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B. RAMBO, S. J.

MALVACEAE RIOGRANDENSES



INSTITUTO ANCHIETANO DE PESQUISAS

São Leopoldo — Praça João Pessoa, 35 — Rio Grande do Sul — BRASIL

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PESQUISAS

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MALVACEAE RIOGRANDENSES

B. RAMBO SJ.

This is the first general enumeration of the Malvaceae of Rio Grande do Sul, southernmost State of Brazil. Of the older authors, Schumann (FB 12, 3, 1891) has 11, Lindman (Vegetationen, 1900) 3, Bornmüller (1934) 10 species collected within the frontiers of the State.

During the last half century, much work has been done by the Swedis (Ekman, Fries) Uruguayan (Herter), and Argentine (Pilar Rodrigo, Krapovickas) botanists which had a beneficial reflex on the knowledge of the Riograndean Malvaceae; towards the beginning of 1961, the following 34 are cited for the territory here concerned:

- Abutilon flückigerianum Schum. — Fries, 1907.
- Abutilon melanocarpum St. Hil. et Naud. — Schumann, 1891.
- Abutilon petiolare H. B. K. — Bornmüller, 1934.
- Abutilon striatum Dicks. — Ekman, 1909; Bornmüller, 1934.
- Abutilon umbelliferum St. Hil. — Schumann, 1891; Fries, 1907.
- Hibiscus amoenus Link et Otto — Fries, 1907.
- Hibiscus diversifolius Jacq. — Fries, 1907.
- Malvastrum decipiens Schum., 1891.
- Modiola caroliniana (L.) Schum., 1891.
- Modiola lateritia (Hook. et Arn.) Schum., 1891.
- Modiola multifida Mch — Bornmüller, 1934.
- Modiolastrum malvifolium (Gris.) Schum. — Bornmüller, 1934.
- Monteiroa bullata (Ekm.) Krap., 1951.
- Monteiroa glomerata (Hook. et Arn.) Krap., 1951; Fries, 1907.
- Monteiroa ptarmicifolia (St. Hil. et Naud.) Krap., 1951; Schumann, 1891.
- Monteiroa triangularifolia Krap., 1951.
- Pavonia belophylla Hochr. — Fries, 1907.
- Pavonia hastata Cav. — Fries, 1907.
- Pavonia malmeana R. E. Fries, 1907.
- Pavonia rosea Schlecht. — Malme, 1936.
- Pavonia schranckii Spreng. — Fries, 1907.
- Pavonia sepium St. Hil. — Bornmüller, 1934.
- Pavonia urbaniana Gürke — Fries, 1907.
- Sida ciliaris L. — Pilar Rodrigo, 1944.
- Sida dubia St. Hil. et Naud. — Schumann, 1892.
- Sida durifolia St. Hil. et Naud. — Schumann, 1892.
- Sida macrodon DC. — Fries, 1907; Bornmüller, 1934.

Sida *potentilloides* St. Hil. — Pilar Rodrigo, 1944.
Sida *prostrata* Cav. — Fries, 1907; Pilar Rodrigo, 1944.
Sida *regnellii* R. E. Fries, 1907; Pilar Rodrigo, 1944.
Sida *suborbicularis* St. Hil. et Naud. — Schumann, 1892.
Sida *urticifolia* St. Hil. — Schumann, 1892; Fries, 1907.
Wissadula *glechomatifolia* (St. Hil.) R. E. Fries, 1908.
Wissadula *subpeltata* (O. K.) R. E. Fries, 1908.

For Uruguay, Herter (1930) enumerates 57 species, of which about 45 are native.

The Herbarium Anchieta (PACA, 1931–1961)*, among 783 collections of Malvaceae, has 56 species in 11 genera.

For an easier orientation, I divide the State into the following natural sectors:

RGS — Rio Grande do Sul.

SC — Santa Catarina.

NEL — northeastern Lowlands: Campos, woodlets, swamps, granite and sandstone hills.

NEC — northeastern sea coast: Campos, swamps, woodlets, sand dunes.

NES — northeastern slope of the Highlands: subtropical rain forest.

NEH — northeastern Highlands: Campos, swamps, Araucaria forests.

SEC — southeastern sea coast: Campos, swamps, sand dunes.

SEH — southeastern hill land: Campos, woodlets, gallery.

SW — southwestern Campos: grass plains, woodlets, gallery, swamps.

NWH — northwestern Highlands: rain forest, woodlets, Campos.

NWU — northwestern valley of the Uruguay River: rain forest.

CL — central Lowlands: Campos, gallery, woodlets, swamps.

CS — central slope of the Highlands: subtropical rain forest.

CH — central Highlands: Campos, woodlets, gallery, swamps.

If not otherwise, collecting has been done by B. Rambo SJ, and determination by K. Emrich and B. Rambo SJ.

ABUTILON Gärtn.

Abutilon flückigerianum Schum.

FB 12,3 (1891) 370, tab 67; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 29; Herter, Flor. Urug. (1930) 84.

* The Herbarium Anchieta is now in the Instituto Anchietano de Pesquisas, São Leopoldo, RGS.

- 199** RGS, Vila Manresa p. P. Alegre, NEL, in dumosis apertis graminosis, 17.10.1932, fl.
- 7608** RGS, S. Leopoldo, NEL, in graminosis subsiccis, 1907, fl., leg. F. Theissen SJ.
- 9506** RGS, Jari p. Tupanciretan, NWH, in graminosis, 27.1.1942, fl.
- 35369** RGS, S. Leopoldo, NEL, in siccis graminosis, 10.10.1946, fl., leg. C. Ritter SJ.
- 37870** RGS, Morro da Polícia p. P. Alegre, NEL, in campestribus subdumosis, 6.11.1948, fl., fr.
- 37912** RGS, Sapucaia p. S. Leopoldo, NEL, in graminosis, 10.11.1948, fl.
- 38159** RGS, Morro da Polícia p. P. Alegre, NEL, in siccis graminosis, 20.11.1948, fl., fr.
- 38505** RGS, S. Leopoldo, NEL, in arenosis graminosis, 4.12.1948, fl., fr.
- 40759** RGS, Sapucaia p. S. Leopoldo, NEL, in arenosis graminosis, 1.4.1949, fl., fr.
- 42293** RGS, Steinkopf p. S. Leopoldo, NEL, in campestribus subdumosis, 28.6.1949, fl.
- 43953** RGS, Sapucaia p. S. Leopoldo, NEL, in campestribus dumosis, 17.10.1949, fl.
- 44266** RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in arenosis siccis subdumosis, 5.11.1949, fl.
- 43997** RGS, Morro do Osso p. P. Alegre, NEL, in campestribus graminosis sparse dumosis, 21.10.1949, fl.
- 44205** RGS, Morro Santana p. P. Alegre, NEL, in campestribus subdumosis, 2.11.1949, fl.
- 45276** RGS, In summo monte Itacolomi p. Gravataí, NEL, in rupestribus parce dumosis, 11.1.1950, fl., fr.
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- 64058** RGS, Pelotas, SEC, in campestribus, 13.5.1950, fr., leg. Gomes.

Habit: Small shrub, moderately lignified, up to 1 m high; flowers in head on a long, leafless stalk.

Habitat: On dry, somewhat shrubby Campos.

Distribution in RGS: Over the whole southern and western Campos area; apparently absent from the northeastern Highlands.

General distribution: Northeastern Argentina, Uruguay, RGS.

Abutilon inflatum Garcke et Schum.,

FB 12,3 (1891) 401.

- 615** RGS, Pareci p. Montenegro, NEL, cultum, 16.7.1933, fl.
- 1321** RGS, S. Leopoldo, NEL, in silva rupestri, 4.12.1922, fl.
- 4904** RGS, Sta. Clara p. Lageado, NEL, in silvula secundaria, 18.11.1940, fl.

- 7600** RGS, S. Leopoldo, NEL, in silvula rupestri, 1907, fl., leg. F. Theissen SJ.
- 29623** RGS, Pareci p. Montenegro, NEL, in silva rupestri, 15.9.1945, fl., leg. E. Henz SJ.
- 29952** RGS, Kappesberg p. Montenegro, NES, in silva rupestri, 22.8.1945, fl., leg. E. Friderichs SJ.
- 30148** RGS, P. Alegre, NEL, culta, 1945, fl., leg. K. Emrich.
- 32762** RGS, Pareci p. Montenegro, NEL, in silva rupestri, 19.9.1945, fl., leg. E. Henz SJ.
- 37529** RGS, Galópolis p. Caxias, NES, in silvula rupestri, 8.9.1948, fl.
- 42459** RGS, Pareci p. Montenegro, NEL, in silva rupestri, 7.7.1949, fl.
- 42883** RGS, Schwabenschneis p. Nôvo Hamburgo, NES, in silva rupestri, 12.8.1949, fl.
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- 47297** RGS, P. Alegre, NEL, cultum, 25.7.1948, fl., leg. K. Emrich.
- 48592** RGS, Kappesberg p. Montenegro, NES, in silva pluviali, 1.9.1949, fl., leg. A. Sehnem SJ 3780.

Habit: Small, slender tree, up to 4 m high.

Habitat: In the interior of the subtropical rain forest, in rocky and more or less open places.

Distribution in RGS: All findplaces in the northeastern sector of the subtropical rain forest belt.

General distribution: South Brazil, RGS.

Abutilon megapotamicum St. Hil. et Naud.,

An. sci. nat. II sér. 18 (?) 49; Schumann, FB 12,3 (1891) 400, tab. 73. — *Sida megapotamica* Spreng., Tent. Suppl. ad Syst. Veg. ed. 16 (?) 19.

- 11125** RGS, Lagoa Vermelha, NEH, in dumosis, 1.1943, fl. nondum evoluto, leg. E. Friderichs SJ.
- 28068** RGS, Vila Oliva p. Caxias, NEH, in dumosis secundariis, 2.1945, fl., leg. P. Buck SJ.
- 33295** RGS, Caracol p. Canela, NEH, in dumosis, 26.2.1946, fl., leg. K. Emrich.
- 35870** RGS, ibidem, 26.2.1947, fl., leg. K. Emrich.
- 40243** RGS, Sta. Rita p. Farroupilha, NEH, in secundariis, 28.1.1949, fl.
- 42502** RGS, ibidem, in araucarieto aperto, 13.7.1949, fl.
- 44993** RGS, Gramado p. Canela, NEH, in araucarieto, 26.12.1949, fl.
- 45757** RGS, Sta. Rita p. Farroupilha, NEH, in secundariis, 7.2.1950, fl.
- 50396** RGS, S. Marcos p. Caxias, NEH, in dumosis, 24.7.1951, fl.

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Habit: Small shrub, moderately lignified, up to 1 m high; flowers in head on a long, leafless stalk.

Habitat: On dry, somewhat shrubby Campos.

Distribution in RGS: Over the whole southern and western Campos area; apparently absent from the northeastern Highlands.

General distribution: Northeastern Argentina, Uruguay, RGS.

***Abutilon inflatum* Garcke et Schum.,**

FB 12,3 (1891) 401.

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- 29952** RGS, Kappesberg p. Montenegro, NES, in silva rupestri, 22.8.1945, fl., leg. E. Friderichs SJ.
- 30148** RGS, P. Alegre, NEL, culta, 1945, fl., leg. K. Emrich.
- 32762** RGS, Pareci p. Montenegro, NEL, in silva rupestri, 19.9.1945, fl., leg. E. Henz SJ.
- 37529** RGS, Galópolis p. Caxias, NES, in silvula rupestri, 8.9.1948, fl.
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- 42883** RGS, Schwabenschneis p. Nôvo Hamburgo, NES, in silva rupestri, 12.8.1949, fl.
- 42990** RGS, Pareci p. Montenegro, NEL, in silva rupestri, 17.8.1949, fl.
- 47297** RGS, P. Alegre, NEL, cultum, 25.7.1948, fl., leg. K. Emrich.
- 48592** RGS, Kappesberg p. Montenegro, NES, in silva pluviali, 1.9.1949, fl., leg. A. Sehnem SJ 3780.

