

# CEIBA

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AN ENUMERATION OF THE ORCHIDACEAE  
OF  
CENTRAL AMERICA,  
BRITISH HONDURAS  
AND  
PANAMA

LOUIS O. WILLIAMS

(Conclusion.)

CHONDRORHYNCHA COSTARICENSIS (Schltr.) P. H.  
Allen in Ann. Mo. Bot. Gard. 36: 86. 1949.

*Kefersteinia costaricensis* Schltr. in Beih. Bot. Centralbl,  
36, Abt. 2: 413. 1918.

Costa Rica and Panama.

CHONDRORHYNCHA DISCOLOR (Lindl.) P. H. Allen in  
Ann. Mo. Bot. Gard. 36: 87. 1949.

*Warrea discolor* Lindl. in Journ. Hort. Soc. Lond. 4:  
265. 1849.

*Warcewiczella discolor* Reichb. f. in Bot. Zeit. 10: 636.  
1852.

*Zygopetalum discolor* Reichb. f. in Walp. Ann. 6: 655.  
1861.

Costa Rica, Panama and Cuba.

CHONDRORHYNCHA ENDRESII Schltr. in Fedde Rep.  
17: 14. 1921.  
Costa Rica.

CHONDRORHYNCHA LACTEA (Reichb. f.) L. Wms. in  
Ctldesia 5: 16. 1942.

*Zygopetalum lacteum* Reichb. f. in Gard. Chron. 1290.  
1872.

*Kefersteinia lactea* Reichb. f. ex Jackson, Ind. Kew. 2:  
4. 1895.

Costa Rica and Panama.

CHONDRORHYNCHA LENDYANA Reichb. f. in Gard.  
Chron. n. s. 26: 103. 1886.  
Mexico, Guatemala, Costa Rica and Panama.

CHONDRORHYNCHA MARGINATA (Reichb. f.) P. H.  
Allen in Ann. Mo. Bot. Gard. 36: 88, fig. 176. 1949.

*Wakcewiczella marginata* Reichb. f. in Bot. Zeit. 10:  
636. 1852.

*Huntleya marginata* Reichb. f., 1. c.

*Warrea marginata* Reichb. f., 1. c.

*Warrea quadrata* Lindl. in Gard. Chron. 647. 1853.

*Warcewiczella velata* Reichb. f., 1. c. 29: 99. 1865.

*Zygopetalum quadratum* Pfitzer, Vergl. Morph. Orch.  
58. 1881.

*Chondrorhyncha Lipscombiae* Rolfe in Kew Bull. 113.  
1912.

Panama and South America.

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

*Kefersteinia microcharis* Schltr. in Fedde Rep. Beih.  
19: 300. 1923.

Costa Rica.

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

*Kefersteinia parvilabris* Schltr. in Fedde Rep. Beih. 19:  
52. 1923.

Costa Rica.

CHONDRORHYNCHA REICHENBACHIANA Schltr. in  
Fedde Rep. 17: 15. 1921.

Costa Rica.

CHONDRORHYNCHA **stapelioides** (Reichb. f.) L.  
Wms., *comb. nov.*

*Kefersteinia stapelioides* Reichb. f. in Bot. Zeit. 10:  
634. 1852.

*Zygopetalum Moritzii* Reichb. f. in Walp. Ann. 6: 658.  
1861.

“Central America”.

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

*Kefersteinia subquadrata* Schltr. in Fedde Rep. Beih.  
19: 300. 1923.

Costa Rica.

CHONDRORHYNCHA WERCKLEI (Schltr.) C. Schweinf.  
in Am. Orch. Soc. Bull. 12: 386. 1944.

*Kefersteinia Wercklei* Schltr. in Fedde Rep. Beih. 19:  
53. 1923.

Costa Rica.

PESCATORIA Reichb. f. in Bot. Zeit. 10: 667. 1852.

*Pescatorea* of authors.

A small genus mainly of northern South America. It is not very distinct from *Chondrorhyncha*, as here treated, and perhaps would be best relegated to that genus.

PESCATORIA CERINA (Lindl. & Paxt.) Reichb. f. in Bot.  
Zeit. 10: 667. 1852; Batem. in Bot. Mag. 92: t. 5598. 1866.

*Huntleya cerina* Lindl. & Paxt. in Paxt., Fl. Gard. 3: 62. 1852.

*Zygopetalum cerinum* Reichb. f. in Walp. Ann. 6: 651. 1863.

Costa Rica and Panama.

HUNTLEYA Batem. ex Lindl. in Bot. Reg. 23: sub t. 1991. 1837.

A small genus with only one species in North America and two or three more in South America. The genus is very close to *Zygopetalum*.

HUNTLEYA MELEAGRIS Lindl. in Bot. Reg. 23: sub. t. 1991. 1837.

*Batemannia Burtii* Endres & Reichb. f. in Gard. Chron. 1099. 1872.

*Zygopetalum Burtii* Benth. & Hook. ex Hemsl. in Godm. & Salv., Biol. Cent. Am. Bot. 3: 251. 1883.

*Huntleya Burtii* Pfitzer in Engler & Prantl, Nat. Pflanzenf. 2, 6: 205. 1889.

Costa Rica, Panama and South America.

MAXILLARIA Ruiz & Pavón, Fl. Peruv. & Chil. Prodr. 116, t. 25. 1794.

*Ornithidium* Salisb. in Trans. Hort. Soc. 1: 293. 1812.

*Camaridium* Lindl. in Bot. Reg. 10: t. 844. 1824.

*Heterotaxis* Lindl. in Bot. Reg. 12: t. 1028. 1826.

*Dicrypta* Lindl., Gen. & Sp. Orch. Pl. 44. 1830.

Maxillaria is a large heterogeneous group of plants with some 200 species in the American tropics and subtropics. Three genera have usually been recognised in our region but when I began the study of the Mexican orchids I found it quite impossible to draw a line between Maxillaria, Ornithidium and Camaridium and began placing them together.

