

CONTRIBUTIONS TO THE FLORA OF EXTRA-TROPICAL SOUTH AMERICA

III

By HAROLD N. MOLDENKE

(U. S. A.)

In addition to the various herbarium abbreviations explained in the previous installments of my Contributions, the abbreviation «Ra» is employed herein to designate the Museo Nacional de Historia Natural de Buenos Aires.

POACEAE

(*Eragrostis* by L. H. Harvey; all the remainder of the determinations by Mrs. Agnes Chase)

***Agrostis exasperata* Trin.** — ARGENTINA : Chubut : Carrenleofú, Patagonia, January 3, 1900, C. Spegazzini 11848 (N), «lemma with deciduous awn, no palea.»

***Agrostis montevidensis* var. *submutica* Doell.** — ARGENTINA : Buenos Aires : Los Hornos, La Plata, January, 1887, C. Spegazzini 11855 (N). Río Negro : Río Alerce, Paso de las Nubes, region of Lago Nahuel Huapí, February 4, 1940, A. L. Cabrera 5879 (N). Salta : Pampa Grande, March, 1900, E. Holmberg 11858 (N).

***Agrostis* spp.** — ARGENTINA : Buenos Aires : Punta Lara, January 4, 1940, G. Dawson 938 (N), «no palea». Santa Cruz : C. Spegazzini 11849 (N), «no palea».

- Andropogon condensatus** H. B. K. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1123 (N, N, W).
- Andropogon saccharoides** Sw. — ARGENTINA : Buenos Aires : Abra de la Ventana, Sierra de la Ventana, Partido de Tornquist, January 16, 1940, A. L. Cabrera 5762 (N).
- Aristida** sp. probably **A. adscensionis** L. — ARGENTINA : Entre Ríos : barrancas, Paraná, May 23, 1940, A. L. Cabrera 6474 (N), «very immature».
- Aristida murina** Cav. — ARGENTINA : Buenos Aires : Calle 90 y 15, La Plata, December 7, 1939, G. Dawson 897 (N, W).
- Arundo donax** L. — ARGENTINA : Córdoba : 1887, C. Spegazzini 11853 (N).
- Bouteloua brasillensis** Ekm. — ARGENTINA : Córdoba : Los Cocos, Sierra Chica, March, 1940, A. L. Cabrera 6364 (N).
- Briza subaristata** Lam. — ARGENTINA : Misiones : Posadas, January, 1907, C. Spegazzini 11362 (N).
- Briza triloba** Nees — ARGENTINA : Buenos Aires : Sierra de la Ventana, November, 1895, C. Spegazzini 11320 (N), so determined also by the collector; La Plata, November, 1888, C. Spegazzini 11374 (N), so determined also by the collector.
- Bromus auleticus** Trin. — ARGENTINA : Buenos Aires : fields, Abra de la Ventana, Sierra de la Ventana, Partido de Tornquist, January 16, 1940, A. L. Cabrera 5756 (N), so determined also by the collector; General Villegas, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5682 (N); La Plata, C. Spegazzini 11376 (N).
- Bromus catharticus** Vahl — ARGENTINA : Buenos Aires : La Plata, November, 1895, C. Spegazzini 11326 (N).
- Bromus mollis** L. — ARGENTINA : Buenos Aires : dunes, Miramar, Partido de General Alvarado, November 10, 1939, A.

- L. Cabrera 5542 (N), determined as *B. hordaceus* by the collector.
- Bromus trinii** Desv. — ARGENTINA : Córdoba : Rufino, February, 1901, C. Spegazzini 11324 (N).
- Bromus uruguayensis** Arech. — ARGENTINA : Buenos Aires : Punta Lara, October 28, 1939, A. L. Cabrera 5405 (N), determined as *Bromus uruguayensis* Arech. by the collector.
- Calamagrostis viridiflavescens** (Poir.) Steud. — ARGENTINA : Buenos Aires : La Plata, December, 1899, C. Spegazzini 11427 (N), determined as *C. montevidensis* by the collector.
- Cenchrus echinatus** L. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1128 (N, N).
- Cenchrus myosuroides** H. B. K. — ARGENTINA : Chaco : April 21, 1883, C. Spegazzini 11870, in part (N). Santiago del Estero : Turena, dept. Robles, December 4, 1939, R. Maldonado B. 246 (N).
- Cenchrus pauciflorus** Benth. — ARGENTINA : Córdoba : October, 1896, Stuckert 6196 (N), determined as *C. tribuloides* by the collector. Santiago del Estero : in cultivated ground, Turena, dept. Robles, October 19, 1939, R. Maldonado B. 211 (N), called «cadillo chaqueño».
- Chloris Berroi** Arech. — ARGENTINA : Buenos Aires : La Plata, January 15, 1918, C. Spegazzini 1433 (N), so determined also by the collector.
- Chloris distichophylla** Lag. — ARGENTINA : Chaco : Resistencia, August 22, 1883, C. Spegazzini 11384 (N), so determined also by the collector.
- Chloris polydactyla** (L.) Sw. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1114 (N, N, W), so determined also by the collector. Salta : Perico, January, 1906, C. Spegazzini 11458 (N), so determined also by L. R. Parodi. Santiago del Estero : Turena, dept. Robles, December 4, 1939, R. Maldonado B. 244 (N).