Habit: Small, slender tree, up to 4 m high.

Habitat: In the interior of the subtropical rain forest, in rocky and more or less open places.

Distribution in RGS: All findplaces in the northeastern sector of the subtropical rain forest belt.

General distribution: South Brazil, RGS.

***Abutilon megapotamicum* St. Hil. et Naud.,**

An. sci. nat. II sér. 18 (?) 49; Schumann, FB 12,3 (1891) 400, tab. 73. — *Sida megapotamica* Spreng., Tent. Suppl. ad Syst. Veg. ed. 16 (?) 19.

- 11125** RGS, Lagoa Vermelha, NEH, in dumosis, 1.1943, fl. nondum evoluto, leg. E. Friderichs SJ.
- 28068** RGS, Vila Oliva p. Caxias, NEH, in dumosis secundariis, 2.1945, fl., leg. P. Buck SJ.
- 33295** RGS, Caracol p. Canela, NEH, in dumosis, 26.2.1946, fl., leg. K. Emrich.
- 35870** RGS, ibidem, 26.2.1947, fl., leg. K. Emrich.
- 40243** RGS, Sta. Rita p. Farroupilha, NEH, in secundariis, 28.1.1949, fl.
- 42502** RGS, ibidem, in araucarieto aperto, 13.7.1949, fl.
- 44993** RGS, Gramado p. Canela, NEH, in araucarieto, 26.12.1949, fl.
- 45757** RGS, Sta. Rita p. Farroupilha, NEH, in secundariis, 7.2.1950, fl.
- 50396** RGS, S. Marcos p. Caxias, NEH, in dumosis, 24.7.1951, fl.

- 51504** RGS, Passo do Socorro p. Vacaria, NEH, in araucarieto, 26.12.1951, fl.
51902 RGS, Passo da Guarda p. Bom Jesus, NEH, in araucarieto, 15.1.1952, fl.
59652 RGS, Farroupilha, NEH, in dumosis, 1.9.1957, fl., leg. O. Camargo 732.
62316 RGS, ibidem, 12.9.1957, fl., leg. O. Camargo 1699.

Habit: Shrub with long, slender, leaning branches, up to 3 m long.

Habitat: Edge of the Araucaria forest, secondary growth.

Distribution in RGS: All findplaces from the northeastern Araucaria zone. Geographical novelty.

General distribution: South Brazil, RGS.

Abutilon molle (Ort.) Sweet,

Hort. Brit. ed. 2, Vol. 1 (1830) 65; Herter, Flor. Urug. (1930) 85. —
 A. mollissimum Sweet, Hort. Brit. ed. 1, Vol. 1 (?) 53; Schumann, FB 12,3 (1891) 403.

- 208** RGS, Vila Manresa p. P. Alegre, NEL, ad rivum in silva, 19.10.1932, fl.
3820 RGS, Bohnental p. Caí, NES, ad silvam, 4.1.1941, fl.
4944 RGS, Sta. Clara p. Lageado, CS, in secundariis, 18.11.1940, ster.
7604 RGS, S. Leopoldo, NEL, in silva campestri, 1907, fl., leg. F. Theissen SJ.
9536 RGS, Jari p. Tupanciretan, NWH, in silvula campestri, 27.1.1942, ster.
11124 RGS, Marcelino Ramos ad fl. Uruguay, NWU, ad silvam in dumosis, 1.1943, fl., leg. E. Friderichs SJ.
11912 RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 1943, fl.
25211 RGS, S. Leopoldo, NEL, ad silvam in dumosis, 1907, fl., leg. F. Theissen SJ.
26577 RGS, Pareci p. Montenegro, NEL, ad silvam pluvialem, 1944, fl., leg. E. Henz SJ.
26753 RGS, Cêro Largo p. S. Luiz, NWH, ad silvam, 10.1944, fl., fr., leg. E. Friderichs SJ.
27239 RGS, Vila Manresa p. P. Alegre, NEL, in silvula, 10.1944, fl., fr.
27624 RGS, Pareci p. Montenegro, NEL, in dumosis secundariis, 1944, fl., leg. E. Henz SJ.
29014 RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 15.8.1945, fl.
29443 RGS, ibidem, 4.10.1945, fl., fr.
29530 RGS, Sapucaia p. S. Leopoldo, NEL, in dumosis, 5.9.1945, fl., fr.
29653 RGS, Pareci p. Montenegro, NEL, ad silvam in dumosis, 26.9.1945, fl., leg. E. Henz SJ.

- 29971** RGS, Kappesberg p. Montenegro, NES, in secundariis, 1945, fl., leg. E. Friderichs SJ.
- 30062** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 6.1945, fl., fr.
- 33475** RGS, S. Leopoldo, NEL, ad silvam campestem, 25.7.1946, fl., leg. C. Ritter SJ.
- 33838** RGS, Sta. Maria, CS, in secundariis, 6.1946, fl., leg. R. Beltrão.
- 36079** RGS, Campinas p. Sta. Rosa, NWH, ad silvam, 2.1947, fl., leg. A. Spies.
- 37450** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 11.8.1948, fl.
- 37547** RGS, Galópolis p. Caxias, NES, in secundariis, 8.9.1948, fl.
- 39232** RGS, Morro do Sabiá p. P. Alegre, NEL, in silvula riparia, 28.12.1948, fr.
- 41813** RGS, Canoas p. P. Alegre, NEL, in silvula, 3.6.1949, fl.
- 42043** RGS, Sapucaia p. S. Leopoldo, NEL, ad silvam in dumosis, 18.6.1949, fl., fr.
- 42220** RGS, Steinkopf p. S. Leopoldo, NEL, in silvula campestri, 28.6.1949, fl., fr.
- 42398** RGS, ad montem Ferrabraz p. Nôvo Hamburgo, NEL, ad silvam in secundariis, 5.7.1949, fl.
- 42559** RGS, Pareci p. Montenegro, NEL, ad silvam, 18.7.1949, fl.
- 42802** RGS, Cristal p. P. Alegre, NEL, in silvula, 8.8.1949, fl.
- 42878** RGS, Schwabenschneis p. Nôvo Hamburgo, NES, in secundariis, 12.8.1949, fl.
- 42899** RGS, ibidem, ad silvam, 12.8.1949, fl.
- 43025** RGS, ibidem, ad silvam, 22.8.1949, fl.
- 43209** RGS, ad montem Ferrabraz p. Nôvo Hamburgo, NEL, ad silvam pluvialem, 2.9.1949, fl.
- 43756** RGS, Morro do Sabiá p. P. Alegre, NEL, in silvula riparia, 5.10.1949, fl., fr.
- 48672** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 31.7.1950, fl.
- 48707** RGS, Sapucaia p. S. Leopoldo, NEL, in dumosis, 7.9.1950, fl.
- 49116** RGS, Butterberg p. Montenegro, NES, ad silvam, 13.11.1950, fl., fr.
- 49825** SC, Itapiranga ad fl. Uruguay superius, ad silvam, 6.2.1951, fl.
- 50279** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 7.6.1951, fl.
- 51286** RGS, Pôrto Alegre, NEL, in silvula campestri, 1950, fl., fr., leg. G. C. Leal.
- 53208** RGS, Cêrro Largo p. S. Luiz, NWH, in secundariis, 20.11.1952, fl.
- 53264** RGS, ibidem, ad rivulum, 20.11.1952, fl., fr.
- 57388** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 18.9.1955, fl.
- 57725** RGS, Pestana p. Ijuí, NWH, ad silvam, 5.11.1953, fl., fr., leg. J. Pivetta 887.
- 61179** SC, Itapiranga ad fl. Uruguay superius, ad silvam, 7.10.1957, fr.

- 61274** RGS, Pelotas, SEC, ad silvam, 21.11.1957, fl., leg. J. Sacco 700.
63363 RGS, ibidem, in secundariis, 17.3.1955, fl., fr., leg. J. Sacco 327.
63671 RGS, Pôrto Alegre, NEL, ad silvam, 25.6.1958, fl., leg. O. Camargo.

Habit: Shrub, moderately lignified, abundantly branched, up to 3 m high.

Habitat: Very frequent at the edge of the rain forest and in secondary growth.

Distribution in RGS: All over the forested area of the State. Geographical novelty.

General distribution: From Peru and Paraguay to RGS and Uruguay.

Abutilon pauciflorum St. Hil.,

Fl. Bras. Merid. 1 (1827) 161; Schumann, FB 12,3 (1891) 404; Ekman, Ark. f. Bot. 13, n. 14 (1913) 2; Herter, Flor. Urug. (1930) 85.

- 2752** RGS, S. Leopoldo, NEL, in dumosis, 9.9.1936, fl.
7611 RGS, ibidem, 1907, fr., leg. F. Theissen SJ.
7612 RGS, ibidem, 1907, ster., leg. F. Theissen SJ.
10191 RGS, Caixa d'água p. P. Alegre, NEL, in campestribus dumosis, 25.12.1941, fl., fr., leg. K. Emrich.
25034 RGS, S. Leopoldo, NEL, in campestribus dumosis, 1907, fl., fr., leg. F. Theissen SJ.
29465 RGS, Sapucaia p. S. Leopoldo, NEL, in campestribus sabulosis dumosis, 5.9.1945, fl., fr.
35366 RGS, S. Leopoldo, NEL, in dumosis, 10.10.1946, fl., fr., leg. E. Henz SJ.
35387 RGS, ibidem, 2.10.1946, fl., leg. E. Henz SJ.
58203 RGS, Sapucaia p. S. Leopoldo, NEL, in dumosis, 22.11.1948, fl., fr.
39741 RGS, Pareci p. Montenegro, NEL, in dumosis, 14.1.1949, fl.
40487 RGS, Vila Manresa p. P. Alegre, NEL, in dumosis, 14.3.1949, fl., fr.
40872 RGS, Granja Neugebauer p. Itapoan, NEL, in dumosis 3.4.1949, fr.
41268 RGS, ad fl. Caí inferius p. P. Alegre, NEL, in alte dumosis, 27.4.1949, fl., fr.
41654 RGS, S. Leopoldo, NEL, in dumosis, 21.5.1949, fl.
41744 RGS, Fião p. S. Leopoldo, NEL, in dumosis, 29.5.1949, fl.
42412 RGS, Pareci p. Montenegro, NEL, in secundariis, 7.7.1949, fr.
43889 RGS, ad fl. Caí inferius p. P. Alegre, NEL, in dumosis, 12.10.1949, fl., fr.
44113 RGS, Barreto Vianna p. S. Leopoldo, NEL, in campestribus dumosis, 24.10.1949, fl., fr.
44265 RGS, Sapucaia p. S. Leopoldo, NEL, in dumosis, 5.11.1949, fl., fr.
44433 RGS, Granja Neugebauer p. Itapoan, NEL, in campestribus dumosis, 19.11.1949, fl., fr.

- 57108** RGS, Esteio p. S. Leopoldo, NEL, ad silvam, 14.11.1955, fl.
63321 RGS, Pelotas, SEC, in dumosis, 11.12.1957, fl., leg. J. Sacco 823.
63748 RGS, ibidem, 6.2.1958, fl., fr., leg. J. Sacco 897.
63948 RGS, ibidem, 1.3.1953, fl., fr.

Habit: Although very similar to the precedent, it can be distinguished at first sight by its poor inflorescences and the reddish violaceous color of the flowers.

Habitat: Edge of the forest, secondary growth.

Distribution in RGS: Less frequent than the precedent, but over the whole of the southern forested area. — Geographical novelty.