MAXILLARIA ACERVATA Reichb. f. in Bonpl. 3: 217. 1855.

Costa Rica.

MAXILLARIA ACOSTAEI Schltr. in Fedde Rep. Beih. 19:  
301. 1923.  
Costa Rica.

MAXILLARIA ACUTIPETALA Hook. in Bot. Mag. 69: t.  
3966. 1842.  
"Central America".

MAXILLARIA ADOLPHII (Schltr.) A. & C. in Bot. Mus.  
Leafl. Harv. Univ. 11: 18. 1943.

*Ornithidium Tonduzii* Schltr. in Fedde Rep. 3: 250.  
1907.

*Camaridium Adolphii* Schltr. in Fedde Rep. Beih. 19:  
58. 1923.

Costa Rica.

MAXILLARIA ALBA (Hook.) Lindl., Gen. & Sp. Orch.  
Pl. 143. 1832.

*Dendrobium album* Hook., Exot. Fl. 2: 142. 1825.

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

MAXILLARIA ALBERTII Schltr. in Fedde Rep. Beih. 19:  
230. 1923.  
Costa Rica.

MAXILLARIA ALFAROI A. & S., Sched. Orch. 10: 83.  
1930.  
Costa Rica.

MAXILLARIA ALLENII L. Wms. in Ann. Mo. Bot. Gard.  
27: 282, t. 35. 1940.  
Panama.

MAXILLARIA ANCEPS A. & S., Sched. Orch. 10: 84.  
1930.  
Guatemala and Costa Rica.

MAXILLARIA ANGUSTISEGMENTA A. & S., Sched. Orch.  
10: 86. 1930.  
Costa Rica and Panama.

MAXILLARIA ANGUSTISSIMA AHS. in Bot. Mus. Leafl. Harv. Univ. 3: 41. 1934.

*Maxillaria acutifolia* Schltr. in Fedde Rep. Beih. 19: 229. 1923, non Lindl.

Costa Rica.

MAXILLARIA APPENDICULOIDES C. Schweinf. in Bot. Mus. Leafl. Harv. Univ. 4: 119. 1937.

Costa Rica.

MAXILLARIA ARACHNITIFLORA A. & S., Sched. Orch. 10: 87. 1930.

Costa Rica and Panama.

MAXILLARIA ATTENUATA A. & S., Sched. Orch. 10: 89. 1930.

Costa Rica and South America.

MAXILLARIA BIOLLEYI (Schltr.) L. Wms. in Ann. Mo. Bot. Gard. 28: 425. 1941.

*Ornithidium Biolleyi* Schltr. in Fedde Rep. 9: 29. 1910.

*Camaridium Biolleyi* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 498. 1918.

Costa Rica and Panama.

MAXILLARIA BRACTEATA (Schltr.) A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 14. 1943.

*Ornithidium bracteatum* Schltr. in Fedde Rep. 9: 217. 1911.

*Camaridium bracteatum* Schltr. in Fedde Rep. Beih. 19: 57. 1923.

Costa Rica.

MAXILLARIA BRACHYBULBON Schltr. in Fedde Rep. Beih. 19: 55. 1923.

Costa Rica, Honduras and Panama.

MAXILLARIA BRADEORUM (Schltr.) L. Wms. in Ann. Mo. Bot. Gard. 28: 425. 1941.

*Camaridium Bradeorum* Schltr. in Fedde Rep. Beih. 19: 141. 1923.

*Camaridium grandiflorum* Ames in Proc. Biol. Soc. Wash. 34: 149. 1921.

*Maxillaria ampliflora* C. Schweinf. in Bot. Mus. Leafl. Harv. Univ. 8: 188. 1940.

Costa Rica and Panama.

MAXILLARIA BREVILABIA A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 15. 1943.

*Ornithidium Alfaroii* A. & S., Sched. Orch. 10: 93. 1930.

Costa Rica.

MAXILLARIA BREVIPES Schltr. in Fedde Rep. Beih. 19: 302. 1923.

Costa Rica and Panama.

MAXILLARIA CAESPITIFICA Reichb. f. in Linnaea 41: 73. 1876.

Costa Rica.

MAXILLARIA CAMARIDIi Reichb. f. in Hamb. Gartenz. 19: 547. 1863.

*Camaridium ochroleucum* Lindl. in Bot. Reg. 10: t. 844. 1824.

*Cymbidium ochroleucum* Lindl., Gen. & Sp. Orch. Pl. 168. 1833.

*Camaridium affine* Schltr. in Fedde Rep. Beih. 17: 72. 1922.

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

MAXILLARIA CAMPANULATA C. Schweinf. in Bot. Mus. Leafl. Harv. Univ. 5: 94. 1938.

Costa Rica.

MAXILLARIA CHARTACIFOLIA A. & S., Sched. Orch. 10: 92. 1930.

Costa Rica and Panama.

MAXILLARIA COBANENSIS Schltr. in Fedde Rep. 10: 295. 1912.

Mexico, Guatemala, Honduras and Costa Rica.

MAXILLARIA CONCAVILABIA A. & C. in Bot. Mus. Leaflet. Harv. Univ. 11: 15. 1943.

*Ornithidium stenophyllum* Schltr. in Fedde Rep. Beih. 19: 59. 1923.

Costa Rica.

MAXILLARIA CONDUPLICATA (A. & S.) L. Wms. in Ann. Mo. Bot. Gard. 29: 348. 1942.

*Ornithidium conduplicatum* A. & S., Sched. Orch. 8: 66, fig. 1925.

Panama.

MAXILLARIA CONFUSA A. & S., Sched. Orch. 8: 57. 1925.

Costa Rica and Panama.

MAXILLARIA CRASSIFOLIA (Lindl.) Reichb. f. in Bonpl. 2: 16. 1854.

*Heterotaxis crassifolia* Lindl. in Bot. Reg. 12: t. 1028. 1826.