- Dactylis glomerata** L. — ARGENTINA: Buenos Aires: City Bell, November 26, 1939, G. Dawson 889 (N).
- Digitaria adusta** (Nees) Griseb. — ARGENTINA: Buenos Aires: Agustina, Partido de Junín, October 18, 1940, A. L. Cabrera 6557 (N).
- Digitaria sanguinalis** (L.) Scop. — ARGENTINA: Chaco: Villa Angela, February, 1940, P. Boffa 1131 (N). Santiago del Estero: Turena, dept. Robles, December 4, 1939, R. Maldonado B. 243 (N).
- Distichlis scoparia** Arech. — ARGENTINA: Neuquén: Paso Flores, February, 1940, C. Castagnet 99 (N).
- Distichlis spicata** (L.) Greene — ARGENTINA: Buenos Aires: dry field, road to Palo Blanco, January 24, 1940, A. L. Cabrera 5812 (N), so determined also by the collector.
- Echinochloa colonum** (L.) Link — ARGENTINA: Chaco: Villa Angela, February, 1940, P. Boffa 1122 (N, N), so determined also by the collector; same locality and date P. Boffa 1125 (N).
- Echinochloa cruspavonis** (H. B. K.) Schult. — ARGENTINA: Chaco: Villa Angela, February, 1940, P. Boffa 1113 (N); same locality and date, P. Boffa 1135 (N, N), determined as *E. crusgalli* by the collector. Mendoza: Lavalle, March 15, 1940, G. Dawson 965 (N).
- Eleusine indica** (L.) Gaertn. — ARGENTINA: Buenos Aires: vicinity of La Plata, April, 1898, C. Spegazzini 11063 (N, N), so determined also by the collector; Punta Lara, April 5, 1940, A. L. Cabrera 6343 (N, N).
- Eleusine tristachya** Lam. — ARGENTINA: Buenos Aires: La Plata, December 8, 1880, C. Spegazzini 11062 (N).
- Eragrostis cilianensis** (All.) Link — ARGENTINA: Chaco: Villa Angela, February, 1940, P. Boffa 1129 (N, N), determined as *E. megastachya* by the collector. Santiago del Estero:

- Turena, dept. Robles, November 18, 1939, R. Maldonado B. 226 (N).
- Eragrostis hyptoides** (Lam.) B. S. P. — ARGENTINA: Chaco: southern Chaco, opposite Corrientes, November 5, 1896, N. Alboff s. n. (N).
- Eragrostis lugens** Nees — ARGENTINA: Chaco: Villa Angela, February, 1940, P. Boffa 1121 (N). Entre Ríos: Concordia, April, 1908, Beauflis s. n. (N).
- Eragrostis virescens** Presl — ARGENTINA: Salta: Torino, January, 1894, C. Spegazzini 11065 (N). Tucumán: Río Salí, January, 1899, C. Spegazzini 11823 (N, N).
- Eriochloa punctata** (L.) Desv. — ARGENTINA: Tucumán: January, 1895, C. Spegazzini 11064 (N).
- Festuca acanthophylla** Desv. — ARGENTINA: Neuquén: Termas de Copahue, February 17, 1940, A. L. Cabrera 6141 (N).
- Festuca myuros** L. — ARGENTINA: Buenos Aires: Gutiérrez, F. C. S., December 16, 1939, G. Dawson 900 (N). Misiones: 1884, C. Spegazzini 1779 (N), determined as *Julpia* sp. by the collector.
- Gouinia latifolia** (Griseb.) Vasey — ARGENTINA: Chaco: Villa Angela, February, 1940, P. Boffa 1118 (N).
- Holcus lanatus** L. — ARGENTINA: Río Negro: Bahía López, region of Lago Nahuel Huapí, February, 1940, C. Castagnet 44 (N).
- Hordeum murinum** L. — ARGENTINA: Río Negro: Bariloche, region of Lago Nahuel Huapí, February, 9, 1940, A. L. Cabrera 5940 (N).
- Koeleria phleoides** (Vill.) Pers. — ARGENTINA: Buenos Aires: Gouinet, October 4, 1939, G. Dawson 724 (N, N), so determined also by the collector.

- Lolium perenne** L. — ARGENTINA : Buenos Aires : City Bell, November 26, 1939, G. Dawson 886 (N).
- Melica aurantiaca** Lam. — ARGENTINA : Buenos Aires : Gutiérrez, F. C. S., December 16, 1939, G. Dawson 913 (N).
- Muhlenbergia asperifolia** (Nees & Mey.) Parodi — ARGENTINA : Santa Fe : Estancia San Miguel, November, 1900, C. Spegazzini 11856 (N), determined as *Agrostis eremophyla* by the collector.
- Nassella trichotoma** (Nees) Hack. & Arech. — ARGENTINA : Buenos Aires : Tolosa, December, 1924, C. Spegazzini 11839 (N); Estación Deimehy, F. Oggioni 11841 (N).
- Panicum Bergii** Arech. ? — ARGENTINA : Santiago del Estero : Turena, dept. Robles, cleared ground, lawns and cultivated ground, December 4, 1939, R. Maldonado B. 248 (N, N).
- Panicum Lorentzianum** Mez — ARGENTINA : Santiago del Estero : Turena, dept. Robles, December 4, 1939, R. Maldonado B. 249 (N).
- Panicum pilcomayense** Hack. — ARGENTINA : Buenos Aires : Parque, Sierra de la Ventana, Partido de Tornquist, January 16, 1940, A. L. Cabrera 5739 (N, N), determined as *P. Bergii* Arech. by the collector. Chaco : Villa Angela, February, 1940, P. Boffa 1133 (N); same locality and date, P. Boffa 1120 (N).
- Panicum racemosum** (Beauv.) Spreng. — ARGENTINA : Buenos Aires : dune, Miramar, Partido de General Alvarado, November 10, 1939, A. L. Cabrera 5535 (N).
- Pappophorum mucronulatum** Nees — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1115 (N).
- Paspalum exaltatum** Presl — ARGENTINA : Buenos Aires : Seguí, colonies 2 m tall, December 8, 1939, A. L. Cabrera 5635 (N); Santa Catalina, March, 1918, C. Spegazzini 11866 (N).