General distribution: From Bahia to Uruguay.

Abutilon rivulare St. Hil.,

Flor. Bras. Merid. 1 (1827) 158; Schumann, FB 12,3 (1891) 375, tab. 68; Ekman, Ark. F. Bot. 9, n. 4 (1909) 22; Herter, Flor. Urug. (1930) 85.

- 4057** Uruguay, Tres Fornos p. Rivera, in dumosis, 12.1.1941, fl.
28708 RGS, Caracol p. Canela, NEH, in dumosis, 3.1945, fl., fr., leg. K. Emrich.
33331 RGS, ibidem, 22.2.1946, fl., fr., leg. K. Emrich.
34566 RGS, Fazenda da Ronda p. Vacaria, NEH, in campestribus sub-dumosis, 30.12.1946, fl., fr.
38989 RGS, Steinkopf p. S. Leopoldo, NEL, in campestribus dumosis, 20.12.1948, fl., fr.

Habit: Erect, moderately lignified, up to 1 m high, sparingly branched; at first sight similar to *Pavonia hastata* Cav.

Habitat: On dry Campos.

Distribution in RGS: Findplaces widely separated; apparently rare. — Geographical novelty.

General distribution: Northeastern Argentina, RGS, Uruguay.

Abutilon striatum Dicks.,

in Lindl. Misc. Not. 1830, 39; Schumann, FB 12,3 (1891) 426; Ekman, Ark. f. Bot. 9, n. 4 (1909) 24; idem, Ark. f. Bot. 13, n. 14 (1913) 3; Bornmüller, Rev. Sud. Bot. 1 (1934) 162.

- 1320** RGS, S. Leopoldo, NEL, cultum 4.12.1922, fl.
1333 SC, Itapiranga ad fl. Uruguay superius, in silva pluviali, 15. 2.1934, fl.
1334 SC, ibidem, in silva rupestri, 14.2.1934, fl.
11131 RGS, Cêrro Largo p. S. Luiz, NWH, in silva pluviali saxosa, 1. 1943, fl., leg. P. Buck SJ.
26697 RGS, ibidem, in silva, 8.1944, fl., leg. E. Friderichs SJ.
28250 RGS, Nonoai ad fl. Uruguay superius, NWU, in silva pluviali, 3.1945, fl.

- 31858** SC, Sombrio p. Araranguá, in silva rupestri, 15.9.1945, fl., leg. R. Reitz 1209.
36023 RGS, Campinas p. Sta. Rosa, NWH, in silva, 2.1947, fl., leg. A. Spies.
47312 RGS, ibidem, in silva rupestri, 1950, fl., leg. A. Spies.
49906 SC, Itapiranga ad fl. Uruguay superius, in silva saxosa, 6.2.1951, fl.
53058 RGS, Cêro Largo p. S. Luiz, NWH, in secundariis, 20.11.1952, fl.
57748 RGS, Pestana p. Ijuí, NWH, in silva, 5.7.1953, fl., leg. J. Pivetta 894.

Habit: Very much similar to, but by the flowers easily distinguishable from, *A. inflatum* Garcke et Schum.

Habitat: Interior of the rain forest, preferably in rocky places.

Distribution in RGS: Common in the rain forest of the great bend of River Uruguay, rare in the East.

General distribution: From Paraná and Misiones to RGS.

Abutilon sp.,

affine *mülleri-friderici* Garcke et Schumann.

- 2292** RGS, Kappesberg p. Montenegro, NES, in silva rupestri, 21.12.1935, fl.
9020 RGS, Bom Jesus, NEH, ad sepem, 16.1.1942, fl.
11701 RGS, Gramado, NEH, in dumosis, 7.10.1943, fl. nondum aperto, leg. I. Steidle.
29707 RGS, Kappesberg p. Montenegro, NES, in silva rupestri, 25.9.1945, fl., leg. A. Bruxel SJ.
31881 SC, Sombrio p. Araranguá, in silvula, 19.9.1945, fl., leg. R. Reitz 1232.
32920 RGS, Kappesberg p. Montenegro, NES, in silvula secundaria, 10.10.1945, fl., leg. E. Friderichs SJ.
35705 RGS, S. Leopoldo, NEL, in silvula, 20.11.1946, ster., leg. E. Henz SJ.
35758 RGS, Kappesberg p. Montenegro, NES, in silva rupestri, 27.11.1946, fl., leg. E. Henz SJ.
37543 RGS, Galópolis p. Caxias, NES, in secundariis, 8.9.1948, fl.
42355 RGS, ad montem Ferrabraz p. Nôvo Hamburgo, NEL, in silva rupestri, 5.7.1949, fl.
43391 RGS, Kappesberg p. Montenegro, NES, in silvula rupestri, 11.9.1949, fl.
47231 RGS, ibidem, in secundariis, 4.7.1950, fl.
52197 RGS, ibidem, in silva rupestri, 11.1.1951, fl.
52961 RGS, Canela, NEH, in araucarieto, 9.9.1952, fl.
55537 SC, Brusque, in dumosis, 10.10.1949, fl., leg. R. Reitz 5145, det. (cum?) Kearney.

59604 RGS, Farroupilha, NEH, ad rivulum in dumosis, 28.9.1956. fl., leg. O. Camargo 811.

57722 RGS, Pestana p. Ijuí, NWH, ad silvam, 19.10.1955, fl., leg. J. Pivetta 884.

62811 RGS, Garibaldi, NEH, in dumosis secundariis, 29.10.1957, fl., leg. O. Camargo 2311.

62832 RGS, Farroupilha, NEH, in secundariis, 12.11.1957, fl., leg. O. Camargo 2512.

Habit: Small tree, well branched, up to 5 m high and 15 cm thick; flowers yellow, 6 cm long.

Habitat: Rocky places in the interior of the rain forest without large trees; edge of the forest, secondary growth.

Distribution in RGS: Frequent over the whole of the northern rain forest area of the State.

General distribution: At least in Sta. Catarina and RGS.

ANODA Cav.

Anoda cristata (L.) Schl.

Linnaea 11 (1837) 210; Hassler, Ostenia (1933) 339; Pilar Rodrigo, Malv. Bonaer. 1937, 28, fig. 13. — *Sida cristata* L., Spec. Plant. (1753) 685. — *Anoda triangularis* (Willd.) DC. Prodr. 1 (1824) 459; Schumann, FB 12,3 (1891) 358.

60770 RGS, Uruguiana, SW, in incultis, 1957, fl., fr., leg. A. Spies.

Habit: Branched from the base, branches prostrate to ascending, up to 50 cm long.

Habitat: Apparently on cultivated soil.

Distribution in RGS: One only findplace at the southwestern frontier. — Geographical novelty.

General distribution: From Bolivia to Chile, Argentina, Uruguay and RGS.

GAYA H. B. K.

Gaya pilosa Schum.,

FB 12,3 (1892) 355, tab. 64, fig. 1; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 40.

202 RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in campestribus dumosis, 17.6.1933, fl., fr.

1324 RGS, ibidem, 5.12.1922, fl., fr.

2792 RGS, Kappesberg p. Montenegro, NES, in secundariis, 21.12.1935, fl.

- 11661** RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in arenosis siccis dumosis, 9.1943, fl.
29535 RGS, ibidem, 5.9.1945, fl.
33469 RGS, ibidem, 25.7.1946, fl., fr., leg. E. Henz SJ.
37346 RGS, ibidem, 10.11.1948, fl., fr.
37914 RGS, ibidem, 11.11.1948, fl., fr.
40781 RGS, ibidem, 1.4.1949, fl., fr.
42078 RGS, ibidem, 18.6.1949, fl., fr.
42610 RGS, Pareci p. Montenegro, NEL, ad viam ferream in arenosis dumosis, 18.7.1949, fl., fr.
42752 RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in campestribus dumosis, 5.8.1949, fl., fr.
43258 RGS, Estação Azevedo p. Montenegro, NEL, in secundariis, 5.9.1949, fl., fr.
44274 RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in dumosis subsiccis, 5.11.1949, fl.
44811 RGS, S. Francisco de Paula, NEH, in campestribus dumosis, 18. 12.1949, fl.
48703 RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in arenosis dumosis, 7.9.1950, fl.

Habit: Slender shrub, sparingly branched, up to 2 m high.

Habitat: Preferably in dry, sandy, shrubby places.

Distribution in RGS: Locally (Mount Sapucaia) very common; the other findplaces are less than 100 km distant in northeastern direction. — Geographical novelty.

General distribution: From Minas Gerais and S. Paulo to RGS.

HIBISCUS L.

Hibiscus amoenus Link et Otto,

lc. Plant. select. (?) tab. 56; Gürke, FB 12,3 (1892) 552; Fries, Kungl. Sv. Ak. Handl. 42, n. 12 (1907) 41; Herter, Flor. Urug. (1930) 85.

198 RGS, Lagoa dos Barros p. Osório, NEC, ad litus lacustre in dumosis, 13.2.1932, fl., fr.

3231 SC, Florianópolis, in humidis dumosis, 6.1938, fl., fr.

26380 RGS, Fazenda das Almas p. Palmares, NEL, in silvula subpaludosa, 1.1945, fl., fr., leg. P. Buck SJ.

28676 RGS, ad fl. Guaíba p. P. Alegre, in subpaludosis dumosis, 31.1.1945, fl., fr., leg. K. Emrich.

30554 SC, Sombrio p. Araranguá, ad litus lacustre in dumosis, 2.6.1944, fl., fr., leg. R. Reitz 1159.

31633 SC, ibidem, 6.2.1946, fl., fr.

44761 RGS, Lagoa dos Barros p. Osório, NEC, ad lacum, 14.12.1949, fl.

46028 RGS, Lagoa dos Quadros p. Torres, NEC, ad litus, 21.2.1950, fl., fr.

48766 RGS, Osório, NEC, in subpaludosis dumosis, 11.9.1950, fl.

51007 RGS, Lagoa dos Quadros p. Torres, NEC, ad litus lacustre in dumosis, 19.1.1951, fl., fr., leg. A. Sehnem SJ 5603.

Habit: Shrub to small tree, abundantly branched, up to 4 m high.

Habitat: Bush wood at the banks of the lakes.

Distribution in RGS: Northeastern Lowlands and sea coast only.

General distribution: Rio Grande do Sul, Sta. Catarina and Uruguay.

Hibiscus cisplatinus St. Hil.,

Flor. Bras. Merid. 1 (1827) 250; Gürke, FB 12,3 (1892) 550; Herter, Flor. Urug. (1930) 85; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 7 (1948) 137, fig. 9—14.

1329 SC, Itapiranga ad fl. Uruguay superius, ad flumen in dense dumosis, 15.2.1934, fl.

28192 RGS, Nonoai ad fl. Uruguay superius, NWU, ad flumen in dumosis, 3.1945, fl., fr.

38336 RGS, Esteio p. S. Leopoldo, NEL, in paludosis dumosis, 24. 11.1948, fl., fr.

63320 RGS, Pelotas, SEC, in paludosis, 2.12.1957, fl., leg. J. Sacco.

Habit: Shrub, up to 3 m high.

Habitat: River banks, swampy bush.

Distribution in RGS: Large rivers and Lowlands only, widely scattered. — Geographical novelty.

General distribution: From Minas Gerais and Paraguay to Uruguay and B. Aires.

Hibiscus selloi Gürke,

FB 12,3 (1892) 553, tab. 109, fig. 2; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 7 (1948) 129, fig. 5, 6, 13.

