

ADDITIONS TO THE ORCHID FLORA OF BELIZE, CENTRAL AMERICA

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ABSTRACT. The National Botanic Gardens, Glasnevin, Dublin, Ireland have travelled to Belize, Central America on five expeditions for the main purpose of collecting living specimens of Orchidaceae. Four of the expeditions were in conjunction with Belize Botanic Gardens. As a result of these expeditions 17 new records for Orchidaceae are being added to the published flora.

RESUMEN. Los Jardines Botánicos Nacionales de Glasnevin, Dublín, Irlanda, han realizado cinco expediciones a Belice, América Central, con el objetivo principal de recolectar especímenes vivos de Orchidaceae. Cuatro de las expediciones se realizaron en conjunto con el Jardín Botánico de Belice. Como resultado de estas expediciones se añadieron a las floras publicadas 17 nuevos registros de Orchidaceae.

PALABRAS CLAVE / KEY WORDS: Orchidaceae, Belice, Nuevos registros.

Introduction. The National Botanic Gardens, Glasnevin (NBBG) expeditions took place on an annual basis from 1996 to 2000. Brendan O'Donoghue, a past student of the NBBG, assisted the 1996 expedition, the 1997 expedition was assisted by Brendan O'Donoghue and Belize Botanic Gardens and the 1998, 1999 and 2000 were joint expeditions with Belize Botanic Gardens.

As reference, each expedition used *The Native Orchids of Belize* (McLeish, Pearce & Adams 1995). This publication lists 278 species, in 92 genera recorded from the country.

The recently published Checklist of the Vascular Plants of Belize, (Balick, Nee & Atha 2000) lists 279 species in 93 genera. The additional species to those listed in *The Native Orchids of Belize* is *Oeceoclades maculata* (Lindl.) Lindl., a species encountered several times by the expeditions.

The two lists differ in the entries for *Mormodes* and *Coryanthes*. Checklist of the Vascular Plants of Belize replaces *Mormodes buccinator* Lindl. with *Mormodes sotoana* Salazar, citing a misapplication and *Coryanthes speciosa* (Hook.) Hook. with *Coryanthes picturata* Rchb.f, a synonym of the former.

All other entries are similar with the exception of *Encyclia cochleata* (L.) Lemée entered in The Checklist of the Vascular Plants of Belize as *Encyclia*

cochleata (L.) Lemée var. *cochleata*.

To date 17 of the specimens have been identified as new records of Orchidaceae for the Belizean flora. Some of these records have been included in reports of the expeditions lodged in the Library, National Botanic Gardens, Glasnevin, Ireland and with the Department of Forestry and Natural Resources, Belmopan, Belize. The new record for *Lepanthes arachnion* Luer & Dressler was mentioned in an article on Belizean orchids in *Orchid Review*, Vol. 106, p. 145.

The following is a list of the new records with their relevant collection data. Carlyle Luer (Pleurothallidinae) or Robert Dressler, both Research Associates of Missouri Botanical Garden have identified the specimens. The specimens have all been lodged in Missouri Botanical Gardens (MO).

The following are the new records with their original publication data. Synonyms are also given, followed by their collection number and the collection data.

Cochleanthes flabelliformis (Sw.) R.E. Schult. & Garay, Bot. Mus. Leafl. Harvard Univ. 18: 324. 1959. *Epidendrum flabelliforme* Sw., *Chondrorhyncha flabelliformis* (Sw.) Alain, *Cymbidium flabelliforme* (Sw.) Sw., *Zygotetrum flabelliforme* (Sw.) Rchb.f., *Warczewiczella flabelliformis* (Sw.) Cogn.

VOUCHER: vicinity Little Quartz Ridge camp, Toledo District; epiphytic in wet forest, 30/7/2000, *B. Sayers* 00/852.

Cranichis muscosa Sw., Prod. Veg. Ind. Occ. 120.

VOUCHER: Union Camp, Toledo District; terrestrial in leaf litter, close to stream, 12/9/1999, *B. Sayers* 99/738.

8Dresslerella powellii (Ames) Luer, Selbyana 3 (1/2): 8. 1976. *Cryptophoranthus powellii* Ames, *Pleurothallis deceptrix* Dressler.

VOUCHER: Mount Margaret, Cayo District; epiphytic in moist and clouded forest, 18/9/1999, *B. Sayers* 99/772.

Kegeliella atropilosa L.O. Williams & A.H. Heller, Fieldiana, Bot. 31: 39. 1964.

VOUCHER: Mount Margaret, Cayo District; epiphytic in wet forest, 18/9/1999, *B. Sayers* 99/768.

