred to either *Neohyophila sprengellii* (Schwaegr.) Crum or to *Barbula agraria* Hedw., while the second is *Entodontopsis leucostega* (Brid.) Buck & Ireland. The specimens enumerated below were collected from 28 July to 6 August 1978 by the senior author, D. M. Vital, and have been deposited in the herbarium of Instituto de Botânica de Sao Paulo (SP) with

duplicates of most of the *Fissidens* in PAC.

### ANTHOCEROTAE

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*Notothylas breutelii* (Gott.) Gott. Abundant. In partial shade on soil or on rocky substratum covered with a thin layer of soil, nos. 8321, 8335, 8340-A, and 8341.

*N. vitalii* Udar & Singh. Abundant. In partial shade on soil or on rocky substratum covered with a thin layer of soil, nos. 8324-A, 8325, 8326, 8329-B, and 8330-C.

### HEPATICAE

#### JUBULACEAE

*Frullania ericoides* (Nees) Mont. Abundant. On rocky substratum in partial shade and on tree trunks, nos. 8312-B, 8313, 8315-A, 8316, 8317, 8318-B, 8334, 8336, and 8345-B.

#### LEJEUNEACEAE

*Lejeunea (Microlejeunea) laetevirens* Nees & Mont. Abundant. On rocky substratum in

partial shade and on tree trunks, nos. 8311, 8312-A, 8313-A, 8316-A, 8317-A, 8318-A, 8333, and 8345-C.

#### RICCIACEAE

*Riccia* sp. Common. On rocky substratum or on soil in a low and sparse forest, nos. 8314, 8320, and 8347. The first of these collections, according to Mme. Jovet, "est très intéressant par les caractères de son thalle. J'espère pouvoir le nommer lorsque j'aurai terminé l'étude de vos spécimens et des types que je viens de recevoir de plusieurs institutions" (letter to senior author dated 23 February 1987).

#### MUSCI

#### BRYACEAE

*Bryum coronatum* Schwaegr. Common. On walls, no. 8343-A.

*Pohlia* sp. Rare. In partial shade on soil among rocky outcrops, no. 8322-B.

#### CALYMPERACEAE

*Calymperes palisotii* subsp. *richardii* (C. Müll.) Edwards. Abundant. In partial shade on rocky substratum or on tree trunks, nos. 8311-A, 8312, 8313-B, 8315, 8317-B, 8318, 8319, 8333-A, 8337, and 8345-A.

#### FISSIDENTACEAE

*Fissidens bryoides* Hedw. Common. On soil in partial shade, nos. 8340, 8348.

*F. constrictus* C. Müll. Common. In partial shade on soil among rocky outcrops, nos. 8322, 8323.

*F. cf. flavinervis* Mitt. Common. At the entrance of a small cave and on rock in shade, nos. 8310, 8316-C.

*F. hornschuchii* Mont. Rare. On rocky substratum and soil, no. 8309.

*F. intermedius* C. Müll. Common. In partial shade on humid banks, nos. 8338-A, 8340.

*F. microcladus* Thwait. & Mitt. var. *pussillissimus* (Steere) Pursell. Rare. In partial shade on soil among rocky outcrops, no. 8322-A.

*F. reticulosus* (C. Müll.) Mitt. Abundant. In partial shade on soil, banks, and rocky substratum, nos. 8316-B, 8320-A, 8328, 8329, 8330, 8335-A, 8340-A, 8341-B, 8342-A, and 8347-B.

*F. veracruzensis* Pursell. Abundant. New citation for Brasil. In partial shade, on rocky substratum covered with a thin layer of soil or in banks, nos. 8320-B, 8321-A, 8330-A, 8338, 8341-A, and 8347-A.

*F. zollingeri* Mont. Rare. In partial shade on ground along a trail, no. 8346.

#### LEUCOBRYACEAE

*Octoblepharum albidum* Hedw. Common. In partial shade on rocky cliffs, nos. 8308 and 8309-A.

#### POTTIACEAE

*Barbula agraria* Hedw. Rare. On walls, no. 8343.

*Neohyophila sprengellii* (Schwaegr.) Crum. Abundant. In direct sunlight on rocky substratum and on walls, nos. 8327 and 8339.

*Splachnobryum obtusum* (Brid.) C. Müll. Common. In partial shade on humid soil, nos. 8324, 8326-A, 8329-A, 8330-B, and 8342.

#### STEREOPHYLLACEAE

*Entodontopsis leucostega* (Brid.) Buck & Ireland. Abundant. In partial shade on bark of trees and on rocks, nos. 8331, 8332, 8344, 8345.+

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#### Literature Cited

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