

Cymbidium lineare Willd., Sp. Pl. 4: 97. 1805.

West Indies, Mexico, Central America, Panama and South America.

ISOCHILUS LINEARIS var. CARNOSIFLORUS (Lindl.)

Correll in Bot. Mus. Leafl. Harv. Univ. 10: 7. 1941.

Mexico, British Honduras and Costa Rica.

ISOCHILUS MAJOR Cham. & Schlecht. in Linnæa 6: 60. 1831.

Isochilus chiriquensis Schltr. in Fedde Rep. Beih. 17: 25. 1922.

West Indies and Mexico to Panama.

ISOCHILUS MAJOR var. ALATUS (Schltr.) Correll in Bot. Mus. Leafl. Harv. Univ. 10: 11. 1941.

Isochilus alatus Schltr. in Fedde Rep. 10: 360. 1912.

Guatemala.

ISOCHILUS MAJOR var. AMPAROANUS (Schltr.) Correll in Bot. Mus. Leafl. Harv. Univ. 10: 11. 1941.

Isochilus Amparoanus Schltr. in Fedde Rep. Beih. 19: 27. 1923.

Mexico, Guatemala, Honduras and Costa Rica.

ARPOPHYLLUM La Llave & Lexarza, Nov. Veg. Descr. Opusc. 19. 1925; Correll in Lloydia 10: 214. 1947.

Species of this genus are often exceedingly abundant in individuals in the high cloud forests of our region.

ARPOPHYLLUM ALPINUM Lindl. in Benth., Pl. Hartw. 93. 1842.

Arpophyllum medium Reichb. f., Beitr. Orch. Cent. Am. 89. 1866.

Mexico, Guatemala and Honduras.

ARPOPHYLLUM SPICATUM Llave & Lex., Nov. Veg. Descr. Opusc. 19. 1825.

Arpophyllum giganteum Hartw. ex Lindl. in Ann. & Mag. Nat. Hist. 4: 384. 1840.

Arpophyllum cardinale Lind. & Reichb. f. in Bonpl. 2: 282. 1854.

Arpophyllum squarrosum Hort. Donal ex Lubbers, Cat. Pl. Rar. San Donato 15. 1880.

Arpophyllum stenostachyum Schltr. in Fedde Rep. Beih. 19: 32. 1923.

Mexico, Guatemala, Honduras and Costa Rica.

COELIA Lindl., Gen. & Sp. Orch. Pl. 36. 1830; Lindl. in Bot. Reg. 28: t. 36. 1842.

COELIA TRIPTERA (Smith) G. Don ex Steudel, Nom. ed. 2, 1: 394. 1840; A. & C. in Fieldiana Bot. 26: 458, f. 123. 1953.

Epidendrum tripterum Smith, Ic. Pict. t. 14. 1793.

Coelia Baueriana Lindl., Gen. & Sp. Orch. Pl. 36. 1830.

West Indies, Mexico and Guatemala.

BOTHRIOCHILUS Lemaire, Illustr. Hort. 3: Misc p. 31. 1856; L. Wms. in Bot. Mus. Leafl. Harv. Univ. 8: 145. 1940.

BOTHRIOCHILUS BELLUS Lemaire, Illustr. Hort. 3: Misc. p. 30. 1853.

Bifrenaria bella Lemaire in Jard. Fleur. 3: t. 325. 1353.

Coelia bella Reichb. f. in Walp. Ann. 6: 218. 1861.

Coelia picta Batem. ex Hook. in Bot. Mag. sub. t. 6628. 1882, *nomen*.

Guatemala and Honduras.

BOTHRIOCHILUS DENSIFLORUS (Rolfe) A. & C. in Bot. Mus. Leafl. Harv. Univ. 10: 86. 1942.

Coelia densiflora Rolfe in Kew Bull. 375. 1906.

Guatemala and Honduras.

BOTHRIOCHILUS GUATEMALENSIS (Reichb. f.) L. Wms.
in Bot. Mus. Leafl. Harv. Univ. 8: 147. 1940.

Coelia guatemalensis Reichb. f. in Walp. Ann. 6: 219.
1861.

Guatemala.

BOTHRIOCHILUS MACROSTACHYUS (Lindl.) L. Wms.
in Bot. Mus. Leafl. Harv. Univ. 8: 148. 1940.

Coelia macrostachya Lindl. in Benth., Pl. Hartw. 92.
1842.

Coelia macrostachya var. *genuina* Reichb. f., Beitr.
Orch. Cent. Am. 41. 1866.

Coelia macrostachya var. *integrilabia* Reichb. f., l. c.
Mexico, Guatemala, Honduras and Panama.

POLYSTACHYA Hook., Exot. Fl. 2: t. 103. 1825.

A genus with few species in America but with a large
number in Africa.

POLYSTACHYA CINGULATA Reichb. f. ex Kränzl. in
Fedde Rep. Beih. 39: 81. 1926.
Costa Rica.

POLYSTACHYA FOLIOSA (Lindl.) Reichb. f. in Walp.
Ann. 6: 640. 1861.

Stelis foliosa Lindl. in Ann. Mag. Nat. Hist. 2: 330, t.
17. 1839.

Polystachya cerea Lindl. in Bot. Reg. 26: Misc. 86.
1840.

Polystachya clavata Lindl., l. c. 28: Misc. p. 61. 1842.

Polystachya minor Fawc. & Rendle in Journ. Bot. 48:
106. 1910.

Polystachya guatemalensis Schltr. in Fedde Rep. 17:
141. 1921.

Polystachya panamensis Schltr. in Fedde Rep. Beih.
17: 49. 1922.

Polystachya costaricensis Schltr. in Fedde Rep. Beih. 19: 223. 1923.

Polystachya Powellii Ames, Sched. Orch. 7: 31. 1924.
West Indies, Central America and South America.

POLYSTACHYA LINEATA Reichb. f. in Saund., Ref. Bot. 2: t. 80-81. 1869.

Mexico, Guatemala and Honduras.

POLYSTACHYA LUTEOLA (Sw.) Hook.

This species, or a synonym of it (*P. minuta* (Aubl.) Britt., non R. & G.), has been reported from Mexico and Central America. It probably does not occur.

POLYSTACHYA MASAYENSIS Reichb. f. in Bonpl. 3: 217. 1855.

Very closely allied to *P. foliosa* if not the same as that species.

Mexico, Guatemala, Nicaragua, Costa Rica and Panama.

GALEANDRA Lindl. in Lindl. & Paxt., Illustr. Orch. Pl., Gen. t. 8. 1832.

GALEANDRA BAUERI Lindl. in Lindl. & Paxt., Illustr. Orch. Pl., Gen. t. 8. 1832; Batem., Orch. Mex. & Guat. t. 19. 1840; Lindl. in Bot. Reg. 26: t. 49. 1840; L. Wms. in Ann. Mo. Bot. Gard. 26: 284. 1939.