Lepanthes arachnion Luer & Dressler, Orquideologia, 16(3): 6. 1986.

VOUCHER: Chiquibul Forest, Cayo District; epiphytic in wet forest, 4/1997, *B. Sayers* 97/241.

Lepanthopsis floripecten (Rchb.f.) Ames, Bot. Mus. Leafl. Harvard. Univ. 9: 11. 1933. *Pleurothallis floripecten* Rchb.f.

VOUCHER: Halfway camp, Chiquibul Forest, Cayo District; epiphytic in wet forest, 27/7/2000, *B. Sayers* 00/801.

Maxillaria cobanensis Schltr., Repert. Sp. Nov. Regni. Veg. Beih. 10: 295. 1912.

VOUCHER: vicinity Little Quartz Ridge camp, Toledo District; epiphytic in wet forest, 30/7/2000, *B. Sayers* 00/890.

Mesadenus polyanthus (Rchb.f.) Schltr., Beih. Bot. Centralbl. 37(2): 369. 1920. *Spiranthes polyantha* Rchb.f.

VOUCHER: vicinity Puentes Naturales, Chiquibul Forest, Cayo District, terrestrial in leaf litter, 13/4/1997, *B. Sayers* 97/379.

Macroclinium paniculatum (Ames & C. Schweinf.) Dodson, Ic. Pl. Trop., 10: t 938. 1984. *Notyliopsis paniculata* Ames & C. Schweinf.

VOUCHER: vicinity Union Camp, Toledo District; epiphytic in wet forest, 12/9/1999, *B. Sayers* 99/722.

Oncidium subcruciforme (Heller) Garay & Stacy, Bradea 1(40): 408 (1974). G.A. Salazar also made this comb. nov. in Anales. Inst. Biol. Nac. Auton. Mexico Bot. 70 (1): 10. 1999. *Odontoglossum subcruciforme* Heller.

VOUCHER: Chiquibul Forest, Cayo District; epiphytic in wet forest, 4/1997, *B. Sayers* 97/222.

Platystele minimiflora (Schltr.) Garay, Orquideologia 9(2): 120. 1974. *Pleurothallis minimiflora* Schltr.

VOUCHER: Chiquibul Forest, Cayo District; epiphytic in wet forest, 4/1997, *B. Sayers* 97/304.

Platystele ovatilabia (Ames & C. Schweinf.) Garay, Orquideologia 9:120. 1974. *Pleurothallis ovatilabia* Ames & C. Schweinf.

VOUCHER: Little Quartz Ridge camp, Toledo District; epiphytic in wet forest, 30/7/2000, *B. Sayers* 00/879.

Pleurothallis deregularis (Barb. Rodr.) Luer, Selbyana 2:385. 1978. *Stelis deregularis* Barb. Rodr.

VOUCHER: Little Quartz Ridge camp, Toledo District; epiphytic in wet forest, 1/8/2000, *B. Sayers* 00/981.

Pleurothallis duplooyi Luer & Sayers, Rev. Soc. Boliv. Bot. 3(1/2): 48. 2001.

VOUCHER: Little Quartz Ridge camp, Toledo District; epiphytic in wet forest, 1/8/2000, *B. Sayers* 00/997.

Pleurothallis johnsonii Ames, Sched. Orchid. 2:21. 1923. *Acianthera johnsonii* (Ames) Pridgeon & M.W. Chase.

VOUCHER: Mount Margaret, Cayo District; epiphytic in moist and clouded forest, 18/9/1999, *B. Sayers* 99/775.

Pleurothallis peperomioides Ames, Sched. Orchid. 6: 64. 1923. *Phloephila peperomioides* (Ames) Pridgeon & M.W. Chase.

VOUCHER: Hidden Valley, Cayo District; epiphytic in wet forest, 27/4/1998, *B. Sayers* 98/642.

Pleurothallis spectrilinguis Rchb.f., Gard. Chron 1882(2): 457. 1882.

VOUCHER: Little Quartz Ridge camp, Toledo District; epiphytic in wet forest, 30/7/2000, *B. Sayers* 00/877.

Campylocentrum poeppigii (Rchb.f.) Rolfe, Orch. Rev. 11: 246. 1903. *Angraecum poeppigii* Reichb.f.

VOUCHER: Aguacate Park, Spanish Lookout, Cayo, epiphytic on dead twigs, 24/4/1998, *B. Sayers* 98/641.

Campylocentrum poeppigi was collected on the expeditions but had previously been collected by Schipp (*Schipp* 339) (Dressler in litt.). It is not listed in Native Orchids of Belize nor Checklist of the Vascular Plants of Belize.

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