

PLANTAE MESOAMERICANAE NOVAE. VII*

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Xanthosoma croatana sp. nov., rhizoma breve tuberosum, lactescens, latex albidus siccando aurantiacus. Foliorum petioli cassiusculi pallide virides, pilis densissime obtecti, vagina membranosa instructi, 30-50 cm longi, basi 3 cm crassi apicem versus attenuati; lamina adulta 30-40 cm longa, 22-30 cm e parte media lata, opaca, pallide virides, utrimque velutina, pilis 1-2-cellulatis hyalinis, cordato-ovata, lobo antico acuto vel obtusisculo, lobis posticis obtusiusculo-subtruncatis vel pauciter rotundatis; nervis lateralibus primariis lobi antici utrinque 5, pilosis, nervis collectivis 2 marginibus distantibus (interno 2-3 mm, externo 5-6 mm). Pedunculus 1 cm crassus 30-35(40) cm longus, pilosus. Spathae tubus globosus, ± 5 cm, utrimque virens, apicem constrictus, constrictione (fauce) purpurea, intus pauce glanduloso-pilosus, glandulae sessiles, in maturitas fortissime clausus, nitentes; lamina spathae in maturitatae caduca, elliptico-lanceolata, utrinque alba, pilosa, nervis violascentibus ex faucem effussis deinde incoloribus, 12-14 cm longa, 4.5-6 cm lata. Spadicis stipes 3-4 mm longus, inflorescentia feminea 3.5-6 cm longa, cylindrico-inflata, vix 100-florata, albida; inflorescentia mascula 6-7 cm longa, e medio 1 cm crassa, viride-violacea, in maturitate putrescente et caduca. Grana sulphurea, laeves, 2-3-4-adas coalescentes, vix 70 μ m. Ovaria ovoidea annulo styli eburneo, in sicco brunneo atque stigmatibus rotundo instructa. Semina subconica, longitudinaliter sulcata, 0.6 mm longa, alba. Infructescentia globosa, albo-virens, laminae spathae scariosae coronata.

Obviously a member of the *x. pilosum-mexicanum* group. It differs from both those species in the densely velutinous surfaces of the leaf, the length of the peduncles and the coloration of the spathe. The new species is named in honor of Dr. Thomas Croat of Missouri Botanical Gardens for his many contributions to the knowledge of Araceae.

HOLOTYPUS: Rio Cabuyo, apx. 40 km NW of Canas, Guanacaste. Gordon Frankie & L. D. Gomez 18489 (CR). Isotypi: MO, F, K. PARATYPUS: Pozo Azul de Abangares, Guanacaste, C. E. Valerio s.n. 29-8-81, USJ 23464 & 23465.

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Cyperus costaricensis Gomez-L., sp. nov., culmus 60-160 cm altus; lamina foliorum 1-2 cm lata, longitudinaliter profunde sulcata; bractee ca. 12, folia similes; inflorescentia supradecomposita; glumae cellulare-reticulatae, carina prasina, marginibus rubiginosis, facile distinguitur. Sectio Diffusi Kunth.

Planta perennes, rhizomate breve, recto, crasso; radicibus fibrosis, fuscis; culmus erectus, rigidus, trigonus, 60-160 cm altus, subantha ca. 7 mm crassus, plerumque laevigatus, minute marginibus scabrus, plurifolius; folia culmum superantia, lamina linearia, 1-2 cm latae, herbaceae, tricostatae e medio longitudinaliter profunde sulcatae, marginibus minute scabra, etiam nervo medio dorsalis, apicem acuminatae; vaginae purpureo-suffusae; bractee ca. 12 folia similes, inaequalis, aliquod inflorescentiam superantes; bracteolae evaginant, lineare-lanceolatae, margine scabrae; inflorescentia supradecomposita, diffusa, ampla multiradiata, 11-27 cm longa, 9-35 cm lata; radii patentes, valde inaequalis, rigidis, subtrigonis, laevis, usque 1.5 mm latis; prophyllis exsurgentis, multinervosis, purpureo suffusis, orae oblique secta postice scabra longe producta; radioli secundarii et tertiarii divergentes; spiculae numerosae, 3-6-digitatae, radiant, oblongae, 4-6 mm longae, 1.5 mm latae, turgidae, 10-12-florae; rachilla recta, exalata; glumae ovatae, 1.1-1.3 mm longae, cellulare-reticulatae, carina prasina, mucro breve, recto vel excurvo coronata, gluma lateraliter sanguinea; stamina 3; stylus profunde trifidus; achaenium 1.2 mm longum, 0.6 mm latum, ovatum, triquetrum, breviter apiculatum, castaneum, nitens.