*Maxillaria gatunensis* Schltr. in Fedde Rep. Beih. 17: 68. 1922.

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

MAXILLARIA CTENOSTACHYA Reichb. f. in Gard. Chron. 39. 1870.

*Camaridium arachnites* Schltr. in Fedde Rep. Beih. 17: 23. 1922.

*Camaridium stenostachya* Schltr., l. c. 19: 238. 1923. Costa Rica and Panama.

MAXILLARIA CUCULLATA Lindl. in Bot. Reg. 26: t. 12. 1840; Hook. in Bot. Mag. 68: t. 3945. 1842.



*Maxillaria rhombea* Lindl. in Bot. Reg. 26: sub t. 12. 1840.

*Maxillaria atrata* Reichb. f., Beitr. Orch. Cent. Am. 31, t. 6. 1866.

*Maxillaria atrata* var. *brachyantha* Reichb. f., 1. c. 78.

*Maxillaria prestans* Reichb. f. in Gard. Chron. n. s. 23: 566. 1885.

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

MAXILLARIA DENDROBIOIDES (Schltr.) L. Wms. in Ann. Mo. Bot. Gard. 27: 283. 1940.

*Camaridium dendrobioides* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 415. 1918.

*Camaridium Jimenezii* Schltr., 1. c. 416.

*Camaridium simile* Schltr. in Fedde Rep. Beih. 19: 239. 1923.

Costa Rica and Panama.

MAXILLARIA Densa Lindl. in Bot. Reg. 26: t. 1804. 1835.

Mexico, Guatemala, El Salvador and Honduras.

MAXILLARIA DIUTURNA A. & S., Sched. Orch. 8: 58. 1925.

Costa Rica and Panama.

MAXILLARIA ELATIOR Reichb. f. in Walp. Ann. 6: 532. 1863; Stapf in Bot. Mag. 154: t. 9206. 1928.

*Dicrypta elatior* Reichb. f. in Linnaea 18: 403. 1844.

*Maxillaria triangularis* Lindl., Bot. Reg. 31: Misc. p. 9. 1845.

Mexico, Guatemala, Honduras and Costa Rica.

MAXILLARIA ENDRESII Reichb. f. in Gard. Chron. n. s. 25: 680. 1886.

Costa Rica.

MAXILLARIA EXALATA (Kränzl.) C. Schweinf. in Bot. Mus. Leafl. Harv. Univ. 11: 272. 1945.

*Camaridium exalatum* Kränzl. in Engler, Bot. Jahrb. 37: 386. 1906.

Panama and South America.

MAXILLARIA FALCATA A. & C. in Bot. Mus. Leaf. Harv. Univ. 11: 15. 1943.

*Ornithidium costaricense* Schltr. in Fedde Rep. 8: 456. 1910, non *Maxillaria costaricensis* Schltr.

Costa Rica.

MAXILLARIA FLAVA AHS. in Bot. Mus. Leaf. Harv. Univ. 3: 41. 1934.

*Ornithidium ramonense* Schltr. in Fedde Rep. Beih. 19: 243. 1923, non *Maxillaria ramonensis* Schltr.

Costa Rica.

MAXILLARIA FOLIOSA A. & S., Sched. Orch. 8: 60. 1925.  
Costa Rica.

MAXILLARIA FRIEDRICHSTHALII Reichb. f. in Bot. Zeit. 10: 858. 1852.

*Maxillaria aciantha* Reichb. f., 1. c.

*Lycaste aciantha* Reichb. f. in Bonpl. 3: 216. 1855.

*Maxillaria turialbae* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 414. 1918.

Mexico, Guatemala, British Honduras, Honduras, Nicaragua, Costa Rica and Panama.

MAXILLARIA FULGENS (Reichb. f.) L. Wms. in Ann. Mo. Bot. Gard. 28: 425. 1941.

*Ornithidium fulgens* Reichb. f., Beitr. Orch. Cent. Am. 76. 1866.

Costa Rica and Panama.

MAXILLARIA HERALDICA Reichb. f. in Bot. Zeit. 10: 763. 1852.

Guatemala.

MAXILLARIA HOUTTEANA Reichb. f. in Hamb. Gartenz. 14: 212. 1858.

Mexico, Guatemala, Costa Rica and South America.

MAXILLARIA INAUDITA Reichb. f. in Beitr. Orch. Cent. Am. 76. 1866.

Costa Rica and Panama.

MAXILLARIA INAUDITA var. MINOR A. & S., Sched. Orch. 10: 94. 1930.

*Maxillaria linearifolia* A. & S., Sched. Orch. 10: 95. 1930.

Costa Rica.

MAXILLARIA LONGIPETIOLATA A. & S., Sched. Orch. 8: 61. 1925.

Panama.

MAXILLARIA LUTEO-ALBA Lindl., Orch. Linden. 20. 1846.

Panama and South America.

MAXILLARIA MALEOLENS Schltr. in Fedde Rep. Beih. 19: 233. 1923.

Guatemala, Honduras, Costa Rica and Panama.

MAXILLARIA MELEAGRIS Lindl. in Bot. Reg. 30: Misc. p. 3. 1844.

*Maxillaria Lindeniana* Rich. & Gal. in Ann. Sci. Nat. sér. 3, 3: 24. 1845.

Mexico, Guatemala and Panama.

MAXILLARIA MICROPHYTON Schltr. in Fedde Rep. 8: 457. 1910.

*Ornithidium parvulum* Schltr., 1. c. 9: 206. 1911.

*Ornithidium pallidiflavum* Schltr. in Fedde Rep. Beih. 19: 242. 1923.

Costa Rica.

MAXILLARIA MINOR (Schltr.) L. Wms. in Am. Orch. Soc. Bull. 10: 273. 1942.

*Camaridium minus* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 417. 1918.

Costa Rica.

MAXILLARIA MOOREANA Rolfe in Kew Bull. 36. 1895.  
Guatemala.