Galeandra Batemanii Rolfe in Gard. Chron. 3, 12: 431. 1892.

Mexico, British Honduras, Guatemala, Honduras, Panama and South America.

GALEANDRA BEYRICHII Reichb. f. in Linnaea 24: 854. 1849.

Florida, West Indies, Costa Rica, Panama and South America.

GALEANDRA JUNCEA Lindl., Sert. Orch sub t. 37. 1840.
Panama and South America.

EPIDANTHUS L. Wms. in Bot. Mus. Leafl. Harv. Univ. 8: 148. 1940.

Epidanthus, although not very closely allied to *Epidendrum*, has been treated as *Epidendrum* by most of the Orchidologists who have worked with western orchids, as synonymy will show.

EPIDANTHUS GONIORHACHIS (Schltr.) L. Wms. in Bot. Mus. Leafl. Harv. Univ. 8: 150. 1940.

Epidendrum goniorhachis Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 462. 1918.

Costa Rica.

EPIDANTHUS MUSCICOLA (Schltr.) L. Wms. in Bot. Mus. Leafl. Harv. Univ. 8: 151. 1940.

Epidendrum muscicola Schltr. in Fedde Rep. Beih. 19: 214. 1923.

Epidendrum linifolium Ames, Sched. Orch. 7: 7, t. 20. 1924.

Costa Rica.

EPIDANTHUS PARANTHICUS (Reichb. f.) L. Wms. in Bot. Mus. Leafl. Harv. Univ. 8: 150. 1940.

Epidendrum paranthicum Reichb. f. in Bot. Zeit. 10: 732. 1852.

Epidendrum Sancti-Ramoni Kränzl. in Vierteljahrschr. Naturforsch. Gesell. Zürich 74: 137. 1924.

Mexico, Guatemala, Honduras, Costa Rica and Panama.

CORALLORRHIZA (Haller) R. Br. in Aiton, Hort. Kew. ed. 2, 5: 209. 1813.

A genus predominately of north temperate regions, extending south as far as Honduras.

CORALLORRHIZA MACRANTHA Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 411. 1918.
Mexico and Guatemala.

CORALLORRHIZA MACULATA Raf. in Am. Mo. Mag. 2. 119. 1817.

Corallorrhiza mexicana Lindl., Gen. & Sp. Orch. Pl. 534. 1840.

Mexico and Guatemala.

CORALLORRHIZA ODONTORHIZA (Willd.) Nutt., Gen. Am. Pl. 2: 197. 1818.

Cymbidium odontorhiza Willd., Sp. Pl. ed. 4, 4: 110. 1805.

United States, Mexico, Guatemala and Honduras.

CALANTHE R. Br. in Bot. Reg. 7. sub t. 573. 1821.

Calanthe has only the following species in America but in Asia, Africa and Oceania there are a great many species, some of them very attractive.

CALANTHE MEXICANA Reichb. f. in Linnæa 18: 406. 1844.

West Indies, Mexico, Guatemala, Honduras, Costa Rica and Panama.

PHAJUS Lour., Fl. Cochinch. 529. 1790.

About fifty species in Asia, Africa, Australia and Oceania. None native of America but the following presumed to be naturalized in Florida and Panama, possibly elsewhere.

PHAJUS TANKERVILLÆ Blume.

An Asiatic or Oceanic species much cultivated and possibly naturalized as an escape.

Florida, Panama.

BLETIA Ruiz & Pavon, Fl. Peruv. & Chil. Prodr. 119, t. 26. 1794.

A genus of terrestrial orchids of which some are quite attractive. The taxonomy of the species is complicated and a revision of them is needed.

BLETIA EDWARDSII Ames in Proc. Biol. Soc. Wash. 45: 1. 1932.

Honduras.

BLETIA ENSIFOLIA L. Wms. in Bot. Mus. Leaflet. Harv. Univ. 12: 245. 1946.

Mexico and Guatemala.

BLETIA GRACILIS Lodd., Bot. Cab. 20: t. 1977. 1833; Lindl. in Bot. Reg. 20: t. 1681. 1835.

Mexico and (?) Guatemala.

BLETIA GRACILIS var. ROEZLII (Reichb. f.) L. Wms. in Ceiba 1: 188. 1950.

Bletia Roezlii Reichb. f. in Linnaea 4: 7. 1877.

Bletia papillifera Ames in Bot. Mus. Leaflet. Harv. Univ. 1, No. 6: 5, t. 1933.

Mexico, Guatemala and Honduras.

BLETIA PURPUREA (Lam.) DC. in Mém. Soc. Phys. Nat. Geneve 9: 97, 100. 1841.

Limodorum purpureum Lam., Encycl. Méth. Bot. 3: 515. 1791.

Limodorum verecundum Salisb., Prodr. Stirp. 9. 1796.

Limodorum floridum Salisb., 1. c.

Bletia verecunda R. Br. in Ait., Hort. Kew. ed. 2, 5: 206. 1813.

Bletia florida R. Br., 1. c.; Lindl. in Bot. Reg. 17: t. 1401. 1831.

Bletia pallida Lodd., Bot. Cab. 7: t. 629. 1822.

Bletia Pottsii S. Wats. in T. Brigham, Guatem. app. 478, 1888.

Florida, West Indies, Mexico, Central America, Panama and South America.

BLETIA REFLEXA Lindl. in Bot. Reg. 21: t. 1760. 1835.

Limodorum Lankesteri A. & S., Sched. Orch. 10: 78. 1930.

Bletia Lankesteri AHS. in Bot. Mus. Leafl. Harv. Univ. 3: 41. 1934.

Mexico, Guatemala, El Salvador, Honduras, Costa Rica and Panama

CHYSIS Lindl. in Bot. Reg. 23: t. 1937. 1837; Allen in Am. Orch. Soc. Bull. 24: 664. 1955.

A Central and South American genus with quite attractive, fleshy flowers.

CHYSIS AUREA Lindl. in Bot. Reg. 23: t. 1937. 1837; Hook. in Bot. Mag. 64: t. 3617. 1837.

Chysis laevis Lindl. 1. c. 26: Misc. p. 61. 1840; Batem., Orch. Mex. & Guat. t. 31. 1842.

Chysis aurea var. *maculata* Hook. in Bot. Mag. t. 4576. 1851.

Chysis aurea forma *typica* Allen in Am. Orch. Soc. Bull. 24: 665. 1955, *lapsus*.

Chysis aurea forma *maculata* Allen, 1. c.

Mexico, British Honduras, Guatemala, Honduras, Costa Rica, Panama and South America.

CHYSIS BRACDESCENS Lindl. in Bot. Reg. 26: Misc. p. 61. 1840; Hook. in Bot. Mag. 86: t. 5186. 1860; Hagerup & Williams in Am. Orch. Soc. Bull. 10: 23, t. 1. 1941.

Thorvaldsenia speciosa Liebm. in Bot. Notis. 103. 1844.