A member of section Diffusi Kunth it is distinguished from its congeners by the width of leaves and bracts, the glumes with their green carinae and reddish sides and the number of stamens. HOLOTYPE: Faldas de la Fila Volcan Muerto, San Ramon, Alajuela 1000-1100 m, Gomez Laurito 8322 (CR). ISOTYPE: F. PARATYPE: 6658 & 6659 J. Gomez-L., CR, J.G-L. 8320 MO. Additional material: same locality, Gomez-L., 8248, CR.

Pterichis leo sp. nov., habitu *P. galeata* Lindl. et *P. weberbaueriana* Kränzl. similis, sine dubio his speciebus proxima, differt labello rhomboideo, longitudine latitudine subaequantia, petaliis non unguiculatis.

Herba paludosa, parva, totta piloso-glandulosa viscidula; caulis brevissimus radices carnosissimas emittens, simplices. Folia una (raro 2-3) cito decidua, 7-8 cm longa, 15-17 mm lata, apicem acuta, viride, nervo medio purpureo. Inflorescentia adscendentes usque ad 30 cm longa, 10-15-florae, piloso-glandulosa; pedunculus $\pm$ 20 cm longus, bractee distantes, arcte vaginantes, acutae 35-40 mm longae, 12-14 mm latae. Flores adscendentes, non resupinatas, pedicellus cum ovario 15 mm longus. Sepalum intermedium lanceolatum, acutum, purpurascens, 9-9.5 mm longum, 3.8-4 mm latum, extus piloso-glanduloso, intus gla-

brus, marginibus pellucidis; sepala lateralía lanceolata, acuta, 6-7 mm longa, 4 mm lata, recurvata. Petala libera e basi oblique curvatim lanceolata, apicem obtuso-rotundata, 8-9 mm longa, 3-3.2 mm lata, virides sed purpureo suffusa; tepala omnia trinervia, nerviis xerampelineis. Labellum arcte incurvatum et longitudinaliter plicatum, apicem breviter lobulatum, 7 mm longum, e parte media vix 10 mm latum, basim recto vel pauciter excavatum, apicem obtusum, carnosum, glandulis papillatis marginibus obtectus, glandulae flavae. Columna teres, truncata, brevissima, 2 mm longa; pollinia fusiformia, 1.5 mm longa, stipitibus viscidio communi punctiformi atropurpureum conniventibus; rostellum leviter productum, obtusum. Capsulae anguste ellipsoideae, 12-15 mm longae, vix 4 mm diametro, 6-costatae.

HOLOTYPUS: In sphagnetum, 3 de Junio, Prov. de San Jose, 2800-3000 m, J. Gomez-L. 1243, CR. PARATYPUS: In bog, Cerro de la Muerte, Cartago, 3100 m, L. Glicenstein in L.D.Gomez 18574, CR. The new species is named in honor of Leon Glicenstein, ardent student of our native orchids, for his many years of devoted and careful fieldwork.

The Costa Rican representatives of this mainly South American genus can be separated as follows:

- 1- Labellum chartreuse or very pale sulphur yellow, rounded cordate at base, apiculate-subulate at apex, with 2-3 veins on each side, these 1-3-branched. Lateral petals usually adhering to the dorsal sepal..... *P. costaricensis* O. Ames & Schweinf.
- 1¹ Labellum xerampelinum or greenish-marron, with marginal yellow papillae, straight or excavate at base, obtuse and flat at apex, with 4-6 veins/ side, these 1-forked. Tepals all free... *P. leo*

NEW RECORDS

Cyperus digitatus Roxburg, J.Gomez-L 6854; 6855; 6856, Cabezas, P. of Puntarenas; J. Gomez-L. 7085; 7086, La Cruz, Guanacaste.

Cladium jamaicense Crantz, Holst & Soto s.n. in Gomez-L. 8328, 8329, Cahuita, Prov. Limon.

Mariscus pedunculatus (R. Br.) T. Koyama [*Remirea maritima* Aublet] C. E. Valerio 52, Tortuguero, Prov. Limon.

Hypolytrum longifolium (L.C.Rich.) Nees ssp. *nicaraguensis* (Liebm.) T. Koyama, Gomez-L. 790], 7902, Tortuguero, Prov. Limon.

Polycarpon tetraphyllum (L.) L., Tierra Blanca de Cartago, Gomez -L. 8629, 8630 [fide Wm. Burger, in litt.].

Agalinis hispidula (Martius) D'Arcy, Gomez-L. 7034, 7035, La Cruz, Provincia Guanacaste.



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