- Paspalum falcatum** var. **microcarpon** Ekm. — ARGENTINA : Chaco : Colonia Resistencia, January, 1886, C. Spegazzini 11867 (N).
- Paspalum malacophyllum** Trin. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1116 (N); same locality and date, P. Boffa 1126 (N). Córdoba : Los Cocos, Sierra Chica, March, 1940, A. L. Cabrera 6401 (N). Salta : Pampa Grande, January, 1897, C. Spegazzini 11871 (N).
- Paspalum plicatulum** Michx. — ARGENTINA : Chaco : Reconquista, January, 1900, C. Spegazzini 11868 (N).
- Paspalum quadrifarium** Lam. — ARGENTINA : Buenos Aires : Campo de Bungo, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5700 (N).
- Paspalum stellatum** Humb. & Bonpl. — ARGENTINA : Entre Ríos : Concordia, April, 1908, Beaufile 11865 (N).
- Pennisetum latifolium** Spreng. — ARGENTINA : Buenos Aires : Punta Lara, April 5, 1940, A. L. Cabrera 6355 (N).
- Pennisetum nervosum** Trin. — ARGENTINA : Chaco : April 21, 1883, C. Spegazzini 11870 (N).
- Phalaris angustata** Nees — ARGENTINA : Buenos Aires : Punta Lara, November 22, 1940, G. Dawson 1014 (N). Misiones : Posadas, January, 1907, C. Spegazzini 11863 (N).
- Piptochaetium bicolor** (Vahl) Desv. — ARGENTINA : Buenos Aires : Abra de la Ventana, Sierra de la Ventana, Partido de Tornquist, January 16, 1940, A. L. Cabrera, 5761 (N).
- Piptochaetium lasianthum** Griseb. — ARGENTINA : Córdoba : Alta Gracia, February, 1925, C. Bruch 11833 (N), determined as *Oryzopsis lasiantha* (Griseb.) Spegaz. by the collector.
- Piptochaetium ovatum** (Trin.) Desv. — ARGENTINA : Córdoba : Alta Gracia, February, 1925, C. Bruch 11835, in part (N).

determined as *Oryzopsis ovata* (Tr. & R.) Spegaz. by the collector.

Piptochaetium panicoides (Lam.) Desv. — ARGENTINA : Córdoba : Alta Gracia, February, 1925, C. Bruch 11835, in part (N), « name missapplied by Desv. to species with smooth fruit ».

Piptochaetium stipoides (T. & R.) Hack. — ARGENTINA : Buenos Aires : Calle 90 y 15, La Plata, December 7, 1939, G. Dawson 894 (N).

Poa bonariensis (Lam.) Kunth — ARGENTINA : Buenos Aires : road to the coast, Partido Magdalena, October 16, 1940, A. P. Rodrigo 2343 (N).

Polypogon australis Brongn. [*P. crinitus* Trin. not Nutt.] — ARGENTINA : Río Negro : Bariloche, region of Lago Nahuel Huapí, February 5, 1940, A. L. Cabrera 5971 (N, N); same locality, February 9, 1940, A. L. Cabrera 5943 (N, N).

Polypogon monspeliensis (L.) Desf. — ARGENTINA : Buenos Aires : Gutiérrez, F. C. S., December 16, 1939, G. Dawson 904 (N).

Setaria argentina Herzm. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1127 (N). Santiago del Estero : Turena, dept. Robles, December 4, 1939, R. Maldonado B. 245 (N).

Setaria geniculata (Lam.) Beauv. — ARGENTINA : Buenos Aires : Gutiérrez, F. C. S., December 16, 1939, G. Dawson 910 (N). Chaco : Villa Angela, February, 1940, P. Boffa 1119 (N). Santiago del Estero : cleared and cultivated ground and lawns, Turena, dept. Robles, November 21, 1939, R. Maldonado B. 232 (N), « smutted ».

Setaria lachnea (Nees) Kunth — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1117 (N, W).

Sorghastrum pellitum (Hack.) Parodi — ARGENTINA : Buenos Aires : Cerro de la Ventana, Sierra de la Ventana, Partido de Tornquist, January 17, 1940, A. L. Cabrera 5779 (N), so determined also by the collector.

Sorghum vulgare Pers. — ARGENTINA : Chaco : Villa Angela, February, 1940, P. Boffa 1130 (N).

Stenotaphrum secundatum (Walt.) Kuntze — ARGENTINA : Buenos Aires : Villa Elisa, low field, March 9, 1940, A. L. Cabrera 6314 (N, N).

Stipa bonariensis Henr. & Parodi — ARGENTINA : Buenos Aires : high slopes, Cerro de la Ventana, Sierra de la Ventana, Partido de Tornquist, January 17, 1940, A. L. Cabrera 5780 (N).

