

DISCLOSURE
MAY 11 1979

309

FIELDIANA: BOTANY

A Continuation of the

BOTANICAL SERIES

of

FIELD MUSEUM OF NATURAL HISTORY

VOLUME 32



FIELD MUSEUM OF NATURAL HISTORY
CHICAGO, U.S.A.

2007
FB
V.32

Botany

TABLE OF CONTENTS

1. A New Guatemalan <i>Spigelia</i> . By Dorothy N. Gibson	1
2. Three New Nicaraguan Epidendrums. By Alfonso H. Heller	7
3. <i>Syagrus oleracea</i> (Mart.) Becc. and Closely Related Taxa. By S. F. Glassman	13
4. Tropical American Plants, X. By Louis O. Williams	35
5. Two New Guatemalan Tournefortias. By Dorothy N. Gibson	65
6. A New Member of <i>Morganella</i> . By Patricio Ponce de Leon	69
7. A New <i>Odontoglossum</i> from Nicaragua. By Alfonso H. Heller	73
8. Studies in the Palm Genus <i>Syagrus</i> Mart. II. By S. F. Glassman	77
9. Revision of the Genus <i>Vascellum</i> (Lycoperdaceae). By Patricio Ponce de Leon	109
10. A Conspectus of the Palm Genus <i>Butia</i> Becc. By S. F. Glassman	127
11. Studies in American Plants, II. By Dorothy N. Gibson	173
12. Tropical American Plants, XI. By Louis O. Williams	179
13. The Juglandaceae of Guatemala. By Louis O. Williams and Antonio Molina R.	207
14. An Overlooked Genus of the Scrophulariaceae. By Louis O. Williams	211
15. A Synopsis of the Palm Genus <i>Syagrus</i> Mart. By S. F. Glassman	215
16. A New Hybrid in the Palm Genus <i>Syagrus</i> Mart. By S. F. Glassman	241

FB
v.32
no. 5-8

TWO NEW GUATEMALAN TOURNEFORTIAS
DOROTHY N. GIBSON

A NEW MEMBER OF *MORGANELLA*
PATRICIO PONCE DE LEON

A NEW *ODONTOGLOSSUM* FROM NICARAGUA
ALFONSO H. HELLER

STUDIES IN THE PALM GENUS *SYAGRUS* MART. II
S. F. GLASSMAN

BIOLOGY LIBRARY
101 BURRILL HALL

The Library of the

JAN 18 1979

JAN 19 1979

FIELDIANA: BOTANY
VOLUME 32, NUMBERS 5, 6, 7, 8

Published by

FIELD MUSEUM OF NATURAL HISTORY
AUGUST 11, 1969

TWO NEW GUATEMALAN TOURNEFORTIAS

DOROTHY N. GIBSON

*Supervisor of the Herbarium
Field Museum of Natural History*

A NEW MEMBER OF *MORGANELLA*

PATRICIO PONCE DE LEON

*Assistant Curator, Cryptogamic Herbarium
Field Museum of Natural History*

A NEW *ODONTOGLOSSUM* FROM NICARAGUA

ALFONSO H. HELLER

Associate, Field Museum of Natural History

STUDIES IN THE PALM GENUS *SYAGRUS* MART. II

S. F. GLASSMAN

*Research Associate, Palms
Field Museum of Natural History
and
University of Illinois, Chicago Circle*

FIELDIANA: BOTANY

VOLUME 32, NUMBERS 5, 6, 7, 8

Published by

FIELD MUSEUM OF NATURAL HISTORY

AUGUST 11, 1969

Printed with the Assistance of
The Frederick R. and Abby K. Babcock Fund

PRINTED IN THE UNITED STATES OF AMERICA
BY FIELD MUSEUM PRESS

CONTENTS

Two New Guatemalan Tournefortias <i>by</i> Dorothy N. Gibson	65
A New Member of <i>Morganella</i> <i>by</i> Patricio Ponce de Leon	69
A New <i>Odontoglossum</i> from Nicaragua <i>by</i> Alfonso H. Heller	71
Studies in the Palm Genus <i>Syagrus</i> Mart. II <i>by</i> S. F. Glassman	75

A New *Odontoglossum* from Nicaragua

ALFONSO H. HELLER

ASSOCIATE, FIELD MUSEUM OF NATURAL HISTORY

The genus *Odontoglossum* is not a large one in Central America and in Nicaragua. I have recorded only two other species, *O. krameri* Reichb. f. and *O. oerstedii* Reichb. f. Other species are to be expected here as exploration continues.

