THE MACHRIS BRAZILIAN EXPEDITION

BOTANY: Various families

Coordinated by E. Yale Dawson
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INSTRUCTIONS FOR AUTHORS

Manuscripts for the LOS ANGELES COUNTY MUSEUM CONTRIBUTIONS IN SCIENCE may be in any field of Life or Earth Sciences. Acceptance of papers will be determined by the amount and character of new information and the form in which it is presented. Priority will be given to manuscripts by staff members, or to papers dealing with specimens in the Museum's collections. Manuscripts must conform to CONTRIBUTIONS style and will be examined for suitability by an Editorial Committee. They may also be subject to critical review by competent specialists.

MANUSCRIPT FORM.—(1) The 1960 AIBS Style Manual for Biological Journals is highly recommended as a guide. (2) Typewrite material, using double spacing throughout and leaving ample margins, on only one side of 8½ × 11 inch standard weight paper. (3) Place tables on separate pages. (4) Footnotes should be avoided if possible. (5) Legends for figures and unavoidable footnotes should be typed on separate sheets. Several of one kind may be placed on a sheet. (6) Method of literature citation must conform to CONTRIBUTIONS style—see number 50 and later issues. Spell out in full the title of non-English serials and places of publication. (7) A factual summary is recommended for longer papers. (8) A brief abstract should be included for all papers. This will be published at the head of each paper.

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PROOF.—Authors will be sent galley proof which should be corrected and returned promptly. Changes after the paper is in galley will be billed to the author. Unless specially requested, page proof will not be sent to the author. 100 copies of each paper will be given free to a single author or divided equally among multiple authors. Orders for additional copies should be sent to the Editor at the time corrected galley proof is returned; appropriate forms for this will be included when galley is sent.

DAVID K. CALDWELL

Editor
THE MACHRIS BRAZILIAN EXPEDITION

BOTANY: Various families

*Coordinated by E. Yale Dawson*

The plants listed below were obtained on a Los Angeles County Museum expedition in 1956, to Goiás, Brazil, sponsored by Mr. and Mrs. Maurice A. Machris and conducted under the auspices of the Museu Nacional do Brasil (see Delacour, 1957).

They represent the final part of the twenty-two botanical reports begun in 1957 and in which 51 specialists have participated. Fifty-five new species and subspecies have been described in these reports and several more remain in the hands of systematists who intend to incorporate them in monographic studies. During the intervening six years the great new capital city of Brasilia has been built and occupied in Goiás near the site of one of our base camps, and broad modifications of the native flora are occurring as urban developments spread. Thus, despite a small residue both of living and herbarium specimens remaining unidentified, we have chosen to conclude the botanical results of the Machris Expedition with this paper in order to present without further delay the distribution records provided by our collections. Each identified specimen is indicated by a citation of my field collection number. Detailed locality data for these may be found in the general account of the botany of the expedition (Dawson, 1957). Briefly, however, the specimens bearing numbers from 14133 to 14815 came from the Chapada dos Veadeiros, between Sao Joao da Aliança and Veadeiros, April 13 to May 3, 1956. Those bearing numbers from 14816 to 15236 came from the region between Amaro Leite and Peixe, especially in the southern Serra Dourada, May 15 to June 10, 1956.

The identifications have been made by a number of specialists, as indicated with the name of each family. I wish here to thank them for their cooperation in this work.

Unless otherwise indicated, the first set of specimens is deposited in the Los Angeles County Museum. Duplicates usually have been retained by the specialists.

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1Research Associate, Los Angeles County Museum, and Allan Hancock Foundation, University of Southern California.

2The other reports appeared in this series, *Los Angeles County Contributions in Science*, as numbers 2 through 7, 10, 11, 13, 17, 18, 21 through 24, 26, 28, 30, 32, 35 and 47.
RHODOPHYTA: BATRACHOSPERMACEAE
Det. by H. Skuja, Inst. für systemat. Botanik,
Uppsala, Sweden

Batrachospermum guyanense Kütz. 14809

Sirodotia sp. nov. Skuja ms. 15167 Dr. Skuja says of this unpublished
species, "I have created this monoecious Sirodotia species of the Section
Helicocladia many years ago after studying a specimen collected by Löfgren,
1897, in Sao Paulo, Sta. Amara, sub. no. 626 and [included] in Wittrock et
Nordstedt Alg. Exs. no. 13516 sub. B. dillenii (det. Nordstedt). The same
specimen is preserved in the Herbarium de Seccao Botanica e Agronomia de
Instituto Biologico in Sao Paulo sub. no. 28856."