Stipa brachychaeta Godr. — ARGENTINA : Buenos Aires : Banderoló, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5637 (N); barrancas, San Pedro, Partido de San Pedro, December 1, 1939, A. L. Cabrera 5601 (N), « note cleistogenes ».

Stipa cordobensis Spegaz. — ARGENTINA : Córdoba : Alta Gracia, February, 1925, C. Bruch 11832 (N), so determined also by the collector.

Stipa ichu (Ruíz & Pav.) Kunth — ARGENTINA : Fortín Mercedes, Río Colorado, February, 1898, C. Spegazzini 11845 (N), determined as *S. gynerioides* Phil. by the collector.

Stipa neesiana Trin. & Rupr. — ARGENTINA : Buenos Aires : barranca, San Pedro, Partido de San Pedro, December 1, 1939, A. L. Cabrera 5608 (N); Banderoló, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5638 (N); in fields near Deimeby, November, 1898, C. Spegazzini 11826 (N); determined as *S. setigera* Presl by the collector; dunes, Miramar, Partido de General Alvarado, November 10, 1939, A. L. Cabrera 5543 (N); Hurlingham, Partido de San Martín, December 1939, A. L. Cabrera 5716 (N). Córdoba :

Alta Gracia, February 20, 1925, C. Bruch 11831 (N), determined as *S. setigera* Presl by the collector.

Stipa papillosa (Hack.) Hitchc. ? — ARGENTINA: Buenos Aires: La Plata, December 19, 1939, A. L. Cabrera 5720 (N), « very immature ».

Stipa papposa Nees — ARGENTINA: Buenos Aires: General Villegas, Partido de General Villegas, December 21, 1939, A. L. Cabrera 5657 (N), so determined also by the collector; Santa Catalina, C. Spegazzini 11824 (N), so determined also by the collector.

Stipa sanluisensis Spegaz. — ARGENTINA: Córdoba: Alta Gracia, February, 1925, C. Bruch 11829 (N), so determined also by the collector.

Trichachne sacchariflora (Raddi) Nees — ARGENTINA: Santiago del Estero: Turena, December 4, 1940, R. Maldonado B. 247 (N).

Trichloris pluriflora Fourn. — ARGENTINA: Chaco: Villa Angela, February, 1940, P. Boffa 1112 (N, N), so determined also by the collector.

URTICACEAE

determination by E. P. Killip and C. V. Morton

Boehmeria caudata Sw. (« in the broad sense in which this species has been interpreted ») — ARGENTINA: Salta: Giujana, dept. Rosario de Lerma, January, 1937, M. M. Job 1570 (N), shrub to 1,5 m tall, in wet soil.

BRASSICACEAE

determinations by R. C. Rollins

Brassica campestris L. — ARGENTINA: Santa Fe: Puerto Reconquista, November 26, 1939, M. Birabén 244 (N).

Eruca sativa Gars. — ARGENTINA: Buenos Aires: in meadows, Partido de Junín, October 17, 1940, A. L. Cabrera 6520 (N), flowers cream, determined as *E. vesicaria* (L.) Cav. by the collector.

CRASSULACEAE

determination and notes by J. Monachino

Tillaea erecta Hook. & Arn. (*T. minima* Miers fide K. Reiche, Flora de Chile) — CHILE: Valdivia: Coihueco, alt. about 150 m, October, 1926, P. A. Hollermayer s.n. [E. Werdermann 1372] (N), « of quite a different habit from many North American plants of this species; plant little branched; nodes close, very congested near summit; leaves 2-3 mm long; flowers approximately 2 mm long; petals approximately 3/4 the length of the sepals ».

STERCULIACEAE

determinations and notes by J. Monachino

Buettneria filipes Mart. & K. Schum. — ARGENTINA: Santa Fe: common shrub, Isla Mascota, Reconquista, Río Paraná, January-February, 1936, M. M. Job 926 (N), flowers dull-greenish. « This species is very variable both in leaf-shape and pubescence. Our form is an extreme on the glabrous side, having only a trace of puberulence on the capsules and, except for the characteristic pubescence on the upper side of the petioles and the tufts of hair in the axils of the nerves of the leaf-blades, the leaves are quite glabrous like the branches. The extreme on the hairy side is *Buettneria filipes* var. *paraguayensis* (Britton) Monachino, comb. nov. (*Chaetaca paraguayensis* Britton, Ann. N. Y. Acad. Sci. 7: 63. 1892). This variety has branches that are very hairy, and the petioles completely and densely so, the leaves markedly pubescent beneath, and the fruits downy. Two intermediate specimens have been discovered in the indeterminate portion of the Britton Herbarium at the New York Botanical Garden, but had better be regarded as

forms of *B. filipes* itself. They are E. Hassler 1387 [ad ripam lago Ipacaray, Paragay, Oct. 1885-1895] and E. Hassler 1530 [ad ripam rivis Iuqueri, Paraguay, Nov. 1885-1895] ».

Melochia hermannioides St. Hil. — ARGENTINA: Corrientes: toward the north in the vicinity of Mercedes, November, 1936, A. P. Rodrigo 812 (N).

COMBRETACEAE

determination by J. Monachino

Terminalia australis Camb. — ARGENTINA: Buenos Aires: forest of Punta Lara, November 12, 1939, G. Dawson 864 (N).

GUNNERACEAE

determination by J. Monachino

Gunnera magellanica Lam. — CHILE: Valdivia: A. Hollermayer s.n. [E. Werdermann 1930] (N).