2085 RGS, S. Leopoldo, NEL, in paludosis dumosis, 5.6.1935, fl.

25851 RGS, Fazenda Sta. Cecília p. S. Gabriel, SW, in paludosis dumosis, 1.1944, fl., fr.

31491 SC, Sombrio p. Araranguá, in paludosis dumosis, 2.2.1946, fl.

38691 RGS, Rio dos Sinos p. S. Leopoldo, NEL, in paludosis, 10. 12.1948, fl.

41132 RGS, Ilha da Pintada p. P. Alegre, NEL, in paludosis, 20.4. 1949, fl.

41202 RGS, Ilha das Flores p. P. Alegre, NEL, in paludosis, 22.4. 1949, fl.

41252 RGS, S. Leopoldo, NEL, in paludosis dense dumosis, 27.4. 1949, fl., leg. A. Spies.

Habit: Very similar to the precedent species.

Habitat: Same places as the precedent.

Distribution in RGS: Apparently restricted to the central and southern Lowlands, not frequent.

General distribution: Salta, Misiones, RGS.

Hibiscus tiliaceus L.,

Spec. Plant. (1753) 976; Gürke, FB 12,3 (1892) 567.

3233 SC, Florianópolis, in rhizophoreto, 27.12.1938, fl., leg. A. Sehnem SJ.

3339 SC, ibidem, 6.1938, fl., fr.

6425 SC, ibidem, 6.1938, ster.

30555 SC, Sombrio p. Araranguá, ad flumen Mampituba in humidis dumosis, 18.5.1944, leg. R. Reitz, ster.

36916 Paraná, Rio Itabiré p. Paranaguá, ad flumen in humidis, 21.1.1948, fl., leg. G. Hatschbach 858.

54353 SC, Praia Braba p. Itajaí, in rhizophoreto, 10.2.1950, fl., leg. R. Reitz 5060, det. Kearney (var. *pernambucensis* (Berol.) Johnst.)

Habit: Shrub, up to 4 m high: flower yellow, dry green.

Habitat: Mangrove formation.

Distribution in RGS: The southernmost findplace ever mentioned for this species is the northeastern frontier river Mampituba. — Geographical novelty.

General distribution: From Florida and the Antilles to RGS; tropical Africa, Asia, and Australia.

MALVA L.

Malva parviflora L.,

Amoenitates 3 (1756) 416; Schumann, FB 12,3 (1891) 263; Herter, Flor. Urug. (1930) 85; Pilar Rodrigo, Malv. Bonaer. (1937) 18, fig. 4, f.

1905 RGS, S. Leopoldo, NEL, in incultis, 15.5.1935, fl.

27653 RGS, Pareci p. Montenegro, NEL, in agro, 1944, fl., leg. E. Henz SJ.

28617 RGS, Nonoai ad fl. Uruguay superius, NWU, in incultis, 3.1945, fl.

29249 RGS, Vila Manresa p. P. Alegre, NEL, in incultis, 10.10.1945, fl.

31341 RGS, Vila Oliva p. Caxias, NEH, in incultis, 25.2.1946, fl., fr.

62393 RGS, Farrroupilha, NEH, in agro, 18.9.1957, fl., leg. O. Camargo 1772.

63134 RGS, Uruguaiana, SW, in incultis, 1957, fl., leg. A. Spies.

63191 RGS, ibidem, 1957, leg. A. Spies.

Habit: Herbaceous, decumbent, branches in rosette.

Habitat: Always on disturbed soil.

Distribution in RGS: European weed, widely scattered over the whole of the cultivated area. — Geographical novelty.

General distribution: From Europe over the most of subtropical and temperate America.

Malva silvestris L.,

Spec. Plant. (1753) 689; Schumann, FB 12,3 (1891) 264; Herter, Flor. Urug. (1930) 85; Pilar Rodrigo, Malv. Bonaer. (1937) 18, fig. 4 e, 8.

2757 RGS, S. Leopoldo, NEL, in incultis, 1.12.1936, fl., fr.

Habit: Herbaceous, erect.

Habitat: On disturbed soil only.

Distribution in RGS: Rare. — Geographical novelty.

General distribution: From Europe through most of subtropical and temperate America.

MALVASTRUM A. Gr.

Malvastrum coromandelianum (L.) Garcke,

Bonplandia 1857, 295; Schumann, FB 12,3 (1892) 268, tab. 53; Ekman, Ark. f. Bot. 9, n. 4 (1909) 5; Pilar Rodrigo, Malv. Bonaer. (1937) 21, fig. 4 h, 10 a. — *Malva coromandeliana* L., Spec. Plant. (1753) 687.

2750 RGS, Sapucaia p. S. Leopoldo, NEL, in arenosis, 8.7.1936, fl., fr.

2952 RGS, S. Borja, SW, in incultis, 1943, ster., leg. F. Baglione.

3689 RGS, Piedade p. Montenegro, NES, ad viam, 23.12.1940, fl., fr.

3768 RGS, Beckersberg p. Feliz, NES, ad viam in tritico, 4.1.1941, fl., fr.

3801 RGS, Bohmental p. Caí, NES, in pascuo, 4.1.1941, fl., fr.

3805 RGS, ibidem, 4.1.1941, fl., fr.

6521 RGS, Sta. Clara p. Lageado, CL, ad viam in incultis, 18.11.1940, fl.

6639 RGS, Teutonia p. Estrela, NEL, in incultis, 16.11.1940, fl.

7599 RGS, S. Leopoldo, NEL, in pascuo, 1907, fl., fr., leg. F. Theissen SJ.

8296 RGS, Vila Manresa p. P. Alegre, NEL, in incultis, 19.1.1942, fl., fr.

9608 RGS, Tupanciretan, NWH, in incultis, 21.1.1942, fl., fr.

10196 RGS, Montserrat p. P. Alegre, NEL, in incultis, 24.2.1942, fl., fr., leg. K. Emrich.

11123 RGS, Marcelino Ramos ad fl. Uruguay superius, NWU, ad viam, 1.1943, fl., fr., leg. E. Friderichs SJ.

- 11130** RGS, Cêrro Largo p. S. Luiz, NWH, in incultis, 1.1943, fl., fr., leg. P. Buck SJ.
- 27192** RGS, Vila Manresa p. P. Alegre, NEL, in pascuo, 10.1944, fl., fr.
- 27676** RGS, Pareci p. Montenegro, NEL, in siccis graminosis, 10.1944, fl., fr., leg. E. Henz SJ.
- 28595** RGS, Nonoi ad fl. Uruguay superius, NWU, in incultis, 3.1945, fl., fr.
- 29329** RGS, Vila Manresa p. P. Alegre, NEL, ad viam in tritis, 26.10.1945, fl., fr.
- 31415** SC, Sombrio p. Araranguá, in duris siccis, 31.1.1946, fl., fr.
- 33496** RGS, S. Leopoldo, NEL, in incultis siccis, 17.7.1946, fl., fr., leg. E. Henz SJ.
- 38068** RGS, Vila Manresa p. P. Alegre, NEL, in incultis, 17.11.1948, fl., fr.
- 41282** RGS, Morro de Sta. Teresa p. P. Alegre, NEL, in siccis dense graminosis, 29.4.1949, fl., fr.
- 41354** RGS, Morretes p. P. Alegre, NEL, in arenosis subdumosis siccis, 2.5.1949, fl., fr.
- 41592** RGS, ad montem Ferrabraz p. Nôvo Hamburgo, NEL, in secundariis, 16.5.1949, fl., fr.
- 42185** RGS, Schwabenschneis p. Nôvo Hamburgo, NES, ad viam in secundariis, 25.6.1949, fl., fr.
- 43890** RGS, ad flumen Caí inferius p. P. Alegre, NEL, ad viam ferream in secundariis, 12.10.1949, fl., fr.
- 46406** RGS, Gramado p. Canela, NEH, ad viam in dumosis, 20.3.1950, fl., fr.
- 47064** RGS, Vila Manresa p. P. Alegre, NEL, in incultis, 15.5.1950, fl., fr.
- 47803** RGS, Forromeco p. Feliz, NES, ad viam, 15.11.1949, fl., fr., leg. A. Sehnem SJ 4054.
- 49935** SC, Itapiranga ad fl. Uruguay superius, ad viam in tritis, 6.2.1951, fl., fr.
- 57857** RGS, Pestana p. Ijuí, NWH, in incultis, 22.10.1953, fl., fr., leg. J. Pivetta 880.

Habit: Moderately lignified, tough, fibrous, up to 75 cm high.

Habitat: Apparently on modified soil only.

Distribution in RGS: Over the whole of the cultivated area. — Geographical novelty.

General distribution: From Bahia and Paraguay to B. Aires and RGS.

MODIOLA Mnch

Modiola caroliniana (L.) G. Don,

Gen. Syst. 1 (1831) 466; Schumann, FB 12,3 (1892) 454; Herter, Flor.

Urug. (1930) 85; Cabrera, Fl. Alred. B. Aires (1953) 306. — *Malva caroliniana* L., Spec. Plant. (1753) 688.

25842 RGS, Fazenda Sta. Cecilia p. S. Gabriel, SW, in incultis, 1. 1944, fl., fr.

35632 RGS, Kappesberg p. Montenegro, NES, in agro, 20.12.1946, fl., fr., leg. E. Henz SJ.

62778 RGS, Farroupilha, NEH, in incultis, 12.11.1957, fl., fr., leg. O. Camargo 2509.

Habit: Herbaceous, prostrate to ascending.

Habitat: On modified soil only.

Distribution in RGS: Apparently rare.

General distribution: From USA to Uruguay and B. Aires.

***Modiola jaeggiana* (Schum.) Schum.,**

NP Nachtr. 1 (1897) 237; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 32. — *Modiolastrum jaeggianum* Schum., FB 12,3 (1891) 278, tab. 5 4; Herter, Flor. Urug. (1930) 86.

1318 RGS, Vila Manresa p. P. Alegre, NEL, in agro, 16.7.1932, fl.

2166 RGS, S. Leopoldo, NEL, in incultis, 16.11.1935, fl., fr.

7607 RGS, ibidem, 1907, fl., fr., leg. F. Theissen SJ.

29365 RGS, Vila Manresa p. P. Alegre, NEL, in agro, 3.11.1945, fl., fr.

38330 RGS, Esteio p. S. Leopoldo, NEL, in ruderatis, 24.1.1948, fl., fr.

43811 RGS, Pareci p. Montenegro, NEL, in incultis, 7.10.1949, fl., fr.

43828 RGS, ibidem, in agro, 7.10.1949, fl., fr.

43912 RGS, ad fl. Cai inferius p. P. Alegre, NEL, ad viam ferream in tritis, 12.10.1949, fl.

57166 RGS, Esteio p. Canoas, NEL, in incultis, 11.11.1955, fl., fr.

57746 RGS, Pestana p. Ijuí, NWH, in incultis, 5.11.1953, fl. leg. J. Pivetta.

57749 RGS, ibidem, 5.11.1953, fl., fr., leg. J. Pivetta 891.

61155 SC, Lages, in incultis, 25.12.1956, fl., leg. J. Mattos.

Habit: Herbaceous, erect, up to 1 m high.

Habitat: On disturbed soil only.

Distribution in RGS: Common weed throughout the whole of the cultivated area. — Geographical novelty.

General distribution: Northeastern Argentina, Uruguay, RGS, but apparently not native here.

***Modiola malvifolia* Gris.,**

Symb. Flor. Arg. (1879) 45. Herter, Flor. Urug. (1930) 85. — *Modiolastrum malvifolium* (Gris.) Schum., FB 12,3 (1892) 22; Fries, Ark. f. Bot. 6, n. 2 (1906) 7; Pilar Rodrigo, Malv. Bonaer. (1937) 19, fig. 4 k,

9 b; Cabrera, Fl. Alred. B. Aires (1953) 310; Bornmüller, Rev. Sudam. Bot. 1 (1934) 163.