MAXILLARIA NAGELII L. Wms. in *Lloydia* 10: 212. 1947.  
*Camaridium Tuerckheimii* Schltr. in *Fedde Rep.* 10:  
296. 1912, *non Maxillaria Tuerckheimii* Schltr., 1912.  
Mexico and Guatemala.

MAXILLARIA NASUTA Reichb. f., *Beitr. Orch. Cent. Am.*  
104. 1866.

*Maxillaria brevipedunculata* A. & S., *Sched. Orch.*  
10: 91. 1930.

Guatemala, Costa Rica and South America.

MAXILLARIA NEGLECTA (Schltr.) L. Wms. in *Ann. Mo.*  
*Bot. Gard.* 29: 348. 1942.

*Ornithidium anceps* Reichb. f., *Beitr. Orch. Cent. Am.*  
75. 1866, *non Maxillaria anceps* A. & S.

*Ornithidium neglectum* Schltr. in *Fedde Rep. Beih.* 19:  
242. 1923.

Honduras, Nicaragua, Costa Rica and Panama.

MAXILLARIA OREOCHARIS Schltr. in *Fedde Rep. Beih.*  
17: 69. 1922.

Costa Rica and Panama.

MAXILLARIA PALEATA (Reichb. f.) A. & C. in *Bot. Mus.*  
*Leafl. Harv. Univ.* 11: 15. 1943.

*Ornithidium paleatum* Reichb. f. in *Linnaea* 41: 36.  
1877.

Nicaragua and Costa Rica.

MAXILLARIA PARVILABIA A. & S., *Sched. Orch.* 8: 62.  
1923.

Costa Rica and Panama.

MAXILLARIA PIESTOPUS Schltr. in *Fedde Rep. Beih.* 19:  
302. 1923.

Costa Rica.

MAXILLARIA PITTIERI (Ames) L. Wms. in *Ann. Mo.*  
*Bot. Gard.* 29: 349. 1942.

*Ornithidium Pittieri* Ames, Sched. Orch. 2: 35. 1923.  
Costa Rica and Panama.

MAXILLARIA PLANICOLA C. Schweinf. in Bot. Mus. Leafl.  
Harv. Univ. 8: 188. 1940.

*Camaridium latifolium* Schltr. in Fedde Rep. Beih. 17:  
74. 1922, non *Maxillaria latifolia* Lindl.

Panama.

MAXILLARIA POWELLII Schltr. in Fedde Rep. Beih. 17:  
70. 1922.  
Panama.

MAXILLARIA PULCHRA (Schltr.) L. Wms. in Lloydia  
10: 212. 1948.

*Camaridium pulchrum* Schltr. in Fedde Rep. 10: 251.  
1911.

Mexico, British Honduras, Guatemala and Honduras.

MAXILLARIA RAMONENSIS Schltr. in Fedde Rep. Beih.  
19: 235. 1923.  
Costa Rica.

MAXILLARIA REICHENHEIMIANA Reichb. f. in Gard.  
Chron. 1678. 1871.

*Maxillaria pachyacron* Schltr. in Fedde Rep. 9: 165.  
1911.

Costa Rica.

MAXILLARIA REPENS L. Wms. in Am. Orch. Soc. Bull.  
10: 273, t. 9. 1942.  
Panama.

MAXILLARIA RINGENS Reichb. f. in Walp. Ann. 6: 523.  
1863.

*Maxillaria yzabalensis* S. Wats in Proc. Am. Acad. 23:  
286. 1888.

*Maxillaria Rousseauae* Schltr. in Beih. Bot. Centralbl.  
36, Abt. 2: 413. 1918.

*Maxillaria pubilabia* Schltr. in Fedde Rep. Beih. 17: 71. 1922.

*Maxillaria Amparoana* Schltr., 1. c. 19: 54. 1923.

*Maxillaria Brenesii* Schltr., 1. c. 231.

*Maxillaria lactea* Schltr., 1. c. 233.

*Maxillaria Brenesii* var. *longiloba* A. & S., Sched. Orch. 10: 90. 1930.

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

MAXILLARIA RUBRILABIA Schltr. in Fedde Rep. Beih. 19: 236. 1923.  
Costa Rica.

MAXILLARIA RUFESCENS Lindl. in Bot. Reg. 21: sub t. 1802. 1836 and 22: t. 1848. 1836.

*Maxillaria acutifolia* Lindl., 1. c. 25: Misc. p. 29. 1839.  
West Indies, Guatemala, British Honduras, Honduras, Nicaragua, Costa Rica, Panama and South America.

MAXILLARIA SANGUINEA Rolfe in Kew Bull. 8. 1895.  
Costa Rica and Panama.

MAXILLARIA SCHISTOSTELE Schltr. in Fedde Rep. Beih. 19: 303. 1923.  
Costa Rica.

MAXILLARIA SCURRILIS hort., ex Orch. Rev. 8: 234. 1900.  
Costa Rica and South America.

MAXILLARIA SEMIORBICULARIS A. & S., Sched. Orch. 8: 64. 1925.  
Costa Rica.

MAXILLARIA SERRULATA A. & C. in Bot. Mus. Leaflet Harv. Univ. 11: 16. 1943.

*Camaridium Amparoanum* Schltr. in Fedde Rep. Beih. 19: 56. 1923, non *Maxillaria Amparoana* Schltr.  
Costa Rica.

MAXILLARIA SIGMOIDEA (C. Schweinf.) A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 16. 1943.

*Ornithidium sigmoideum* C. Schweinf. in Bot. Mus. Leafl. Harv. Univ. 4: 121. 1937.

Costa Rica.

MAXILLARIA **simulans** (A. & S.) L. Wms. comb. nov.

*Epidendrum vestitum* Sw., Nov. Gen. & Sp. Pl. Prodr. 124. 1788, non *Maxillaria vestita* Schltr.

*Camaridium purpureum* Spreng., Syst. Veg. 3: 735. 1826.

