

CONTRIBUTIONS TO THE FLORA OF EXTRA-TROPICAL SOUTH AMERICA

II

BY HAROLD N. MOLDENKE
(U. S. A.)

The present paper is a continuation of the series of contributions begun by me in *Lilloa* V : 353-440 (1940). An explanation of the abbreviations of the names of herbaria in which the cited specimens are deposited is found on pages 353 and 354 of the first paper in this series. In addition to the abbreviations there listed, however, the following are also employed in the present paper¹: D = Academy of Natural Sciences, Philadelphia; Go = Botaniska Trädgård, Göteborg, Sweden; Le = Rijksherbarium, Leiden, Netherlands; Lo = Gualterio Looser herbarium, Santiago, Chile; Lu = Botanisk Museum, University of Lund, Lund, Sweden; Mi = University of Michigan, Ann Arbor, Michigan; Oa = Oakes Ames Economic Herbarium, Botanical Museum of Harvard University, Cambridge, Massachusetts; R = Trinidad and Tobago Botanical Garden, Port-of-Spain, Trinidad; Us = Botaniska Institutionen, Uppsala, Sweden; Ut = Botanisch Museum en Herbarium, Utrecht, Netherlands; Vu = Botanisches Institut der Universität, Vienna, Austria, and Y = Yale School of Forestry, New Haven, Connecticut.

¹ For a more complete list of the abbreviations used by me in all my botanical publications for the names of herbaria in which cited specimens are deposited, see Moldenke, *A preliminary list showing the location of the principal collections of Verbenaceae and Aricenniaceae*, pp. 1 and 2, 1939.

HYMENOPHYLLACEAE

determinations by W. R. Maxon

Hymenophyllum cruentum Cav. — CHILE : Valdivia : Panguipulli, alt. about 200 m, January, 1929, A. Hollermayer s. n. [E. Werdermann 1929] (N).

Hymenophyllum dentatum Cav. — CHILE : Valdivia : Panguipulli, alt. about 200 m, July, 1926, A. Hollermayer s. n. [E. Werdermann 1925] (N).

Hymenophyllum dichotomum Cav. — CHILE : Valdivia : Panguipulli, alt. about 200 m, August, 1926, A. Hollermayer s. n. [E. Werdermann 1924] (N).

Hymenophyllum pectinatum Cav. — ARGENTINA : Río Negro : Puerto Blest, región del Lago Nahuel Huapí, in moist woods, January 12, 1935, A. L. Cabrera and M. M. Job 248 (N-2). CHILE : Valdivia : Panguipulli, alt. about 200 m, August, 1926, A. Hollermayer s. n. [E. Werdermann 1923] (N).

SCHIZAEACEAE

determination by W. R. Maxon

Aneimia sp. — ARGENTINA : Córdoba : Agna de Oro, dept. Colón, March 10, 1939, G. Dawson 619 (N).

CYATHEACEAE

determination by W. R. Maxon

Alsophila quadripinnata (Gmel.) C. Chr. — CHILE : Valdivia : Panguipulli, alt. about 200 m, June, 1926, A. Hollermayer s. n. [E. Werdermann 1894] (N).

POLYPODIACEAE

determinations by W. R. Maxon

Adiantopsis chlorophylla (Sw.) Fée — ARGENTINA : Entre Ríos : María Grande, May 24, 1940, A. L. Cabrera 6450 (N).

Adiantopsis radiata (L.) Fée. — ARGENTINA : Misiones : Puerto Aguirre, July, 1938, J. Frenguelli 40 (N).

Adiantum cuneatum Langsd. and Fisch. — ARGENTINA : Corrientes : woods at mouth of arroyo Villanueva, November, 1936, A. P. Rodrigo 637 (N).

Adiantum digitatum Presl — ARGENTINA : Tucumán : Quebrada del Huasанcho, Cumbres Calchaquíes, March 29, 1914, D. Rodríguez 1461 (N).

Adiantum polypyllum Willd. — COLOMBIA : Magdalena : forest near Los Vagas, Finca El Recuerdo, alt. 2500 feet, Santa Marta, February, 1936, D. S. Bennett 5 (N).

Asplenium auritum Sw. (var.). — ARGENTINA : Misiones : Puerto Aguirre, July, 1938, J. Frenguelli 12 (N).

Blechnum andinum (Baker) C. Chr. — CHILE : Valdivia : Panguipulli, alt. about 200 m, January, 1929, A. Hollermayer s. n. [E. Werdermann 1921] (N).

Blechnum auriculatum Cav. — ARGENTINA : Buenos Aires : Punta Lara, August 15, 1939, A. L. Cabrera 5241 (N); same locality, January 4, 1940, G. Dawson 933 (N). San Luis : La Ciénaga, February, 1936, M. A. Vignati 16 (N).

Blechnum chilense (Kaulf.) Mett. — ARGENTINA : Buenos Aires : Cerro de la Ventana, Sierra de la Ventana, Partido de Tornquist, January 17, 1940, A. L. Cabrera 5768 (N). Río Negro : Lago Espejo, región del Lago Nahuel Huapí, February 7, 1940, A. L. Cabrera 5975 (N).

Blechnum penna-marina (Poir.) Kuhn — ARGENTINA : Córdoba : Los Gigantes, dept. Punilla, March 17, 1939, G. Dawson 513 (N). Río Negro : Cerro Otto, alt. 1000 m, región del Lago Nahuel Huapí, January 6, 1935, A. L. Cabrera and M. M. Job 79 (N); Puerto Blest, región del Lago Nahuel Huapí, January 13, 1935, A. L. Cabrera and M. M. Job 270 (N); same locality, January 12, 1935, A. L. Cabrera and M. M. Job 294 (N). CHILE : Valdivia : Mange-

dehué, alt. about 150 m, February, 1927, A. Hollermayer s. n. [E. Werdermann 1888] (N).

Blechnum Raddianum Rosenst. — ARGENTINA : Neuquén : Correntoso, región del Lago Nahuel Huapí, January 10, 1935, A. L. Cabrera and M. M. Job 239 (N).

Blechnum unilaterale Sw. — ARGENTINA : Corrientes : Itá-pucú, between rocks, Mercedes, November, 1936, A. P. Rodrigo 787 (N).

Blechnum valdiviense C. Chr. — CHILE : Valdivia : Pangipulli, alt. about 200 m, December, 1927, A. Hollermayer s. n. [E. Werdermann 1885] (N).

Blechnum sp. (cfr. *B. Raddianum* Rosenst.) — ARGENTINA : Neuquén : Puerto Blest, región del Lago Nahuel Huapí, January 12, 1935, A. L. Cabrera and M. M. Job 252 (N), juvenile.

Cheilanthes dichotoma (Cav.) Sw. — ARGENTINA : Misiones : fields between Santa Ana and Candelaria, November 20, 1896, N. Alboff s. n. (N.).

Cheilanthes microphylla var. *elongata* (Willd.) Krug — ARGENTINA : Santa Fe : Camino de Reconquista a Nicancor Molinas, January-February, 1936, M. M. Job 859 (N); Lanteri, Es taneia Bonazzola, January-February, 1936, M. M. Job 1245 (N).

Cystopteris fragilis (L.) Bernh. — ARGENTINA : Neuquén : Fraipal Mahuida, quebrada del arroyo Chacay-có, February 7, 1939, A. Chicchi 87 (N).

Dennstaedtia glauca (Cav.) C. Chr. — ARGENTINA : Tucumán : Pie de la Cuesta Grande, alt. 2300 m, dept. Trancas, April 21, 1926, S. Venturi 4204 (N-2), plants 2 m tall, in terrestrial habitat, so determined also by C. A. Weatherby.

Diplazium cristatum (Desrousseaux) Alston — ARGENTINA : Salta : El Cedral, orillas corrientes de Agua, Orán, October 25, 1913, D. Rodríguez 1050 (N).

Dryopteris argentina (Hieron.) C. Chr. — ARGENTINA : Córdoba : highway « El Cuadracho » around Manantial, dept. Colón, G. Dawson 206 (N).

Dryopteris gongyloides (Schkuhr) Kuntze — ARGENTINA : Entre Ríos : on « Monte Blanco », Río Ceibo, Delta del Paraná, November 24, 1932, A. L. Cabrera 2522 (N-3), so determined also by A. Burkart.

Dryopteris patens (Sw.) Kuntze — ARGENTINA : Salta : El Cedral, orillas corrientes de Agua, Orán, October 27, 1913, D. Rodríguez 1062 (N).

Dryopteris sp. — ARGENTINA : Buenos Aires : Paraná Miní, Delta del Paraná, January 19, 1931, A. L. Cabrera 1597 (N), sterile, juvenile ?

Hypolepis Poeppigii (Kuntze) Mett. — ARGENTINA : Neuquén : Correntoso, región del Lago Nahuel Huapí, January 10, 1935, A. L. Cabrera and M. M. Job 227 (N). CHILE : Valdivia : Pangipulli, alt. about 200 m, May, 1926, A. Hollermayer s. n. [E. Werdermann 1880] (N.).

Hypolepis sp. — ARGENTINA : Salta : in wet woods, San Lorenzo, dept. Capital, May 28, 1933, A. L. Cabrera 3029 (N), sterile.

Notholaena Buchtienii Rosenst. — ARGENTINA : El Durazno, alt. 900 m, January-February, 1936, A. P. Rodrigo 565 (N). Córdoba : road to La Falda 19 km from Salsipuedes, dept. Colón, March 16, 1939, G. Dawson 495 (N).

Pellaea nivea (Poir.) Prantl — ARGENTINA : Catamarca : mountains, Belén, February 26, 1929, A. L. Cabrera 1131 (N), so determined also by the collector.

Pellaea tenuifolia (Cav.) Link — ARGENTINA : Córdoba : Sierra Grande, between San Antonio and Copina, alt. 1200 m, January-February, 1936, A. P. Rodrigo 445 (N). CHILE : Valdivia : Puñire, alt. about 150 m, February, 1927, A. Hollermayer s. n. [E. Werdermann 1898] (N.).

Polypodium Billardieri (Willd.) C. Chr. — CHILE: Valdivia: Coihueco, alt. about 300 m, November, 1927, A. Hollermayer s. n. [E. Werdermann 1857] (N).

Polypodium Gilliesii C. Chr. — ARGENTINA: San Luis: La Ciénaga, February, 1936, M. A. Vignati 17 (N).

Polypodium lanceolatum L. — CHILE: Valdivia: Lago Panguipulli, alt. about 150 m, January, 1927, A. Hollermayer s. n. [E. Werdermann 1879] (N).

Polypodium phyllitidis L. — ARGENTINA: Misiones: picada sobre los saltos argentinos del Iguazú, July 26, 1937, A. P. Rodrigo 1046 (N).

Polypodium polypodioides var. **minus** (Fée) Weatherby — ARGENTINA: Entre Ríos: on a moist trunk, arroyo Llorones, Delta del Paraná, November 23, 1931, A. L. Cabrera 1954 (N).

Polypodium Tweedianum Hook. — ARGENTINA: Salta: on trunks, San Lorenzo, dept. Capital, May 28, 1933, A. L. Cabrera 3063 (N).

Polypodium vacciniifolium Langsd. and Fisch. — ARGENTINA: Buenos Aires: Punta Lara, November 11, 1940, G. Dawson 1007 (N). Santa Fe: on trunks of trees, Lanteri, Estancia Bonazzola, January-February, 1936, M. M. Job 1181 (N).

Polystichum adiantiforme (Forst.) J. Sm. — ARGENTINA: Río Negro: Cerro López, región del Lago Nahuel Huapí, alt. 900 m, January 15, 1935, A. L. Cabrera and M. M. Job 347 (N).

Polystichum mohrioides var. **elegans** (Remy) C. Chr. — ARGENTINA: Río Negro: Cerro Otto, alt. 1200 m, región del Lago Nahuel Huapí, January 6, 1935, A. L. Cabrera and M. M. Job 64 (N); Lago Espejo, región del Lago Nahuel Huapí, February 7, 1940, A. L. Cabrera 5978 (N). CHILE: Valdivia: Volcán Chodhuenco, alt. about 1300 m, January, 1928, A. Hollermayer s. n. [E. Werdermann 1873] (N).

Polystichum montevidense (Spreng.) Sorenst. — ARGENTINA: San Luis: Cerro Retana, Sierra de San Luis, January, 1934, M. A. Vignati 278 (N).

Polystichum vestitum (Forst.) Presl, sens. lat. — CHILE: Valdivia: Panguipulli, alt. about 200 m, July, 1926, A. Hollermayer s. n. [E. Werdermann 1897] (N).

Pteridium arachnoideum (Kaulf.) Maxon — ARGENTINA: Córdoba: Sierra Grande, road to Muri, alt. 1700 m, January-February, 1936, A. P. Rodrigo 594 (N-2), abundant.

Pteridium psittacinum (Presl) Maxon? — ARGENTINA: Entre Ríos: Río Ceibo, Delta del Paraná, November 24, 1932, A. L. Cabrera 2526 (N), determined by A. Burkart as *P. aquilinum* var. *esculentum* (Forst.) Hieron.

Pteris deflexa Link — ARGENTINA: Salta: El Cedral, Orán, October 26, 1913, D. Rodriguez 1053 (N).

Pteris vittata L. — ARGENTINA: Buenos Aires: Alrededores de La Plata, Facultad de Agronomía, December 27, 1932, A. L. Cabrera 2668 (N). Corrientes: barrancas along the Paraná, Capital, November, 1936, A. P. Rodrigo 905 (N).

Trismeria trifoliata (L.) Diels — ARGENTINA: Tucumán: Río Tacanas, alt. 1200 m, dept. Trancas, April 17, 1926, S. Venturi 4198 (N).

GLEICHENIACEAE

determination by W. R. Maxon

Dicranopteris quadripartita (Poir.) Looser — ARGENTINA: Río Negro: Laguna Frías, Río Frías, región del Lago Nahuel Huapí, February 11, 1940, A. L. Cabrera 6077 (N).

SALVINIACEAE

determination by W. R. Maxon

Azolla filiculoides Lam. — CHILE: Valdivia: Panguipulli, alt. about 150 m, 1927, A. Hollermayer s. n. [E. Werdermann 1895] (N).

EQUISETACEAE

determination by W. R. Maxon

Equisetum giganteum L. — ARGENTINA : Buenos Aires : bosque de Punta Lara, November 11, 1940, G. Dawson 1005 (N). Córdoba : Villa General Mitre, dept. Totoral, April 8, 1939, G. Dawson 636 (N). Santa Fe : Reconquista, Río Paraná, Isla Mascota, January-February, 1936, M. M. Job 902 (N).

LYCOPIDIACEAE

determinations by W. R. Maxon

Lycopodium paniculatum Desv. — ARGENTINA : Río Negro : Paso de las Nubes, región del Lago Nahuel Huapí, alt. 1300 m, February 5, 1940, A. L. Cabrera 5939 (N).

Lycopodium Saururus Lam. — ARGENTINA : San Luis : Arroyo de las Ágnilas, Sierra de San Luis, January, 1934, M. A. Vignati 96 (N), determined by the collector as « *L. Laururus* Lam. ».

Lycopodium spurium Willd. — CHILE : Valdivia : Purulón, alt. about 100 m, November, 1926, A. Hollermayer s. n. [E. Werdermann 1887] (N).

CYPERACEAE

by Charles Gilly

Carex aphylla Kunth. — ARGENTINA : Río Negro : Lago del Nahuel-Huapí, 800 m., Dec. 16, 1896, S. Roth s. n.