30929 RGS, Vila Oliva p. Caxias, NEH, in campestribus graminosis siccis, 2.1.1946, fl., fr.

34588 RGS, Fazenda da Ronda p. Vacaria, NEH, in campestribus subdumosis, 30.12.1946, fl., fr.

51472 RGS, Passo do Socorro p. Vacaria, NEH, in subdumosis, 26.12.1951, fl., fr.

Habit: Herbaceous, prostrate to ascending, very small specimens erect.

Habitat: On dry, grassy, more or less shrubby, Campos.

Distribution in RGS: Northeastern Highlands only, apparently rare.

General distribution: Paraguay and Paraná to RGS, Uruguay and northeastern Argentina.

MONTEIROA Krap.,

Bol. Soc. Arg. Bot., Vol. 3, n. 4 (1951) 235.

Monteiroa bullata (Ekm.) Krap.,

Bol. Soc. Arg. Bot. Vol. 3 (1951) 242, fig. 2, a. — *Malvastrum bullatum* Ekm., Ark. f. Bot. 13, n. 14 (1913) 6, tab. 1, fig. 1.

8504 RGS, Rio dos Touros p. Bom Jesus, NEH, in paludosis alte dumetosis, 13.1.1952, ster.

8515 RGS, ibidem, 13.1.1942, fl., fr.

8638 RGS, Bom Jesus, NEH, in humidis dumosis, 14.1.1942, fl., det. Krapovickas.

34556 RGS, Fazenda da Ronda p. Vacaria, NEH, in paludosis alte dumosis, 29.12.1946, fl., fr., det. Krapovickas.

36598 RGS, Cambará p. S. Francisco de Paula, NEH, in paludosis dumosis, 2.1948, fl., fr.

48367 SC, Campo dos Padres p. Bom Retiro, in paludosis dumosis, 17.12.1948, fl., fr., leg. R. Reitz 3413.

49317 RGS, Taimbêsinho p. S. Francisco de Paula, NEH, in paludosis dumosis, 18.12.1950, fl., fr.

50205 RGS, Caracol p. Canela, NEH, 5.2.1951, fr., leg. K. Emrich.

52050 RGS, Jaquirana p. S. Francisco de Paula, NEH, in palude dumosa, 20.2.1952, fl., fr.

54540 RGS, Taimbêsinho p. S. Francisco de Paula, NEH, in paludosis dumosis, 13.11.1953, fl.

56345 RGS, Fazenda Englert p. S. Francisco de Paula, NEH, in palude dense dumosa, 2.1.1955, fl., fr.

56424 RGS, ibidem, in paludosis, 2.1.1955, fl.

60136 SC, Campo dos Padres p. Bom Retiro, in paludosis dumosis, 23.1.1957, fl., fr.

63653 RGS, Farroupilha, NEH, in paludosis dumosis, 15.5.1958, fl., leg. O. Camargo.

Habit: Shrub, densely but shortly branched, leaves dark green.

Habitat: Swamps with dense shrub vegetation.

Distribution in RGS: Northeastern Highlands only.

General distribution: From Paraná to RGS.

Monteiroa glomerata (Hook. et Arn.) Krap.,

Bol. Soc. Arg. Bot. 3 (1951) 239, fig. 1 a, 2 c — *Malvastrum glomeratum* (Hook. et Arn.) Gris., *Symbolae Fl. Argent.* (1879) 42. — *Malva glomerata* Hook. et Arn., *Bot. Misc.* 3 (1833) 151. — *Malvastrum garckeianum* K. Schum. *FB* 12,3 (1892) 267, tab. 52, fig. 1; Herter, *Flor. Urug.* (1930) 85; Fries. *Kungl. Sv. Vet. Ak. Handl.* 42, n. 12 (1907) 32; Pilar Rodrigo, *Malv. Bonaer.* (1937) 21, fig. 4 g, 10 b.

28721 RGS, Caracol p. Canela, NEH, in humidis dumosis, 7.3.1945, ster., leg. K. Emrich.

28816 RGS, ibidem, in dumosis subhumidis, 18.3.1945, ster., leg. K. Emrich.

30925 RGS, Vila Oliva p. Caxias, NEH, ad rivum in dumosis, 2.1.1946, ster.

32862 RGS, Caracol p. Canela, NEH, in humidis dumosis, 1.1.1946, fl, leg. H. Häusler.

34561 RGS, Fazenda da Ronda p. Vacaria, NEH, in humidis, 30.12.1946, fl.

35880 RGS, Caracol p. Canela, NEH, in humidis dumosis, 11.2.1947, fl., fr., Leg. K. Emrich.

36591 RGS, Cambará p. S. Francisco de Paula, NEH, in dumosis humidis, 2.1948, ster.

44618 RGS, Vila Oliva p. Caxias, NEH, ad rivum in dumosis, 3.12.1940, fr.

44979 RGS, Gramado p. Canela, NEH, in paludosis dumosis, 26.12.1949, fr.

47855 RGS, Campestre p. Montenegro, NEH, ad rivum in dumosis, 18.10.1946, fl., leg. A. Sehnem 2238, det. Krapovickas.

50726 SC, Campo dos Padres p. Bom Retiro, in dumosis humidis, 15.12.1948, fl., fr., leg. R. Reitz 2336, det. H. Monteiro.

52818 RGS, Caracol p. Canela, NEH, in dumosis humidis, 20.1.1953, fr. maturo, leg. K. Emrich.

55933 RGS, Taimbêsinho p. S. Francisco de Paula, NEH, in dumosis paludosis, 3.11.1954, fl.

59489 RGS, Farroupilha, NEH, in dumosis, 22.10.1956, fl., fr., leg. O. Camargo 829.

59498 RGS, ibidem, in dumosis, 24.9.1956, fl., leg. O. Camargo 766.

62165 RGS, ibidem, in dumosis humidis, 4.10.1957, fl., leg. O. Camargo 1873.

62196 RGS, ibidem, in humidis, 4.10.1957, fl., fr., leg. O. Camargo 1899.

62814 RGS, Garibaldi, NEH, in dumosis subpaludosis, 29.10.1957, fl., fr., leg. O. Camargo 2318.

Habit: Shrub with long, slender branches, leaning to the neighboring vegetation, or prostrate, up to 3 m long.

Habitat: Swamp with dense shrub vegetation.

Distribution in RGS: Northeastern Highlands only.

General distribution: From Sta. Catarina to Uruguay and northeastern Argentina.

Monteiroa ptarmicifolia (St. Hil. et Naud.) Krap.,

Bol. Soc. Arg. Bot. 3 (1951) 243, fig 1 b, 2 b. — *Malva ptarmicifolia* St. Hil. et Naud., Ann. Sc. Nat. Paris, sér. 2, 18 (1842) 56; Schumann, FB 12,3 (1892) 266.

31099 RGS, Vila Oliva p. Caxias, NEH, in paludosis alte dumosis, 7.1.1946, ster.

44676 RGS, ibidem, in paludosis dumosis, 3.12.1949, fl., fr.

44870 RGS, S. Francisco de Paula, NEH, in humidis dumosis, 18.12.1949, fr.

62566, RGS, Farroupilha, NEH, in dumosis humidis, 15.10.1957, fl., fr., leg. O. Camargo 2112.

62777 RGS, ibidem, 10.11.1957, fl., leg. O. Camargo 2479.

62781 RGS, ibidem, 10.11.1957, fl., fr., leg. O. Camargo 2503.

63327 RGS, Pelotas, SEC, in paludosis, 9.12.1957, fl., leg. J. Sacco 821.

Habit: Shrub, well lignified, abundantly but shortly branched like *M. bullata* (Ekm.) Krap.; long, narrow, almost linear leaves very characteristic.

Habitat: Swampy thickets.

Distribution in RGS: Except for 63327, all collections from the northeastern Highlands.

General distribution: So far, RGS only; to be found on the central Highlands of Sta. Catarina.

Monteiroa triangularifolia Krap.,

Bol. Soc. Arg. Bot. 3 (1951) 240, fig. 3.

2154 RGS, S. Leopoldo, NEL, in campestribus (humidis?) dumetosis, 20.11.1935, fl., fr., det. Krapovickas.

Habit: Shrub with long, rather stiff stem and short branches.

Habitat: (Swampy?) thickets.

Distribution in RGS: Unfortunately never found again.

General distribution: RGS, northeastern Lowlands.

PAVONIA L.

Pavonia communis St. Hil.,

Fl. Bras. Merid. 1 (1827) 224. — *P. spinifex* Cav., Diss. 3 (1787) 133, tab. 45, fig. 2; Gürke, FB 12,3 (1892) 480, tab. 85; Ekman, Ark. f. Bot. 13, n. 14 (1913) 3.

4380 RGS, Taimbèsinho p. S. Francisco de Paula, NEH, ad silvam campestem, 7.2.1941, fl.

4863 RGS, Passo do Inferno p. Canela, NEH, ad silvam, 10.2.1941, fl.

28051 RGS, Vila Oliva p. Caxias. NEL, in secundariis, 2.1945, fl., leg. P. Buck SJ.

28112 RGS, Nonoai ad fl. Uruguay superius, NWU, ad silvam, 3. 1945, fl.

31100 RGS, Vila Oliva p. Caxias, NEL, in silvula, 8.1.1946, fl., fr.

31362 RGS, ibidem, in secundariis, 25.2.1946, fl., fr.

31590 SC, Sombrio p. Araranguá, in silvula, 5.2.1946, fl.

33113 Paraná, Florestal p. Piraquara, in silvula campestri, 8.2.1946, fl., fr., leg. G. Hatschbach 187.

34557 RGS, Fazenda da Ronda p. Vacaria, NEH, in araucarieto, 30. 12.1947, ster.

36593 RGS, Cambará p. S. Francisco de Paula, NEH, in araucarieto aperto, 2.1948, fl., fr.

40292 RGS, Sta. Rita p. Farroupilha, NEH, in dumosis secundariis, 28.1.1949, fl.

45700 RGS, ibidem, ad araucarietum in dumosis, 7.2.1950, fl.

54314 SC, Passo do Contas p. S. Joaquim, in dumosis, 29.1.1950, fl., fr., leg. R. Reitz 4989, det. Kearney.

54628 RGS, Fazenda Englert p. S. Francisco de Paula, NEH, in dumosis, 1.1.1954, fl.

54892 RGS, Vila Oliva p. Caxias, NEH, in dumosis, 24.2.1954, fl.

55077 RGS, ibidem, in subhumidis secundariis, 24.2.1954, fl.

55183 SC, Capetinga p. Chapecó, in dumosis, 24.1.1952, fl., leg. R. Reitz 4765.

56743 RGS, Vila Oliva p. Caxias, NEH, in dumosis, 8.2.1955, fl.

59882 RGS, Farroupilha, NEH, ad silvam, 12.4.1957, fl., leg. O. Cargomo 1265.

60004 RGS, ibidem, ad araucarietum, 26.1.1956, fr., leg. O. Cargomo 1141.

Habit: Shrub with long, slender, leaning branches.

Habitat: Edge and clearings of the forest, secondary growth.

Distribution in RGS: Northeastern Highlands only. — Geographical novelty.

General distribution (of the Brazilian *P. "spinifex"*): From Paraná to RGS.

***Pavonia glechomoides* A. Juss.**

in St. Hil., Flor. Bras. Merid. 1 (1827) 227, tab. 45; Gürke, FB 12,3 (1892) 503; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 53; Herter, Flor. Urug. (1930) 86.

25854 RGS, Fazenda Sta. Cecília p. S. Gabriel, SW, in siccis graminosis subdumosis, 1.1944, fl.

33567 Uruguay, Juan Jackson p. Soriano, in campestribus subdumosis, 9.11.1940, fl., leg. B. Rosengurtt, det. Pilar Rodrigo.