*Ornithidium vestitum* Reichb. f. in Walp. Ann. 6: 491. 1863.

*Ornithidium simulans* A. & S., Sched. Orch. 10: 99. 1930.

*Maxillaria purpurea* A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 16. 1943, non Beer.

West Indies, Guatemala, Honduras and South America.

MAXILLARIA STRUMATA (Endres & Reichb. f.) A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 17. 1943

*Ornithidium strumatum* Reichb. f. in Gard. Chron. n. s. 2: 772. 1874.

Costa Rica.

MAXILLARIA TENUIFOLIA Lindl. in Bot. Reg. 23: sub t. 1986. 1837 and 25: t. 8. 1839.

*Maxillaria gracilifolia* Kränzl. in Mitteil. Inst. Allg. Bot. Hamb. 6: 420. 1927.

Mexico, British Honduras, Guatemala, Honduras, Nicaragua and Costa Rica.

MAXILLARIA TONDUZII (Schltr.) A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 17. 1943.

*Ornithidium Tonduzii* Schltr. in Fedde Rep. 3: 250. 1907.

*Camaridium costaricensis* Schltr., 1. c., non *Maxillaria costaricensis* Schltr.

Costa Rica.

MAXILLARIA TRILOBATA A. & C. in Bot. Mus. Leaflet. Harv. Univ. 11: 17. 1943.

*Camaridium Brenesii* Schltr. in Fedde Rep. Beih. 19: 237. 1923, non *Maxillaria Brenesii* Schltr.

Costa Rica.

MAXILLARIA UMBRATILIS L. Wms. in Ann. Mo. Bot. Gard. 28: 425. 1941.

*Camaridium nutantiflorum* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 417. 1918, non *Maxillaria nutantiflora* Schltr.

*Camaridium vinosum* Schltr. in Fedde Rep. Beih. 19: 240. 1923, non *Maxillaria vinosa* Rolfe.

Costa Rica and Panama.

MAXILLARIA UNCATA Lindl. in Bot. Reg. 23: sub t. 1986. 1837.

*Maxillaria Macleei* Batem. ex Lindl. in Bot. Reg. 26: Misc. p. 70. 1840.

*Maxillaria striatella* Kränzl. in Fedde Rep. 24: 359. 1928.

*Maxillaria stenosteles* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 414. 1918.

Guatemala, British Honduras, Honduras. Costa Rica and Panama.

MAXILLARIA VAGANS A. & S., Sched. Orch. 8: 65. 1925. Honduras, Costa Rica and Panama.

MAXILLARIA VAGINALIS Reichb. f., Beitr. Orch. Cent. Am. 77. 1866.

*Camaridium Wercklei* Schltr. in Fedde Rep. Beih. 19: 58. 1923.

Costa Rica.



MAXILLARIA VALENZUELANA (A. Rich.) Nash in Bull. Torr. Bot. Club 34: 121. 1907.

*Pleurothallis Valenzuelana* A. Rich. in Sagra, Hist. Isla Cuba 11: 234. 1850.

*Maxillaria iridifolia* Reichb. f. in Bonpl. 2: 16. 1854.  
West Indies, Honduras and Costa Rica.

MAXILLARIA VALERIOI A. & S., Sched. Orch. 10: 96.  
1930.  
Honduras and Costa Rica.

MAXILLARIA VARIABILIS Batem. ex Lindl. in Bot. Reg. 23: sub t. 1986. 1937.

*Maxillaria variabilis* var. *unipunctata* Lindl., 1. c. 24: Misc. p. 23. 1838.

*Maxillaria angustifolia* Hook., Ic. Pl. 4: t. 348. 1841.

*Maxillaria chiriquensis* Schltr. in Fedde Rep. Beih. 17: 68. 1922.

*Maxillaria panamensis* Schltr., 1. c. 70.

*Maxillaria costaricensis* Schltr., 1. c. 19: 232. 1923.

Mexico, British Honduras, Central America and Panama.

MAXILLARIA VITTARIAEFOLIA L. Wms. in Ceiba 4: 38, fig. 1953.  
Costa Rica.

MAXILLARIA WERCKLEI (Schltr.) L. Wms. in Ann. Mo. Bot. Gard. 27: 284. 1940.

*Ornithidium Wercklei* Schltr. in Fedde Rep. Beih. 19: 60. 1923.

*Ornithidium aurantiacum* Schltr., 1. c. 241, non *Maxillaria aurantiaca* Schltr.

*Ornithidium Lankesteri* Ames, Sched. Orch. 4: 52. 1923.

*Maxillaria Lankesteri* Ames, Sched. Orch. 7: 11. 1924.

*Maxillaria quadrata* A. & C. in Bot. Mus. Leaf. Harv. Univ. 11: 16. 1943.

Costa Rica and Panama.

MAXILLARIA WRIGHTII (Schltr.) A. & C. in Bot. Mus. Leaflet. Harv. Univ. 11: 18. 1943.

*Camaridium Wrightii* Schltr. in Fedde Rep. 16: 448. 1920.

*Ornithidium Wrightii* C. Schweinf. in Bot. Mus. Leaflet. Harv. Univ. 4: 95. 1937.

Nicaragua and Costa Rica.

MAXILLARIA WRIGHTII var. IMBRICATA (Schltr.) A. & C. in Bot. Mus. Leaflet. Harv. Univ. 11: 18. 1943.

*Camaridium imbricatum* Schltr. in Beih. Bot. Centralbl. 36, Abt. 2: 415. 1918.

*Ornithidium Schlechterianum* C. Schweinf. in Bot. Mus. Leaflet. Harv. Univ. 4: 94. 1936.

Costa Rica.

MORMOLYCA Fenzl in Denkschr. Acad. Wiss. Math. Nat. Wein 1: 253, t. 29. 1850.

*Mormolyce* of authors.

The monotypic genus *Mormolyca* is very closely allied to *Maxillaria* and perhaps not distinct.

MORMOLYCA RINGENS (Lindl.) Schltr., Orchideen 436. 1914.