Eleocharis contracta Maury. — ARGENTINA : Corrientes : Mercedes, Nov. 1936, A. P. Rodrigo 826. This species has been referred to *E. nodulosa* (Roth.) Schultes by Svenson (Rhodora 39 : 258, 1937), but *E. contracta* seems to be adequately and definitely distinct from that species.

Eleocharis melanostachys (d'Urv.) C. B. Clarke. — ARGENTINA : Río Negro : Puerto Blest, Jan. 10, 1935, A. L. Cabrera and M. M. Job 263.

Eleocharis nodulosa (Roth.) Schultes. — ARGENTINA : Corrientes : Mercedes, forests of Pay-ubre Grande, Nov. 1936, A. P. Rodrigo 729. Santa Fe : Camino de Recomosquito, Feb. 1, 1936, M. M. Job 780.

Scirpus inundatus Poir. — ARGENTINA : Río Negro : Puerto Blest, Jan. 12, 1935, A. L. Cabrera and M. M. Job 300.

The specimens cited above represent apparent range extensions. I have been unable to find published reports of these species from the provinces mentioned.

The following additional Argentinian specimens, all deposited in the herbarium of the New York Botanical Garden, have also been determined :

Carex bonariensis Desf. — ARGENTINA : Buenos Aires : G. Dawson 762, 777. Santa Fe : M. Barros s. n.¹.

Carex sororia Kunth. — ARGENTINA : Buenos Aires : A. Scala s. n.

Cyperus cayennensis (Lam.) Britton. — ARGENTINA : Córdoba : Dawson 497, 639. Corrientes : A. P. Rodrigo 780. Santa Fe : M. M. Job 695.

Cyperus corymbosus Rottb. — ARGENTINA : Buenos Aires : Dawson 683. Santa Fe : Job 1013.

Cyperus Eragrostis Lam. — ARGENTINA : Buenos Aires : A. L. Cabrera 5740, Dawson 906. Río Negro : Scala 65.

Cyperus esculentus L. — ARGENTINA : Santa Fe : Job 680.

Cyperus ferax L. C. Rich. — ARGENTINA : Santa Fe : Job 715. Totoral : Dawson 630.

Cyperus giganteus Vahl. — ARGENTINA : Entre Ríos : Cabrera 1978, 2545.

Cyperus hermaphroditus (Jacq.) Standl. — ARGENTINA : Tucumán : C. Bruch s. n.

¹ The initials of the collector have been given only the first time the name appears in this list.

Cyperus laetus Kunth. — ARGENTINA : Corrientes : Rodrigo 925.

Cyperus lanceolatus Poir. — ARGENTINA : Santa Fe : Job 1253.

Cyperus Luzulae (L.) Retz. — ARGENTINA : Buenos Aires : Dawson 373. Santa Fe : Castellanos s. n., Ragonese 2142.

Cyperus Meyenianus Kunth. — ARGENTINA : Santa Fe : Job 715.

Cyperus niger Ruiz and Pavon. — ARGENTINA : Tucumán : S. Venturi 4370.

Cyperus oxylepis Nees. — ARGENTINA : Santa Fe : Job 1057, Ragonese 2175.

Cyperus polystachyos Rottb. — ARGENTINA : Buenos Aires : Cabrera 4516.

Cyperus prolixus H. B. K. — ARGENTINA : Buenos Aires : Rodrigo 2222.

Cyperus reflexus Vahl. — ARGENTINA : Buenos Aires : Cabrera 2478, 5774, Dawson 906, Rodrigo 1084. Corrientes : Rodrigo 679.

Cyperus rivularis Kunth. — ARGENTINA : Tucumán : Bruch s. n., Venturi 4362

Cyperus uncinulatus Schrad. — ARGENTINA : Tucumán : Venturi 4361.

Eleocharis bonariensis Nees. — ARGENTINA : Buenos Aires : Cabrera 3367.

Eleocharis crinalis (Griseb.) C. B. Clarke. — ARGENTINA : Tucumán : Venturi 4371.

Eleocharis montana (H. B. K.) R. and S. — ARGENTINA : Tucumán : Bruch s. n.

Fimbristylis complanata (Retz.) Link. — ARGENTINA : Tucumán : Venturi 4372.

Fimbristylis squarrosa Vahl. — ARGENTINA : Santa Fe : Job 938.

Kyllinga pungens Link. — ARGENTINA : Buenos Aires : Scala 30. Corrientes : Rodrigo 788.

Scirpus americanus Pers. — ARGENTINA : Tucumán : Venturi 4368.

Scirpus riparius Presl. — ARGENTINA : Santa Fe : Castellanos s. n.

ERIOCAULACEAE

Syngonanthus caulescens (Poir.) Ruhl. — PARAGUAY : Villa-rica, P. Jörgensen 4174 (N), originally distributed as *Paepalanthus* sp.

PIPERACEAE

determinations by W. Trelease

Peperomia hispiduliformis Trelease, n. sp.

Herba parviuscula ; caule petiolisque crispo-pilosus ; foliis alternis rotundato-ovatis obtusis vel subacute cordatis multinerviis, supra pilis paucis brevibus crassis armatis, subtus in nerviis saepe crispo-pilosus ; spicis axillaris gracillimis per laxifloris ; bracteis subrotundato-peltatis ; fructibus ellipsoideis.

A rather small delicate herb of the aspect of *P. hispidula* ; stem, petioles and sometimes the nerves beneath crisp-pilose ; leaves alternate, round-ovate, obtuse or subacute, cordate, 10×12 to 20×20 mm, multiple-nerved, the basal nerves about 3×2 , the midrib again branched at about the middle or once more higher, with a few short thick soft hairs above ; petiole scarcely 10 mm long ; spikes axillary, very slender and loosely flowered, some 10-20 mm long including the peduncle ; bracts roundish-peltate ; berries ellipsoid, more or less stipitate, with slender style and apical stigma.

Type locality : Las Pavas, Tucumán, at 1700 m alt., S. Venturi 2986 (Ur-type).

Additional specimens examined : ARGENTINA : Salta : A. L. Cabrera 3042 (N), epiphytic on moist trunks.

SALICACEAE

determination by Carleton R. Ball

Salix Humboldtiana Kunth — ARGENTINA : Córdoba : R. Maldonado B. 122 (N).

URTICACEAE

determinations by E. P. Killip

Boehmeria caudata Sw. — ARGENTINA : Jujuy : around Laguna de la Brea, La Quinta, dept. Santa Bárbara, July 10 1937, A. L. Cabrera 4130 (N).

Urtica mollis Steud. — ARGENTINA : Salta : Cafayate, alt. 1800 m, D. Rodríguez 1257 (N). Tucumán : Valle de Tafí, 1908, C. Bruch s. n. (N), determined by A. P. Rodrigo as *U. dioica* var. *mollis* (Steud.) Wedd.; Quebrada del Chorro, alt. 3100 m, dept. Tafí, April 23, 1906, S. Venturi 4411 (N), plants 1.5 m tall, flowers white.

PHYTOLACCACEAE

determination by J. Monachino

Ercila volubilis A. Juss. — CHILE : Valdivia : Chinguil, alt. about 200 m, October, 1927, A. Hollermayer s. n. [E. Werdermann 1922] (N).

MENISPERMACEAE

Cissampelos pareira var. *australis* (St. Hil.) Diels — ARGENTINA : Corrientes : island in front of the port of Esquina, December, 1936, A. P. Rodrigo 955 (N), flowers greenish. Santa Fe : margins of the Paraná Miní, November 15, 1939, T. Meyer 2764 (N).

Cissampelos pareira var. *Gardneri* Diels — ARGENTINA : Chaco : Antequeras, November, 1933, T. Meyer 827 (N). Salta : edge of woods, Alemania, alt. 1300 m, dept. Guachipas, December 19, 1929, S. Venturi 9907 (N), flowers

clear-green. BOLIVIA : Santa Cruz : Buena Vista, alt. 450 m, September, 1915, J. Steinbach 1602 [Herb. Inst. Miguel Lillo 16.541] (N), so determined also by the collector.

Cissampelos pareira var. *tamoides* (Willd.) Diels — ARGENTINA : Corrientes : Meza Island, 10 km. up the Río Paraná, November, 1936, A. P. Rodrigo 864 (N), fruit red.

Hyperbaena domingensis (P. DC.) Benth. — BOLIVIA : Santa Cruz : alt. 1500 m, August 9, 1917, J. Steinbach 3354 [Herb. Inst. Miguel Lillo 16.537] (N), so determined also by the collector.

Hyperbaena Hassleri Diels — BOLIVIA : Santa Cruz : Buena Vista : September 1, 1915, J. Steinbach 1607 [Herb. Inst. Miguel Lillo 16.536] (N), so determined also by the collector; Cercado, alt. 450 m., September 25, 1916, J. Steinbach 2821 [Herb. Inst. Miguel Lillo 16, 538] (N), so determined also by the collector.

Odontocarya tamoides (P. DC.) Miers — ARGENTINA : Chaco : Fontana, August, 1938, T. Meyer 2274 (N).

MONIMIACEAE

determinations by J. Monachino

Laurelia sempervirens (Ruiz and Pav.) Tul. — CHILE : Valdivia : Panguipulli, alt. 200 m, January, 1928, P. A. Hollermayer s. n. [E. Werdermann 1865] (N); same locality, October, 1927, P. A. Hollermayer s. n. [E. Werdermann 1870] (N).

BRASSICACEAE

determinations by R. C. Rollins

Brassica campestris L. — ARGENTINA : Buenos Aires : Gonnet, October 4, 1939, G. Dawson 729 (N).

Erysimum repandum L. — ARGENTINA : Río Negro : Cumallo, January 3, 1939, A. L. Cabrera and M. M. Job 19 (N).

Lesquerella montevidensis (Eichl.) Wats. — ARGENTINA : Buenos Aires : mountains and Laguna de Puán, November 10, 1928, A. C. Scala s. n. (N).

Rorippa nasturtium-aquaticum (L.) Hayek — ARGENTINA : Río Negro : Bariloche, región del Lago Nahuel Huapí, February 5, 1940, A. L. Cabrera 5965 (N-2).

Sisymbrium officinale (L.) Scop. — ARGENTINA : Buenos Aires : Gonnet, October 4, 1939, G. Dawson 726 (N).

EUPHORBIACEAE

determinations and comments by Leon Croizat

Acalypha amblyodonta Müll. Arg. — ARGENTINA : Misiones : Puerto Aguirre, July 23, 1937, A. P. Rodrigo 1040 (N), shrub 1 m tall, « specimen malum, at hujus loci bene esse videtur ».

Acalypha communis Müll. Arg. — ARGENTINA : Corrientes : bank of the Río Paraná 6 km north of Capital, November, 1936, A. P. Rodrigo 912 (N), shrub 1 m tall, « ad var. *hirtam* arctius accedit. » Misiones : neighborhood of Candelaria, near Posadas, November 15, 1896, N. Alboff s. n. (N).

Acalypha communis Müll. Arg. var. *hirta* (Spr.) Müll. Arg. — ARGENTINA : Buenos Aires : dunes, Martín García Island in the Río de la Plata, October, 1934, A. L. Cabrera 2880 (N).

Acalypha cf. gracilis (Spr.) Müll. Arg. — ARGENTINA : Buenos Aires : Punta Lara, January 4, 1940, G. Dawson 947 (N), « this specimen is a match of Cabrera 2024 from Punta Lara, 14/1/1932, distributed as *Acalypha gracilis* (Spr.) Müll. Arg. I have not seen authentic material and the binomial is erroneously applied in herbaria to forms of the so-called *A. communis* Müll. Arg. [cf. for instance, O. Kuntze s. n. from Velasco, Bolivia, VII. 1892, in herb. N. Y. Bot. Gard.]. The descriptions, however, indicate that Cabrera 2024 may be accepted as a form of the *A. gracilis*

complex, thus identifying, at least for the present, G. Dawson 947 as belonging to the same species ».

Acalypha Poiretii Spreng. — ARGENTINA : Jujuy : Vinalito, Yuto, dept. Santa Bárbara, July 7, 1937, A. L. Cabrera 4056 (N), ruderal.

Chamaesyce hirta (L.) Millsp. subsp. **procumbens** (Boiss.) Croiz., comb. nov. [*Euphorbia hirta* L. var. *procumbens* Boiss.]. — ARGENTINA : Córdoba : Itasi de la Golondrina, Salsipuedes, dept. Colón, March, 1938, G. Dawson 130 (N), flowers white.

Chamaesyce ovalifolia (Engelm.) Croiz., comb. nov. [*Euphorbia ovalifolia* Engelm.]. — ARGENTINA : Tucumán : Colalao del Valle, alt. 1600 m., dept. Tafí, April 26, 1926, S. Venturi 4387 (N), plants prostrate.

Chamaesyce pilulifera (L.) Small — ARGENTINA : Santiago del Estero : Tureno, dept. Robles, November 21, 1939, R. Maldonado B. 237 (N). « The photograph of the Linnean holotype of *Euphorbia pilulifera* (Gray Herbarium) shows the plant which has so far been mistakenly identified as *E. brasiliensis* or *E. indica*. *Euphorbia pilulifera* L. is certainly NOT a synonym of *E. hirta* L., as it has been erroneously believed to be.

« I cannot find the slightest difference between R. Maldonado B. 237 and a specimen from the Steudel herbarium (now in herb. Arnold Arboretum), collected in the Nilgherries [Neilgherries, in southern India] by Metz under no 1557, identified in Boissier's own handwriting as *E. cassiodoides* Presl. The Preslian binomial is well known as a classic specimen of *E. indica*, and is cited in the synonymy of the Lamarckian binomial by Boissier, op. cit., loc. cit.

« It is evident, therefore, that either the American plant and the Indian weed are widespread as one single species between Indostan and Argentina, or — which I judge to be more probable — that the great majority of specimens so far determined in American herbaria as *E. brasiliensis* and *E. hypericifolia* are

merely plants that spring in America from an original introduction of the Indian weed.

« It is not possible at present to revise the entire synonymy involved in a consideration of these binomials, on account of the impossibility of securing the necessary holotypes. I identify this plant, nevertheless, as *Chamaesyce pilulifera* (L.) Small [quad nomen, non sensu Small] (syn.: *Euphorbia cassioides* Presl fide Boissier op. cit., loc. cit. et spec. auth.!), adding the further synonymy: *E. indica* Lam., *E. hirta* and *Chamaesyce hirta*, *E. brasiliensis* and *Chamaesyce brasiliensis* auct. mult.

« The use of the generic name *Chamaesyce* is fully justified by the fact that about 600 species are included under this group, which is one of the main phyletic units of *Euphorbia* sensu auct. To retain this well characterized group under *Euphorbia* a concept of genus must be adopted in the *Euphorbiaceae* which forces the reduction of the *Hippomaneeae* to very few genera, of *Glochidion* to *Phyllanthus*, of *Lasiococca* and *Homonoia* to *Mallotus*, of *Mallotus* to *Macaranga*, and the like. Since uniformity of concepts is essential to classification the use of *Chamaesyce* as a separate genus is unavoidable ».

Chamaesyce serpens (H. B. K.) Small — ARGENTINA: Córdoba: La Falda, Río Grande, January, 1936, M. M. Job 458 (N).

Chiropetalum griseum Griseb. — ARGENTINA: Chaco: Enrique Urien, Campo Bonazzola, dept. Tapenaga, November, 1940, A. P. Rodrigo 2552 (N), «determined on 'Argythamnia mollis' Baill.', O. Kuntze s. n. from Córdoba, XII. 92, in herb. N. Y. Bot. Gard., apparently cited by Pax and Hoffmann in Pflanzenr. 57 [IV. 147. vi]: 89. 1912».