63154 RGS, Uruguaiana, SW, in campestribus, 1957, fl., leg. A. Spies.

Habit: Prostrate. branches up to 1 m long.

Habitat: Dry, somewhat shrubby, Campos.

Distribution in RGS: Southwestern Campos only. — Geographical novelty.

General distribution: Bolivia, northeastern Argentina, Uruguay, RGS.

***Pavonia hastata* Cav.,**

Diss. 3 (1787) 138, tab. 47, fig. 2; Gürke, FB 12,3 (1892) 499, tab. 95, fig. 1; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 54; Ekman, Ark. f. Bot. 9, n. 4 (1909) 27; Herter, Flor. Urug. (1930) 86; Pilar Rodrigo, Malv. Bonaer. (1937) 30, fig. 4 i, 14 b.

203 RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis dumosis, 13.1.1933, fl.

3932 RGS, Morro Vigia p. Livramento, SW, in rupestribus dumosis, 12. 1.1941, fl., fr.

9099 RGS, Jari p. Tupanciretan, NWH, in campestribus siccis dumosis, 25.1.1942, fl.

9185 RGS, ibidem, 25.1.1942, fl.

9434 RGS, ibidem, in graminosis subdumosis, 27.1.1942, fl.

11533 RGS, Fazenda Englert p. S. Francisco de Paula, NEH, in campestribus subdumosis, 1.1943, fl., leg. P. Buck SJ.

26059 RGS, Fazenda do Jarau p. Quaraí, SW, in campestribus subdumosis, 1.1945, fl.

27100 RGS, Vila Manresa p. P. Alegre, NEL, in dumosis subapertis, 10.1944, fl.

27260 RGS, ibidem, in siccis alte graminosis, 10.1944, fl., fr.

29274 RGS, ibidem, 10.10.1945, fl., fr.

32199 RGS, Taimbêsinho p. S. Francisco de Paula, NEH, in campestribus subhumidis, 14.2.1946, fl., fr.

33260 RGS, Caracol p. Canela, NEH, in campestribus subdumosis, 2. 1945, fl., leg. K. Emrich.

34186 RGS, Vila Manresa p. P. Alegre, NEL, in campestribus dumosis, 16.10.1946, fl., fr.

34567 RGS, Fazenda da Ronda p. Vacaria, NEH, in campestribus dumosis, 30.12.1946, fl., fr.

- 36596** RGS, Cambará p. S. Francisco de Paula, NEH, in campestribus subhumidis, 2.1948, fl., fr.
- 38032** RGS, Vila Manresa p. P. Alegre, NEL, in graminosis, 17.11.1948, fl.
- 39010** RGS, Steinkopf p. S. Leopoldo, NEL, in siccis dumosis, 20.12.1948, fl.
- 39062** RGS, Espírito Santo p. P. Alegre, NEL, in campestribus siccis subdumosis, 24.12.1948, fl.
- 39167** RGS, ibidem, 24.12.1948, fl., fr.
- 41367** RGS, Morretes p. P. Alegre, NEL, in siccis subdumosis, 2.5.1949, fl.
- 41389** RGS, ibidem, 2.5.1949, fl.
- 42563** RGS, Pareci p. Montenegro, NEL, in campestribus siccis, 18.7.1949, fl., fr.
- 43848** RGS, Ad fl. Caí inferius p. P. Alegre, NEL, in arenosis subdumosis, 12.10.1949, fl., fr.
- 44000** RGS, Morro do Osso p. P. Alegre, NEL, in campestribus dumosis, 21.10.1949, fl., fr.
- 44159** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis subdumosis, 31.10.1949, fl., fr.
- 44192** RGS, Morro Santana p. P. Alegre, NEL, in campestribus dumosis subapertis, 2.11.1949, fl., fr.
- 44403** RGS, Fião p. S. Leopoldo, NEL, in campestribus siccis dumosis, 14.11.1949, fl., fr.
- 44434** RGS, Granja Neugebauer p. Itapoan, NEL, in campestribus aperte dumosis, 19.11.1949, fl., fr.
- 44953** RGS, Gramado p. Canela, NEH, in secundariis siccis, 26.12.1949, fl., fr.
- 45274** RGS, in summo monte Itacolomi p. Gravataí, NEL, in rupes-tribus parce humosis, 11.1.1950, fl., fr.
- 49987** RGS, Palmeira p. fl. Uruguay, NWH, in campestribus subdumosis, 12.2.1951, fl.
- 50745** SC, Morro da Igreja p. S. Joaquim, in campestribus dumosis, 3.1.1949, fl., fr., leg. J. Mattos.
- 51628** RGS, Passo do Socorro p. Vacaria, NEH, in campestribus subaperte dumosis, 27.12.1951, fl.
- 53285** RGS, Caaró p. S. Luiz, NWH, in campestribus dumosis, 24.11.1952, fl., fr.
- 56041** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis subdumosis, 19.11.1954, fl.
- 56309** RGS, Fazenda Englert p. S. Francisco de Paula, NEH, in campestribus dumosis, 2.1.1955, fl.
- 56913** RGS, Caracol p. Canela, NEH, in graminosis subhumidis, 9.2.1955, fl., leg. K. Emrich.
- 60414** RGS, Estação de Silvicultura p. Sta. Maria, CL, in campestribus siccis subdumosis, 10.4.1956, fl., leg. O. Camargo 495.
- 61076** SC, Lages, in campestribus, 25.12.1956, fl., leg. J. Mattos.
- 61103** SC, ibidem, in dumosis siccis, 25.12.1956, fl., leg. J. Mattos.

- 62933** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus subdumosis, 8.2.1958, fl., leg. O. Camargo 3141.
63620 RGS, Fazenda do Arroio p. Osório, NEC, in campestribus arenosis subdumosis, 23.1.1958, fl., fr.
63734 RGS, Pelotas, SEC, in dumosis, 12.3.1958, fl., leg. J. Sacco 1015.
63999 RGS, ibidem, 8.3.1956, fl., leg. J. Sacco 540.
64035 RGS, ibidem, 20.2.1956, fl., fr., leg. J. Sacco 471.

Habit: Slender, woody shrub, up to 1,5 m high.

Habitat: Dry, more or less shrubby, Campos.

Distribution in RGS: One of the most common species throughout the whole of the Campos area.

General distribution: From Rio de Janeiro and Paraguay to Uruguay and northern Argentina.

Pavonia lanata R. E. Fries,

Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 52, tab. 6, fig. 5, 6.

- 9051** RGS, Bom Jesus, NEH, in campestribus siccis graminosis, 16.1.1942, fl.
32193 RGS, Taimbèsinho p. S. Francisco de Paula, NEH, in rupestribus parce humosis graminosis, 14.2.1946, fl., fr.
32454 RGS, Serra da Rocinha p. Bom Jesus, NEH, in campestribus subsiccis dumosis, 28.2.1946, fl., fr.
36597 RGS, Cambará p. S. Francisco de Paula, NEH, in campestribus dumosis, 2.1948, fl.
45491 RGS, Serra da Rocinha p. Bom Jesus, NEH, in campestribus saxosis graminosis, 18.1.1950, fl., fr.
55944 RGS, Taimbèsinho p. S. Francisco de Paula, NEH, in graminosis subdumosis, 3.11.1954, fl.
60121 SC, Campo dos Padres p. Bom Retiro, in saxosis graminosis, 23.1.1957, ster.

Habit: Woody shrub, prostrate to ascending or erect, up to 1 m high.

Habitat: Dry, stony, grassy places, open or sparingly shrubby.

Distribution in RGS: Northeastern Highlands only — Geographical novelty.

General distribution: South Brazil, RGS.

Pavonia missionum Ekman,

Ark. f. Bot. 9, n. 4 (1909) 33, fig. 7.

- 11128** RGS, Cêrro Largo p. S. Luiz, NWH, in dumosis subhumidis, 1.1943, fl., fr., leg. P. Buck SJ.
25551 RGS, Sta. Maria, CL, in dumosis humidis, 1943, fl., leg. A. Heidler SI.

- 26713** RGS, Cêro Largo p. S. Luiz, NWH, in subhumidis dumosis, 8.1944, leg. E. Friderichs SJ.
28111 RGS, Nonoai ad fl. Uruguay superius, NWU, in dumosis, 3. 1945, fl., fr.
34332 RGS, Cêro Largo p. S. Luiz, NWH, in dumosis subhumidis, 31.10.1947, fl., leg. Irmão Augusto.
48025 RGS, ibidem, 17.12.1948, fl., fr., leg. A. Sehnem SJ 3555.
53173 RGS, Cêro Largo, NWH, in humidis dumosis, 20.11.1952, fl., fr.
56745 RGS, Vila Oliva p. Caxias, NEH, in dumosis subpaludosis, 8. 2.1955, fl.
57750 RGS, Pestana p. Ijuí, NWH, in dumosis, 25.1.1954, fl., leg. J. Pivetta 893.

Habit: Vigorous shrub, up to 2 m high.

Habitat: Moist to swampy thickets.

Distribution in RGS: With the exception of 56745, all collections from the northwestern Highlands. — Geographical novelty.

General distribution: Misiones, RGS.

***Pavonia orbicularis* E. Ulbr.,**

ap. Urban, Plant. Novae And., Bot. Jahrb. 24 (1908) 123; Ekman, Ark f. Bot. 9, n. 4 (1909) 37, fig. 8.

53551 RGS, Sta. Barbara p. Palmeira, NWH, in campestribus siccis graminosis, 19.1.1953, fl., fr.

55184 SC, Capetinga p. Chapecó, in campestribus dumosis subapertis, 24.1.1952, fl., leg. R. Reitz 4764.

Habit: Low shrub, abundantly branched from a rootstock, branches up to 40 cm high.

Habitat: Dry, grassy Campo.

Distribution in RGS: Northwestern Highlands only. — Geographical novelty.

General distribution: Misiones, Sta. Catarina, RGS.

***Pavonia psilophylla* Ekman,**

Ark. f. Bot. 9, n. 4 (1909) 30, fig. 6.

10058 RGS, Ijuisinho p. Tupanciretan, NWH, in campestribus siccis dumosis, 30.1.1942, fl.

11129 RGS, Cêro Largo p. S. Luiz, NWH, in dumosis secundariis, 1. 1943, fl., fr., leg. P. Buck SJ.

25552 RGS, Sta. Maria, CL, in campestribus siccis dumosis, 1943, fl., leg. A. Heidler SJ.

28054 RGS, Vila Oliva p. Caxias, NEH, in campestribus siccis dumosis, 2.1945, fl., fr.

31252 RGS, ibidem, 15.1.1946, fl., fr.

- 34560** RGS, Fazenda da Ronda p. Vacaria, NEH, in campestribus dumosis, 30.12.1946, fl., fr.
47411 RGS, Campinas p. Sta. Rosa, NWH, in campestribus dense dumosis, 1.1950, fl., leg. A. Spies.
48085 RGS, Cêrro Largo p. S. Luiz, NWH, in campestribus siccis dumosis, 23.12.1948, fl., leg. A. Sehnem SJ 3566.
53114 RGS, ibidem, in dumosis, 20.11.1952, fl., fr.
54939 RGS, Vila Oliva p. Caxias, NEH, in campestribus siccis dense dumosis, 24.2.1954, fl., fr.
55048 RGS, ibidem, 24.2.1954, fl., fr.
57751 RGS, Pestana p. Ijuí, in campestribus dumosis, 5.11.1953, fl., leg. J. Pivetta 892.

Habit: Woody shrub with long, slender branches, up to 1,5 m high.

Habitat: Dry Campos thickets.

Distribution in RGS: Throughout the whole of the Highlands, more frequent in the West. — Geographical novelty.

General distribution: Misiones, RGS.