Chysis aurea var. *bractescens* Allen in Am. Orch. Soc. Bull. 24: 665. 1955.

Mexico and Guatemala.

CHYSIS COSTARIGENSIS Schltr. in Fedde Rep. Beih. 19: 297. 1923.

Allen, in Am. Orch. Soc. Bull. 24: 666. 1955, has placed this as a synonym of *C. laevis* Lindl. There is no indication that he saw authentic material.

Costa Rica.

CHYSIS TRICOSTATA Schltr. in Notizbl. Bot. Gard. Berl. 8: 123. 1923.

A species of uncertain origin. Schlechter determined a Costa Rican specimen as belonging to this species. Allen reduced the name to *C. laevis* Lindl. but probably did not see any material.

BULBOPHYLLUM Thouars, Hist. Pl. Orch. Tabl. des Espec. III, t. 93-97. 1822.

Bolbophyllaria Reichb. f. in Bot. Zeit. 10: 934. 1852.

Bulbophyllum is one of the few orchid genera with representatives on all of the tropical continents. It is a very large genus with but few species in the new world.

BULBOPHYLLUM ARISTATUM Hemsl. in Godm. & Salv., Biol. Cent. Am. Bot. 3: 213. 1883.

Bolbophyllaria aristata Reichb. f., Beitr. Orch. Cent. Am. 60. 1866.

Mexico, Guatemala, Honduras, Costa Rica and Panama

BULBOPHYLLUM OERSTEDII Hemsl. in Godm. & Salv., Biol. Cent. Am. Bot. 3: 213. 1883.

Bolbophyllaria Oerstedii Reichb. f. Beitr. Orch. Cent. Am. 60. 1866.

Nicaragua.

BULBOPHYLLUM PACHYRACHIS (A. Rich.) Griseb., Fl. Brit. W. Indies 613. 1864, as *Bolbophyllum pachyrrachis*.

Pleurothallis? pachyrrachis A. Rich. in La Sagra, Hist. Cub. 11: 234, t. 74. 1850.

Bulbophyllum vinosum Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 411. 1918.

West Indies, Mexico, Guatemala, Honduras, Costa Rica, Panama and South America.

BULBOPHYLLUM SORDIDUM Lindl. in Bot. Reg. 26: Misc. p. 89. 1840.

Bolbophyllaria sordida Reichb. f. in Walp. Ann. 6: 242. 1861.

Guatemala.

BULBOPHYLLUM WAGNERI Schltr. in Fedde Rep. 17: 142. 1921.

Panama.

EULOPHIA R. Br. in Bot. Reg. 8: t. 686. 1823.

A large genus in Asia and Africa but with few species in America.

EULOPHIA ALTA (L.) Fawc. & Rendle, Fl. Jam. 1: 112, t. 22. 1910.

Limodorum altum L., Syst. ed. 12, 2: 594. 1767.

Cyrtopodium Woodfordii Sims, Bot. Mag. 43: t. 1814. 1816; Lindl. in Bot. Reg. 18: t. 1508. 1832.

Cyrtopera Woodfordii Lindl., Gen. & Sp. Orch. Pl. 189. 1833.

Cyrtopera longifolia var. *pachystelidia* Reichb. f. in Bot. Zeit. 10: 734. 1852.

Eulophia Woodfordii Rolfe in Fl. Trop. Afr. 7: 68. 1897.

Florida, West Indies, Mexico, Guatemala, British Honduras, Honduras, Panama, South America and Africa.

CYRTOPODIUM R. Br. in Aiton, Hort. Kew. ed. 2, 5: 216. 1813.

Cyrtopodium is a small genus of perhaps less than ten species in the American tropics and subtropics, mostly in South America.

CYRTOPODIUM PUNCTATUM (L.) Lindl., Gen. & Sp. Orch. Pl. 188. 1833.

Epidendrum punctatum L., Syst. Nat. 2: 1246. 1760.

Cyrtopodium Willmorei Knowl. & Westc., Fl. Cab. 1: t. 4. 1837.

Florida, West Indies, Mexico, Guatemala, Honduras, Costa Rica and South America.

WARREA Lindl. in Bot. Reg. n. s. 6: Misc. p. 14. 1843.
A genus with a single species in our range.

WARREA COSTARICENSIS Schltr. in Fedde Rep. 16: 446. 1920; L. Wms. in Ann. Mo. Bot. Gard. 26: 284. 1939.
Costa Rica and Panama.

GOVENIA Lindl. in Lodd., Bot. Cab. 18: t. 1709. 1831.

Govenia is a difficult genus taxonomically even though there are relatively few species. See Correll in Lloydia 10: 218-228. 1947 for a different interpretation of the taxa. The lip of *G. ciliilabia* is ciliate. The flowers of *G. superba* are orange or yellow; the flowers of *G. liliacea* are white or cream color and the var. *Purpusii* has only one leaf instead of two.

GOVENIA CILIILABIA A. & S., Sched. Orch. 10: 80. 1930.
Costa Rica and Panama.

GOVENIA LILIACEA (Llave & L.) Lindl. in Bot Reg. 21: t. 1795 in text. 1836; Lindl. 1. c. 24: t. 13. 1838.

Maxillaria liliacea La Llave & Lex., Orch. Mex. pars 2: 12. 1824.

Govenia deliciosa Reichb. f. in Bot. Zeit. 10: 836. 1852; Reichb. f. in Walp. Ann. 6: 557. 1863.

Govenia quadruplicata Reichb. f., Beitr. Orch. Cent. Am. 75. 1866.

Govenia Powellii Schltr. in Fedde Rep. Beih. 17: 51. 1922.

Mexico, Guatemala, El Salvador, Honduras, Costa Rica and Panama.

GOVENIA LILIACEA var. PURPUSII (Schltr.) L. Wms. in Bot. Mus. Leafl. Harv. Univ. 7: 146. 1939.

Govenia Purpusii Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 412. 1918; Schltr. in Fedde Rep. Beih. 59: t. 61, fig. 241. 1921.

Govenia mutica var. *purpusii* Correll in Lloydia 10: 222. 1947.

Mexico. Reported in Guatemala and Honduras by Correll, l. c.

GOVENIA SUPERBA (Llave & Lex.) Lindl. ex Lodd., Bot. Cab. 18: t. 1709. 1831; Lindl. in Bot. Reg. 8: t. 1795. 1836; Knowl. & Westc., Flor. Cab. 1: t. 41. 1837.

Maxillaria superba La Llave & Lex., Orch. Mex pars 2: 13. 1824.

Mexico, Guatemala and El Salvador.

EXCLUDED SPECIES.

GOVENIA MUTICA Reichb. f. in Bot. Zeit. 10: 856. 1852. Reported by Correll, Lloydia 10: 221. 1947, from Mexico and Guatemala. This species is obscure.

GOVENIA UTRICULATA (Sw.) Lindl. in Bot. Reg. 25: Misc. 47. 1839. Correll, Lloydia 10: 221. 1947, uses this name to cover various West Indian, Mexican, Central and South American concepts. I do not believe that this species occurs in Central America.