Chiropetalum* cf. *tricuspidatum (Lam.) A. Juss. × *lanceolatum* (Cav.) Müll. Arg. — ARGENTINA: La Rioja: Chicligasta, Nonogasta, alt. 900 m, December, 1928, S. Venturi 7830 (N), «agrees fairly well with a fragment of the holotype, but leaves much smaller in this specimen».

Croton andinus Müll. Arg. (*C. psammophilus* Lillo!). — ARGENTINA: Tucumán: at entrance to saltpeter works, alt.

1100 m, highway to San Pedro de Colalao, dept. Trancas, April 16, 1926, S. Venturi 4385 (N), flowers yellow.

Croton Bonplandianus Baill. — ARGENTINA: Corrientes: toward the north in the vicinity of Mercedes, alt. 80 m, November, 1936, A. P. Rodrigo 798 (N), flowers white. Santiago del Estero: Turena, dept. Robles, December 4, 1939, R. Maldonado B. 251 (N), «syn.: *C. sparsiflorus* Morong, *C. pauperulus* Müll. Arg., *C. rivinoides* Chod., cf. notas críticas Croizat, Journ. Bombay Nat. Hist. Soc. 41: 573. 1940».

Croton echinulatus (Griseb.) Croiz. [*Croton pyenocephalus* Baill. var. *echinulatus* Griseb.] — ARGENTINA: Córboba: Guayascate, September 9, 1939, R. Maldonado B. 123 (N).

Croton glandulosus L. — ARGENTINA: Corrientes: Capital, on the banks of the Río Paraná, November, 1936, A. P. Rodrigo 902 (N), «vix cives vera».

Croton hirtus L'Hérit. — ARGENTINA: Córdoba: Unquillo, 1926, C. Bruch 5009 (N). Salta: sandy soil, alt. 800 m., Cerro Negro, dept. Antillas, February 17, 1930, S. Venturi 10341 (N), flowers white.

Croton lobatus L. — ARGENTINA: Santiago del Estero: in fields, alt. 300 m, El Charco, dept. Giménez, February 25, 1930, S. Venturi 10.202 (N), plants 0,6-0,7 m tall, flowers clear-green.

Croton parvifolius Müll. Arg. (*C. ventanicolus* Speg.). — ARGENTINA: Buenos Aires: La Gruta, Partido de Saavedra, Sierra de Curamalal, November 12, 1938, A. L. Cabrera 4753 (N-2).

Croton saltensis Griseb. — ARGENTINA: Salta: neighborhood of Metán, dept. Metán, June 2, 1933, A. L. Cabrera 3101 (N), shrub, «an reapse a *C. sarcopetalos* specific diversus? Nescio: specimina desiderantur».

Croton sarcopetalos Müll Arg. — ARGENTINA: Córdoba: Los Cocos, Sierra Chica, March, 1940, A. L. Cabrera 6400 (N); Salsipuedes, dept. Colón, March, 1938, G. Dawson 203 (N).

Salta : Río Pescado, dept. Orán, September 16, 1938, A. L. Cabrera 4581 (N). Tucumán : Sierras de Raco, alt. 1000 m., dept. Trancas, July 13, 1938, A. P. Rodrigo 2045 (N), shrub, 1 m tall.

Croton cf. sarcopetalus Müll. Arg. — ARGENTINA : Salta : path along dry stream, alt. 900 m, Sierra de la Candelaria, dept. Candelaria, September 22, 1929, S. Venturi 9570 (N), shrub about 1,5 m tall, flowers greenish-yellow.

Croton Urucurana Baill. — ARGENTINA : Corrientes : banks of the Río Paraná 6 km north of Capital, November, 1936, A. P. Rodrigo 923 (N), called « iburá caaberá » and « sangre de drago », determined by the collector as *C. hibiscifolius* Kunth (*C. succiruber* Parodi).

Croton Venturi Croiz. — ARGENTINA : Salta : in a barranca, alt. 750 m, Cerro Negro, dept. Antillas, February 19, 1930, S. Venturi 10.295 (N), flowers greenish.

Euphorbia caespitosa Lag. — ARGENTINA : Entre Ríos : barrancas of the Río Paraná, El Brete, October 11, 1937, J. Frenquelli 17 (N), « specimen summopere criticum. Ulterius inquirendum ».

Euphorbia chilensis C. Gay — ARGENTINA : Buenos Aires : Monte Hermoso, 1916, E. Carette s. n. (N), « syn. : *E. portulacoides* auct. non Linn., cf. Boissier DC. 15^a : 102. 1862, sub *E. portulacoides* (L.) Spr. ». CHILE : Nuble : Nieblas, Baños de Chillán, alt. about 2000 m., March, 1927, E. Werdermann 1356 (N).

Euphorbia Lathyris L. — CHILE : Valdivia : Panguipulli, alt. about 200 m, December, 1927, A. Hollermayer s. n. [E. Werdermann 1889] (N), « in ditione advena »; « specimen rather fragmentary ».

Euphorbia patagonica Hier. (an ab *E. chilensi* diversa ? hujus ecotypus videtur). — ARGENTINA : Buenos Aires : dunes, Bahía San Blas, Partido de Patagones, December 4, 1938, A. L. Cabrera 4773 (N), determined by the collector as *E. chilensis* C. Gay.

Euphorbia Peplus L. — ARGENTINA : Buenos Aires : Los Hornos, Partido de La Plata, October 27, 1937, A. P. Rodrigo 1059 (N), « advena cum segetibus ex Europa »; forest, La Plata, Partido de La Plata, July 2, 1938, A. L. Cabrera 4519 (N), ruderal, « advena, vegetalis, Eurasistica ».

Manihot Tweediana Müll. Arg. — ARGENTINA : Buenos Aires : shrub, Punta Lara, December 28, 1939, A. L. Cabrera 5712 (N), so determined by the collector and « so it seems to be ».

Phyllanthus lathyroides H. B. K. — ARGENTINA : Buenos Aires : close to the Río de la Plata on Santiago Island, March 29, 1931, A. L. Cabrera 1699 (N), determined thus also by I. M. Johnston, « forma calyce ♀ diminuto, ulterius inquirenda, an hujus loci ? ».

Phyllanthus montevidensis Müll. Arg. — PARAGUAY : 1896, N. Alboff s. n. (N).

Phyllanthus Sellowianus Müll. Arg. — ARGENTINA : Buenos Aires : Delta, Paraná Guazú, A. C. Scala 87 (N).

Ricinus communis L. — ARGENTINA : Corrientes : arroyo Las Garzas, Mercedes, November, 1936, A. P. Rodrigo 828 (N), called « mbaicibo », « ambay-guazú », « taitago blanco », so determined also by the collector.

Sapium haematospermum Müll. Arg. — ARGENTINA : Buenos Aires : Playa Municipal around the Berisso, January 13, 1939, A. Chicchi 13 (N), tree 4 m tall. Corrientes : Arroyo Cartagena, December, 1936, A. P. Rodrigo 970 (N), tree, called « curupi », « ad *S. linearifolium* Hook. f. notis plurimis subaccedit ».

Sapium longifolium (Müll. Arg.) Huber — ARGENTINA : Corrientes : forest north of Capital, November, 1936, A. P. Rodrigo 931 (N), tree 6-8 m. tall. called « curupicay », determined by the collector as *S. aucuparium* Jacq. Santiago del Estero : Turena, dept. Robles, December 19, 1939, R. Maldonado B. 228 (N-2).

Sapium cf. longifolium (Müll. Arg.) Huber — ARGENTINA : Salta : Quijano, dept. Rosario de Lerma, January, 1937, M. M. Job 1535 (N), 1,5-2 m tall.

Sebastiania brasiliensis Spr. — ARGENTINA : Buenos Aires : Punta Lara, Partido de La Plata, October 28, 1939, A. L. Cabrera 5400 (N), tree.

Sebastiania Klotzschiana Müll. Arg. — ARGENTINA : Corrientes : forests of Pay-ubre Grande, November, 1936, A. P. Rodrigo 714 (N), tree; same locality and date, A. P. Rodrigo 716 (N).

SAPINDACEAE

determination by Leon Croizat

Allophylus edulis (St. Hil.) Radlkf. — ARGENTINA : Buenos Aires : Delta, Arroyo Méndez Grande, October 31, 1939, A. C. Scala s. n. (N-2). Salta : El Cedral, Orán, October 25, 1913, D. Rodríguez 1051 (N), tree 10 m tall.

PASSIFLORACEAE

determinations by E. P. Killip

Passiflora caerulea L. — ARGENTINA : Entre Ríos : Arroyo Negro, Delta, November 2, 1939, A. C. Scala s. n. (N).

Passiflora foetida var. **nigelliflora** (Hook.) Mast. — ARGENTINA : Córdoba : El Durazno, alt. 900 m, January-February, 1936, A. P. Rodrigo 563 (N).

Passiflora Mooreana Hook. f. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1087 (N).

Passiflora morifolia Mast. — ARGENTINA : Tucumán : Trancas, December 12, 1913, D. Rodríguez 1179 (N), liana, flowers clear-blue.

Passiflora suberosa L. — ARGENTINA : Tucumán : Río Tipamayo, alt. 1250 m, dept. Trancas, April 17, 1926, S. Venturi 4404 (N), flowers white. Salta : Montealto, dept. Orán,

November 18, 1913, D. Rodríguez 1123 (N), liana, flowers white.

Passiflora tenuifila Killip — ARGENTINA : Salta : El Cedral, dept. Orán, October 21, 1913, D. Rodríguez 1049 (N), flowers white.

MELASTOMACEAE

determination by H. A. Gleason

Tibouchina gracilis (Bonpl.) Cogn. — ARGENTINA : Misiones : neighborhood of Candelaria near Posadas, September 15, 1896, N. Alboff s. n. (N).

COMBRETACEAE

determination by J. Monachino

Terminalia triflora (Griseb.) Lillo (*Chuncoa triflora* Griseb.) — ARGENTINA : Salta : El Cedral, dept. Orán, October 18, 1913, D. Rodríguez 1029 (N), called «lanza amarilla», tree to 20 m tall.

HALORRHAGIDACEAE

determination by E. P. Killip

Gunnera chilensis Lam. — ARGENTINA : Río Negro : Puerto Blest, Región del Lago Nahuel Huapí, February 11, 1940, A. L. Cabrera 6088 (N), so determined also by the collector.

AMMIACEAE

determinations by M. Mathias and L. Constance

Ammi majus L. — ARGENTINA : Buenos Aires : Punta Lara, December 28, 1939, A. L. Cabrera 5710 (N).

Apium graveolens L. — ARGENTINA : Corrientes : Isla Meza, Capital, November, 1936, A. P. Rodrigo 848 (N), called «neldo», flowers yellow. Tierra del Fuego 1891, N. Alboff s. n. (N), so determined also by A. P. Rodrigo.

Apium leptophyllum (Pers.) F. von Muell. — ARGENTINA : Buenos Aires : Arroyo Largo, Isla Santiago, shore of the Río de la Plata, September 17, 1932, A. L. Cabrera 2191 (N-2). Tucumán : Valle de Tafí, S. Roth s. n. (N-2), determined by M. M. Job as *A. Ammi*.

Azorella trifurcata Gaertn. — ARGENTINA : Fuentes del Río Caleufu, alt. 2100 m, 1896, S. Roth s. n. (N), determined by A. P. Rodrigo as *Mulinum* sp.

Bowlesia incana R. and P. — ARGENTINA : Buenos Aires : road to Brandzen, Partido de La Plata, October 12, 1937, A. P. Rodrigo 1058 (N). Corrientes : road to La Feria, Mercedes, November, 1936, A. P. Rodrigo 669 (N), determined by the collector as *B. tenera* Spreng.

Centella asiatica (L.) Urban sensu lati (*C. hirtella* Nannf. ?) — ARGENTINA : Santa Fe : Río Paraná, old canal from Santa Fe to Colastiné, January-February, 1936, M. M. Job 693 (N), so determined also by the collector; road from Reconquista to Romany, January-February, 1936, M. M. Job 995 (N), so determined also by the collector.

Centella triflora (R. and P.) Nannf. — CHILE : Valdivia : Pangipulli, alt. about 180 m, December, 1927, A. Hollermayer s. n. [E. Werdermann 1882] (N).

Conium maculatum L. — ARGENTINA : Buenos Aires : woods, La Plata, July 19, 1938, A. L. Cabrera 4528 (N-2), determined by the collector as *Ammi* sp.; forest of La Plata, September 18, 1939, A. L. Cabrera 5253 (N), so determined also by the collector; Gonnet, October 4, 1939, G. Dawson 725 (N).

Eryngium divaricatum H. and A. — ARGENTINA : Buenos Aires : Delta, Paraná Miní, January, 1914, A. C. Scala 327 (N). Corrientes : banks of the Río Corrientes, December, 1936, A. P. Rodrigo 1011 (N), flowers white.

Eryngium ebracteatum Lam. — ARGENTINA : Buenos Aires : km 77 on the road from Buenos Aires to the shore of the Río

de la Plata, April 6, 1939, G. Dawson 675 (N), so determined also by the collector. Chaco : Enrique Urien, Campo Bonazola, dept. Tapenaga, November, 1940, A. P. Rodrigo 2450 (N-2). Río Negro : valley of the Río Negro, A. C. Scala 83 (N), so determined also by the collector.

Eryngium floribundum C. and S. — ARGENTINA : Buenos Aires : Ceibales, Isla Santiago, March 10, 1940, A. L. Cabrera 6331 (N).

Eryngium Kurtzi Hicken — ARGENTINA : Buenos Aires : General Villegas, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5673 (N).

Eryngium nudicaule Lam. — ARGENTINA : Córdoba : Unquillo, March, 1926, C. Bruch s. n. (N); summit of Mount El Zapatato, alt. 1000 m, January-February, 1936, A. P. Rodrigo 315 (N), flowers white; Unquillo, 1926, C. Bruch 2732 (N).

Eryngium pandanifolium C. and S. — ARGENTINA : Buenos Aires : Playa Municipal around the Berisso, January 13, 1939, A. Chicchi 10 (N). Santa Fe : Río Paraná, old canal from Santa Fe to Colastiné, January-February, 1936, M. M. Job 741 (N).

Eryngium paniculatum Cav. — ARGENTINA : Buenos Aires : mountains and lakes of Puán, November 10, 1928, A. C. Scala s. n. (N). Río Negro : shores of the lake, Bariloche, region of Lago Nahuel Huapí, February 3, 1940, A. L. Cabrera 5825 (N). San Luis : Santo Domingo, January, 1933, M. A. Vignati 352 (N).

Eryngium serra C. and S. — ARGENTINA : Buenos Aires : Punta Lara, January 4, 1940, G. Dawson 945 (N); Juancho, January 15, 1933, A. L. Cabrera 2727 (N).

Hydrocotyle bonariensis Lam. — ARGENTINA : Buenos Aires : dunes near the sea, Juancho, January 10, 1933, A. L. Cabrera 2675 (N), so determined also by the collector; La Plata, C. Spegazzini 1815 (N), so determined also by the collector; Isla Santiago, March 29, 1931, A. L. Cabrera

1702 (N), so determined also by the collector. Corrientes : arroyo around Itapucú, November, 1936, A. P. Rodrigo 796 (N), called « caá-hay », determined by the collector as *H. umbellata* L. var. *bonariensis* (Lam.) Spreng. »

Hydrocotyle chamaemorus Cham. — CHILE : Valdivia : Pangipulli, alt. about 200 m, November, 1927, A. Hollermayer s. n. [E. Werdermann 1863] (N).

Hydrocotyle cryptocarpa Speg. — ARGENTINA : Buenos Aires : Cambaceres, vicinity of La Plata, October 12, 1932, A. L. Cabrera 2289 (N), so determined also by the collector.