***Pavonia reticulata* Garcke,**

Jahrb. Berlin. Bot. Gart. 1 (1881) 212; Gürke, FB 12,3 (1892) 502; Ekman, Ark. f. Bot. 13, n. 14 (1913) 3.

- 3858** RGS, Ijuisinho p. Tupanciretan, NWH, in campestribus siccis saxosis graminosis, 30.1942, ster.
28198 RGS, Nonoai ad fl. Uruguay, NWU, in campestribus siccis saxosis graminosis, 7.10.1945, fr.
34562 RGS, Fazenda da Ronda p. Vacaria, NEH, in siccis graminosis, 30.12.1946, fr.
51558 RGS, Passo do Socorro p. Vacaria, NEH, in saxosis graminosis, 26.12.1951, fl., fr.
51873 RGS, Passo da Guarda p. Bom Jesus, NEH, in campestribus siccis subdumosis, 15.1.1952, fl., fr.
61755 RGS, Farroupilha, NEH, in campestribus siccis, 18.11.1957, fl., fr., leg. O. Camargo 2587.

Habit: Woody shrub, prostrate to ascending or even erect (in thickets), up to 1 m high.

Habitat: Dry, stony or rocky places and thickets of the Campos.

Distribution in RGS: Campos of the Highlands only, more especially in the East. — Geographical novelty.

General distribution: From Paraná to RGS.

***Pavonia rosea* Schlecht.,**

Linnaea 11 (1837) 355; Gürke, FB 12, 3 (1892) 484, tab. 87, fig. 2; Ekman, Ark. f. Bot. 13, n. 14 (1913) 3; Malme, Sv. Bot. Tidskr. 30 (1936) 21.

- 3109** SC, Morro do Antão p. Florianópolis, in umbrosis dumosis, 28. 1.1939, fl., leg. A. Sehnem SJ.
28789 RGS, Caracol p. Canela, NES, in umbrosis dumosis, 2.1945, fl., fr., leg. K. Emrich.
31561 SC, Sombrio p. Araranguá, in umbrosis dumosis, 3.2.1946, fl., fr.
46017 RGS, Lagoa dos Quadros p. Torres, NEC, in humidis dumosis, 21.2.1950, fl., fr.
49736 RGS, ibidem, ad silvam pluvialem, 18.1.1951, fl.
55150 SC, Brusque, ad silvam in dumosis, 11.4.1950, fl., leg. R. Reitz 4927, det. Kearney.

Habit: Small shrub, not or sparingly branched, up to 1 m high.

Habitat: Edge and clearings of the rain forest; secondary growth.

Distribution in RGS: Northeastern rain forest belt near the sea coast; southern coast.

General distribution: From Central America and the Antilles to RGS.

***Pavonia sagittata* A. Juss.,**

in St. Hil., Fl. Bras. Merid. 1 (1827) 229; Gürke, FB 12,3 (1892) 501, tab. 95, fig. 2; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 51.

- 4153** RGS, Rio Garopá p. Quarai, SW, in campestribus siccis dumosis, 14.1.1941, fl.
25622 RGS, Fazenda Sta. Cecília p. S. Gabriel, SW, in campestribus siccis subdumosis, 1.1944, fl.
33041 RGS, Pareci p. Montenegro, NEL, in campestribus siccis, 29. 12.1945, fl., fr., leg. E. Henz SJ.
34569 RGS, Fazenda da Ronda p. Vacaria, NEH, in campestribus dumosis, 30.12.1946, fl., fr.
41241 RGS, ad fl. Caí inferius, NEL, in campestribus siccis dumosis, 27.4.1949, fl.

Habit: Shrub, 1 m high.

Habitat: Dry, shrubby Campo.

Distribution in RGS: Widely scattered, rare. — Geographical novelty.

General distribution: From Matogrosso to RGS.

***Pavonia schranckii* Spreng.,**

Syst. Veget. 3 (?) 98; Gürke, FB 12,3 (1892) 498, tab. 94; Fries, Kungl. Sv. Vet. Akad. Handl. 42, n. 12 (1907) 50; Ekman, Ark. f. Bot. 9, n. 4 (1909) 26; Ark. f. Bot. 13, n. 14 (1913) 3.

- 28789** RGS, Caracol p. Canela, NEH, in dumosis humidis, 18.3. 1945, fl., leg. K. Emrich.
33275 RGS, ibidem, 6.3.1946, fl., fr., leg. K. Emrich.
37203 RGS, ibidem, 29.2.1948, fl., leg. K. Emrich.

- 44786** RGS, ibidem, 14.12.1949, fr., leg. K. Emrich.
48226 RGS, ibidem, 23.12.1949, fl., leg. K. Emrich.
48321 SC, Figueiredo p. Bom Retiro, in campestribus dumosis, 28.12.1948, fl., leg. R. Reitz 3502, det. H. Monteiro.
51267 RGS, Caracol p. Canela, NEH, ad rivum, 1950, fl., leg. K. Emrich.
51919 RGS, Passo da Guarda p. Bom Jesus, NEH, in campestribus dense dumosis, 15.1.1952, fl.

Habit: Shrub, up to 2 m high.

Habitat: Campos thickets.

Distribution in RGS: Northeastern Highlands only, rare.

General distribution: From Minas Gerais to Misiones and RGS.

Pavonia sepium St. Hil.,

Fl. Bras. Merid. 1 (1827) 225; Gürke, FB 12,3 (1892) 481, tab. 86, fig. 1; Ekman, Ark. f. Bot. 9, n. 4 (1909) 26; Ark. f. Bot. 13, n. 14 (1913) 27; Herter, Flor. Urug. (1930) 86; Pilar Rodrigo, Malv. Bo-naer. (1937) 30, fig. 4 i, 14 a.

- 1323** RGS, S. Leopoldo, NEL, in silva campestri, 5.12.1922, fl., fr.
1326 RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 5.2.1933, fl.
1328 RGS, S. Leopoldo, NEL, ad silvam, 9.12.1922, fl.
3810 RGS, Bohnental p. Caí, NES, ad silvam pluvialem, 4.1.1941, fl., fr.
3860 RGS, sine loco, sine die, fl.
4180 RGS, Rio Caneleira p. Uruguaiiana, SW, in silvula riparia, 14.1.1941, fl.
7605 RGS, S. Leopoldo, NEL, ad silvam, 1907, fl., leg. F. Theissen SJ.
9195 RGS, Jari p. Tupanciretan, NWH, ad silvam, 26.1.1942, fl.
9691 RGS, Tupanciretan, NWH, in silvula campestri, 28.1.1942, fl.
10188 RGS, Montserrat p. P. Alegre, NEL, 24.2.1942, fl., fr., leg. K. Emrich.
25205 RGS, S. Leopoldo, NEL, ad silvam, 1907, fl., fr., leg. F. Theissen SJ.
25617 RGS, Fazenda Sta. Cecília p. S. Gabriel, SW, ad silvam campe-strem, 1.1944, fl.
25932 SC, Trindade p. Florianópolis, in dumosis, 11.3.1945, fl., fr. leg. A. Rohr SJ.
26238 RGS, Fazenda do Jarau p. Quaraí, SW, in silvula riparia, 1.1945, fl.
26646 RGS, Pareci p. Montenegro, NEL, in secundariis, 1944, fl., fr., leg. E. Henz SJ.
27460 RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 1944, fl., fr.
27630 RGS, Pareci p. Montenegro, NEL, ad silvam in dumosis, 1944, fl., fr., leg. E. Henz SJ.
28596 RGS, Nonoai ad fl. Uruguay superius, NWU, in campestribus dumosis. 3.1945, fr.

- 29095** RGS, Vila Manresa p. P. Alegre, NEL, in silva ad viam, 12.9.1945, fl., fr.
- 29848** RGS, sine loco, sine die, fl.
- 29956** RGS, Kappesberg p. Montenegro, NES, in dumosis, 6.1945, fl., fr., leg. E. Friderichs SJ.
- 30556** SC, Sombrio p. Araranguá, ad silvam, 12.4.1944, fl., leg. R. Reitz.
- 33031** RGS, Pareci p. Montenegro, NEL, in dumosis secundariis, 3.12.1945, fl., leg. A. Strieder SJ.
- 33187** RGS, Vila Oliva p. Caxias, NEL, in araucarieto aperto, 16.1.1946, fl.
- 34557** RGS, Fazenda da Ronda p. Vacaria, NEH, in araucarieto aperto, 30.12.1946, fl., fr.
- 35640** RGS, Kappesberg p. Montenegro, NES, ad silvam, 20.12.1946, fl., leg. E. Henz SJ.
- 36049** RGS, Campinas p. Sta. Rosa, NWH, ad silvam, 2.1947, fl., fr., leg. A. Spies.
- 37815** RGS, Vila Manresa p. P. Alegre, NEL, in silva campestri, 29.9.1949, fl., fr.
- 39427** RGS, Lami p. Itapoan, NEL, in silvula campestri, 3.1.1949, fl.
- 39598** RGS, Cachoeirinha p. Gravataí, NEL, in silvula, 7.1.1949, fl., fr.
- 39892** RGS, ad montem Ferrabraz p. Nôvo Hamburgo, NEL, in dumosis secundariis, 12.1.1949, fl., fr.
- 40037** RGS, Linha Bonita p. Montenegro, NES, ad silvam, 19.1.1949, fl.
- 40642** RGS, Esteio p. S. Leopoldo, NEL, in silva campestri, 23.3.1949, fl.
- 40761** RGS, Sapucaia p. S. Leopoldo, NEL, in silva, 1.4.1949, fl., fr.
- 41590** RGS, ad montem Ferrabraz p. Nôvo Hamburgo, NEL, ad silvam pluvialem, 16.5.1949, fl., fr.
- 41694** RGS, Schwabenschneis p. Nôvo Hamburgo, NEL, ad silvam in secundariis, 25.5.1949, fl., fr.
- 41945** RGS, Nova Petrópolis, NES, ad silvam in dumosis, 13.6.1949, fl.
- 46058** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 3.3.1950, fl., fr.
- 46409** RGS, Gramado p. Canela, NEH, in secundariis, 20.3.1950, fl., fr.
- 49823** SC, Itapiranga ad fl. Uruguay superius, ad viam in silva pluviali, 6.2.1951, fl., fr.
- 50271** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 26.3.1951, fl., fr.
- 52777** RGS, Pareci p. Montenegro, NEL, ad silvam, 7.1952, fl., fr.
- 53626** Paraná, Salto Iguassu, ad silvam, 11.1.1953, fl., fr.
- 54947** RGS, Vila Oliva p. Caxias, NEH, in dumosis, 24.2.1954, fl., fr.
- 55186** SC, Rio Tavares p. Florianópolis, in dumosis, 23.3.1952, fl., fr., leg. R. Reitz 4762, det. Howell.

- 57721** RGS, Pestana p. Ijuí, NWH, ad silvam, 6.3.1954, fl., leg. J. Pivetta 883.
58724 RGS, Estação de Silvicultura p. Sta. Maria, CL, in dumosis, 28.2.1956, fl., fr., leg. O. Camargo 31.
59436 RGS, Farroupilha, NEH, ad araucarietum, 15.11.1956, fl., fr., leg. O. Camargo 930.
60461 RGS, Estação de Silvicultura p. Sta. Maria, CL, ad silvam, 10.4.1956, fl., fr., leg. O. Camargo 470.
61228 SC, Itapiranga ad fl. Uruguay superius, ad silvam, 7.10.1957, ster.
61891 RGS, Garibaldi, NEH, in dumosis, 29.10.1957, fl., fr., leg. O. Camargo 2265.
62199 RGS, ibidem, in dumosis, 13.10.1957, fl., fr., leg. O. Camargo 2056.
62411 RGS, Montenegro, NES, ad silvam, 19.9.1957, fl., fr., leg. O. Camargo 1755.
63762 RGS, Pelotas, SEC, in dumosis, 10.3.1958, fl., fr., leg. J. Sacco 947.
63771 RGS, ibidem, ad silvam, 11.3.1958, fl., fr., leg. J. Sacco 1008.

