









FIELDIANA: BOTANY

A Continuation of the

BOTANICAL SERIES

of

FIELD MUSEUM OF NATURAL HISTORY

VOLUME 32



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TABLE OF CONTENTS

| 1. | A New Guatemalan Spigelia. By Dorothy N. Gibson |
|-----|---|
| 2. | Three New Nicaraguan Epidendrums. By Alfonso H. Heller |
| 3. | Syagrus oleracea (Mart.) Becc. and Closely Related Taxa. By S. F. Glassman |
| 4. | Tropical American Plants, X. By Louis O. Williams |
| 5. | Two New Guatemalan Tournefortias. By Dorothy N. Gibson |
| 6. | A New Member of $Morganella$. By Patricio Ponce de Leon |
| 7. | A New $Odontoglossum$ from Nicaragua. By Alfonso H. Heller $\ldots \ldots 73$ |
| 8. | Studies in the Palm Genus Syagrus Mart. II. By S. F. Glassman $\ldots77$ |
| 9. | Revision of the Genus Vascellum (Lycoperdaceae). By Patricio Ponce de Leon |
| 10. | A Conspectus of the Palm Genus $Butia$ Becc. By S. F. Glassman $\ldots127$ |
| 11. | Studies in American Plants, II. By Dorothy N. Gibson |
| 12. | Tropical American Plants, XI. By Louis O. Williams |
| 13. | The Juglandaceae of Guatemala. By Louis O. Williams and Antonio Molina R |
| 14. | An Overlooked Genus of the Scrophulariaceae. By Louis O. Williams 211 |
| 15. | A Synopsis of the Palm Genus $Syagrus$ Mart. By S. F. Glassman |
| 16. | A New Hybrid in the Palm Genus Syagrus Mart. By S. F. Glassman 241 |



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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

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TWO NEW GUATEMALAN TOURNEFORTIAS

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CONTENTS

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



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A New Odontoglossum from Nicaragua

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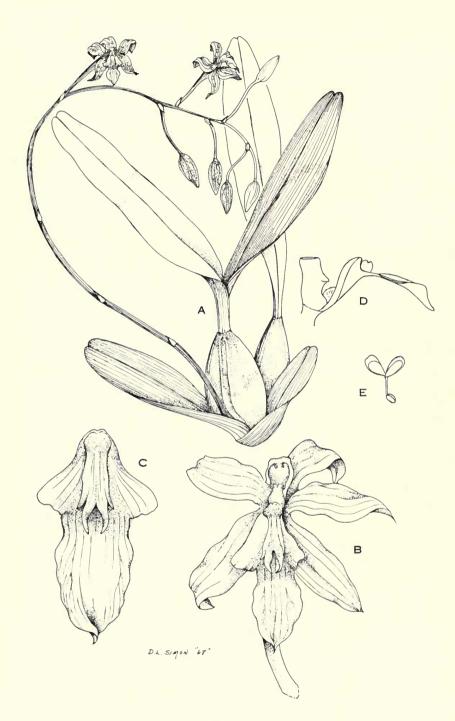
The genus *Odontoglossum* is not a large one in Central America and in Nicaragua. I have recorded only two other species, *O. krameri* Reichb. f. and *O. oerstedii* Reichb. f. Other species are to be expected here as exploration continues.

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.

Library of Congress Catalog Card Number: 75-92474



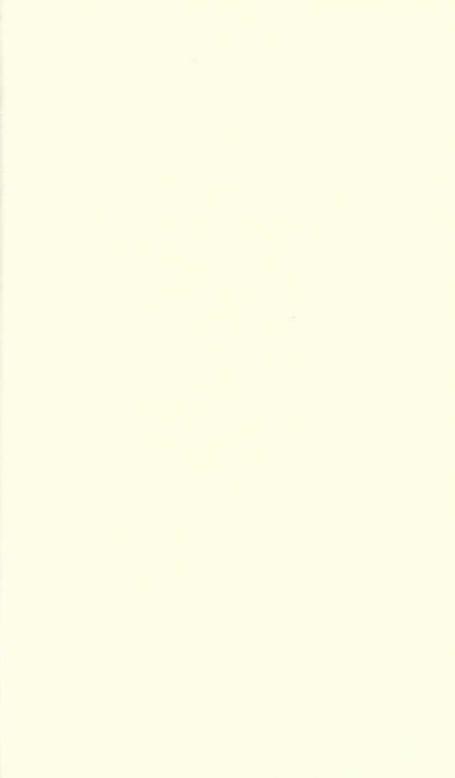
Nicaragua: epiphyte, flowers brown maculate, Yalí, Dept. Jinotega, alt. 1,100 m., Feb. 1968, flowered in cultivation May 1968, *Heller 11305* (type, F).

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.

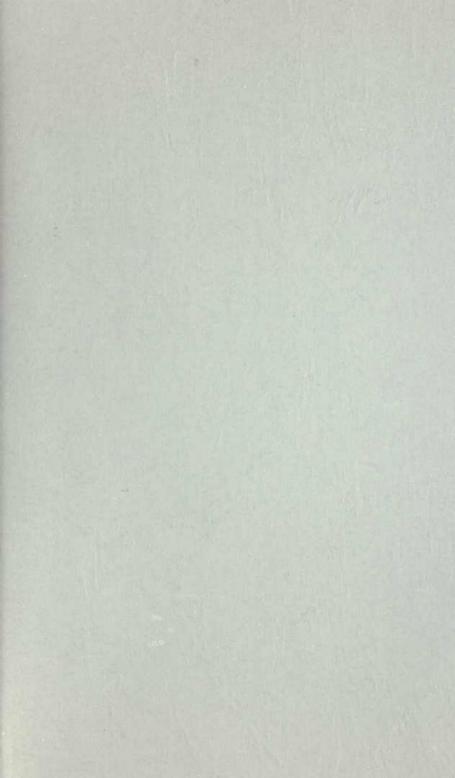
The illustration was prepared in Nicaragua from living material, the enlarged flower and lip drawn by Miss Davida Simon from preserved materials.

Fig. 1. Odontoglossum subcruciforme. A, habit, \times ½; B, flower with labellum pulled downward, \times 2; C, labellum, \times 3; D, column and lip from side, \times 2; E, pollinia, much enlarged.

















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