Hydrocotyle leucocephala C. and S. — ARGENTINA : Isla Martín García, wet woods, October, 1934, A. L. Cabrera 2914 (N), so determined also by the collector.

Hydrocotyle modesta C. and S. — ARGENTINA : Jujuy : San Pedro, alt. 600 m, Río San Francisco, October 15, 1929, S. Venturi 9642 (N), river-bottom, flowers white.

Hydrocotyle ranunculoides L. f. — ARGENTINA : Jujuy : San Pedro, alt. 600 m, Río San Francisco, October 13, 1929, S. Venturi 9640 (N), flowers yellowish. CHILE : Valdivia : Valdivia, alt. about 10 m, March, 1929, A. Hollermayer s. n. [E. Werdermann 1909] (N).

Lilaeopsis carolinensis C. and R. — ARGENTINA : Jujuy : river-bottom, San Pedro, Río San Francisco, alt. 600 m, October 14, 1929, S. Venturi 9671 (N), cited by Pérez-Moreau in *Lilloa* 1 : 298. 1937.

Mulinum Morenonis (Kuntze) Speg. — ARGENTINA : Río Negro : near the lake, Bariloche, región del Lago Nahuel Huapí, January 5, 1935, A. L. Cabrera and M. M. Job 39 (N).

Mulinum spinosum Pers. — ARGENTINA : Neuquén : eastern slopes of the valley Chacaicó, February 6, 1939, A. Chicchi 72 (N), so determined also by the collector. Río Negro : among rocks, alt. 1400 m, Cerro Otto, región del Lago Nahuel Huapí, February 3, 1940, A. L. Cabrera 5854 (N).

Pastinaca sativa L. — ARGENTINA : Córdoba : Salsipuedes, dept. Colón, February 17, 1939, L. A. Dawson 76 (N), so determined also by the collector. Mendoza : 1916, E. Cartette s. n. (N). Jujuy : banks of the Río Volcán, dept. Tumbaya, September 14, 1938, A. L. Cabrera 4565 (N).

Torilis nodosa (L.) Gaertn. — ARGENTINA : Buenos Aires : Estancia Bell, October 24, 1939, G. Dawson 794 (N).

LOGANIACEAE

determination by L. B. Smith

Buddleia globosa Hope — ARGENTINA : Río Negro : shrub, called « pañil », A. L. Cabrera 5989 (N).

APOCYNACEAE

Aspidosperma by J. Monachino ; remainder by R. E. Woodson, Jr.

Aspidosperma Quebracho-blanco Schlecht. — ARGENTINA : Santiago del Estero : Simbol, December 13, 1939, M. Birabén 21 (N).

Mandevilla Pentlandiana (A. DC.) Woods. — ARGENTINA : Tucumán : Clavillo de Aconquija, alt. 2800 m, January, 1937, M. M. Job 1416 (N), flowers greenish-white.

CUSCUTACEAE

determinations by T. G. Yuncker

Cuscuta campestris Yuncker — ARGENTINA : Córdoba : Unquillo, 1926, C. Bruch s. n. (N), the flowers are smaller than usual, but otherwise this specimen agrees well with *C. campestris*.

Cuscuta grandiflora H. B. K. — ARGENTINA : Tucumán : Valle de Tafí, 1908, C. Bruch s. n. (N-2).

Cuscuta indecora Choisy var. *longisepala* Yuncker — ARGENTINA : Córdoba : Cosquín, alt. 730 m, January-February, 1936, A. P. Rodrigo 436 (N), flowers white, parasitic on alfal-

fa and *Malvastrum coromandelianum*. Mendoza : E. Carette s. n. (N). San Luis : Alto Pencoso, February, 1914, C. Bruch and E. Carette s. n. (N).

Cuscuta suaveolens Seringe var. **papillata** Yuncker — CHILE : Coquimbo : La Serena, alt. about 30 m, November, 1925, E. Werdermann 880 (N).

HYDROPHYLLACEAE

determinations by L. Constance

Nama undulatum H. B. K. — ARGENTINA : Santiago del Estero : in woods on sandy rolling ground, Beltrán, October 30, 1939, R. Maldonado B. 220 (N), plants 30 cm tall, flowers purple.

Phacelia artemisioides Griseb. — ARGENTINA : Santiago del Estero : Turena, dept. Robles, October 5, 1939, flowers whitish, in lawn, R. Maldonado B. 202 (N).

Phacelia Cummingii (Benth.) Gray — CHILE : Atacama : Copiapó, alt. 3800 m, January, 1926, E. Werdermann 939 (N).

Phacelia magellanica (Lam.) Coville (subsp. *eu-magellanica* Brand). — ARGENTINA : Río Negro : road to Tronador, región del Lago Nahuel Huapí, February, 1940, C. Castagnet 76 (N). Tucumán : Valle de Tafí, 1908, C. Bruch s. n. (N); Sierra del Cajón, dept. Tafí, alt. 3800 m, May 3, 1926, S. Venturi 4423 (N), flowers violet.

Phacelia pinnatifida Griseb. — ARGENTINA : San Luis : Yulto, March, 1939, M. A. Vignati 495 (N).

VERBENACEAE

Aegiphila Hassleri Briq., *Bull. Herb. Boiss.*, sér. 2, 4: 1166. 1904.

ARGENTINA : Corrientes : Bonpland 755 (P). Misiones : Ekman 1227 (S, Z-photo), 1228 (N-photo, S, Z-photo); Niederlein 1705

(B, Z-photo), 1725 (B, Z-photo), 1732 (B, Z-photo), 2248 (B-2 Z-photo); Santa Ana, September 9, 1912, D. Rodríguez 566 (N), plants 3 m tall, flowers white; same locality and date, D. Rodríguez s. n. [Herb. Mus. Argent. Cienc. Nat. 23.983] (N). PARAGUAY : Anisits 122 (S, Z-photo); Balansa 2085 (B-2, Bm, Cb-2, K, Lu, P-2, S, Z-photo); Fiebrig 260 [Herb. Monac. 4033] (A, B-2, B-photo, Bm, Cb, D-photo, Ed-3, F-photo, G, G-photo K-2, Le, Mu, N-photo, V, W-photo, Z-photo), 530 (B-2, Cb, Ed, F, K, N-photo, Z-photo), 5923 (B, W, Z-2 photos); Hassler 1674 (K-cotype, P-cotype, X-cotype, Z-photo of cotype), 3193 (B-cotype, Bm-cotype, Cb-2 cotypes, F-cotype, K-cotype, N-fragment and photo of cotype, P-cotype, V-cotype, X-cotype, Z-2 photos of cotypes), 4271 (Bm-cotype, Z-photo of cotype), 6780 (A-photo of cotype, B-photo of cotype, Bm-cotype, Cb-cotype, D-photo of cotype, F-photo of cotype, G-cotype, K-cotype, N-2 photos of cotypes, P-cotype, V-cotype, W-photo of cotype, X-3 cotypes, Z-photo of cotype), 8632 (Bm, Cb-2, K, P); Villarica, December, 1874, shrub 2-3 m tall, Balansa 2085a (Ob-2, K, N, P-2). URUGUAY : Arechavaleta B (B), s. n. (Cp-2 photos); Berro 1019 (X), 5087 (X); Chebataroff's. n. [Herb. Herter 1885a and 99.551] (K); Felippone 5082 (L, Z-photo); mouth of Río Negro, February, 1903, fruiting in January, Arechavaleta 43 (Cb-3, F, N).

Aloysia ligustrina (Lag.) Small

ARGENTINA : Baradero, barrancas, November 19, 1937, A. Burkart 8486 (N). Mendoza : 1916, E. Carette 3046 (N). Santiago del Estero : Turena, dept. Robles, October 10, 1939, sandy soil, flowers white, R. Maldonado B. 206 (N-2). BOLIVIA : Tarija : alt. 6500 feet, April, Balls 6092 (W), flowers white, small, in narrow pointed spikes to 2 1/2 inches long, sweetscented, slender branching shrubs to 10 feet tall and 6 feet through, growing in broken rather waste ground in clayey soil among scattered shrubs, cacti, etc. PARAGUAY : Archer 4678 (N). The Frenguelli 19 cited by me in *Lilloa* 5 : 376 (1940) as *A. ligustrina* is actually *A. ligustrina* var. *paraguariensis* (Briq.) Moldenke.

Aloysia Looseri Moldenke

Lippia ilan ilan Baines, *Cat. Gen. Pl. Cult. Jard. Prado* 2 : 14,
without Latin diagnosis. 1933.

CHILE: Santiago: G. Looser 4008 (Lo-isotype), 4029 (Lo),
called «ilang-ilang», flowers in April, white, aromatic; Santiago,
September 7, 1940, G. Looser 4054 (N-3), shrub 4 m tall, flowers
white, aromatic, frequently cultivated in gardens of Central
Chile under the name «ilang-ilang». Valparaíso: Cultivated at
Limache, February 29, 1927, Garavente 103 [Herb. Looser
4028] (N).

Aloysia Reichii Moldenke

CHILE: Coquimbo: Río Turbio, dept. Elqui, October 19, 1940,
R. Wagenknecht s. n. [G. Looser 4238] (N), the collector states:
«crece en antiguas playas secas de aluvión, greda o conglomerados,
también en las laderas o rodados. Ahora en plena flor.
Su olor raro a ajeno llama la atención. No la he visto en ningún
otro valle del Depto. de Elqui. Flor blanca, hoja verde-amari-
llenta, estatura 0,50 a 0,70 m. Se observa desde 1000 a 2500 m».

Aloysia salviaefolia (Hook. & Arn.) Moldenke

CHILE: Coquimbo: singly 10 km. south of Vicuña, 800-900 m.
alt., dept. Elqui, October 13, 1940, G. Looser 4220 (N-3),
«arbusto de 1,50 a 2 m., inflorescencias levantadas; aromático
pero distinto del ilán-ilán (*Aloysia looseri*) sino más bien pare-
cido ad cedrón (*Aloysia triphylla*); nombre vulgar en la región
de Elqui: salvia.»; Hacienda La Campana, quebrada La Des-
pensa, alt. 1000 m., between Diagnitas and Rivadavia, dept.
Elqui, October 14, 1940, G. Looser 4221 (N).

Aloysia scorodonoides (H. B. K.) Cham.

BOLIVIA: La Paz: vicinity of La Paz, alt. 10,000 feet, 1889,
M. Bang 5 (C).

Aloysia triphylla (L'Her.) Britton

CHILE: Valparaíso: cultivated at Limache, February 2, 1926,
G. Looser 4007 (N), called «cedrón». URUGUAY: Concepción,
November, 1884, P. G. Lorentz s. n. (Oa), used as a substitute
for tea, determined by the collector as «*A. citriodora* Kunth».

Amazonia hirta Benth., *Ann. Nat. Hist.* 2 : 451. 1839. — PARA-
GUAY: E. Hassler 10037 (K), 10051 (B, Bm, P, V), 10051a
(B, Bm, K).

Bouchea boliviiana (Kuntze) Moldenke, *Phytologia* 1 : 18. 1933.

Valerianodes boliviiana Kuntze, *Rev. Gen. Pl.* 3 : 254. 1898.

Bouchea mollis Standl. ex Moldenke, *Prelim. Alph. List Invalid Na-
mes* 8, in *syn.* 1940.

BOLIVIA: El Beni: Huachi, head of Río Beni, alt. 3000 feet,
August, 1921, M. Cárdenas 467 (N-2); Rurrenabaque, alt.
1000 feet, November 23, 1921, M. Cárdenas 1796 (N, N-photo,
Z-photo). Santa Cruz: quebrada of Charagua, alt. 900 m., on
sandy soil, August, 1934, M. Cárdenas 2770 (F-2, N), herb 60
cm. tall, flowers violet; in sand at mouth of Perai at Santa
Cruz, alt. about 450 m., January, 1911, T. Herzog 1504 (Cb,
Le, N), flowers light-violet; Santa Cruz, alt. 340 m., June, 1892,
O. Kuntze s. n. (B-photo of type, K-photo of type, N-type, N-
fragment and photo of type, S-photo of type, Z-photo of type).
Tarija: Pflanz 2037 (B, N, W).

Bouchea fluminensis (Vell.) Moldenke, *Alph. List Comm. Vern.
Names* 13 and 32, nom. nud. 1939; *Geogr. Distrib.* 22, 23,
25, 28 and 29, nom. nud. 1939; *Prelim. Alph. List Invalid
Names* 8, 42, 46 and 48, hyponym. 1940; *Carnegie Inst.
Wash. Publ.* 522 : 176. 1940.

ARGENTINA: Misiones: Niederlein 1853 (B, N). Salta: Río
Piedras, dept. Orán, December, D. Rodríguez s. n. [Herb.
Mus. Argent. Cienc. Nat. 23987] (N). BOLIVIA: Troll 636 (B).
Cochabamba: in vicinity of Cochabamba, 1891, M. Bang 2001
(C-2). El Beni: junction of Río Beni and Río Madre de Dios,
August, 1886, H. H. Rusby 915 (B, Bm, C, D, E, Ed, F, G, K,

Mi, V, W-2, X). La Paz : San Bartolomé, near Calisaya, alt. 750-900 m., basin of Río Bopi, prov. S. Yungas, July 1-22, 1939, B. A. Krukoff 10461 (N). URUGUAY : Otto s. n. (B).

Bouchea Rusbyi Moldenke, *Torreya* 34: 8. 1934.

Bouchea incisa Rusby, *Bull. N. Y. Bot. Gard.* 4 : 432. 1907 [not *B. incisa* H. H. W. Pearson, *Trans. S. Afr. Phil. Soc.* 15 : 180. 1904].

BOLIVIA : M. Bang 2226 (B-isotype and photo of type, Bm-isotype, C-type, Cb-isotype, Cp-isotype, E-isotype, F-isotype, G-isotype, K-isotype and photo of type, Lu-isotype, Mi-isotype, Mu-isotype, N-fragment and photo of type and of isotype, Ol-isotype, R-isotype, S-photo of type, Us-isotype, V-isotype, Vu-isotype, W-2 isotypes, Z-photo of type and of isotype). El Beni : O. Buchtien 8183 (La, W). Santa Cruz : J. Steinbach 5587 (G, N).

Castelia cuneato-ovata Cav., *Anal. Cienc. Nat. Madrid* 3 : 134-135. 1801; *Ic. et Dec. Pl.* 6 : 60, pl. 583. 1801.

Priva laevis A. L. Juss., *Ann. Mus. Paris* 7 : 70. 1806; Pers., *Syn. Pl.* 2 : 139. 1807; Walp., *Repert.* 4 : 36. 1845; *Svensk Bot. Tidskr.* 32 : 231. 1938.

Verbena tuberosa R. Grah., *Edinb. N. Phil. Journ.* 29 : 174. 1840. *Priva orchoides* Walp., *Repert.* 4 : 36. 1845.

Bouchea copiapensis C. Gay, *Hist. Nat. Chile* 5 : 26, *Atlas* 1 : pl. 55. 1849.

Pitraea chilensis Turcz., *Bull. Soc. Nat. Mosc.* 35^a : 329. 1862. *Phelloderma ovata* Miers, *Trans. Linn. Soc. Lond.* 27 : 101-102. 1871.

Priva cuneato-ovata (Cav.) Rusby, *Bull. Torrey Bot. Club* 27 : 80. 1900; Kobuski, *Ann. Mo. Bot. Gard.* 13 : 16-17, pl. 4, f. 12, pl. 5, f. 21. 1926.

Priva cuneato-ovatis (Cav.) Rusby ex Grenz., *Ann. Mo. Bot. Gard.* 13 : 74. 1926.