MORMODES Lindl., Nat. Syst. Bot. ed. 2: 446. 1835.

Cyclosia Kl., in Allgem. Gartens. 6: 305. 1838.

A fascinating genus of orchids in which the floral segments are often subject to torsion. The parts of the flowers are often quite polymorphic.

MORMODES AROMATICA Lindl. in Bot. Reg. 27: Misc. p. 76. 1841; Lindl., l. c. 29: t. 56. 1843.

Mexico and Honduras.

MORMODES ATROPURPUREUM Lindl., Introd. Nat. Syst.
Bot. ed. 2, 446. 1836.
Costa Rica and Panama.

MORMODES COLOSSUS Reichb. f. in Bot. Zeit. 10: 636.
1852.

Mormodes macranthum Lindl. & Paxt. in Paxt., Fl.
Gard. 3: 98. 1852-53.

Mormodes Wendlandii Reichb. f. in Walp. Ann. 6:
581. 1861.

Mormodes Powellii Schltr. in Fedde Rep. Beih. 17: 55.
1922.

Costa Rica and Panama.

MORMODES FRACTIFLEXUM Reichb. f. in Gard. Chron.
141. 1872.
Costa Rica.

MORMODES HOOKERI Lem., Jard. Fleur. 1: Misc. p.
116. 1851-54.

Mormodes atropupureum Hook. in Bot. Mag. t. 4577.
1851, non Lindl.

Mormodes barbatum Lindl. & Paxt. in Paxt., Fl. Gard.
2: 57. 1851-53.

Costa Rica and Panama.

MORMODES IGNEUM Lindl. & Paxt. in Paxt., Fl. Gard.
3: 97, t. 93. 1851-53.
Costa Rica, Panama and South America.

MORMODES LINEATUM Batem. ex Lindl. in Bot. Reg.
27: Misc. p. 52. 1841; Lindl. in Bot. Reg. 28: t. 43. 1842.

Mormodes histrio Linden & Reichb. f. in Hamb.
Gartenz. 15: 54. 1859.

Mexico, Guatemala and Honduras.

MORMODES LOBATUM Schltr. in Fedde Rep. 8: 456.
1910.
Costa Rica.

MORMODES NAGELII L. Wms. in Am. Orch. Soc. Bull.
9: 153, t. 1940.
Very close to *Mormodes stenoglossum* and possibly a
synonym of it.
Mexico and Guatemala.

MORMODES SKINNERI Reichb. f. in Gard. Chron. 50.
1869.
Guatemala and Costa Rica.

MORMODES STENOGLOSSUM Schltr. in Fedde Rep. Beih.
19: 225. 1923.
Costa Rica.

EXCLUDED SPECIES.

MORMODES BUCCINATOR Lindl. in Bot. Reg. 26: Misc.
p. 10. 1840. This is a Mexican species which has been often
credited to Central America.

CATASETUM L. C. Rich. in Kunth, Syn. Pl. Aequin.
1: 330. 1822; Mansfeld in Fedde Rep. Beih. 30: 257-275.
1932 and 31: 99-125. 1932.

Myanthus Lindl. in Bot. Reg. 18: sub t. 1538. 1832.

Monachanthus Lindl., 1. c.

Clowesia Lindl., 1. c. 25: t. 39. 1843.

Warczewitzia Skinner in Lindl. & Paxt., Fl. Gard. 1:
45. 1850-51.

Catasetum is an interesting genus of orchids due to the
di-or trimorphism often found in the flowers. Female flowers
are unknown for some species, or have not been correlated
with the male flowers. Plants bearing only female flowers
are often impossible to identify.

CATASETUM BICOLOR Kl. in Allgem. Gartenz. 22: 337.
1854.

Panama, possibly South America.

CATASETUM DILECTUM Reichb. f., Beitr. Orch. Cent.
Am. 73. 1866.

Costa Rica and South America.

CATASETUM EBURNEUM Rolfe in Kew Bull. 86. 1906.
Costa Rica and Panama.

CATASETUM INTEGERRIMUM Hook. in Bot. Mag. 67: t.
3823. 1840.

Catasetum integerrimum var. *purpurascens* Hook., 1. c.
sub t. 3823.

Catasetum integerrimum var. *viridiflorum* Hook., 1. c.

Catasetum Wailesii Hook., 1. c. 38: t. 3937. 1842.

Mexico, British Honduras, Guatemala, El Salvador,
Honduras and Nicaragua.

CATASETUM OERSTEDII Reichb. f. in Bonpl. 3: 218.
1855.

Catasetum rostratum Klinge in Act. Hort. Petrop. 17:
t. 2, f. 22. 1898.

Catasetum Brenesii Schltr. in Fedde Rep. Beih. 19:
225. 1923.

Nicaragua, Costa Rica, Panama and possibly South
America.

CATASETUM ROSEUM (Lindl.) Reichb. f. in Gard.
Chron. 1003. 1872.

Clowesia rosea Lindl. in Bot. Reg. 29: Misc. p. 25, t.
39. 1843.

This species was originally thought to be Brazilian.

Mexico, Costa Rica, Panama and South America.

CATASETUM RUSSELLIANUM Hook. in Bot. Mag. 67:
t. 3777. 1840.

Catasetum calceolatum Lem., Jard. Fleur. 1: Misc. p. 45. 1851.

Mexico, Guatemala, El Salvador, Honduras and Panama.

CATASETUM SUAVE A. & S., Sched. Orch. 10: 81. 1930.
Costa Rica.

CATASETUM VIRIDIFLAVUM Hook. in Bot. Mag. 69: t. 4017. 1843.

Catasetum serratum Lindl. in Bot. Reg. t. 27. 1847.
Panama.

CATASETUM WARSEWITZII Lindl. in Paxt., Fl. Gard. 1: 45, t. 29. 1850-51.

Myanthus Warscewczii Beer, Prakt. Orch. 272. 1854.

Catasetum scurra Reichb. f. in Gard. Chron. 1003. 1872.

Panama.

EXCLUDED SPECIES.

CATASETUM MACULATUM Kunth, Syn. Pl. Aequin. 1: 331. 1822. It is an obscure species probably originally collected in Colombia and credited to various Central American countries.

CATASETUM SANGUINEUM Lindl. in Paxt., Fl. Gard. 2: 168. 1851. Although credited to "Central America" it is probably South American.

CATASETUM TRICOLOR "Reichb. f." ex Schltr. in Beih. Bot. Centralbl. 36, Abt 2: 485. 1918, is an error in authority. The plant is South American.

CATASETUM TRIDON Reichb. f. in Hamb. Gartenz. 13: 313. 1857. Credited to Guatemala but probably Brazilian.

CYCNOCHES Lindl., Gen. & Sp. Orch. Pl. 154. 1832;
P. H. Allen in Orch. Journ. 1: 173-184, 225-230, 273-276,
349-354, 397-403. 1952.