PTERIDOPHYTA: POLYPODIACEAE (suppl.)
Det. by K. U. Kramer, Univ. of Utrecht

Lindsaea lancea (L.) Bedd. var. lancea 14926

Lindsaea stricta (Sw.) Dyand var. stricta 14740; 14274

PHANEROGAMAE
PALMACEAE (suppl.)
Det. by Harold E. Moore, Jr., Bailey Hortorium,
Ithaca, New York

Allagoptera sp. 14222 (reported previously as Diplotheicum sp.)

Syagrus campestris (Mart.) H. Wendl. 14433; 14557; 14585

Syagrus comosa (Mart.) Mart. 14458; 15062; 15221

Syagrus oleracea (Mart.) Becc. vel. aff. 15218a

Mauritia sp. 15225

ORCHIDACEAE

A number of specialists have dealt with the Orchidaceae, many of which
have been grown under the care of Paul C. Hutchison in the botanical garden
of the University of California, Berkeley. Most of the herbarium specimens
(and, subsequently, specimens made from cultivated plants) were identified
in November 1956 by Leslie A. Garay, then of the University of Toronto. More
recent identifications have been provided by Mr. Hutchison, by G. B. New-
comb, by Robert Dressler, and by Charles Schweinfurth.

Epistephium sclerophyllum Lindl 14224

Epistephium praestans Hoehne 14638

Epidendrum ellipticum Graham 14226

Epidendrum ellipticum var. freybergense Zimm. 14676
Epidendrum amblostomoides Hoehne 15084; Herb. AMES
Epidendrum difforme Jacq. 14959 (det. Newcomb); Herb. UC
Epidendrum linearifolioides Krzl. 15176; Herb. AMES, MO
Oncidium varicosum Lindl. 14273
Oncidium euxanthinum Rchb. f. 14804; Herb. AMES
Cattleya walkeriana Gardn. 14296; 15086; 15087
Notylia wullschlaegeliana Focke 14398; 14329, Herb. AMES; 14297 (det. Hutchison)
Habenaria rodriquesii Cogn. 14439
Habenaria leprieurii Rchb. f. 14658
Bulbophyllum vittatum Rchb. f. & Warm. 14523
Bulbophyllum insectiferum Barb. Rodr. 14527 (det. Schweinfurth)
Scaphyglottis cuneata Schltr. 14538; 14299 (det. Dressler)
Lamium avicula Hook. 14801
Lockhartia goyasensis Rchb. f. 14865
Lockhartia lunifera Lindl. 14952 (det. Schweinfurth)
Mormodes sinuatum Rchb. f. & Warm. 15061; 15001
Mormodes vinaceum Hoehne (number lost) (det. Dressler)
Hexadesmia rheediti Rchb. f. 14576; Herb. AMES
Catasetum barbatum Lindl. 14407
Cyrtopodium poecilum Rchb. f. & Warm.? 15119 (det. Schweinfurth);
Herb. AMES
Brassavola tuberculata Hook. 14303
Aspasia variegata Lindl. 14953 (det. Dressler)
Eulophidium maculatum (Lindl.) Pfitz 14423 (det. Hutchison)

PORTULACACEAE

det. Paul C. Hutchison,
University of California Botanical Garden
Portulaca hirsutissima Camb. 14705

CACTACEAE (suppl.)
det. Paul C. Hutchison

Discocactus heptacanthus (Rodr.) Br. & R. 14518
Cereus fernambucensis Lem. 15237
OXALIDACEAE
det. by Alicia Lourteig,
Museum National d'Histoire Naturelle, Paris

*Oxalis cytisoides* Mart. ex Zucc.  15004
*Oxalis umbraticola* St. Hil.  15017
*Oxalis goyazensis* Turcj.  14909
*Oxalis hirsutissima* Mart. ex Zucc.  14456

LYTHRACEAE
det. by Alicia Lourteig

*Cuphea polymorpha* St. Hil.  14401
*Cuphea fuchsiifolia* St. Hil.  14428
*Lafoensia pacari* St. Hil. ssp. *pacari*  14443; 14728
*Diplusodon sordidus* Koehne  14600
*Diplusodon villosus* Koehne  14221
*Diplusodon incanus* Gardner  14397
*Diplusodon virgatus* Pohl  14255; 14897
*Diplusodon strigosus* Pohl  14829
*Diplusodon ramosissimus* Pohl  14834; 15000

CONVOLVULACEAE (suppl.)
det. by Lyman B. Smith, U.S. National Herbarium

*Ipomoea graminiformis* Meissn.  14188
*Ipomoea pinifolia* Meissn.  14778
*Ipomoea procurrens* Meissn.  14207
*Ipomoea ramosissima* (Poir.) Choisy  14971
*Jacquemontia secundiflora* (Fernald) O'Donnel  14901
*Jacquemontia tamnifolia* (L.) Griseb.  14900

COMPOSITAE
det. by Bonnie C. Templeton, Los Angeles County Museum

The following is a preliminary report which is expected to be supplemented by a fuller account as soon as more thorough studies are completed.