ARGENTINA : Catamarca : Belén, November 25, 1929, A. L. Cabrera 1064 (N); Andalgalá, September 2, 1915, P. Jörgensen s. n. [Herb. Mus. Argent. Cienc. Nat. 23989] (N); valley of Santa María, December, 1915, Schreiter s. n. (N); vicinity of the city, dept. Capital, May 6, 1910, A. Castellanos s. n. [Herb. Inst. Lillo. 14242] (N); Pomancillo, Río del Valle, December, 1910, Castillon 1942 [Herb. Inst. Lillo 14243] (N). Chaco : Nueva Pompeya, April, 1918, P. Jörgensen 2480 [Herb. Mus.

Argent. Cienc. Nat. 23977] (E, G, N-2, W). Córdoba : Luyaba, dept. San Javier, January 2, 1927, A. Castellanos s. n. [Herb. Mus. Argent. Cienc. Nat. 11673] (N); Córdoba, February 18, 1881, C. Galander s. n. (B-2, N, W-photo); Las Tapias, dept. San Javier, February 16, 1939, A. Castellanos s. n. [Herb. Mus. Argent. Cienc. Nat. 31204] (N); between Cosquín and Santa María, alt. 650 m., January-February, 1936, A. P. Rodrigo 389 (N-2), flowers pale-red; Córdoba, November, 1892, O. Kuntze s. n. (F, N); Ascochinga, November, 1936, N. S. Troncoso 317 (N), flowers white, fragrant; Córdoba, December, 1891, O. Kuntze s. n. (N); Córdoba, P. G. Lorentz 62 (B-2, Cb, L, V, X), 140 (B), 146 (B), 561 (B, N-photo, Z-photo); Córdoba, February 18, 1881, C. Galander s. n. (B, N-photo, Z-photo). Jujuy : Tilcara, alt. 2461 m., April 8, 1909, M. Lillo s. n. [Herb. Inst. Lillo 9651] (N); Tumbaya, dept. Volcán, alt. 2200 m., February 17, 1927, S. Venturi 4865 (F, G, N, W); alt. 8000 feet, February, E. K. Balls 5953 (W), «flowers pale-mauve to almost white, 3/8 inch in diameter, in loose terminal heads to 2 inches across, very sweet-scented; stems rather stiffly upright, branching sometimes from the base, to 12 inches tall; deep in ground at end of a long string of fibrous roots is a round tuber like a small potato; the plant grows as a weed in gardens and cultivated ground, usually in rather dry though shaded situations, in moist ground it becomes leafy.» La Rioja : Nonogasta, dept. Chilecito, alt. 900 m., December 27, 1928, S. Venturi 7848 (G, N-photo, W-2, Z-photo), flowers red. Mendoza : Lavalle, March 15, 1940, G. Dawson 954 (N), so determined also by the collector; La Isla, San Luis, January, 1919, A. Ruiz s. n. [Herb. Mus. Argent. Cienc. Nat. 25/2183] (N); Maipú, General Gutiérrez, October, 1916, A. Ruiz s. n. [Herb. Mus. Argent. Cienc. Nat. 25/2215] (N); Travesía de Mendoza, J. Miers s. n. (Bm, N); St. Rosa, 1904-1905, A. C. Jensen-Haarup s. n. (Cp, Le, N-photo, Us, Z-photo); Mendoza, Gillies s. n. (Ed, K, N-photo, Z-photo). Salta : Cafayate, December 28, 1914, D. Rodríguez s. n. [Herb. Mus. Argent. Cienc. Nat. 23978] (N); Tala-Pampa, April 16, 1908, M. Lillo s. n. [Herb. Inst. Lillo 8082] (N); Cafayate, alt. 1800 m., January 8, 1914, D. Rodríguez 1253 [Herb. Inst. Lillo 16667] (N). San Juan : Albardón, March 6, 1926, A. Castella-

nos s. n. [Herb. Mus. Argent. Cienc. Nat. 26/598] (N); interior of San Juan and Jachal, September, 1872, Jameson s. n. (K, N-photo, Z-photo). San Luis : Villa Mercedes, January 1, 1926, A. Castellanos s. n. [Herb. Mus. Argent. Cienc. Nat. 25/2923] (N). Santa Fe : between Rosario and Casilda, March 27, 1936, Ragonese s. n. [Herb. Mus. Argent. Cienc. Nat. 19771] (N). Santiago del Estero : Vilmer, May 12, 1940, R. Maldonado B. 326 (N); La Banda, April, 1907, M. Lillo s. n. [Herb. Inst. Lillo 6133] (N); La Banda, March 27, 1907, Monetti 428 (N); Turena, dept. Robles, October 5, 1939, R. Maldonado B. 177 (N-2), flowers lilac-red, in lawns and cultivated ground; Río Urueña, dept. Carlos Pellegrini, alt. 500 m., December 24, 1927, S. Venturi 5759 (N, W). Tucumán : Vipos, dept. Trancas, March 25, 1887, M. Lillo s. n. [Herb. Inst. Lillo 323] (N); La Florida, dept. Leales, June 24, 1913, Monetti 811 [Herb. Inst. Lillo 15280] (N); Cevil-Pozo, alt. 450 m., dept. Cruz Alta, December 4, 1923, S. Venturi 2179 (N); Chañar-Pozo, dept. Leales, October, 1919, S. Venturi 590 (N); Río Salí, alt. 450 m., dept. Capital, April, 1920, S. Venturi 790 (N, W), 590 (W); La Cocha, dept. Río Chico, alt. 437 m., March, 1919, Bailetti 308 (N); dept. Leales, April, 1912, Dinelli s. n. [Herb. Inst. Lillo 11870] (N). CHILE : Collector undesignated s. n. (B, N-photo, Z-photo). Atacama : Vallenar, weed in cultivated field near railroad station, alt. 400 m., December 31, 1925, I. M. Johnston 5847 (G, N-photo, Z-photo); Vallenar, alt. about 300 m., November, 1923, E. Werdemann 137 (B, Bm, Ca, Cb, D, E, Ed, G, K, N-photo, Ut, Z-photo); in the town of Atacama, R. A. Philippi 787 (B, N-photo, W-photo, Z-photo); Copiapó, Meyen s. n. (B-3, K, N-photo, Z-photo). Coquimbo : Bridges 1354 (Bm, Cb, K, N-photo, Z-photo), type collection of *Pitraea chilensis*; Bridges 1355 (G). Tacna : Tacna, March, 1885, H. H. Rusby 2531 (C, F); Tacna-Arica region, April 20, 1922, Mrs. R. S. Shepard 269 (G, N, N-photo, P, W, Z-photo), herb, 12-20 inches tall, corolla purple, found in irrigation ditches and moist places; Arica, May 20, 1917, C. and I. Skottsberg 1489 (Go, N, S).

Citharexylum Jörgensenii (Lillo) Moldenke, *Geogr. Distrib.* 29, nom. nud. 1939; *Revist. Sudam. Bot.* 6 : 178. 1940.

Duranta Jörgensenii Lillo, *Act. Prim. Reun. Nac. Soc. Argent. Cienc. Nat.* 1916, 224. 1919.

Citharexylum xenicum Moldenke, in herb.

ARGENTINA : Jujuy : Laguna del Feson, Esquina Grande, dept. Chichigasta, Schuel 197 (N-fragment and photo, V, Z-photo), type of *Citharexylum xenicum*, tree 10 m. tall. Tucumán : Estancia Las Pavas, Puesto El Saladillo, dept. Chichigasta, December, 1916, P. Jörgensen 35 (N).

Citharexylum montevidense (Spreng.) Moldenke, *Phytologia* 1 : 17. 1932; Herter, *Beih. Bot. Centralbl.* 59 : 275. 1939.

Ehretia montevidensis Spreng., *Syst.* 1 : 647. 1825.

Citharexylum barbinerve Cham., *Linnaca* 7 : 116. 1832; Walp., *Repert.* 4 : 72-73. 1845; A. DC., *Prodr.* 11 : 610. 1847; Schau. in Mart., *Fl. Bras.* 9 : 267. 1851; Gibert, *Enum. Pl. Monter.* 45. 1873; Briq., *Ann. Conserv. et Jard. Bot. Genève* 7-8 : 318. 1904; Glaz., *Bull. Soc. Bot. France Méém.* 3 : 545. 1911; Parodi, *Rev. Argent. Agron.* 1 : 200. 1934; *Trab. Inst. Bot. y Farm.* 54 : 78 and 112. 1935; Molino, *Trab. Inst. Bot. y Farm.* 53 : 57. 1935; *Darwiniana* 3 : 56. 1937; Latzina, *Lilloa* 1 : 188. 1937; Herter, *Revist. Sudam. Bot.* 4 : 185. 1937; *Darwiniana* 4 : 55. 1940.

ARGENTINA : Buenos Aires : Delta, Paraná Miní, November 23, 1932, A. L. Cabrera 2502 (F, N-2, S, W); cultivated in Jard. Bot., Buenos Aires, H. M. Curran 46 (Y); Jard. Bot. Buenos Aires s. n. [Herb. Argentino] (Ca); Río Chana, Delta del Paraná, A. C. Scala 887 (N); Paraná Miní, Delta del Paraná, November 21, 1931, A. L. Cabrera 1916 (N), tree; Paraná Miní, Delta del Paraná, January, 1914, A. C. Scala 805 (N); Paraná de las Palmas y Cruz Colorado, November 27, 1931, A. L. Cabrera 1988 (N), tree; cultivated at Villa Ortúzar, September 26, 1936, originally from Delta del Paraná, N. S. Troncoso 352 (N); Villa Ortúzar, November 26, 1936, L. R. Parodi 12249 (N), tree to 4 m. tall, fruit orange; Villa Ortúzar, November 26, 1936, cult. now in Hort. Bot. Fac. B. Aires, L. R. Parodi 12248 (N-2), tree to 4 m. tall, fruit orange; arroyo, Tuyuparé, Delta del Paraná, January, 1914, A. C. Scala s. n. [Herb. Inst. Biol. S. Paulo 37394] (N); Buenos Aires, W. A. Archer 4580

(W), « tree, producing very hard lumber; flowers cream, perfumed; fruit red when ripe; cultivated in parks, native »; Río Chana, Delta del Paraná, A. C. Scala s. n. (N, S); Paraná Miní, Delta del Paraná, January, 1914, A. C. Scala s. n. (N); Buenos Aires, Commerson s. n. [Herb. Jussieu 5103] (P); Punta Lara, April 5, 1940, A. L. Cabrera 6359 (N-2), tree 12 m. tall, fruit red. Corrientes: Niederlein 1571 (B); Santo Tomé, February 7, 1916, S. Venturi 433 (N). Entre Ríos: Arroyo Brazo Largo, Delta Paraná, March 26, 1937, A. Burkart 8315 (N). Martín García Island: February 19, 1933, Pérez Moreau s. n. [Herb. Mus. Argent. Cienc. Nat. 7189] (N). Misiones: Niederlein 509 (B); Santa Ana, Loreto, Niederlein s. n. (B); Salto Iguazú, April, 1913, D. Rodríguez s. n. [Herb. Inst. Miguel Lillo 12520] (N); Santa Ana, February 15, 1913, D. Rodríguez s. n. [Herb. Inst. Miguel Lillo 12563] (N); same locality, December 9, 1909, D. Rodríguez 22 [Herb. Inst. Miguel Lillo 10005] (N); same locality, September 11, 1912, D. Rodríguez 22 [Herb. Inst. Miguel Lillo 10005] (N); Itaimbé, December 18, 1934, D. Rodríguez 440 [Herb. Mus. Argent. Cienc. Nat. 16283] (N); Santa Ana, September 11, 1912, D. Rodríguez s. n. [Herb. Mus. Argent. Cienc. Nat. 23946] (N). Tucumán: Chacras al Oeste, alt. 450 m., November, 1925, S. Venturi 4077 (A, N, W), tree 3.5 m. tall. PARAGUAY: Anisits 1872 (S); Balansa 2095 (Cb, K, P-2), 3127 (P, X). URUGUAY: Arechavaleta 39 (Cb-2), 42 (Cb-3), 280 (Cb-3); Berro 801 (X); Courbon 220 (P-2); Gibert 33 (K), 40 (K); Naudin s. n. (A-2); Sellow 3185 (B-type and 2 isotypes, K-photo of type, N-photo of type, P-isotype, S-photo of type, Z-photo of type); Stuckert 8282 (Cb), s. n. (Cp-2 photos); 1892, Spegazzini s. n. (Br); January 1, 1887, Fruchard s. n. (P-3); October, 1876, Fruchard s. n. (P); Missiones of the Uruguay, Tweedie s. n. (L); Chiflero, Artigas, alt. 100 m., July 24, 1934, W. G. Herter 94760 (N), leaves dentate.

Citharexylum myrianthum Cham., *Linnaea* 7: 117-119. 1832; Walp., *Repert.* 4: 77. 1845; A. DC., *Prodr.* 11: 612. 1847; Glaz., *Bull. Soc. Bot. France Mém.* 3: 546. 1911; *Trab. Inst. Bot. y Farm.* 54: 78. 1935; Latzina, *Lilloa* 1: 188. 1937.

Citharexylum scabrum Willd. ex Cham., *Linnaea* 7: 117, in *syn.* 1832 [not *C. scabrum* Sessé and Moc. ex D. Don, *Edinb. N. Phil. Journ.* 1831: 238. 1831].

Citharexylum myrianthum var. *acuminatum* Briq., *Ann. Conserv. et Jard. Bot. Genève* 7-8: 317. 1904.

Citharexylum macranthum Hayek in Engl., *Bot. Jahrb.* 42: 170. 1909.

Citharexylum myrianthum var. *macranthum* (Hayek) Hassler ex Moldenke, *Prelim. Alph. List Invalid Names* 17, in *syn.* 1940.

Citharexylum Plumieri Otto ex Moldenke, *Prelim. Alph. List Invalid Names* 17, in *syn.* 1940.

ARGENTINA: Misiones: E. L. Ekman 1440 (S); vicinity of Posadas, alt. 50-60 m., December 5-7, 1913, H. M. Curran 30 (N, W); margins of Río Paraná, Posadas, October 8, 1909, D. Rodríguez 145 [Herb. Inst. Miguel Lillo 10000] (N). PARAGUAY: Anisits 6 (S); Balansa 2090a (Br, Cb-2, K, L, P, S, X), type collection of *C. myrianthum* var. *acuminatum*; Endlich 207 (B); Fiebrig 596 [Macbride photos 17596] (B-2, Cb, Ed, F, F-photo, K, K-photo, N-fragment and photo, S-photo, Z-photo), type collection of *Citharexylon macranthum*; Fiebrig 6323 [Herb. Inst. Biol. S. Paulo 33506] (B, Bm, Cb-2, G, K, Sp, W); Hassler 1263a (Bm), 1363 (Bm, K, N, P, X-2), 1363a (K, P, X), 3590 (A, Bm, Cb-2, F, K, P, V, X), 5457 (A, B, Bm, Cb, K-2, P-2, V, X), 12366 (A-2, B, Bm, Cb, Cp, E, Ed, F, G, K, Le, W), 12942 (Bm, Ed); P. Jörgensen 3688 (Cp, D-2, E-2, F, N, P, S, W); Morong 830 (Bm, C, D, E, Ed, G, K, Mi, W-2, X).

Citharexylum rigidum (Briq.) Moldenke, *Phytologia* 1: 17. 1933.

Citharexylum myrianthum var. *rigidum* Briq., *Ann. Conserv. et Jard. Bot. Genève* 7-8: 317-318. 1904.

Citharexylum rigidum Briq., *Ann. Conserv. et Jard. Bot. Genève* 7-8: 317, in *syn.* 1904; *Gray Herb. Card Index*.