An interesting genus the systematic complexity of which
has been reduced somewhat by Mr. Allen, whose paper is
followed here.

CYCNOCHES EGERTONIANUM Batem., Orch. Mex. &
Guat. t. 40, *pars*. 1842.

Cycnoches ventricosum var. *Egertonianum* Hook. in
Bot. Mag. t. 4054. 1844.

Cycnoches stelliferum Lodd. ex Lindl. in Bot. Reg. 32:
sub t. 46. 1846, *in synonym*.

Cycnoches Rossianum Rolfe in Gard. Chron. 9: 456.
1891.

Cynoches guttulatum Schltr. in Fedde Rep. Beih. 17:
56. 1922.

Cynoches pachydactylon Schltr., 1. c. 57.

Cynoches stenodactylon Schltr., 1. c. 59.

Cynoches Amparoanum Schltr., 1. c. 19: 48. 1923.

Cynoches pauciflorum Schltr., 1. c. 137.

Mexico, Guatemala, El Salvador, Honduras, Costa
Rica, Panama and South America.

CYCNOCHES EGERTONIANUM var. AUREUM (Lindl.) P.
H. Allen in Orch. Journ. 1: 351. 1952.

Cycnoches aureum Lindl. in Paxt., Fl. Gard. 3: 6, t. 75
1852-53.

Costa Rica and Panama.

CYCNOCHES EGERTONIANUM var. DIANAE (Reichb. f.)
P. H. Allen in Orch. Journ. 1: 352. 1952.

Cycnoches Dianae Reichb. f. in Bot. Zeit. 10: 636.
1852.

Cycnoches albidum Kränzl. in Fedde Rep. 7: 38. 1909.

Cynoches Powellii Schltr. in Fedde Rep. Beih. 17: 58. 1922.

Panama.

CYNOCHES VENTRICOSUM Batem., Orch. Mex. & Guat. t. 5, and the green flowers on t. 40. 1837-1842.

Mexico, Guatemala, Honduras and possibly Panama.

CYNOCHES VENTRICOSUM var. CHLOROCHILON (Kl.) P. H. Allen in Orch. Journ. 1: 401. 1952.

Cynoches chlorochilon Kl. in Otto & Dietr., Allg. Gartenz. 6: 225. 1838.

Panama and South America.

CYNOCHES VENTRICOSUM var. WARCEWICZII (Reichb. f.) P. H. Allen in Orch. Journ. 1: 401. 1952.

Cynoches Warcewiczii Reichb. f. in Bot. Zeit. 10: 734. 1852.

Cynoches Tonduzii Schltr. in Fedde Rep. Beih. 19: 298. 1923.

Costa Rica and Panama.

EXCLUDED SPECIES.

CYNOCHES MACULATUM Lindl. in Bot. Reg. 26: Misc. p. 10. 1840.

This species has been credited to Mexico and Guatemala but it is South American.

COELIOPSIS Reichb. f. in Gard. Chron. 9. 1872.

A monotypic genus with fleshy white flowers in dense racemes.

COELIOPSIS HYACINTHOSMA Reichb. f. in Gard. Chron. 9. 1872.

Costa Rica and Panama.

ENDRESIELLA Schltr. in Fedde Rep. 17: 13. 1921.

The genus is known only by the following species and apparently is very rare.

ENDRESIELLA ZAHLBRUCKNERIANA Schltr. in Fedde Rep. 17: 24. 1921.

Costa Rica.

ERIOPSIS Lindl. in Bot. Reg. 10: sub t. 18. 1847.

A small genus of predominantly South American orchids with the following representatives in our range.

ERIOPSIS BILOBA Lindl. in Bot. Reg. 33: t. 18. 1847.

Eriopsis Wercklei Schltr. in Fedde Rep. 16: 447. 1920.

Costa Rica and South America.

ERIOPSIS RUTIDOBULBON Hook. in Bot. Mag. t. 4437. 1849.

This species is reported by Allen as probably occurring in Panama. (Ann. Mo. Bot. Gard. 36: 42. 1949.)

SIEVEKINGIA Reichb. f. in Beitr. Syst. Pfl. 3. 1871.

A small genus of which the following is the only North American representative.

SIEVEKINGIA SUAVIS Reichb. f. in Beitr. Syst. Pfl. 3. 1871.

Costa Rica and Panama.

KEGELIELLA Mansf. in Fedde Rep. 36: 60. 1934.

Kegelia Reichb. f. in Bot. Zeit. 10: 670. 1852, non Sch.-Bip.

KEGELIELLA HOUTTEANA (Reichb. f.) L. Wms. in Ann. Mo. Bot. Gard. 29: 347. 1942.

Kegelia Houtteana Reichb. f. in Bot. Zeit. 10: 670. 1852.

West Indies, Panama and South America.

KEGELIELLA KUPPERI Mansf. in Fedde Rep. 36: 60.
1934.

Costa Rica and Panama.

LYCOMORMIUM Reichb. f. in Bot. Zeit. 10: 833.
1852.

A small South American genus with possibly one species
in Central America.

LYCOMORMIUM CERINUM (Lindl.) Benth. ex Hemsl. in
Godm. & Salv., Biol. Cent. Am. Bot. 3: 252. 1883.

Peristeria cerina Lindl. in Bot. Reg. 23: t. 1953. 1837.

Reported by Hemsley for Central America, originally
from South America.

ACINETA Lindl. in Bot. Reg. 29: 67. 1843.

There are possibly not so many species of *Acineta* in
Central America as are reported here.

ACINETA CHRYSANTHA (Morr.) Lindl. in Paxt., Fl.
Gard. 1: 31. 1850.

Neippergia chrysantha Morr. in Ann. Soc. Bot. Gand.
5: 375, t. 282. 1849.

Acineta densa Lindl., 1. c. 91.

Acineta sella-turcica Reichb. f. in Bot. Zeit. 10: 705.
1852.

Acineta Warcewiczii Kl. in Allgem. Gartenz. 20: 145.
1852.

Costa Rica and Panama.

ACINETA CONFUSA Schltr. in Orchis 11: 37. 1917.
"Central America".

ACINETA CRYPTODONTA Reichb. f. in Bonpl. 2: 92.
1855.

"Central America".

ACINETA ERYTHROXANTHA Reichb. f. in Bonpl. 2: 792.
1854; Schltr. in Fedde Rep. Beih. 19: 138. 1923.

This species is reported by Schlechter for Costa Rica. The habitat of the original was unknown.

ACINETA GYMNOSTELE Schltr. in *Orchis* 11: 45. 1917;
in *Fedde Rep. Beih.* 19: 49. 1923.
Costa Rica.

ACINETA SUPERBA (HBK.) Reichenb. f. in *Walp. Ann.*
6: 609. 1863.

Anguloa superba HBK., *Nov. Gen. & Sp. Pl.* 1: 343,
t. 93. 1815.

Panama possibly and South America.