***Odontoglossum subcruciforme* Heller**

Herbae epiphyticae. Pseudobulbi ovati, compresati, bi- (uni-?)-foliati; folia ligulata, emarginata, obtusa, subcoriacea, basi conduplicati et leviter angustati; inflorescentia racema pauciflora e basi pseudobulbi; flores pedicellati; sepalum dorsale oblanceolatum, acutum; sepala lateralia anguste-lanceolata, acuta vel acuminata; petala elliptico-lanceolata acuminata, breviter unguiculata; labellum trilobatum, subcruciforme, lobi laterales rotundati lobus medianus oblongo-ovatus, acutus; columna brevis, erecta, auriculato-dentata.

Epiphytic herbs, the pseudobulbs borne proximately on a short rhizome, ovoid, compressed, with two prominent ridges on each side, about 6 cm. long and 3.5 cm. broad, pseudobulbs subtended by a basal sheath and by two unequal cataphylls, the outer one smaller, the inner one to 10 cm. long and similar to a normal leaf; leaves one or two from the apex of the pseudobulbs, ligulate, emarginate, obtuse, subcoriaceous, conduplicate and somewhat narrowed to the base, about 15 cm. long and 2.5 cm. broad; inflorescence a few-flowered raceme borne from the base of the pseudobulbs, up to about 45 cm. long, the basal portion with internodes 4-5 cm. long and each with a closely appressed sheath about 1 cm. long; flowers pedicellate, about seven, the pedicels slender, about 2 cm. long, subtending bracts cucullate, ovate, about 4 mm. long; dorsal sepal oblanceolate, acute, about 1.6 cm. long and 0.5 mm. broad; lateral sepals narrowly lanceolate, acute or acuminate, slightly contracted to a claw-like base, about 2.2 cm. long and 0.4-0.5 cm. broad; petals obliquely elliptic-lanceolate, acuminate, short unguiculate at the base, about 1.6 cm. long and 0.5-0.6 cm. broad; lip trilobate, somewhat cruciform, about 1.8 cm. long and 1.2 mm. broad across the lateral lobes, the two prominent auriculate lateral lobes below the middle, rounded, the mid-lobe oblong-ovate, acute, about 9 mm. long and 7 mm. broad, disc with a rounded, sulcate, pubescent callus on the claw of the lip, provided with a pair of central keels each with a lateral horn-like process on the outer side, the callus about 1 cm. long; column short, stout, erect, auriculate-dentate on each side opposite base of stigma; ovary elongating in fruit.



Nicaragua: epiphyte, flowers brown maculate, Yalí, Dept. Jinotega, alt. 1,100 m., Feb. 1968, flowered in cultivation May 1968, *Heller 11305* (type, $\frac{1}{2}$ F).

This species has the habit of *Odontoglossum stenoglossum* (Schltr.) L. Wms. and *O. pauciflorum* L. Wms., but the structure of the flowers more nearly resembles that of *O. schlieperianum* Reichb. f. and the coloring that of *O. maculatum* Llave & Lex.

The illustration was prepared in Nicaragua from living material, the enlarged flower and lip drawn by Miss Davida Simon from preserved materials.

FIG. 1. *Odontoglossum subcruciforme*. A, habit, $\times \frac{1}{2}$; B, flower with labellum pulled downward, $\times 2$; C, labellum, $\times 3$; D, column and lip from side, $\times 2$; E, pollinia, much enlarged.

Publications 1071, 1072, 1073, and 1074

UNIVERSITY OF ILLINOIS-URBANA

580.5FB C001
FIELDIANA, BOTANY\$CHICAGO
32:1-16 1968-70



3 0112 009379147