PARAGUAY: Balansa 2090 (B-2 isotypes, B-photo of isotype, Br-isotype, Cb-isotype, K-isotype and photo of isotype, L-isotype, Lu-isotype, N-2 fragments of istypes and photo of isotype, P-2 isotypes, S-isotype and photo of isotype, X-2 isotypes, Z-photo of isotype).

Clerodendrum Bungei Steud., *Nomencl. Bot.*, ed. 2, 1: 382. 1840; Standl., *Torreya* 15: 9. 1915; G. Beauverd, *Bull. Soc. Bot.*

Genèr., sér. 2, 24 : 253. 1933 ; A. Becherer, *Ber. Schweitz. Bot. Gesell.* 43' 1 : 67. 1934.

Clerodendron foetidum Bunge, *Mém. Sav. Etr. Acad. Sci. St. Pétersb.* 2 : 126. 1833 [not *C. foetidum* D. Don, 1825]; *Darwiniana* 3 : 57. 1937.

Pavetta Esquirolii Léveillé in Fedde, *Repert.* 13 : 178. 1914.

Clerodendron yatschuense H. Winkler in Fedde, *Repert. Beih.* 12 : 474. 1922.

ARGENTINA : Tucumán : cultivated at Villa Luján, alt. 460 m., dept. Capital, December, 1918, S. Venturi 14 (N).

Clerodendrum Ekmani Moldenke, *Geogr. Distrib.* 29, nom. nud. 1939; *Prelim. Alph. List Invalid Names* 32, hyponym. 1940; *Phytologia* 1 : 445-446. 1940.

Megalosiphon splendens Ekman ex Moldenke, *Prelim. Alph. List Invalid Names* 32, in *syn.* 1940.

ARGENTINA : Misiones : San Ignacio, October 21, 1913, H. Quiroga s. n. (Cb-type, N-fragment and photo of type, Z-photo of type). PARAGUAY : Anisits 2816 (S).

Clerodendrum fragrans var. **pleniflorum** Schau. in A. DC., *Prod.* 11 : 666. 1847.

Volkmannia japonica Jacq., *Hort. Schoenbr.* 3 : 48, pl. 338. 1798.

Agricolaea fragrans Schrank, *Denkschr. Akad. Muensch.* 1 : 98. 1808.

Clerodendrum fragrans Willd., *Enum. Hort. Bot. Berol.* 2 : 659. 1809.

Ovieda fragrans (Willd.) A. S. Hitchc., *Mem. Torrey Bot. Club* 12 : 63. 1902.

Viburnum deltoidium M. E. Jones, *Extracts Contrib. West. Bot.* 18 : 68. 1933.

Clerodendron fragrans var. *flore-pleno* Hort. ex Penna, *Rodriguesia* 2 : 315. 1936.

Clerodendrum fragrans var. *plenum* Hort., in herb.

Volkameria peruviana Korth., in herb.

ARGENTINA : Córdoba : Stuckert 12945 (Cb), cultivated. Tucumán : González s. n. [Stuckert 9354] (Cb); Villa Luján, dept. Capital, alt. 460 m., March, 1919, S. Venturi 286 [Herb. Mus. Nac. Hist. Nat. Buenos Aires 9096] (F, N, W). BOLIVIA : Cochabamba: vicinity of Cochabamba, 1891, M. Bang 975 [Herb. Monac. 1741 and 1742] (B-2, Bm, C, Ca, D, E, Ed, F, G, L, Le,

Mi, Mu-2, Ol, V, Vu, W, X-2). Tarija : T. Herzog 1060 (B, Cb, Le, S, V). CHILE : Valparaíso : Claude-Joseph 1613 (B, W). PARAGUAY : Balansa 2302 (Cb-2); Asunción, March 16, 1889, T. Morong 615 (Bm, C, Ca, D, E-2, Ed-2, F, G, Mi, W-2), « I saw this plant frequently in the neighborhood of dwelling-houses and think it must be a garden escape, although everybody declared that it was wild. »

Junellia seriphiooides (Gill. & Hook.) Moldenke

ARGENTINA : Río Negro : barrancas of Gualicho, March 14, 1940, R. Maldonado B. 290 (N).

Junellia tridens (Lag.) Moldenke

ARGENTINA : Santa Cruz : C. Spegazzini 11880 (N), determined as *Verbena carroo* Speg. by the collector and probably is a topotype of this species.

Lantana Balansae Briq.

ARGENTINA : Chaco : on a mountain, Campo Bonazzola, Enrique Urien, dept. Tapenaga, November, 1940, A. P. Rodrigo 2438 (N), flowers rose. Entre Ríos : barrancas, Paraná, May 23, 1940, A. L. Cabrera 6488 (N).

Lantana Junelliana Moldenke

ARGENTINA : Córdoba : La Falda, Molino de Thea, dept. Punilla, March 12, 1940, A. P. Rodrigo 2313 (N), flowers rose.

Lantana xenica Moldenke

ARGENTINA : Santiago del Estero : Beltrán, May 12, 1940, R. Maldonado B. 311 (N).

Verbena atacamensis Reiche, *Anal. Univ. Chile* 123 : 371. 1908; Reiche, *Fl. Chile* 5 : 291. 1910.

CHILE : Antofagasta : Taltal, alt. about 100 m., dept. Taltal, October, 1925, E. Werdermann 789 (N). Atacama : Caldera,

Quebrada León, alt. about 50 m., dept. Copiapó, September, 1924, E. Werdermann 1632 (N).

Verbena aurantiaca Speg., *Rev. Agron. La Plata* 1897 : 563. 1897.

ARGENTINA : Santa Cruz : Angostura, alt. about 300 m., December 30, 1929, A. Donat 219 (N).

Verbena Balansae Briq., *Ann. Conserv. et Jard. Bot. Genève*.

7-8 : 293-294. 1904; Chod. and Hassler, *Bull. Herb. Boiss.*, sér. 2, 4 : 1059. 1904; Briq., *Arkiv Bot.* 2, n° 10 : 12. 1904.

PARAGUAY : E. Hassler 9072 (Cb, N-2 photos, V, Z-2 photos).

Verbena Ballsii Moldenke, *Phytologia* 1 : 477-478. 1940.

ARGENTINA : Jujuy : Chorru Valley, near Tilcara, alt. 12800 feet, February 13, 1939, E. K. Balls 6036 (N-photo of type, W-type, Z-photo of type).

Verbena Berterii (Meisn.) Schau. in A. DC., *Prodr.* 11 : 551.

1847.

Shuttleworthia Berterii Meisn., *Gen. Pl. Comment.* 198. 1846.

Verbena erinoides Poepp. ex Schau. in A. DC., *Prodr.* 11 : 551, in syn. 1847 [not *V. erinoides* Lam., *Tabl. Encycl.* 1 : 57. 1791].

CHILE : Herb. Mus. Nac. Santiago 7 (N); Leona Rancagua, 1835, Bertero 744 (M-isotype). Coquimbo : Frai Jorge, August 16, 1917, C. and I. Skottsberg 843 (N). Valdivia : Valdivia, 1862, Bridges 602 (M). Valparaíso : El Salto, Aug. 26, 1917, C. and I. Skottsberg 930 (N); Valparaíso, August, 1830, Bertero 1389 (M); Valparaíso, September-October, 1890, T. Morong 1322 (C); Valparaiso, United States Exploring Exped. [Wilkes] s. n. (T).

Verbena bonariensis L., Sp. Pl., ed. 1, 28. 1753; Schau. in Mart., *Fl. Bras.* 9 : 187. 1851; Ball, *Journ. Linn. Soc. Lond.* 27 : 496. 1891; *Arkiv Bot.* 2, n° 10 : 10. 1904; *Flora Batava* 27 : pl. 2093. 1925-1930; Herter, *Revist. Sudam. Bot.* 4 : 186-187. 1937; Gallinal, Bergalli, et al., *Studies Nat. Meadows Uruguay* 112. 1938; Herter, *Beih. Bot. Centralbl.* 59 : 275. 1939; Moldenke, *Annot. List* 108. 1939; Parodi, *Darwiana* 4 : 55. 1940.

ARGENTINA : Buenos Aires : wet field on mountain, February 16, 1938, A. L. Cabrera 4288 (N); higher pastures near water, Punta Lara, March 3, 1930, A. L. Cabrera 1367 (N); pampas of Buenos Aires, Gillies s. n. (K, N-photo, Z-photo); Canal Guazú, Delta, November, 1925, A. C. Scala s. n. (N); Río Chaná, Delta del Paraná, January, 1914, A. C. Scala 372 (N); Gutiérrez, F. C. S., December 16, 1939, G. Dawson 912 (N); banks of the Río Negro, Partido de Patagones, December 5, 1938, A. L. Cabrera 4784 (N); forests, La Plata, April, 17, 1939, A. L. Cabrera 5233 (N); same locality, February 13, 1939, A. L. Cabrera 5148 (N); General Villegas, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5660 (N); on railroad embankment, Ejidalde, around the La Plata, March 22, 1931, A. L. Cabrera 1689 (N). Chaco : Colonia Benítez, October, 1936, A. G. Schulz 1483 (N), adventive and spontaneous in fields, herb 1-1.5 m. tall, very abundant, so determined also by C. Osten. Córdoba : banks of the river, Cosquín, alt. 730 m., January-February, 1936, A. P. Rodrigo 309 (N), flowers lilac; San Marcos, February 28, 1937, M. Birabén 31 (N). Corrientes : road to Pay-ubre Grande, Mercedes, November, 1936, A. P. Rodrigo 708 (N-2), flowers blue-violet. Río Negro : vicinity of General Roca, alt. 250-360 m., September, 1914, to February, 1915, W. Fischer 236 (N, Ur), so determined also by the collector. Salta : Las Juntas, December, 1896, C. Bruch s. n. (N), determined by A. P. Rodrigo as *V. littoralis* Kth. Santa Fe : road from Reconquista to Dr. Barrios Pazos, January-February, 1936, M. M. Job 796 (N); same locality and date, M. M. Job 797 (N); Río Saladillo, Isla Siavori, January-February, 1936, M. M. Job 634 (N); vicinity of Santo Tomé, January-February, 1936, M. M. Job 1063 (N). Tucumán : Valle de Tafí, 1908, C. Bruch 2723 [Herb. Inst. Biol. S. Paulo 36994] (N-2, Sp), so determined also by A. P. Rodrigo; Sierra de la Cuesta del Garaba valley, January 30, 1874, P. G. Lorentz and G. Hieronymus 853 (N). BOLIVIA : Cochabamba : edge of field, Incachaca, prov. Chapara, alt. 2200 m., March 19, 1929, J. Steinbach 9681 (N); same locality, alt. 80 m., October 21, 1920, J. Steinbach 5020 (Cb, N), flowers violet. La Paz : vicinity of La Paz, alt. 10000 feet, 1890, M. Bang 204 (C). CHILE : Teno inferior, February, 1896, Herb. Mus. Nac. Santiago 4

(N). Valdivia : Panguipulli, alt. about 200 m., March, 1927, P. A. Hollermayer s. n. [E. Werdermann 1362] (N), so determined also by E. Werdermann. PARAGUAY : E. Hassler 2130 (Cb), 9643 (Cb, V); vicinity of Asuncion, November, 1888, T. Morong 173 (C); Pilcomayo River, June 9, 1890, T. Morong 1546 (C). URUGUAY : Miguelete, alt. 30 m., dept. Montevideo, January, 1927, W. G. Herter 268 [Herb. Herter 81709; Herb. Inst. Biol. S. Paulo 26635] (N-2), so determined also by the collector; Río San Juan, dept. Colonia, November 21, 1934, A. L. Cabrera 3223 (N); in grassy fertile fields, Agronomía, Paysandú, January 20, 1937, B. Rosengurtt B. 864 (N); common along railroad tracks, Pedrera, Canelones, June 6, 1937, B. Rosengurtt B. 1915 (N), inflorescences partially galled; rare in pastures along river Yi and arroyo Mansavillagra, Florida, January 1, 1937, B. Rosengurtt B. 783 (N), so determined also by the collector.

Verbena brasiliensis Vell., *Fl. Flum.* 17. 1825; *Icon.* 1 : pl. 40. 1827; Moldenke, *Annot. List* 108. 1939.

Verbena littoralis var. *pycnostachya* Schan. in A. DC., *Prodr.* 11 : 542. 1847.

Verbena littoralis var. *brasiliensis* (Vell.) Briq., *Ann. Conserv. et Jard. Bot. Genèv.* 7-8 : 292. 1904; *Arkiv Bot.* 2, n° 10 : 11. 1904.

Verbena approximata Briq., *Ann. Conserv. et Jard. Bot. Genèv.* 7-8 : 292-293. 1904.

ARGENTINA : Buenos Aires : Isla Santiago, April 30, 1932, A. L. Cabrera 2159 (N); Punta Lara, Partido de La Plata, December, 1938, A. P. Rodrigo 2224 (N); Pereyra, December 16, 1939, G. Dawson 918 (N); forest of Punta Lara, November 12, 1939, G. Dawson 865 (N); San Isidro, February 2, 1936, N. S. Troncoso 195 (N), determined by the collector as *V. littoralis*; Buenos Aires, 1894, Floyer 48 (C), determined by the collector as *V. intermedia* Gill. and Hook.; near Buenos Aires, 1891, R. Hauthal 649 (N), determined by Kuntze as *V. bonariensis* var. *longibracteata* Kuntze. Catamarea : Belén, Quintas, March 5, 1929, A. L. Cabrera 1186 (N). Chaco : cultivated ground, Colonia Benítez, October, 1931, and September, 1937, A. G. Schulz 1485 (N), adventive, annual, 1-1,5 m. tall, flowers lilac, determined by C. Osten as «*V. approximata* Briq. subsp.

de *V. littoralis* H. B. K. » Mendoza : 1916, E. Carette 3050 (N-2), previously determined by me as *V. littoralis* var. *caracasana* Briq.; Lavalle, March 15, 1940, G. Dawson 966 (N). Santa Fe : highway from Santa Fe to Laguna Stubal o Guadalupe, January-February, 1936, M. M. Job 688 (N). BOLIVIA : Cochabamba : Cochabamba, March, 1892 O. Kuntze s. n. (N), determined as *V. hispida* by the collector. La Paz : Pongo, alt. 12000 feet, Cordillera Real, February 17 to March 1, 1926, G. H. H. Tate 206 (N), determined as *V. hispida* by H. H. Rusby ; Cordillera Real, road from Okara to Ancoma, alt. 11000 feet, April 29, 1926, G. H. H. Tate 865 (N), determined by Rusby as *V. bonariensis* L.; South Yungas, O. Buchtien 136 (V), 354 (V); vicinity of La Paz, alt. 10000 feet, 1889, M. Bang 136 (C), determined by Britton and Rusby as *V. bonariensis* L. CHILE : Coquimbo : between Monte Grande and Cochigüe, alt. 1200 m, dept. Elqui, October 14, 1940, G. Looser 4219 (N), plants 80 cm tall, determined by the collector as *V. littoralis* H. B. K. PARAGUAY : Villarica, October, 1932, P. Jörgensen 3767 (N-2), common in fields, 1 m. tall, petals blue, determined by E. Hassler as «*V. officinalis* L. var. *graciliscescens* O. K.». URUGUAY : A. L. Cabrera 3890 (N); in grassy field among shrubs, Agronomía, Paysandú, January 20, 1937, B. Rosengurtt B. 865 (N); Montevideo, December 7, 1891, O. Kuntze s. n. (N), determined by the collector as *V. bonariensis* var. *brevibracteata* Kuntze.

Verbena Cabrerae Moldenke, *Phytologia* 1 : 478-479. 1940.