PERISTERIA Hook. in *Bot. Mag.* 58: t. 3116. 1831.
A genus of about six species, mostly large plants, either
terrestrial or epiphytic.

PERISTERIA ELATA Hook. in *Bot. Mag.* 58: t. 3116.
1831.

The Holy Ghost or Dove Orchid is the national flower
of the Republic of Panama.

Panama.

PERISTERIA PENDULA Hook. in *Bot. Mag.* t. 3479. 1834;
Dunn in *Am. Orch. Soc. Bull.* 20: 82, f. 1951.

Panama and South America.

LACAENA Lindl. in *Bot. Reg.* 29: Misc. p. 68. 1843
and 30: t. 50. 1844.

Epiphytes with pendent racemes of fleshy flowers.

LACAENA BICOLOR Lindl. in *Bot. Reg.* 29: Misc. p. 68.
1843 and 30: t. 50. 1844.

Mexico, Guatemala, Honduras and possibly Costa
Rica.

LACAENA SPECTABILIS (Kl.) Reichb. f. in *Bonpl.* 3:
92. 1854.

Nauenia spectabilis Kl. in *Allgem. Gartenz.* 21: 193.
1853.

This species is quite possibly a synonym of *L. bicolor*.
Costa Rica.

NEOMOOREA Rolfe in Orch. Rev. 12: 30. 1904.

Moorea Rolfe in Gard. Chron. III, 8: 7. 1890, *non* Lem.

A monotypic genus of Panama and Colombia.

NEOMOOREA IRRORATA Rolfe in Orch. Rev. 12: 30. 1904.

Moorea irrorata Rolfe in Gard. Chron. III, 8: 7. 1890.

Panama and South America.

HOULLETIA Brongn. in Ann. Sci. Nat. sér. 2, 15: 37. 1841.

A small genus of about ten species, mostly South American.

HOULLETIA LANDSBERGII Lindl. & Reichb. f. in Regel, Gartenflora 2. 1855; A. & C. in Fieldiana Bot. 26: 526, fig. 149. 1953.

Costa Rica and South America. Reported from Guatemala.

PAPHINIA Lindl. in Bot. Reg. 29: Misc. p. 14. 1843.

PAPHINIA CRISTATA Lindl. in Bot. Reg. 29: Misc. p. 14. 1843.

Maxillaria cristata Lindl. in Bot. Reg. t. 1811. 1836.

Lycaste cristata Nichols, Dict. Gard. 2: 304. 1888.

Possibly Guatemala. Trinidad and South America.

POLYCYCNIS Reichb. f. in Bonpl. 3: 218. 1855.

POLYCYCNIS GRATIOSA Endres & Reichb. f. in Gard. Chron. 1451. 1871.

Costa Rica.

POLYCYCNIS BARBATA (Lindl.) Reichb. f. in Bonpl. 3: 218. 1855.

Cynoches barbatum Lindl. in Journ. Hort. Soc. Lond. 4: 268. 1849.

Costa Rica and South America.

STANHOPEA Frost ex Hooker in Bot. Mag. 56: tt. 2948-2949. 1829.

Certochilus Lindl. in Lodd., Bot. Cab. 15: t. 1414. 1828, non Blume.

Stanhopeastrum Reichb. f. in Bot. Zeit. 10: 927. 1852.

Many of the species of *Stanhopea* have been described from horticultural material, often without knowledge of the country of origin. The flowers are fleshy but usually last but a day or two. Herbarium specimens may not be too helpful in interpreting the species and quite often none or inadequate specimens were provided for many of the species described.

Several species of *Stanhopea* respond to moderate care and have been widely cultivated.

STANHOPEA CALCEOLUS Reichb. f., Xenia Orch. 1: 117. 1854.

"Central America".

STANHOPEA CIRRHATA Lindl. in Journ. Hort. Soc. 5: 37. 1850.

Nicaragua and Costa Rica.

STANHOPEA DEVONIENSIS Lindl., Sert. Orch. t. 1. 1837.

Stanhopea tigrina Batem. ex Lindl., Sert. Orch. sub t. 1. 1838; Batem., Orch. Mex. & Guat. t. 7. 1839.

Mexico and Guatemala.

STANHOPEA ECORNUTA Lem., Fl. Serres 2: t. 181. 1846.

Stanhopeastrum ecornutum Reichb. f. in Bot. Zeit. 10: 927. 1852.

Guatemala, Honduras, Nicaragua and Costa Rica.

STANHOPEA GIBBOSUM Reichb. f. in Gard. Chron. 1254. 1869.

"Central America".

STANHOPEA GRAVEOLENS Lindl. in Bot. Reg. 26: Misc. p. 59. 1840.

Stanhopea Warcewicziana Kl. in Allgem. Gartenz. 20: 214. 1852.

Stanhopea costaricensis Reichb. f. in Hamb. Gartenz. 16: 424. 1860.

Costa Rica, Panama and South America.

STANHOPEA LEWISAE A. & C. in Bot. Mus. Leafl. Harv. Univ. 10: 86, t. 10. 1942.

Guatemala.

STANHOPEA OCLATA (Lodd.) Lindl., Gen. & Sp. Orch. Pl. 158. 1832.

Ceratochilus oculatus Lodd., Bot. Cab. t. 1764. 1832.

Stanhopea cymbiformis Reichb. f., Xenia Orch. 2: 84, t. 124. 1865.

Mexico, Guatemala and Honduras.

STANHOPEA PULLA Reichb. f. in Gard. Chron. n. s. 7: 810. 1877.

Costa Rica and Panama.

STANHOPEA QUADRICORNIS Lindl. in Bot. Reg. 24: t. 5. 1838.

Mexico and Guatemala.

STANHOPEA SACCATA Batem., Orch. Mex. & Guat. t. 15. 1838.

Stanhopea Marshii Reichb. f., Xenia Orch. 1: 120. 1855.

Stanhopea radiosa Lem., Illustr. Hort. 6: Misc. 72, f. 1-2. 1859.

Mexico and Guatemala.

STANHOPEA SCHILLERIANA Reichb. f., Xenia Orch. 2: 158. 1870.

"Central America?"

STANHOPEA WARDII Lodd. ex Lindl., Sert. Orch. t. 20. 1838.

Stanhopea amoena Kl. in Allgem. Gartenz. 20: 274.
1852.

Mexico, Guatemala, Costa Rica and Panama.

EXCLUDED SPECIES.

STANHOPEA BUCEPHALUS Lindl., Gen. & Sp. Orch. Pl.
157. 1832.

Mexican in origin and very closely allied to *S. oculata*.
Central American specimens have often received this name.

GONGORA Ruiz & Pavón, Fl. Peruv. & Chil. Prodr.
117, t. 25. 1794.

Acroptera Lindl., Gen. & Sp. Orch. Pl. 172. 1838.

A fairly large genus containing many beautiful species,
often in cultivation.