*Trigonidium ringens* Lindl. in Bot. Reg. 26: Misc. p. 57. 1840.

*Mormolyca lineolata* Fenzl in Denkschr. Acad. Wiss. Math. Nat. Wein 1: 253, t. 29. 1850.

Mexico, British Honduras, Guatemala, Honduras and Costa Rica.

TRIGONIDIUM Lindl. in Bot. Reg. 23: t. 1923. 1837.

A small genus of less than a dozen species. It is closely allied to *Maxillaria*.

TRIGONIDIUM EGERTONIANUM Batem. ex Lindl. in Bot. Reg. 24: Misc. p. 73. 1838.

*Trigonidium Seemannii* Reichb. f. in Bot. Voy. Herald  
214. 1858.

Mexico, Central America, Panama and South America.

TRIGONIDIUM LANKESTERI Ames, Sched. Orch. 5: 32.  
1923.

*Trigonidium Amparoanum* Schltr. in Fedde Rep. Beih.  
19: 61. 1923.

Costa Rica and Panama.

SEPALOSACCUS Schltr. in Fedde Rep. Beih. 19:  
244. 1923.

A monotypic genus of Central America.

SEPALOSACCUS HUMILIS Schltr. in Fedde Rep. Beih.  
19: 245. 1923.

Costa Rica.

CRYPTOCENTRUM Benth. in Benth. & Hook., Gen.  
Pl. 3: 557. 1883.

*Pittierella* Schltr. in Fedde Rep. 3: 80. 1906.

A small genus of a dozen or so Central and South American species.

CRYPTOCENTRUM CALCARATUM Schltr. in Fedde Rep.  
12: 214. 1913.

*Pittierella calcarata* Schltr., 1. c. 3: 81. 1906.

Costa Rica and Panama.

CRYPTOCENTRUM GRACILIPES Schltr. in Fedde Rep.  
Beih. 19: 246. 1923.

Costa Rica and Panama.

CRYPTOCENTRUM GRACILLIMUM A. & S., Sched. Orch.  
8: 68. 1925.

Costa Rica and Panama.

CRYPTOCENTRUM INAEQUISEPALUM C. Schweinf. in  
Bot. Mus. Leaf. Harv. Univ. 12: 186. 1946.

Panama and Peru.

CRYPTOCENTRUM LATIFOLIUM Schltr. in Fedde Rep. Beih. 19: 247. 1923.

Costa Rica and Panama.

CRYPTOCENTRUM STANDLEYI Ames, Sched. Orch. 9: 19: 248. 1923.

TRICHOCENTRUM Poepp. & Endl., Nov. Gen. ac Sp. Pl. 2: 11, t. 115. 1837.

Costa Rica.

TRICHOCENTRUM BRENESII Schltr. in Fedde Rep. Beih. 55. 1925.

Costa Rica and Panama.

TRICHOCENTRUM CALOCERAS Endres & Reichb. f. in Gard. Chron. 1257. 1871.

Costa Rica.

TRICHOCENTRUM CANDIDUM Lindl. in Bot. Reg. 29: Misc. p. 9. 1843.

Guatemala.

TRICHOCENTRUM CAPISTRATUM Reichb. f. in Gard. Chron. 1257. 1881.

Credited to Central America by Reichenbach but possibly Mexican.

TRICHOCENTRUM ORTHOPLECTRON Reichb. f. in Gard. Chron. 1: 562. 1883.

"Central America".

TRICHOCENTRUM PANAMENSIS Rolfe in Kew Bull. 341. 1913.

Panama.

TRICHOCENTRUM PFAVII Reichb. f. in Gard. Chron. 2: 70. 1881.

Costa Rica.

TRICHOCENTRUM PORPHYRIO Reichb. f. in Ill. Hortic. 31: 9. 1884.

"Central America".

TRICHOCENTRUM TIGRINUM Lind. & Reichb. f. in Gard. Chron. 892. 1869.

“Central America”.

IONOPSIS HBK., Gen. & Sp. 1: t. 83. 1815.

A small genus with one widely distributed species and a few local ones.

IONOPSIS COSTARICENSIS Schltr. in Fedde Rep. Beih. 19: 62. 1923.

Costa Rica.

IONOPSIS UTRICULARIOIDES (Sw.) Lindl., Coll. Bot. t. 39A. 1821; L. Wms. in Bot. Mus. Leafl. Harv. Univ. 6: 49. 1938.

*Epidendrum utricularioides* Sw., Prodr. Veg. Ind. Occ. 122. 1788.

*Iantha pallidiflora* Hook., Exot. Fl. 2: t. 113. 1824.

*Ionopsis pallidiflora* Lindl. in Bot. Reg. 22: sub t. 1904. 1836.

*Ionopsis paniculata* Lindl., 1. c. sub t. 1904.

*Ionopsis paniculata* Lindl., 1. c. t. 1904.

*Ionopsis utricularioides* var. *parviflora* Schltr. in Fedde Rep. Beih. 17: 74. 1922.

A widely distributed and occasionally abundant epiphyte. In Central America the species has often proliferated in the coffee plantations.

Florida, the Caribbean region, Mexico, Central America, much of northern South America and the Galapagos Islands.

RODRIGUEZIA Ruiz & Pavón, Fl. Peruv. & Chil. Prodr. 115, t. 25. 1794.

A small genus with most of its species in northern South America.

RODRIGUEZIA COMPACTA Schltr. in Fedde Rep. Beih. 19: 144. 1923.

Costa Rica and Panama.

RODRIGUEZIA SECUNDA HBK., Nov. Gen. & Sp. 1: 367, t. 92. 1815.

*Pleurothallis coccinea* Hook., Exot. Fl. 2: t. 129. 1823.

*Rodriguezia secunda* var. *panamensis* Schltr. in Fedde Rep. 17: 75. 1922.

Panama and South America.