OENOTHERACEAE

Jussiaea peruviana by E. C. Leonard; remainder of determinations by P. A. Munz

Epilobium australe Poepp. & Hausskn. ? — ARGENTINA: Río Negro: Bariloche, region of Lago Nahuel Huapí, February 9, 1940, A. L. Cabrera 5942 (N, N).

Fuchsia magellanica Lam. — ARGENTINA: Río Negro, Lago Espejo, region of Lago Nahuel Huapí, February 7, 1940, A. L. Cabrera 5976 (N).

Jussiaea bonariensis Micheli — ARGENTINA: Santa Fe: Guadalupe, November 27, 1939, M. Birabén 261 (N).

Jussiaea elegans Camb. var. *intermedia* Hassler — ARGENTINA: Buenos Aires: Punta Lara, January 4, 1940, G. Dawson 953 (N).

Jussiaea peruviana L. — ARGENTINA: Buenos Aires: Playa Municipal, around the Berisso, January 13, 1929, A. Chichichi 7 (N).

Jussiaea repens L. var. *montevicensis* (Spreng.) Munz, ined. — CHILE: Valdivia: Panguipulli, alt. about 160 m, 1928, A. Hollermayer s.n. [E. Werdermann 1911] (N).

Jussiaea repens L. var. *peplodes* (H. B. K.) Griseb. — ARGENTINA: Tucumán: El Bañado, dept. Tafí, May 2, 1926, S. Venturi 4409 (N), flowers yellow.

Oenothera indecora Camb. — ARGENTINA: Buenos Aires: railroad embankment, Augustina, Partido de Junín, October 18, 1940, A. L. Cabrera 6560 (N); Arenal, Isla Paulino, Río Santiago, November 24, 1940, A. L. Cabrera 6961 (N, N).

LOGANIACEAE

determination by J. Monachino

Buddleja mendozensis Gill. var. *tenuifolia* (Griseb.) Hieron. — ARGENTINA: Córdoba: Churqui-Cañada, September 21, 1939, R. Maldonado B. 134 (N).

VERBENACEAE

Duranta serratifolia (Griseb.) Kuntze. Vernacular name: tala blanca.

ARGENTINA: Salta: high woods, alt. 1500 m, Campo Quijano, Rosario de Lerma, January 16, 1929, S. Venturi 8071 (Ca), determined as *D. Lorentziana* Griseb. by the collector. Tucumán: high woods, alt. 1000 m, Siambu, dept. Tafí, January 23, 1924, S. Venturi 2622 (Ca), flowers violet, determined as *D. Lorentziana* Griseb. by the collector.

Neosparton aphyllum (Gill. & Hook.) Kuntze, *Rev. Gen. Pl.* 3^a: 254. 1898.

Verbena aphylla Gill. & Hook. in Hook., *Bot. Misc.* 1: 161, pl. 46. 1829; Molino, *Trab. Inst. Bot. y Farm. Buenos Aires* 54: 112. 1935; H. S. Marshall, *Kew Bull.* 1936: 87. 1936; Latzina, *Lilloa* 1: 189. 1937.

Neosparton andinum Kurtz ex Moldenke, *Prelim. Alph. List Invalid Names* 33, in syn. 1940.

ARGENTINA: Mendoza: between Los Chacayes and Los Arbolitos on the ascent of the Andes and in the valley of Los Lenas Amarillas on the ascent of Planchon, alt. 4500-5000 feet, November 2, 1824, Gillies s. n. (K-type, N-fragment and photo of type, Z-photo of type); Diamante, Pampa, January, 1883, P. Güssfeldt s. n. (B); Paso Cruz, 34°, Cordillera, alt. 1700 m, January, 1892, O. Kuntze s. n. (N), plants 1 m tall, flowers blue; Mendoza, Kurtz 7204 (B), flowers in bud-stage eaten away; Mendoza, December, Kurtz 7422 (B), in flower; La Crucesita, November 23, 1918, Sanzin 3110 [Herb. Mus. Nac. Hist. Nat. Buenos Aires 25/2217] (N); vicinity of St. Raphaël and the valley of Río Atuel, alt. 1200-1500 m, January-February, 1897, E. Wilczek 40 (Cb, Cb, N-fragment), determined as *N. ephedroides* by Briquet. CHILE: Aconcagua: Paso Cruz, 34°, alt. 1700 m, January, 1892, O. Kuntze s. n. (B, N, W), plants 1 m tall, flowers blue.

Neosparton Darwinii Benth. in Benth. & Hook. f., *Gen. Pl.* 2: 1144. 1876.

ARGENTINA: Buenos Aires: Monte Hermoso, outside of Bahía Blanca, coast of Patagonia, October 2, 1832, C. Darwin 528 (K-type, N-photo of type, Z-photo of type); Coronel Dorrego, November 1-5, 1924, Doello-Jurado s. n. [Herb. Mus. Nac. Hist. Nat. Buenos Aires 24/1711] (N), determined as *N. Darwinii* Benth. & Hook. by Hauman.

Neosparton ephedroides Griseb., *Abh. K. Gesell. Wiss. Götting.* 19: 245, pl. 2, f. 6 [Pl. Lorentz. 197]. 1874; Molino, *Trab. Inst. Bot. y Farm. Buenos Aires* 54: 112. 1935; Latzina, *Lilloa* 1: 189. 1937.

Neosparton striatum R. A. Phil., *Anal. Mus. Nac. Chile* 1891: 60. 1891; Moldenke, *Prelim. Alph. List Invalid Names* 33, in syn. 1940.