ARGENTINA : Salta : Quebrada del Río Caraparí, dept. Orán, July 15, 1937, A. L. Cabrera 4919 (N-type), flowers blue. Tucumán : Las Pavas, alt. 3000 m, dept. Chicligasta, November 22, 1926, S. Venturi 4607 (N).

Verbena calliantha Briq. in Chod. and Hassler, *Bull. Herb. Boiss.*, sér. 2, 4 : 1059. 1904.

Verbena chamaedryfolia × *tenuisecta* Briq. in Chod. and Hassler., *Bull. Herb. Boiss.*, sér. 2, 4 : 1059, in *syn.* 1904.

ARGENTINA : Chaco : fields, roadsides, and cultivated ground, Colonia Benítez, February, 1935, A. G. Schulz 1477 (N), herb

40-60 cm. tall, flowers rose, perhaps a hybrid, plants perennial and abundant, approaching numbers 1472 and 1475, determined by C. Osten as «*V. calliantha* Briq. = *V. chamaedryfolia* for. \times *tenuisecta* Briq.» Tucumán : San Pedro de Colalao, January 10, 1940, T. Meyer 3094 (N), flowers blue.

Verbena corymbosa Ruiz and Pav., *Fl. Peruv.* 1 : 22, pl. 33. 1798; Walp., *Repert.* 4 : 26. 1845; Schau. in A. DC., *Prodr.* 11 : 539. 1847; C. Gay, *Hist. Chile Bot.* 5 : 23. 1849; Reiche, *Fl. Chile* 5 : 285. 1910; *Gard. Chron.*, ser. 3, 86 : 58 and 63. 1929; *Journ. Roy. Hort. Soc. Lond.* 55, *Proc.* 131. 1930; C. Elliott, *Gard. Chron.*, ser. 3, 90 : 290. 1931; E. Milne-Redhead, *Bot. Mag.* 157 : pl. 9361. 1934.

CHILE : San Juan, January, 1886, Herb. Mus. Nac. Santiago 2 (N), so determined also by the collector. Valdivia : Valdivia, 1862, Bridges 784 (M-2); San José de la Mariquina, alt. about 50 m, January, 1926, P. A. Hollermayer s. n. [E. Werdermann 1170] (N), so determined also by E. Werdermann.

Verbena crithmifolia Gill. and Hook. in Hook., *Bot. Misc.* 1 : 169. 1829.

ARGENTINA : San José de Morro, January 3, 1892, O. Kuntze s. n. (N-2), 30 cm. tall, flowers light-blue to lilac, so determined also by the collector. Buenos Aires : Estación N. Valle, January 28, 1939, A. Chicchi 28 (N-2). Catamarca : Andalgalá, in the neighborhood of Cerro Duraznos, January, 1937, M. M. Job 1337 (N). Córdoba : very abundant in dry places, Los Bomeros, dept. San Javier, January 18, 1895, F. Kurtz 8440 (N), so determined also by the collector; Los Cocos, Sierra Chica, March, 1940, A. L. Cabrera 6391 (N); Arroyo Yacanto, dept. San Javier, February 10, 1939, A. Castellanos s. n. [Herb. Mus. Argent. Cienc. Nat. 31202] (N); pampas, 1873, P. G. Lorentz and G. Hieronymus s. n. (C). La Pampa : between Santa Rosa and Victorica, March 16, 1938, A. L. Cabrera 4362 (N), flowers blue, so determined also by the collector; Quehue Montes de Caldén, March 28, 1939, A. Chicchi 264 (N); same locality and date, A. Chicchi 287 (N); Agua Blanca, near Sierra Chica, between

Curacó and Gral. Acha, March 27, 1939, A. Chicchi 264 (N). Mendoza : Santa Rosa, Jensen-Haarup s. n. (Cp, N-photo, Z-photo); Mendoza, P. Jörgensen 102a (Cp); Papagayos, April, 1937, L. R. Parodi 12807 (N), matted shrubs about 80 cm tall; Challas, October, 1890, W. Bodenbender s. n. [F. Kurtz 10010] (N), so determined also by Kurtz. Río Negro : Río Colorado, January, 1916, A. C. Scala 11 (N); vicinity of General Roca, alt. 250-360 m., September, 1914, to February, 1915, W. Fischer 90 (N, Ur), so determined also by the collector.

Verbena dissecta Willd. ex Spreng., *Syst. Veg.* 2 : 750. 1825; Schau. in A. DC., *Prodr.* 11 : 552. 1847; Schau. in Mart., *Fl. Bras.* 9 : 193. 1851; Troncoso, *Darwiniana* 3 : 484-486. 1939.

Shuttleworthia dissecta (Willd.) Walp., *Repert.* 4 : 12. 1845.

ARGENTINA : Buenos Aires : Monte Hermoso, 1916, E. Carette s. n. (N); Balcarce, Sierra el Vulcán, October 11, 1934, P. Boffa 330 (N). Chaco : along railroad, Taco Pozo, July 14, 1933, A. L. Cabrera 3169 (N-2); Roadsides, Barranqueras, October, 1932, A. G. Schulz 1470 (N), flowers pale-lilac, herb 50 cm tall, robust, branched, annual (?), spikes small, with fragrant flowers; Colonia Benítez, January, 1927, A. G. Schulz, 1472 (N), very abundant in fields, especially in sandy soil, forming large pure-stand colonies, flowers violet or purple, determined by C. Osten as *V. tenuisecta* Briq. Jujuy : Vinalito, Yuto, dept. Santa Bárbara, July 7, 1937, A. L. Cabrera 4055 (N-2), ruderal, so determined also by the collector; Humahuaca, Sierra de Zenta, alt. 2800 m, February, 1929, S. Venturi 8356 (N), flowers bluish. Río Negro : United States Exploring Expedition [Wilkes] s. n. (T), so determined also by Torrey. Salta : Ruiz de los Llanos, May 25, 1933, A. L. Cabrera 3004 (N); sandy soil, alt. 750 m, Cerro Negro, dept. Antillas, March 19, 1930, S. Venturi 10301 (N). Santiago del Estero : Turena, dept. Robles, October 5, 1939, R. Maldonado B. 185 (N), very abundant in all the fields, flowers lilac. Tucumán : Valle de Tafí, 1908, C. Bruch s. n. (N); Cumbre de Raco, alt. 2200 m, dept. Tafí, February, 1925, S. Venturi 3579 (N) determined by the collec-

tor as « *V. erinoides* Lam. » BOLIVIA: vicinity of Achacache, prov. Omasuyos, near Omapusa, alt. 3900 m, April-May, 1858, G. Mandon 725 (N). CHILE: Herb. Jussieu s. n. (N); Herb. Willdenow 11139 [Macbride photos 17460] (Kr-photo of type, N-photo of type). URUGUAY: Gallinal, Aragone, Bergalli, Campal and Rosengurtt 1625 (Po), determined by the collectors as *V. laciniata* (L.) Briq.; fields, Palleros, Río Negro, dept. Cerro Largo, December, 1937, Gallinal, Aragone, Bergalli, Campal and Rosengurtt 1433 (N), determined by the collectors as *V. tenera* Spreng.; same locality, date, and collectors 1821 (N) determined by the collectors as *V. tenera* Spreng.; maritime fields, Pajas Blancas, Montevideo, September 26, 1937, B. Rosengurtt B. 2116 1/2 (N) determined by the collector as *V. tenera* Spreng.

URUGUAY: fields, alt. 25-50 m, Atahualpa, dept. Montevideo, October, 1925, W. G. Herter and Strahl 181 [Herb. Herter 79174] (N), called « margarita morada » and « yerba meona », so determined also by the collectors; dry sandy soil, in sunlight, fields, dept. Montevideo, October, 1925, W. G. Herter 181 c [Herb. Herter 79227] (N), so determined also by the collector.

Verbena flava Gill. and Hook. in Hook., *Bot. Misc.* 1: 170. 1829.

ARGENTINA: pampas trip, 35°, January, 1892, O. Kuntze s. n. (N), so determined also by the collector. Mendoza: Arroyo Las Mangas, alt. 1900 m, January, 1921, E. Carette 339, in part (N). Río Negro: vicinity of General Roca, alt. 250-360 m, September, 1914, to February, 1915, W. Fischer 59 (N, Ur), so determined also by the collector.

Verbena glutinosa Kuntze, *Rev. Gen. Pl.* 3^o: 256. 1898.

ARGENTINA: Cordillera, Paso Cruz, 34°, alt. 1500 m, January, 1892, O. Kuntze s. n. (N-type).

Verbena graciliscescens (Cham.) Herter, *Rev. Sudam. Bot.* 4: 186-187. 1937.

Verbena officinalis var. *graciliscescens* Cham., *Linnaea* 7: 254-255. 1832.
Verbena officinalis var. *graciliscescens* Hauman-Merek, *Anal. Mus. Nac. Buenos Aires* 24: 414. 1913; *Gray Herb. Card Index*.

ARGENTINA: Buenos Aires: Campo de Bunge, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5704 (N), determined by the collector as *V. officinalis* L. Chaco: low swampy fields, Colonia Benítez, October, 1932, A. G. Schulz 1487 (N), plants 30-70 cm tall, abundant, flowers pale-lilac, almost white, determined by C. Osten as « *V. graciliscescens* Cham. »; margins of Arroyo Guiá, Las Palmas, September, 1937, A. G. Schulz 1886 (N), herb 30-70 cm tall, abundant, flowers pale-lilac. Córdoba: Ascochinga, November 3, 1936, N. S. Troncoso 316 (N), flowers lilac-white; Córdoba, November 15, 1879, C. Galander s. n. (N). Corrientes: road to La Feria, November, 1936, A. P. Rodrigo 665 (N), flowers pale-lilac. Misiones: banks of the Río Paraná, W. A. Archer 4627 (W), « leaves linear, perhaps because plants were chewed off and specimen is of second growth, flowers lilac ». Río Negro: vicinity of General Roca, alt. 250-360 m, September, 1914, to February, 1915, W. Fischer 203 (N, Ur), determined by the collector as « *V. graciliscescens* Cham. » Salta: Abra Grande, alt. 750 m, dept. Orán, November 20, 1927, S. Venturi 5504 (N-2), flowers white. Santa Fe: Villa Guillermina, September 21, 1939, C. Meyer s. n. [T. Meyer 3001] (N); vicinity of Santo Tomé, January-February, 1936, M. M. Job 1048 (N); Reconquista, November, 1933, A. Burkart 5807 (N), determined by the collector as « *V. graciliscescens* Cham. » Tucumán: December 6-22, 1872, P. G. Lorentz and G. Hieronymus s. n. (N). BOLIVIA: Cochabamba: a little below Cochabamba, 1891, M. Bang 1058 (C), determined by Britton and Rusby as *V. polystachya* H. B. K.; in damp places, alt. 8000 feet, Cochabamba, October, 1921, Mrs. R. S. Shepard 254 (N), determined by the collector as *V. officinalis* L. PARAGUAY: sandy sunny field, Río Verde, Chaco, alt. 50-100 m, W. G. Herter 84841 (N); Concepción, September, 1892, O. Kuntze s. n. (N); Pilcomayo River, April 30, 1890, T. Morong 1014 (C), determined by N. L. Britton as *V. intermedia* Gill. and Hook., « many stems from the same root, very slender and much-branched, erect, 4-5,5 dm tall, the upper parts naked; flowers blue, scarcely 3 mm. high, in terminal spikes not over 3 mm wide and 5-15 cm long; leaves small, linear, serrate, and confined mostly

to the lower part of the stems, or soon dropping off giving a naked, dry look to the plant; the stems are tetragonal and rough to touch ». URUGUAY : meadows, Palleros, Río Negro, dept. Cerro Largo, December, 1937, Gallinal, Aragone, Bergalli, Campal and Rosengurt 1710 (N); wet sandy fields, alt. 60-70 m, Río Yí, dept. Durazno, March 28, 1912, W. G. Herter 83241 (N); sandy shore, alt. 40-100 m, Artigas and Santa Rosa Cuareim, dept. Artigas, November 27, 1938, W. G. Herter 1058 [Herb. Herter 82656] (N-2), 25 cm tall, flowers blue-violet, determined by the collector as *V. filicaulis* Schau. and as «*V. intermedia* Gill. an sp. n.?»

Verbena Hassleriana Briq. in Chod. and Hassler, *Bull. Herb. Boiss.*, sér. 2, 4 : 1056. 1904.

Verbena Hassleriana Briq. apud Prain, *Ind. Kew. Suppl.* 3 : 187, sphalm. 1908.

PARAGUAY : among shrubs, Villarica, February, P. Jörgensen 3769 (N), so determined also by E. Hassler.

Verbena Herteri Moldenke, *Revist. Sudam. Bot.* 5 : 42. 1937.

URUGUAY : sandy fields, subshaded, alt. 40-60 m, Santa Rosa Cuareim, dept. Artigas, November, 1927, W. G. Herter 979 [Herb. Herter 82378] (N-type and isotype), plants 15 cm tall, flowers purple-lilac or deep red-lilac.

Verbena hispida Ruiz and Pav., *Fl. Peruv.* 1 : 22, pl. 34, f. a. 1798; Herzog, *Med. Rijks Herb.* 29 : 43. 1916; *Svensk Bot. Tidsk.* 32 : 231. 1938.

ARGENTINA : Chaco : Enrique Urien, near the eastern part of Chaco, in a dry region, December, 1932, A. G. Schulz 1482 (N), roadsides and lawns, herb 30-70 cm tall, flowers lilac-purple, so determined also by C. Osten; Sáenz Peña, April, 1937, Alfonso s. n. [L. D. Parodi 12811] (N), adventive from cultivated ground. Córdoba : Ascochinga, October 20, 1936, N. S. Troncoso 319 (N), corolla violet outside, white inside. Jujuy : October, 1892, O. Kuntze s. n. (N), flowers blue, so determined also by the collector. Santa Fe : Villa Guillermina, October 8,

1939, C. Meyer s. n. [T. Meyer 3273] (N). Tucumán : Valle de Tafi, 1908, C. Bruch 2724 (N), determined by A. P. Rodrigo as *V. bonariensis* L. BOLIVIA : Titicaca island, alt. 12.500 feet, 1905, Mrs. A. F. Bandelier 13 (N). El Beni : Apolo, March 10, 1902, R. S. Williams 5 (N), so determined also by Rusby. La Paz : La Paz, O. Buchtien 135 (V), 759 (V); alt. 3700 m, March, 1910, O. Buchtien 196 (N), so determined also by the collector; same locality and date, O. Buchtien s. n. (La); vicinity of La Paz, alt. 10.000 feet, 1889, M. Bang 8 (C), so determined also by Britton and Rusby. CHILE : Los Vilos, January, 1899, Herb. Mus. Nat. Santiago 16 (N), so determined also by the collector. Valparaíso : roadsides, Limache, Chaparro, January 27, 1931, A. Garaventa 2106 [Herb. G. Looser 4027] (N), flowers bluish, so determined also by Looser. PARAGUAY : E. Hassler 2459 (V), flowers in November; T. Rojas 355 (B).

Verbena humifusa Cham., *Linnæa* 7 : 271. 1832; Schau in Mart., *Fl. Bras.* 9 : 184. 1851; Briq., *Arkiv Bot.* 2, n° 10 : 10. 1904.

PARAGUAY : in the region of Río Yhu, September, 1905, E. Hassler 9479 (N, V).

Verbena incisa Hook. *Bot. Mag.* 65 : pl. 3628. 1838; Schau. in Mart., *Fl. Bras.* 9 : 183. 1851; Parodi, *Rev. Argent. Agron.* 1 : 202. 1934; Ciferri, *Atti Inst. Bot. Univ. Pavia*, ser. 4, 8 : 280 and 284. 1936; *Darwiniana* 3 : 55. 1937.