GONGORA AMPAROANA Schltr. in Fedde Rep. Beih. 19:
50. 1923.

Costa Rica.

GONGORA ARMENIACA (Lindl.) Reichb. f., Xenia Orch.
1: 52. 1854.

Acroptera armeniaca Lindl. in Paxt., Fl. Gard. 1: 94.
1850-1851.

Acroptera cornuta Kl. in Allgem. Gartenz. 20: 186.
1852.

Nicaragua, Costa Rica and Panama.

GONGORA ARMENIACA var. BICORNUTA Schweinf. &
Allen in Bot. Mus. Leaflet. Harv. Univ. 13: 139, t. 11. 1948.
Panama.

GONGORA AROMATICA Reichb. f. in Allgem. Gartenzeit.
22: 281. 1854.

Nicaragua and Panama.

GONGORA CASSIDEA Reichb. f. in Bot. Zeit. 22: 298.
1864.

Mexico, Guatemala, El Salvador, Honduras and Ni-
caragua.

GONGORA MACULATA Lindl. in Bot. Reg. 19: t. 1616. 1833.

Gongora maculata var. *alba* Lindl., l. c. 27: Misc. p. 48. 1841.

Gongora leucochila Lem., Fl. Serres 1: 207, t. 37. 1845.

Gongora bufonia var. *leucochila* Lindl., l. c. 33: t. 17. 1847, not based on *G. leucochila* Lem.

Gongora Powellii Schltr. in Fedde Rep. 17: 62. 1922.

There are several more synonyms of this species that are based on South American material.

West Indies, Mexico, Central America, Panama and South America.

GONGORA MACULATA VAR. LATILABRIS Schweinf. & Allen in Bot. Mus. Leaf. Harv. Univ. 13: 144. 1948.

Panama.

GONGORA MACULATA VAR. TRICOLOR Lindl. in Bot. Reg. 33: t. 69. 1847.

Gongora fulva Lindl. in Bot. Reg. 25: t. 51. 1839.

Panama.

GONGORA TRUNCATA Lindl. in Bot. Reg. 29: Misc. p. 42. 1843; in Bot. Reg. 31: t. 56. 1845.

A rare species recently discovered in Honduras. Mexico and Honduras.

GONGORA UNICOLOR Schltr. in Fedde Rep. Beih. 19: 299. 1923.

Costa Rica.

CORYANTHES Hook. in Bot. Mag. t. 3102. 1831.

Coryanthes, in flower structure, is one of the most complicated genera in the family. Three species are indicated here for our region but in reality there is probably only one, or perhaps two.

CORYANTHES MACULATA Hook. in Bot. Mag. t. 3102. 1831.

Coryanthes Hunteriana Schltr. in Fedde Rep. Beih. 17: 63. 1922.

Coryanthes Powellii Schltr., 1. c. 64.

Panama and South America.

CORYANTHES PICTURATA Reichb. f. in Bot. Zeit. 22: 332. 1864.

British Honduras.

CORYANTHES SPECIOSA Hook. in Bot. Mag. t. 3102. 1831.

Gongora speciosa Hook. in Bot. Mag. t. 2755. 1827.

Guatemala, Honduras and South America.

XYLOBIUM Lindl. in Bot. Reg. 11: sub t. 897. 1825.

About twenty species in Central and South America. The flowers resemble those of *Maxillaria* but the plicate leaves and racemose inflorescences are distinctive.

XYLOBIUM BRACHYPUS (Reichb. f.) Hemsl. in Godm. & Salv., Biol. Cent. Am. Bot. 3: 252. 1883.

Maxillaria brachypus Reichb. f. in Bot. Zeit. 10: 734. 1852.

Guatemala.

XYLOBIUM ELONGATUM (Lindl.) Hemsl. in Godm. & Salv., Biol. Cent. Am. Bot. 3: 252. 1883.

Maxillaria elongata Lindl. in Paxt., Fl. Gard. 3: 69, t. 1852-53.

Mexico, Guatemala, Costa Rica and Panama.

XYLOBIUM FOVEATUM (Lindl.) Nicholson, Dict. Gard. 4: 225. 1887.

Maxillaria foveata Lindl. in Bot. Reg. 25: Misc. p. 2. 1839.

Maxillaria concava Lindl., 1. c. 30: Misc. p. 4. 1844.

Maxillaria stachyobiorum Reichb. f. in Bot. Zeit. 10: 735. 1852.

Xylobium concavum Hemsl. in Godm. & Salv., Biol. Cent. Am. Bot. 3: 252. 1883.

Xylobium stachyobiorum Hemsl., 1. c.

Mexico, Guatemala, Nicaragua, Costa Rica, Panama and South America.

XYLOBIUM PICKIANUM (Schltr.) L. Wms. in Ceiba 4: 271, t. 1955.

Bifrenaria Pickianum Schltr. in Orchis 6: 8, f. 1. 1912.

Honduras, Costa Rica and South America.

XYLOBIUM POWELLII Schltr. in Fedde Rep. Beih. 19: 51. 1923.

Xylobium sublobatum Schltr., 1. c.

Costa Rica and Panama.

XYLOBIUM SQUALENS Lindl. in Bot. Reg. 11: sub t. 897. 1825; C. Schweinf. in Bot. Mus. Leaflet. Harv. Univ. 11: 197. 1944.

Dendrobium squalens Lindl. in Bot. Reg. 9: t. 732. 1823.

Costa Rica and South America.

XYLOBIUM SULFURINUM (Lem.) Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 493. 1918.

Maxillaria sulfurina Lem., Fl. Serres 1: 330b. 1848.

Guatemala.

XYLOBIUM TUERCKHEIMII Kränzl. in Ann. Naturh. Mus. 44: 325. 1930.

Mexico and Guatemala.

RUDOLFIELLA Hoehne, Icon. Orch. Bras. 220, t. 197. 1949; Arq. Bot. Est. S. Paulo. n. s. 2: 14. 1944; Fl. Bras. 12, Fasc. 10: 50, tt. 1953.

Lindleyella Schltr., Orch. 414. 1919, non Rydb.

Schlechterella Hoehne in Arq. Bot. Est. S. Paulo n. s. 2: 12, 13. 1944, non K. Schum.

Bifrenaria of authors, non Lindl.

Hoehne, in 1944, gave good reasons for separating these small-flowered, racemose species, which are northern, from the true *Bifrenarias* which apparently do not overlap in range with *Rudolfiella*.

RUDOLFIELLA picta (*Schltr.*) *L. Wms.*, *comb. nov.*

Lindleyella picta Schltr. in Fedde Rep. Beih. 27: 173. 1924 and 58: t. 50, f. 200. 1930.

Bifrenaria picta C. Schweinf. in Bot. Mus. Leafl. Harv. Univ. 11: 246. 1944.

Panama and Colombia.

LYCASTE Lindl. in Bot. Reg. 29: Misc. p. 14. 1843.

A genus of relatively large flowered orchids. *Lycaste virginalis* is the national flower of Guatemala.