Neosparton ephedroides Griseb. apud Kuntze, *Rev. Gen. Pl.* 3²: 254, sphalm. 1898; Moldenke, *Prel. Alph. List Invalid Names* 33, in syn. 1940.

Vernacular names: «retamo», «pichanilla».

ARGENTINA: Catamarca: F. Schickendantz 250 (B), 262 (B), flowers October-December; E. W. White 38 (Bm); Agua Negra, February 7, 1930, A. Castellanos s. n. [Herb. Mus. Argent. Cienc. Nat. Buenos Aires 30/603] (N, N); El Saladillo, road to Santa María del Cajón, January, 1915, Castillon s. n. (N); on desert, Campo del Arenal, Grisebach s. n. (K-cotype, N-photo of cotype, Z-photo of cotype); common in meadows, Campo del Arenal, Andalgalá, October 4, 1917, P. Jörgensen 1731 (E, G, N-fragment and photo, W, Z-photo), in fruit; Catamarca, alt. 3000 m., fruit April, P. Jörgensen 11093 (Cb); San José, P. G. Lorentz 93 (B-cotype, N-fragment of cotype); desert, Campo del Arenal, P. G. Lorentz 357 [Macbride photos 17580] (B-cotype, F-photo of 2 cotypes); same locality, P. G. Lorentz 367 (B-cotype, N-photo of cotype, Z-photo of cotype); above Nacimientos, frequent in «arena mobili», January, 1872, P. G. Lorentz 460 (B-cotype, N-fragment and photo of cotype, Z-photo of cotype); Laguna Blanca, 1872, P. G. Lorentz s. n. (B); Río de Hualfin, October, 1875, F. Schickendantz 105 (B, B, Cb, K, N-fragment and photo, Z-photo); meadows of Faura Balastro, valley of Cajón, November, 1915, Schreiter s. n. (N). Los Andes: in desert, Antofagasta Alta, alt. 3750 m., R. A. Philippi s. n. [Macbride photos 17581] (B, F-photo, K, N-fragment and 2 photos, Vu, W, Z-2 photos), type collection of *N. striatum*.

Timotocia Hassleri (Briq.) Moldenke in Fedde, *Repert.* 39: 141-142. 1936.

Casselia Hassleri Briq., *Bull. Herb. Boiss.*, sér. 2, 4: 1165. 1904. Moldenke, *Prelim. Alph. List Invalid Names* 14, in syn. 1940.

PARAGUAY: E. Hassler 7350, in part (B), mixed with *Basis-temon spinosus* (Chod.) Moldenke; in sandy fields and dry plains in the region of the upper course of Río Apa, November, 1901, E. Hassler 7889 (B-isotype, Bm-isotype, Cb-type and isotype,

K-isotype, N-fragment and photo of type, N-2 photos of isotypes, P-isotype, W-photo of type, X-isotype, Z-photo of type, Z-2 photos of isotypes); in declivities of high plateau, Sierra de Amambay, T. Rojas s. n. [E. Hassler 10760] (Bm, Cb, Cb, K, N-fragment, P).

Timotocia hymenocalyx (Briq.) Moldenke in Fedde, *Repert.* 39 : 139-140. 1936.

Casselia hymenocalyx Briq., *Bull. Herb. Boiss.*, sér. 2, 4 : 1165. 1904 ; Moldenke, *Prelim. Alph. List Invalid Names* 14, in syn. 1940.

Paraguay : Anisits 2590 (S), 2690 (S, S); K. Fiebrig 4092 [Herb. Monac. 4147] (B, Bm, Cb, Cb, Ed, G, K, Le, Mu); near Concepción, October, 1901, E. Hassler 7637 (Bm-isotype, Cb-type and isotype, G-isotype, K-isotype, N-fragment and photo of type, N-2 photos of isotypes, P-isotype, V-isotype, X-isotype, Z-photo of type, Z-2 photos of isotypes); in cultivation, Concepción, T. Rojas 2406 [Herb. Parag. Jard. Bot. Parag. 10834] (B, Mu).

Timotocia ilicifolia (Moldenke) Moldenke in Fedde, *Repert.* 39 : 138-139. 1936.

Casselia ilicifolia Moldenke. *Phytologia* 1 : 97. 1934 ; Moldenke, *Prelim. Alph. List Invalid Names* 14, in syn. 1940.

ARGENTINA : La Rioja : Hieronymus & Niederlein 139 (B, B); T. Stuckert 4724 (Cb), 4734 (Cb), 17014 (Cb), 22502 (Cb), s. n. (B-photo); La Diana, Ulapas, February 24 and March 12, 1907, F. Schmaedke s. n. [T. Stuckert 17013] (Cb-type, E-photo of type, N-isotype, N-fragment and photo of type, S-photo of type, W-photo of type, Z-photo of type).

Timotocia Mansoi (Schau.) Moldenke in Fedde, *Repert.*, 39 : 142-143. 1936.

Casselia Mansoi Schau. in A. DC., *Prodr.* 11 : 527. 1847 ; Schau. in Mart., *Fl. Bras.* 9 : 175. 1851 ; Moldenke, *Prelim. Alph. List Invalid Names* 14, in syn. 1940.

Casselia Mansii Schau. ex Moldenke, *Prel. Alph. List Invalid Names* 14, in syn. 1940.

Casselia peduncularis Mart. ex Moldenke, *Prelim. Alph. List Invalid Names* 14, in syn. 1940.