SCLEROCHILUS Kl. in Allgem. Gartenz. 9: 261. 1841.

A small genus of the American tropics.

SCLEROCHILUS TUERCKHEIMII Schltr. in Fedde Rep. 10: 252. 1911.

Guatemala, Honduras and Costa Rica.

COMPARETTIA Poepp. & Endl., Nov. Gen. ac Sp. Pl. 1: 42, t. 73. 1835.

A small genus of about a dozen species.

COMPARETTIA FALCATA Poepp. & Endl., Nov. Gen. ac Sp. Pl. 1: 42, t. 73. 1835; Hook. in Bot. Mag. 83: t. 4980. 1857.

*Comparettia rosea* Lindl. in Bot. Reg. 26: Misc. p. 78. 1840.

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

TRIZEUXIS Lindl., Coll. Bot. t. 2. 1823.

A small genus with two or three species ranging from Costa Rica to Peru, and in the West Indies.

TRIZEUXIS FALCATA Lindl., Coll. Bot. t. 2. 1823.

West Indies, Costa Rica, Panama and South America.

HYBOCHILUS Schltr. in Fedde Rep. 16: 429. 1920.

A small genus with only the following species.

HYBOCHILUS INCONSPICUUS (Kränzl.) Schltr. in Fedde Rep. 16: 430. 1920.

*Rodriguezia inconspicua* Kränzl. in Bull. Herb. Boiss. 3: 630. 1895.

*Rodriguezia candalariae* Kränzl. in Engler, Jahrb. 54. Beibl. 117: 32. 1916.

Costa Rica.

COHNIELLA Pfitzer, Nat. Pflanzenf. 2, 6: 194. 1888.

*Cohnia* Reichb. f. in Bot. Zeit. 10: 928. 1852.

A monotypic genus of Guatemala or Nicaragua. I do not know it.

COHNIELLA QUEKETTIoidES (Reichb. f.) Pfitzer ex Dur. & Jacks., Ind. Kew. suppl. 1: 106. 1906.

*Cohnia quekettoides* Reichb. f. in Bot. Zeit. 10: 928. 1852.

The specific combination was not made by Pfitzer and in the Index Kewensis no synonymy is given.

Credited to Nicaragua and Guatemala.

TRICHOPILIA Lindl., Nat. Syst. Bot. ed. 2: 446. 1836.

*Leucohyle* Kl., Ind. Sem. Hort. Bot. Berol, app. 1. 1854.

A small genus of attractive epiphytes extending from Mexico and the West Indies to Brazil. The species of the genus are often not very distinct one from another. Allen's treatment in the flora of Panama is good but not final.

TRICHOPILIA CRISPA Lindl. in Gard. Chron. 342. 1857. "Central America".

TRICHOPILIA LEUCOXANTHA L. Wms. in Am. Orch. Soc. Bull. 10: 137, t. 5. 1941.

Panama.

TRICHOPILIA MACULATA Reichb. f. in Bonpl. 3: 215. 1855.

*Tricopilia Powellii* Schltr. in Fedde Rep. Beih. 17: 77. 1922.

Panama

TRICHOPILIA MARGINATA Henfrey in Gard. Mag. Bot. 3: 185. 1851.

*Trichopilia coccinea* Warsc. in Paxt., Fl. Gard. 2: 79. 1851-52.

There are several varieties (forms) of this species, among them are var. *alba* Reichb. f., var. *lepida* Veitch and var. *olivacea* Reichb. f. which are credited to Panama by Allen.

Guatemala, Honduras, Costa Rica and Panama.

TRICHOPILIA PUNCTATA Rolfe in Gard. Chron. 1: 227. 1890.

Costa Rica.

TRICHOPILIA SUAVES Lindl. in Paxt., Fl. Gard. 1: 44. 1850-51.

Costa Rica and Panama.

TRICHOPILIA SUBULATA (Sw.) Reichb. f. in Flora 48: 278. 1865.

*Epidendrum subulatum* Sw., Prodr. 123. 1788.

*Cymbidium subulatum* Sw. in Nov. Act. Soc. Upsal. 6: 73. 1799.

*Trichopilia tortilis* Lindl., Nat. Syst. Bot. ed. 2: 446. 1836.

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

TRICHOPILIA TURALVAE Reichb. f. in Hamb. Gartenz. 19: 11. 1863.

Costa Rica and Panama.

MESOSPINIDIUM Reichb. f. in Bot. Zeit. 10: 929. 1852.

A small genus of the American tropics.

MESOSPINIDIUM LEOCHILINUM (Reichb. f.) Schltr. in Fedde Rep. Beih. 19: 253. 1923.

*Rodriguezia leochilina* Reichb. f. in Gard. Chron. 1: 970. 1871.

Costa Rica.



MESOSPINIDIUM WARSCEWICZII Reichb. f. in Bot. Zeit.  
10: 929. 1852.

*Solenidium Endresii* Kränzl. in Engler, Pflanzenr. 4.  
50. Heft 80: 317. 1922.

Costa Rica and Panama.

SYSTELOGLOSSUM Schltr. in Fedde Rep. Beih.  
19: 252. 1923.

A small genus not known to occur outside of Costa  
Rica.

SYSTELOGLOSSUM ACUMINATUM A. & S., Sched. Orch.  
10: 105. 1930.

Costa Rica.

SYSTELOGLOSSUM COSTARICENSE Schltr. in Fedde Rep.  
Beih. 19: 252. 1923.

Costa Rica.

ODONTOGLOSSUM HBK., Nov. Gen. & Sp. 1:  
350, t. 85. 1816.

*Osmoglossum* Schltr., in literature as generic name  
but never published.

A genus of some one hundred species found in the  
mountains of the American tropics. There are many fine  
species in the Andes which are and have been for a long  
time past in cultivation.

ODONTOGLOSSUM BICTONIENSE (Batem.) Lindl. in Bot.  
Reg. 26: t. 66. 1840.