Verbena Arraniana Hort. ex Steud., *Nomencl. Bot.*, ed. 2, 2 : 749. 1841.

Verbena Arranaeana Hort. ex Schau. in Mart., *Fl. Bras.* 9 : 183, in syn. 1851.

Verbena fulgens Bonpl., in herb.

ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1090 (N); in grassy fields, Colonia Benítez, October, 1934, A. G. Schulz 1478 (N-2), herbs 30-50 cm tall, perennial, rare, flowers white, producing abundant seeds in cultivation, determined by C. Osten as «cf. *V. incisa* Hook. lusus *albiflora*?»; low swampy grassy ground along river, Loma Alta, Las Palmas, September, 1934, A. G. Schulz 1467 (N-2), herb 30-70 cm tall, somewhat branched, rather abundant, flowers blue. Co-

rrientes : Herb. Bonpland s. n. (N). Santa Fe : Mocoví, October 17, 1903, S. Venturi s. n. [Herb. Mus. Argent. Cienc. Nat. 23672] (N). URUGUAY : common on roadsides, climbing among shrubs to a height of 1,5 m, Arroyo Negro, Paysandú, November 12, 1937, B. Rosengurtt B. 2244 (N), flowers red.

Verbena intercedens Briq. in Chod. and Hassler, *Bull. Herb. Boiss.*, ser. 2, 4 : 1057. 1904.

PARAGUAY : near Caaguazú, February, 1905, E. Hassler 8934 (N, V), so determined also by J. Briquet ; common in fields at Villarica, October, P. Jörgensen 3768 (N), 1-2 m tall, flowers blue, so determined also by E. Hassler.

Verbena intermedia Gill. and Hook. in Hook., *Bot. Misc.* 1 : 166. 1830 ; Schau. in Mart., *Fl. Bras.* 9 : 187. 1851 ; Troncoso, *Darwiniana* 3 : 480-482. 1939.

Verbena gracilis Cham., *Linnaea* 7 : 262. 1832 [not *V. gracilis* Desf., *Cat. Hort. Paris*, ed. 3, 393. 1829].

Verbena tenuis Steud., *Nomencl. Bot.*, ed. 2, 2 : 751. 1840.

Verbena Chamissonis Walp., *Repert.* 4 : 18. 1845.

Verbena tandilensis Speg., *Contrib. Est. Fl. Tandil* 41. 1901.

ARGENTINA : Buenos Aires : arroyo, Sierra de la Ventana, Partido de Tornquist, January 16, 1940, A. L. Cabrera 5749 (N) ; slopes of Sierra de la Ventana, Partido de Torquist, April 22, 1939, A. L. Cabrera 5164 (N) ; pampas, Buenos Aires, Gillies s. n. (K-type, N-photo of type, Z-photo of type) ; Ventana, January, 1892, R. Hauthal 649 (N), type collection of *V. bonariensis* var. *longibracteata* Kuntze. Chaco : in fertile lawns, Colonia Benítez, September, 1937, A. G. Schulz 1481 (N), stems simple, roots woody, perennial, plants 50-100 cm tall, abundant, flowers blue, so determined also by C. Osten. Corrientes : common in grassy fields, La Cruz, November, 1936, L. R. Parodi 12444 (N), 1 m tall, flowers violet. Santa Fe : Aurelia, near Santa Fe, Feddersen s. n. (Cp). URUGUAY : dry sandy field, Arroyo Grande, alt. 50 m, dept. Soriano, March 31, 1928, W. G. Herter 1155 [Herb. Herter 83295] (N-2), flowers clear blue-violet, so determined also by the collector ; rocky hills, Río San Juan, dept. Colonia, November 13, 1936, A. L. Cabrera 3890

(N) ; Arroyo Fimote, December, 1936, B. Rosengurtt B. 765 (N), rare in clearings ; meadow-slopes, Parque, San Pedro, Cerro Colorado, dept. Florida, December, 1937, B. Rosengurtt B. 765 (N) ; same locality, December, 1937, Gallinal, Aragone, Bergalli, Campal and Rosengurtt PE. 2882 (N), so determined also by the collectors ; same locality, date and collectors PE. 2621 (N) ; dry sandy soil, Cerro, dept. Montevideo, alt. 30 m, December, 1925, W. G. Herter 80042 (N), so determined also by the collectors.

Verbena Isabellae Briq., *Ann. Conserv. et Jard. Bot. Genève* 4 : 234. 1900 ; *Arkiv Bot.* 2 : n° 10 : 12. 1904.

PARAGUAY : region of the upper Río Y-aca, December, 1900, E. Hassler 6685 (Cb, N-photo, Z-photo).

Verbena laciniata (L.) Briq., *Ann. Conserv. et Jard. Bot. Genève* 7-8 : 296-297. 1904 ; Herter, *Rev. Sudam. Bot.* 4 : 186-187. 1937 ; Herter, *Beih. Bot. Centralbl.* 59 : 275. 1939.

Verbena erinoides Lam., *Tabl. Encycl.* 1 : 57. 1791 ; Poir. in Lam., *Encycl. Méth. Bot.* 8 : 547. 1808 ; Hook., *Bot. Misc.* 1 : 168. 1829 ; Schau. in Mart., *Fl. Bras.* 9 : 193. 1851 ; *Journ. Roy. Hort. Soc.* 61 : 401. 1935 ; *Darwiniana* 3 : 54. 1937 ; Grimm, *N. Y. Herald-Tribune*, April 24, 1938 ; *Svensk Bot. Tidskr.* 32 : 231. 1938 ; Parodi, *Darwiniana* 4 : 44. 1940.

Verbena multifida Ruiz and Pav., *Fl. Peruv.* 1 : 21. 1798.

Verbena Selloi Spreng., *Syst. Veg.* 2 : 750. 1825.

Verbena odorata Meyen, *Reise* 1 : 481. 1834.

Shuttleworthia Selloi (Spreng.) Walp., *Repert.* 4 : 13. 1845.

Erinus laciniatus L., *Sp. Pl.*, ed. 1, 630. 1753.

ARGENTINA : Jujuy : alt. 12.000 feet, E. K. Balls 5984 (W), « flowers clear-mauve to violet, in close flattened heads to 2 inches across, no scent ; leaves hairy, inclined to gray ; stems wiry, prostrate, raying from root-crown, to 12 inches long, making loose mats to several feet across where plants intertwine, growing chiefly among thin turf and against rocks on dry open slopes in poor rocky sandy soil. » BOLIVIA : La Paz : O. Buchen 758 (V). CHILE : C. Gay 792 (N), determined by the collector as « *V. erinoides* Hook. » ; Falcaraque, Herb. Gray s. n. (O). determined as *V. erinoides* Lam. by A. Gray. Bio-Bio : Fundo

Tambillo, November 1, 1935, Pfister 2177 (N), determined as *V. erinoides* Lam. by C. Yunge. Concepción : La Torna, Concepción, October 15, 1934, C. Yunge 971 [Herb. G. Looser 4030] (N), determined as *V. erinoides* Lam. by Looser; Hualqui, Ticharo, C. Junge 1805 (Ba). O'Higgins : open rocky slope, alt. 1750-2000 m, Copada, January 25, 1925, F. W. Pennell 12.237 (N), suffrutescent herb, corolla pale-violet or light vinaceous gray, so determined also by I. M. Johnston. Santiago : near Mount Caracol, Santa Cruz, October, 1934, Alcibiades s. n. (Ba); Cerro Manguehue, alt. 1500 m, October 24, 1926, G Looser 4032 (N); Condes, Herb. Mus. Nac. Santiago 1 (N), determined as *V. erinoides* by the collector; La Ermita, Río San Francisco, alt. 1200 m, Cordillera de las Condes, dept. Santiago, middle of November, 1940, G. Looser 4222 (N), determined as *V. erinoides* by the collector. Valparaíso : Limache, September 18, 1925, G. Looser 4031 (N), determined as *V. erinoides* by the collector; Cerro de la Campana, November 28, 1931, Garaventa 2672 [Herb. L. Looser 4023] (N), determined as *V. erinoides* by the collector; Valparaíso, July, 1851, Gillies s. n. (T), determined as *V. erinoides* by the collector.

LAMIACEAE

(determinations by C. Epling)

Hyptis floribunda Briq. — ARGENTINA : Buenos Aires : Punta Lara, April 5, 1940, A. L. Cabrera 6358 (N-2), so determined also by the collector.

Hyptis lappulacea Benth. — ARGENTINA : Chaco : Villa Angela February, 1940, P. Boffa 1078 (N).

Hyptis mutabilis (Rich.) Briq. — ARGENTINA : Córdoba : Dique de la Vaquerías, Valle Hermoso, dept. Punilla, February 22, 1940, A. P. Rodrigo 2261 (N), flowers bluish. Entre Ríos : barrancas, Paraná, May 23, 1940, A. L. Cabrera 6469 (N).

Leonurus sibiricus L. — ARGENTINA : Chaco : Enrique Urien, Campo Bonazzola, dept. Tapenaga, November, 1940, A.

P. Rodrigo 2424 (N), flowers rose or pink, so determined also by the collector.

Lepechinia Meyeni (Walp.) Epl. — ARGENTINA : Córdoba : Sierra Grande de los Gigantes, alt. 1700 m, January-February, 1936, A. P. Rodrigo 585 (N), flowers lilac.

Marrubium vulgare L. — ARGENTINA : Buenos Aires : Gonnet, October 4, 1939, G. Dawson 728 (N).

Mentha piperita L. — ARGENTINA : Neuquén : Chacay-có, February, 1940, C. Castagnet 18 (N).

Mentha pulegium L. — ARGENTINA : Buenos Aires : Chasco-mús, March 22, 1940, G. Dawson 977 (N).

Minthostachys mollis Griseb. — ARGENTINA : Córdoba : Salsipuedes, dept. Colón, February 3, 1939, L. A. Dawson 53 (N), called « menta peperina ».

Salvia Gilliesii Benth. — ARGENTINA : Córdoba : Río Pinto, March 6, 1940, A. P. Rodrigo 2291 (N), flowers heavenly-blue.

Salvia pallida Benth. — ARGENTINA : Buenos Aires : General Villegas, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5647 (N), flowers blue.

Salvia uliginosa Benth. — ARGENTINA : Buenos Aires : Playa Municipal, March 21, 1940, G. Dawson 972 (N-2).

Satureja parvifolia (Phil.) Epl. — ARGENTINA : Córdoba : Sierra Grande, Los Gigantes, alt. 1100 m., January-February, 1936, A. P. Rodrigo 586 (N), flowers white, plants 80 cm tall.

Scutellaria racemosa Pers. — ARGENTINA : Buenos Aires : Punta Lara, November 11, 1940, G. Dawson 1003 (N-2).

SOLANACEAE

(*Dunalia* determinations by J. Monachino ; remainder by T. H. Goodspeed)

Dunalia lycooides Miers — CHILE : Tarapacá : Noasa, Cord. Quebrada de Quipisca, alt. about 3500 m, dept. Tarapacá,

March, 1926, E. Werdermann 1064 (N), determined by the collector as *Lycium* sp.

Nicotiana Cavanillesii Dun. — ARGENTINA : Catamarca : sandy soil, alt. 3980 m, San Antonio, dept. Santa María, March 10, 1914, D. Rodríguez 1431 (N). La Pampa : Quehue, mountains of Calden, March 28, 1939, A. Chicchi 285 (N). Mendoza : Mendoza, March, 1916, E. Carette s. n. (N). Río Negro : valley of the Río Negro, January, 1916, A. C. Scala 9 (N), determined by the collector as *N. noctiflora* Hook. San Juan : fertile valley, San Juan, A. Guecco 27 (N).

Nicotiana glauca Grah. — ARGENTINA : Catamarca : 1893, R. Hauthal s. n. (N), so determined also by A. P. Rodrigo. Corrientes : Isla Meza, 10 km up the Río Paraná, November, 1936, A. P. Rodrigo 840 (N), tree, called « palán-palán », so determined also by the collector.

Nicotiana longiflora Cav. — ARGENTINA : Buenos Aires : forest, La Plata, March 30, 1932, A. L. Cabrera 2100 (N), so determined also by the collector. Córdoba : Salsipuedes, dept. Colón, March 4, 1939, G. Dawson 471 (N); Villa General Mitre, dept. Totoral, March 8, 1939, G. Dawson 631 (N). Corrientes : Arroyo Las Garzas, Mercedes, November, 1936, A. P. Rodrigo 830 (N), flowers white, called « tabaco », so determined also by the collector. Jujuy : forest, Vinalito, Yuto, dept. Santa Bárbara, July 8, 1937, A. L. Cabrera 4098 (N), determined by the collector as *N. longiflora* var. *acutiflora* (St. Hil.) Comes. Tucumán : Clavillo de Aconquija, alt. 2800 m, January, 1937, M. M. Job 1409 (N).

Nicotiana petunioides (Griseb.) Millán — ARGENTINA : Jujuy : Humahuaca, Sierra de Zauta, alt. 3000 m, S. Venturi 8308 (N), flowers white, 0,5 m tall. Los Andes : Colalasta, alt. 400 m, December 20, 1897, G. F. Gerling s. n. (N), determined by A. P. Rodrigo as *N. Philippiae* A. R. Millán; Collector undesignated s. n. (N), determined as *N. Philippiae* A. R. Millán by A. P. Rodrigo. Tucumán : Sierra de Cañón, alt. 1900 m, Río Maragua, dept. Tafí, April 29, 1926, S. Venturi 4224 (N).

Nicotiana plumbaginifolia Viv. — ARGENTINA : Jujuy : Vinalito, Yuto, dept. Santa Bárbara, July 8, 1937, A. L. Cabrera 4096 (N), in forests.

Petunia Parodii Steere — ARGENTINA : Córdoba : Salsipuedes, dept. Colón, March 4, 1939, G. Dawson 471 (N); Sierra Grande, between San Antonio and Copina, alt. 1200 m, January-February, 1936, A. P. Rodrigo 450 (N), flowers white.

SCROPHULARIACEAE

determinations by J. Monachino

Stemodia hyptoides Cham. and Schlecht. — ARGENTINA : Chaco : island opposite the town of Corrientes, in southern Chaco territory, November 5, 1896, N. Alboff s. n. (N). Salta : Río Pescado, dept. Orán, September 16, 1938, A. L. Cabrera 4602 (N).

GESNERIACEAE

determinations by C. V. Morton

Mitraria coccinea Cav. — ARGENTINA : Río Negro : Lago Espejo, region of Lago Nahuel Huapí, February 7, 1940, A. L. Cabrera 5977 (N), so determined also by the collector.

Sinningia tubiflora (Hook.) Fritsch — ARGENTINA : Chaco : Villa Angela, February, 1930, P. Boffa s. n. (N).

ACANTHACEAE

determinations by E. C. Leonard

Ruellia Tweediana Griseb. — ARGENTINA : Chaco : Enrique Urien, Campo Bonazzola, dept. Tapenaga, November, 1940, A. P. Rodrigo 2425, in part (N).

Ruellia sp. probably undescribed — ARGENTINA : Chaco : Enrique Urien, Campo Bonazzola, dept. Tapenaga, November, 1940, A. P. Rodrigo 2425, in part. (N).

CARDUACEAE

determinations by H. A. Gleason

Vernonia chamaedrys Less. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1018 (N), so determined also by the collector.

Vernonia rubricaulis H. B. K. — ARGENTINA : Buenos Aires : General Villegas, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5674 (N), so determined also by the collector.

Vernonia sp. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1039 (N), not matched with certainty.