BOLIVIA : Santa Cruz : Buena Vista, prov. Sara, April 13, 1921, J. Steinbach 5566 (Cb, N), plants 0,2-0,4 m tall, flowers pale rose-lilac.

SCROPHULARIACEAE

Buchnera elongata Sw. — ARGENTINA : Entre Ríos : Puerto Yeruá, Pennington s. n. [Herb. Mus. Nac. Hist. Nat. Buenos Aires 23588] (Ra).

ACANTHACEAE

determinations by E. C. Leonard

Beloperone Amherstiae Nees — ARGENTINA : Misiones : Establecimiento La Plantadora, San Ignacio, July, 1926, A. C. Scala s. n. (N), so determined also by Lillo and cited in *Lilloa* 1 : 61. 1937.

Beloperone ramulosa Morong — ARGENTINA : Misiones : Posadas, July, 1938, J. Frenguelli 21 (N).

Beloperone squarrosa (Griseb.) Lindau — ARGENTINA : Chaco : Las Breñas, alt. 250 m, February 24, 1930, S. Venturi 10175 (N), plants 40-50 cm tall, flowers violet.

Chaetochlamys tucumanensis Lillo — ARGENTINA : Tucumán : S. Roth s. n. (N), cited in *Lilloa* 1 : 66, 1937.

Chaetothylax umbrosus Nees — ARGENTINA : Catamarca : Balcoagua, alt. 1250 m, dept. del Alto, January 15, 1928, S. Venturi 7080 (N) plants 70 cm tall, in high forest. Jujuy : Vinalito, Yuto, dept. Santa Bárbara, July 7, 1937, A. L. Cabrera 4060 (N), flowers lilac. Tucumán : S. Roth s. n. (N), so determined also by Lillo and cited in *Lilloa* 1 : 65. 1937.

Dicliptera Niederleiniana Lindau — ARGENTINA : Córdoba : La Falda, Molino de Thea, dept. Punilla, March 10, 1940, A. P. Rodrigo 2298 (N), flowers yellow, leaves velvety.

Dicliptera scutellata Griseb. — ARGENTINA: Catamarca: Andalgala, February 22, 1929, A. L. Cabrera 1043 (N).

Dicliptera Tweediana Nees — ARGENTINA: Chaco: Villa Angela, February, 1940, P. Boffa 1088 (N). Tucumán: Sierra de San Javier, alt. 800 m, dept. Tafi, July 10, 1938, A. P. Rodrigo 2026 (N), flowers rose.

Dyschoriste humilis (Griseb.) Lindau — ARGENTINA: Córdoba: Salsipuedes, dept. Colón, March, 1938, G. Dawson 189 (N), flowers bluish.

Dyschoriste Venturii Leonard, sp. nov., fig. 1

Herba, caulibus erectis vel adscendentibus vel procumbentibus, subteretibus, puberulis; lamina foliorum ovata vel ovato-lanceolata, apice obtusa vel acuta, basi angustata, in petiolum decurrens, integra, parce et minute puberula; flores axillares, sessiles vel subsessiles; calyx puberulus, segmentis subulatis; corolla alba vel pallide purpurea, pubescens; capsulae glabrae vel apice puberulae.

Herbs, becoming suffrutescent at base; stems erect, ascending, or procumbent, up to 60 cm long, subterete, puberulent, or glabrescent toward the base; leaf blades ovate to oblong, 2 to 4 cm long, 1 to 3 cm wide, obtuse to acute, narrowed at base and decurrent on the petiole, minutely and sparingly puberulent or glabrous, entire; petioles slender, 0.5 to 1.5 cm long; bracts leaf-like, usually about as long as the calyx-tube but sometimes longer, puberulent or glabrous; flowers axillary, sessile or subsessile, or the lowermost borne on short peduncles up to 1 cm long, 1 to several in each axil; calyx 8 to 14 mm long, puberulent, the segments about as long as the tube, slightly more than 1 mm wide at base, gradually narrowed to a slender subulate tip, 1-nerved, minutely ciliate; corolla white or light violet, finely and rather densely pubescent, the tube 10 to 12 mm long, the throat about 5 mm in diameter, the limb 1 cm broad, the lobes 4 to 5 mm long, rounded; anther cells parallel; capsules about 1 cm long and 3 mm broad, glabrous, or pubescent at the tip.

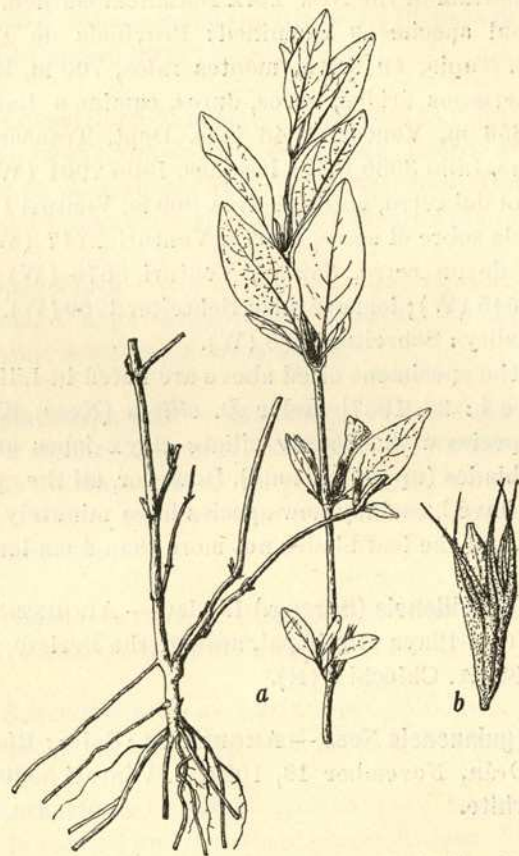


Fig. 1. — *Dyschoriste Venturii* Leonard, sp. nov.: a, portions of plant half nat. size; b, calyx and capsule, twice nat. size

Type in the U. S. National Herbarium, n° 1.545.059, collected at Cerro del Remate, Carlos Pellegrini, Prov. Santiago del Estero, Argentina, altitude 500 meters, February 27, 1928, by S. Venturi (n° 5865). An isotype is in the Krukoff Collection at the Herbarium of the New York Botanical Garden.