The Compositae collections contained about 109 specimens of approximately 60 species. All but about fifteen of these came from the region of the Chapada dos Veadeiros, the remainder from the southern Serra Dourada.
SUBFAMILY LABIATAEFLORAE
Tribe Mutisieae
Subtribe Mutisinae

*Barnadesia roseo* L. 15044

*Chaptalia nutans* Hemsley 14762 A medicinal herb from the town of Veadeiros. Its juice is used for malaria.

SUBFAMILY TUBULIFLORAE
Tribe Helianthoideae
Subtribe Melampodieae

*Acanthospermum australe* (Loefl.) Kuntze (*A. brazilum* Schrank)

14166a

Subtribe Coreopsideae

*Bidens cynapiifolia* H.B.K. 14212

*Bidens gardneri* Baker 14383; 14212 (in part)

*Bidens pilosa* L. 14760 A medicinal herb from the town of Veadeiros.

*Bidens tenera* O.E. Schz. var. *paucidentata* (O.E. Schz.) Sherff 14760a

Subtribe Galinsogae

*Calea elongata* Baker 14871; 14402

*Calea hymenolepis* Baker 14168

Subtribe Verbesineae

*Viguiera bracteata* Gardn. 14660a

*Viguiera hispida* Baker 14660b

*Viguiera imbricata* Baker 14280

*Viguiera trichophylla* Dusen 14623

*Wulffia longifolia* Gardn. 15099

Tribe Helenieae
Subtribe Tagetininae

*Porophyllum prenanthoides* DC. 14979

Tribe Senecioneae
Subtribe Senecioninae

*Erechites hieracifolia* (L.) Raf. 14906

*Erechites ignobilis* Baker 14243

*Erechites valerianaefolia* DC. 14393
Tribe Astereae
Subtribe Asterinae

*Erigeron bonariensis* L. 14899  No lower leaves present; only the inflorescence collected.

Subtribe Baccharidinae

*Baccharis rufescens* Spr. 14158

*Baccharis subdentata* DC. 14177

Tribe Eupatorieae
Subtribe Piquerinae

*Adenostemma viscosum* Forst. var. *brazilianum* Benth. 15024

Subtribe Ageratinae

*Ageratum conyzoides* L. 14761  A medicinal herb from the town of Veadeiros

*Eupatorium capillare* (DC.) Baker 14625

*Eupatorium cryptanthum* Sch.-Bip. 14170

*Eupatorium gardnerianum* Hieron. 14469

*Eupatorium horminoides* Baker 14825; 14187

*Eupatorium kleinioides* H.B.K. 14180

*Eupatorium monardifolium* Walp. 15050

*Eupatorium squalidum* DC. 14201

*Eupatorium urticaefolium* L. 14671

*Mikania scandens* Willd. 14937

*Stevia elatior* H.B.K. 14148

*Stevia myriadenia* Sch.-Bip. 14374

*Trichogonia salviaefolia* Gardn. 14440

Tribe Vernonieae
Subtribe Lychnophorinae

*Elephantopus mollis* H.B.K. 14371

*Elephantopus riparium* Gardn. 14404

*Elephantopus scaber* L. 14764  A medicinal plant from the town of Veadeiros. Tea made from it is used for ear-ache.

*Elephantopus scaber var. tomentosa* Sch.-Bip. 14208

*Eremanthus goyazensis* Sch.-Bip. 14750
Subtribe Vernoninae

*Proteopsis eckmaniana* Philip. 14686

*Vernonia ammophyla* Gardn. var. *vestita* Baker. 14174

*Vernonia apiculata* Mart. 14172

*Vernonia brevipetiolata* Sch.-Bip. 14184; 14763 A medicinal plant from the town of Veadeiros.

*Vernonia grandiflora* L. 14647

*Vernonia hoveaeefolia* Gardn. 14281

*Vernonia lacunosa* Mart. 14167

*Vernonia lychnophoroides* Glaz. 14775

*Vernonia geminata* Less. 15099

*Vernonia radula* Mart. 14259

*Vernonia salzmannii* DC. 14210

*Vernonia simplex* Less. 14457

*Vernonia varroniaefolia* DC. 15040

*Vernonia vernosissima* Sch.-Bip. 14781

*Vernonia zuccariniana* Mart. 15038

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**LITERATURE CITED**