*Cyrtochilum bictoniense* Batem., Orch. Mex. & Guat.  
t. 6. 1838.

*Zygopetalum africanum* Hook. in Bot. Mag. 67: t.  
3812. 1840.

Mexico, Guatemala and El Salvador.

ODONTOGLOSSUM CARINIFERUM Reichb. f. in Bot. Zeit.  
10: 638. 1852.

*Oncidium cariniferum* Beer, Prakt. Stud. Orch. 283. 1854.

Costa Rica, Panama and South America.

ODONTOGLOSSUM CHIRIQUENSE Reichb. f. in Bot. Zeit. 10: 692. 1852.

*Oncidium chiriquense* Beer, Prakt. Stud. Orch. 283. 1954.

Costa Rica, Panama and South America.

ODONTOGLOSSUM CONVALLARIOIDES (Schltr.) A. & C. in Bot. Mus. Leafl. Harv. Univ. 11: 19. 1943.

*Osmoglossum convallarioides* Schltr. in Fedde Rep. Beih. 19: 148. 1923.

Mexico, Guatemala and Costa Rica.

ODONTOGLOSSUM CORDATUM Lindl. in Bot. Reg. 24: Misc. p. 50. 1838.

Mexico, Guatemala, Honduras and Costa Rica.

ODONTOGLOSSUM EGERTONII Lindl. in Bot. Reg. 31: Misc. p. 50. 1845.

*Oncidium Egertonii* Beer, Prakt. Stud. Orch. 285. 1854.

*Osmoglossum acuminatum* Schltr. in Fedde Rep. Beih. 17: 79. 1922.

*Osmoglossum anceps* Schltr. in Fedde Rep. Beih. 19: 147. 1923.

Mexico, Guatemala, Honduras and Costa Rica.

ODONTOGLOSSUM GRANDE Lindl. in Bot. Reg. 26: Misc. p. 47. 1840; Batem., Orch. Mex. & Guat. t. 24. 1840; Hook. in Bot. Mag. 68: t. 3955. 1842.

This is one of the finest orchids of Central America and usually does well in cultivation.

Mexico, Guatemala and Honduras.

ODONTOGLOSSUM KRAMERI Reichb. f. in Gard. Chron. 98. 1868.

Costa Rica.

ODONTOGLOSSUM LAEVE Lindl. in Bot. Reg. 30: t. 39. 1844; Hook. f. in Bot. Mag. 102: t. 6265. 1876.

*Oncidium laeve* Beer, Prakt. Stud. Orch. 288. 1854.  
*Miltonia laevis* Rolfe in Orch. Rev. 12: 300. 1904.  
Mexico and Guatemala.

ODONTOGLOSSUM MACRUM Lindl., Folia Orch. Odon-  
toglossum 12. 1852.

Lindley says that this species came from "Puerto Muelo at the height of 7000 feet" in Central America. I do not know where it might have originated.

ODONTOGLOSSUM MACULATUM Llave & Lex., Nov. Veg. Descr. Orch. Opusc. 35. 1824; Lindl. in Bot. Reg. 26: t. 30. 1840.

Mexico and Guatemala.

ODONTOGLOSSUM MAJALE Reichb. f. in Flora 69: 550. 1886.

*Odontoglossum platycheilum* Weathers in Gard. Chron. 11: 587, fig. 1892.  
Guatemala.

ODONTOGLOSSUM OERSTEDII Reichb. f. in Bonpl. 3: 214. 1855.

Costa Rica and Panama.

ODONTOGLOSSUM PAUCIFLORUM L. Wms. in Ceiba 4: 226. 1954.

Honduras.

ODONTOGLOSSUM PULCHELLUM Batem. ex Lindl. in Bot. Reg. 27: t. 48. 1841.

*Osmoglossum pulchellum* Schltr. in Orchis 10: 164. 1916, in synonym.

Mexico, Guatemala and El Salvador.

ODONTOGLOSSUM REICHENHEIMII Lind. & Reichb. f. in Bonpl. 3: 214. 1855.

*Miltonia Reichenheimii* Rolfe in Orch. Rev. 12: 300. 1904.

Mexico, reported from Costa Rica.

ODONTOGLOSSUM ROLLIAE Lodd. Cat. ex Loud. Hort. Brit. suppl. 3: 596. 1839.

Guatemala.

ODONTOGLOSSUM ROSSII Lindl., Sert. Orch. sub. t. 25. 1838; Lindl. in Bot. Reg. 25: t. 48. 1839.

*Odontoglossum rubescens* Lindl. in Journ. Hort. Soc. 5: 35. 1850.

Mexico, Guatemala, Honduras and Nicaragua.

ODONTOGLOSSUM SCHLIEPERIANUM Reichb. f. in Gard. Chron. 1082. 1865.

*Odontoglossum Powellii* Schltr. in Fedde Rep. Beih. 17: 78. 1922.

Costa Rica and Panama.

ODONTOGLOSSUM STELLATUM Lindl. in Bot. Reg. 27: Misc. p. 9. 1841.

Mexico and Guatemala.

ODONTOGLOSSUM STENOGLOSSUM (Schltr.) L. Wms. in Lloydia 10: 212. 1947.

*Miltonia stenoglossa* Schltr. in Fedde Rep. Beih. 19: 66. 1923.

Mexico, Guatemala, Honduras and Costa Rica.

ODONTOGLOSSUM UROSKINNERI Lindl. in Gard. Chron. 708. 1859.

Guatemala.

ODONTOGLOSSUM WILLIAMSIANUM Reichb. f. in Gard. Chron. 2: 134. 1881.

Mexico, Guatemala, Honduras and Costa Rica.

AMPAROA Schltr. in Fedde Rep. Beih. 19: 64. 1923.

A small genus of one, or perhaps two, species very closely allied to *Odontoglossum*.

AMPAROA COSTARICENSIS Schltr. in Fedde Rep. Beih. 19: 65. 1923.

A rare plant but locally abundant.  
Honduras and Costa Rica.