Additional specimens examined: Provincia de Tucumán: Dept. Tafi: Tapia, en selva, montes ralos, 700 m, Rodríguez 214 (W); terrenos áridos, secos, duros, camino a Raco, en los cerrillos, 850 m, Venturi 1043 (W). Dept. Trancas: Vipos, lomas áridas, Lillo 3930 (W); bosques, Lillo 7901 (W); un cerrillo, ladera del cerro, entre piedras, 800 m, Venturi 1771 (W); entre piedras sobre el cerro, 850 m, Venturi 2717 (W); entre las piedras de un cerro, 850 m, Venturi 5876 (W); 650 m, Schreiter 1545 (W); lomas áridas, Schreiter 1750 (W). Without definite locality: Schreiter 1398 (W).

Some of the specimens cited above are listed in Lillo's Catalogue [*Lilloa* 1: 26. 1937] under *D. ciliata* (Nees) Kuntze, a Peruvian species with strongly ciliate calyx lobes and much larger leaf blades (up to 7 cm long). However, all the specimens on which I have based my new species have minutely ciliolate calyx lobes and the leaf blades not more than 4 cm long.

Hygrophila brasiliensis (Spreng.) Lindau — ARGENTINA: Buenos Aires: Playa Municipal, around the Berisso, January 13, 1939, A. Chicchi 9 (N).

Hygrophila guianensis Nees — ARGENTINA: Salta: Río Blanco, dept. Orán, November 18, 1927, S. Venturi 5520 (N), flowers white.

Hygrophila longifolia Nees — ARGENTINA: Río Chaná, Delta, January, 1914, A. C. Scala 407 (N), cited in *Lilloa* 1: 25. 1937.

Justicia comata (L.) Lam. — ARGENTINA: Jujuy: Vinalito, Yuto, dept. Santa Bárbara, July 9, 1937, A. L. Cabrera 4114 (N), in wet meadows, determined as *J. comata* Sw. by the collector.

Justicia Echegarayi Hieron. — ARGENTINA: San Luis: Alto Pencoso, February, 1914, Bruch & Carette s. n. (N), cited in *Lilloa* 1: 52. 1937.

Justicia laevilinguis (Nees) Lindau — ARGENTINA: Buenos Aires: Los Talas, around the Río de La Plata, April 18, 1934, A. L. Cabrera 2926 (N, N).

Justicia Lorentziana Lindau — ARGENTINA: Buenos Aires: shrub in barrancas, Partido de San Pedro, December 1, 1939, A. L. Cabrera 5621 (N), flowers blue. Tucumán: Sierra del Cajón, May 4, 1926, S. Venturi 4438 (N).

Justicia pauciflora Griseb. — ARGENTINA: Salta: Rosario de Lerma, Campo Quijano, alt. 1500 m, January, 1929, S. Venturi 8060 (N), flowers violet.

Justicia platicarpa Lillo — ARGENTINA: San Juan: Valle Fértil, February 24, 1927, A. Guecco 5 (N). Tucumán: Quebrada de Huasamayo, Sierra del Cajón, alt. 2600 m, dept. Tafi, May 6, 1926, S. Venturi 4239 (N), plants 0,5 m tall, flowers violet.

Justicia riojana Lindau — ARGENTINA: San Luis: Cuchi-Corral, January, 1933, M. A. Vignati 367 (N).

Justicia Schreiteri Lillo — ARGENTINA: Vinalito, Yuto, dept. Santa Bárbara, July 7, 1937, A. L. Cabrera 4077 (N).

Ruellia Lorentziana Griseb. — ARGENTINA: Santiago del Estero: in cleared and cultivated places, Turena, November 15, 1939, R. Maldonado B. 224 (N), plants 1 m tall. Tucumán: S. Roth s. n. (N), so determined also by Lillo and cited in *Lilloa* 1: 33. 1937.

Siphonoglossa sulcata (Nees) Lindau — ARGENTINA: Córdoba: Salsipuedes, dept. Colón, March, 1938, G. Dawson 190 (N), flowers blue.

CARDUACEAE

determinations by H. A. Gleason

Vernonia echiooides Less. — ARGENTINA: Buenos Aires: Punta Lara, November 22, 1940, G. Dawson 1012 (N), so determined also by the collector.

Vernonia nitidula Less. vel aff. — ARGENTINA: Jujuy: mountains near Jujuy, dept. Capital, September 11, 1938, A. L. Cabrera 4539 (N), shrub 2 m tall.

Vernonia nudiflora Less. — ARGENTINA: Córdoba: Los Cocos, Sierra Chica, March, 1940, A. L. Cabrera 6380 (N, N), so determined also by the collector.