LYCASTE AROMATICA (*Grah.*) Lindl. in Bot. Reg. 29: Misc. p. 16. 1843.

Maxillaria aromatica Graham ex Hook., Exot. Fl. 3: t. 219. 1826; Lindl. in Bot. Reg. 22: t. 1871. 1836.

Mexico, British Honduras, Honduras and Guatemala.

LYCASTE BREVISPATHA Kl. ex Lindl. in Paxt., Fl. Gard. 3: 44. 1852-53.

Lycaste candida Lindl. ex Reichb. f. in Walp. Ann. 6: 604. 1863.

Maxillaria brevispatha Kl. in Allgem. Gartenz. 19: 217. 1851.

Costa Rica.

LYCASTE CAMPBELLII C. Schweinf. in Sargentia 8: 103, t. 1. 1949.

Panama.

LYCASTE COCHLEATA Lindl. in Paxt., Fl. Gard. 1: 126. 1850-51.

Maxillaria cochleata Beer, Prakt. Stud. Orch. 264.
1854.

Guatemala and Honduras.

LYCASTE CRUENTA Lindl. in Bot. Reg. 29: Misc. p. 16.
1843.

Maxillaria cruenta Lindl. in Bot. Reg. 28: t. 13. 1842.

Mexico, Guatemala, El Salvador and possibly Costa
Rica.

LYCASTE DEPPEI (Lodd.) Lindl. in Bot. Reg. 29: Misc.
p. 15. 1843.

Maxillaria Deppei Lodd., Bot. Cab. 17: t. 1612. 1830;
Hook. in Bot. Mag. 62: t. 3395. 1835.

Mexico and Guatemala.

LYCASTE LASIOGLOSSA Reichb. f. in Gard. Chron. 215.
1872.

Guatemala and Honduras.

LYCASTE LEUCANTHA Kl. in Allgem. Gartenz. 402.
1850.

"Costa Rica".

LYCASTE MACROPHYLLA (Poepp. & Endl.) Lindl. in
Bot. Reg. 29: Misc. p. 14. 1843.

Maxillaria macrophylla Poepp. & Endl., Nov. Gen. &
Sp. Pl. 1: 37, t. 64. 1836.

Lycaste Dowiana Endres & Reichb. f. in Gard. Chron.
n. s. 2: 194. 1874.

Costa Rica, Panama and South America.

LYCASTE POWELLII Schltr. in Fedde Rep. Beih. 17:
65. 1922.

Panama.

LYCASTE SMEEANA Reichb. f. in Gard. Chron. 2: 198.
1883.

A putative hybrid ascribed to Guatemala.

LYCASTE SUAVEOLENS Summerh. in Bot. Mag. t. 9231.
1931.

Central America?

LYCASTE TRICOLOR (Kl.) Reichb. f. in Walp. Ann. 6:
603. 1863.

Maxillaria tricolor Kl. in Allgem. Gartenz. 20: 186.
1852.

Lycaste Bradeorum Schltr. in Fedde Rep. Beih. 19:
138. 1923.

Guatemala, Costa Rica and Panama.

LYCASTE VIRGINALIS (Scheidw.) Linden in Lindenia
4: 22. 1888, *in textu*.

Maxillaria virginalis Scheidw. in Bull. Acad. Roy. Sci.
Brux. 9: 25. 1842.

Maxillaria Skinneri Batem. ex Lindl. in Bot. Reg. 28:
Misc. p. 10. 1842, *non Maxillaria Skinneri* Batem. ex
Lindl. in Bot. Reg. 26: Misc. p. 48. 1840.

Lycaste Skinneri Lindl. in Bot. Reg. 29: Misc. p. 15.
1843, based on *Maxillaria Skinneri* Batem. ex Lindl.,
1842.

Lycaste alba Ckll. in Torreyia 19: 11. 1919.

Mexico, Guatemala, El Salvador and Honduras.

LYCASTE XYTRIOPHORA Reichb. f. in Saund., Ref. Bot.
2: t. 131. 1882.

Costa Rica.

EXCLUDED SPECIES.

LYCASTE MACROPOGON Reichb. f. in Gard. Chron. 200.
1888.

The above name and citation is given by Schlechter in
Beih. Bot. Centralbl. 36, Abt. 2: 492. 1918. It would seem
to be an error. It is credited to Costa Rica.

ZYGOPETALUM Hook. in Bot. Mag. 56: t. 2748. 1827.

A polymorphic group of epiphytes and terrestrials ranging from Mexico to Brazil.

ZYGOPETALUM GRANDIFLORUM (A. Rich.) Benth. & Hook. ex Hemsl. in Godm. & Salv., Biol. Cent. Am. Bot. 3: 251. 1883.

Galeottia grandiflora A. Rich. in Ann. Sci. Nat. sér. 3, 3: 25. 1845.

Batemannia grandiflora Reichb. f. in Bonpl. 4: 323. 1856.

Mexico, Guatemala. Costa Rica and Panama.

ZYGOPETALUM PARVIFLORUM L. Wms. in Ann. Mo. Bot. Gard. 28: 424, t. 25. 1941.

Panama.

CHONDRORHYNCHA Lindl., Orch. Lind. 12. 1846.

Kefersteinia Reichb. f. in Bot. Zeit. 10: 633. 1852.

Warczewiczella Reichb. f., 1. c. 635.

This generic complex and related ones need to be studied as a group. The genera that compose the complex are largely South American in distribution with relatively few species in our area.

CHONDRORHYNCHA **alba** (Schltr.) L. Wms., *comb. nov.*

Kefersteinia alba Schltr. in Fedde Rep. Beih. 19: 228. 1923.

Costa Rica.

CHONDRORHYNCHA ALBICANS Rolfe in Kew Bull. 195. 1898.

Costa Rica.

CHONDRORHYNCHA AROMATICA (Reichb. f.) P. H. Allen in Ann. Mo. Bot. Gard. 36: 85. 1949.

Zygopetalum aromaticum Reichb. f. in Bot. Zeit. 10: 668. 1852.

Warcewiczella aromatica Reichb. f. in Walp. Ann. 6: 654. 1863.

Zygopetalum Wendlandi Reichb. f., Beitr. Orch. Cent. Am. 74. 1866.

Bollea Wendlandiana Hort. ex Gard. & For. 1: 315. 1888.

Warcewiczella Wendlandi Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 494. 1918.

Costa Rica and Panama.

CHONDRORHYNCHA BICOLOR Rolfe in Kew Bull. 393. 1894.

Costa Rica.

CHONDRORHYNCHA CALOGLOSSA (Schltr.) P. H. Allen in Ann. Mo. Bot. Gard. 36: 85. 1949.

Warcewiczella caloglossa Schltr. in Fedde Rep. 12: 216. 1913.

Chondrorhyncha estrellensis Ames, Sched. Orch. 4: 54. 1923.

Costa Rica and Panama.

(To be concluded.)