Habit: Shrub with long, slender branches leaning to the neighboring vegetation.

Habitat: Edge and clearings of the forest, secondary growth, woodlets.

Distribution in RGS: Common throughout the whole of the forested area.

General distribution: Through the whole of tropical and subtropical South America.

Pavonia speciosa H. B. K. ssp. **polymorpha** (St. Hil.) Gürke,

FB 12,3 (1892) 495, tab. 91, fig. 4; Malme, Ark. f. Bot. 29A, n. 5 (1937) 12; Ekman, Ark. f. Bot. 13, n. 14 (1913) 3. — *P. polymorpha* St. Hil., Fl. Bras. Merid. 1 (1827) 232.

51956 RGS, Palmeira p. fl. Uruguay, NWH, in campestribus dumosis, 30.1.1952, fl., fr.

Habit: Woody shrub, abundantly branched from a rootstock, branches prostrate to ascending, up to 1 m long.

Habitat: Dry, shrubby Campo with tall grasses.

Distribution in RGS: Northwestern Highlands only. — Geographical novelty.

General distribution: From Minas Gerais and Matogrosso to RGS.

Pavonia urbaniana Gürke,

FB 12,3 (1892) 501, tab. 95, fig. 3; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 59, tab. 6, fig. 24–27; Herter, Flor. Urug. (1930) 86; Pilar Rodrigo, Malv. Bonaer. (1937) 30, fig. 4 i, 14 a.

1327 RGS, S. Leopoldo, NEL, in paludosis dumosis, 9.12.1922, fl.

7615 RGS, ibidem, 1907, fl., leg. F. Theissen SJ.

- 9404** RGS, Jari p. Tupanciretan, NWH, in paludosis dumosis, 26.1.1942, fl.
- 9602** RGS, Tupanciretan, NWH, in paludosis, 28.1.1942, fl.
- 9769** RGS, ibidem, 29.1.1942, fl.
- 9829** RGS, ibidem, 29.1.1942, fl.
- 11121** RGS, Caaró p. S. Luiz, NWH, in humidis dumosis, 1.1943, fl., leg. P. Buck SJ.
- 28586** RGS, Nonoai ad fl. Uruguay, NWU, in subpaludosis, 3.1945, fl.
- 31098** RGS, Vila Oliva p. Caxias, NEH, in paludosis dumosis, 7.1.1946, fl.
- 33337** RGS, Caracol p. Canela, NEH, in humidis dumosis, 14.2.1946, fl., leg. K. Emrich.
- 35744** RGS, Kappesberg p. Montenegro, NES, in paludosis dense dumosis, 27.12.1946, fl., leg. E. Henz SJ.
- 38223** RGS, Sapucaia p. S. Leopoldo, NEL, in paludosis alte dumosis, 22.11.1948, fl., fr.
- 38699** RGS, Rio dos Sinos p. S. Leopoldo, NEL, in paludosis alte graminosis dumosis, 10.12.1948, fl., fr.
- 39012** RGS, Steinkopf p. S. Leopoldo, NEL, in palude dumosa, 20.11.1948, fl.
- 40283** RGS, Sta. Rita p. Farroupilha, NEH, in dumosis paludosis, 28.1.1949, fl.
- 41466** RGS, Estação Azevedo p. Montenegro, NEL, in paludosis dumosis, 6.5.1949, fl.
- 43857** RGS, ad flumen Caí inferius p. P. Alegre, NEL, in humidis dumosis, 12.10.1949, fl.
- 44135** RGS, Barreto Viana p. S. Leopoldo, NEL, in humidis dumosis, 24.10.1949, fl.
- 44188** RGS, Morro Santana p. P. Alegre, NEL, in paludosis dumosis, 2.11.1949, fl.
- 44603** RGS, Vila Oliva p. Caxias, NEH, in paludosis, 3.12.1949, fl., fr.
- 44962** RGS, Gramado p. Canela, NEH, in paludosis, 26.12.1949, fl.
- 45758** RGS, Sta. Rita p. Farroupilha, NEH, in palude, 7.2.1950, fl.
- 45972** RGS, Lagoa dos Quadros p. Torres, NEC, ad lacum in dumosis, 21.2.1950, fl.
- 49157** RGS, Esteio p. P. Alegre, NEL, in paludosis, 20.11.1950, fl.
- 51027** RGS, Sitio p. Sta. Cruz, CL, in paludosis dumosis, 14.12.1950, fl., leg. A. Sehnem SJ 5081.
- 54968** RGS, Vila Oliva p. Caxias, NEH, in dumosis dense graminosis, 24.2.1954, fl.
- 55015** RGS, ibidem, 24.2.1954, fl.
- 56688** RGS, ibidem, 8.2.1955, fl.
- 57102** RGS, Esteio p. S. Leopoldo, NEL, in paludosis, 14.11.1955, fl.
- 59447** RGS, Farroupilha, NEH, in dumosis humidis, 15.11.1956, fl., leg. O. Camargo 987.
- 59256** RGS, ibidem, 25.3.1957, fr., leg. O. Camargo 1204.

61461 RGS, Taquari, CL, in humidis dumosis, 14-12-1957, fl., leg. O. Camargo 2940.

61732 RGS, Farroupilha, NEH, in dumosis humidis, 18.11.1957, fl., leg. O. Camargo 2543.

Habit: Woody shrub, abundantly branched, up to 2,5 m high.

Habitat: Swampy thickets among shrubs and tall grasses.

Distribution in RGS: Throughout of the Campos area, with the exception of the coldest quarters of the northeastern Highlands.

General distribution: RGS, Uruguay, northeastern Argentina.

Pavonia sp. prob. nova.

4773 RGS, Rio Guira p. S. Francisco de Paula, NEH, in humidis ad rivum, 10.2.1941, fl.

28059 RGS, Vila Oliva p. Caxias, NEH, in subpaludosis dumosis, 2.1945, fl., fr.

28791 RGS, Caracol p. Canela, NEH, in dense dumosis humidis, 18.3.1945, fl., leg. K. Emrich.

30020 RGS, ibidem, 28.1.1941, fl., fr., leg. K. Emrich.

31102 RGS, Vila Oliva p. Caxias, in paludosis dumosis, 7.1.1946, fl., fr.

31492 SC, Sombrio p. Araranguá, in paludosis dumosis, 2.2.1946, fl., fr.

35845 RGS, Caracol p. Canela, NEH, in paludosis dumosis, 13.2.1947, fr., leg. K. Emrich.

35905 RGS, ibidem, in humidis dumosis, 21.2.1947, fl., fr.

44706 RGS, Vila Oliva p. Caxias, NEH, in humidis dumosis, 3.12.1949, fl.

52813 RGS, Caracol p. Canela, NEH, in paludosis dumosis, 26.2.1953, fl., fr., leg. K. Emrich.

52864 RGS, ibidem, 28.1.1953, fl., fr., leg. K. Emrich.

54919 RGS, Vila Oliva p. Caxias, NEH, in dumosis humidis, 24.2.1954, fl., det. Krapovickas.

56697 RGS, ibidem, 8.2.1955, fl., fr.

61412 RGS, Pestana p. Ijuí, NWH, in dumosis humidis, 7.2.1956, fl., leg. J. Pivetta 1131.

Habit: Woody shrub, abundantly branched, primary branches more or less matted together, secondary ones short and erect, all parts covered with long, coarse setae; the species does not compare with any one described in current literature.

Habitat: Swampy thickets.

Distribution in RGS: Except for 31492, all collections from the northern, especially northeastern, Campos area.

General distribution: Probably a South Brazilian endemism.

SIDA L.

Sida acuta Burm., var. *carpinifolia* (L. f.) Schum.,

FB 12,3 (1892) 326; Garcke, Über einige Malvaceengattungen (1896) 385; Fries, Phanerogamenpfl. von Bolivia und Argentinien (1896) 9; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 6, secc. bot. (1944) 155, fig. 29, 19. — *S. carpinifolia* L. f., Suppl. (1781) 307.

218 RGS, Esteio p. S. Leopoldo, NEL, in silva campestri sicca aperta, 25.1.1933, fl.

3298 SC, Florianópolis, in incultis, 6.1938, fl.

3612 Rio de Janeiro, ad silvam in dumosis, 5.2.1940, fl., fr.

3703 RGS, S. José do Hortêncio p. Caí, NES, in incultis, 3.1.1941, fl.

3807 RGS, Bohnental p. Caí, NES, in incultis, 4.1.1941, fl.

3841 RGS, Forqueta p. Caí, ad viam, 5.1.1941, fl.

7601 RGS, S. Leopoldo, NEL, in tritis, 1907, fl., fr., leg. F. Theissen SJ.

8421 RGS, Xarqueadas p. S. Jerônimo, CL, in incultis, 8.1.1942, fl., fr.

10195 RGS, Montserrat p. P. Alegre, NEL, in tritis, 24.2.1942, fl., fr., leg. K. Emrich.

32078 SC, Praia Grande p. Araranguá, in ruderalis, 13.2.1946, fl., fr.

38265 RGS, Esteio p. S. Leopoldo, NEL, in siccis graminosis, 24.11.1948, fl., fr.

38788 RGS, Conceição p. Caí, NEL, in arenosis siccis, 14.12.1948, fl., fr.

39388 RGS, Lami p. Itapoan, NEL, in silvula campestri aperta, 3.1.1949, fl., fr.

39580 RGS, Cachoeirinha p. Gravataí, NEL, in umbrosis dumosis, 7.1.1949, fl.

39715 RGS, Pareci p. Montenegro, NEL, ad silvam in umbrosis dumosis, 14.1.1949, fl., fr.

39951 RGS, ad montem Ferrabraz p. Nôvo Hamburgo, NEL, in dumosis secundariis, 12.1.1949, fl., fr.

41708 RGS, Schwabenschneis p. Nôvo Hamburgo, NEL, in secundariis, 25.5.1949, fl., fr.

43199 RGS, ad montem Ferrabraz p. Nôvo Hamburgo, NEL, ad viam in tritis, 2.9.1949, fl.

43285 RGS, Estação Azevedo p. Montenegro, NEL, in campestribus dumosis, 5.9.1949, fl.

43832 RGS, Pareci p. Montenegro, NEL, ad silvam in umbrosis, 7.10.1949, fl.

45288 RGS, in summo monte Itacolúmi p. Gravataí, NEL, in dumosis siccis, 11.1.1950, fl., fr.

45988 RGS, Lagoa dos Quadros p. Tôrres, NEC, ad silvam in secundariis, 21.2.1950, fl., fr.

46200 RGS, Cristo Rei p. S. Leopoldo, NEL, in silvula aperta, 10.3.1950, fl., fr.

- 46855** RGS, Viamão p. P. Alegre, NEL, in campestribus tritis, 17.4.1950, fl., fr.
48773 RGS, Lagoa dos Quadros p. Tôrres, NEC, in incultis, 18.1.1951, fl., fr.
54782 RGS, Tôrres, NEC, prope litus in dumosis, 11.2.1954, fl.
56475 RGS, ibidem, in arenosis dumosis, 19.1.1955, fl.
57720 RGS, Pôrto Mariente p. Ven. Aires, CL, in incultis, 21.5.1955, fl., leg. J. Pivetta 882.
58025 SC, Azambuja p. Brusque, in incultis, 16.1.1951, fl., fr., leg. R. Reitz 6578.
62363 RGS, Montenegro, NEL, in dumosis, 19.9.1957, fl., leg. O. Camargo 1739.
62903 RGS, Taquari, NEL, in umbrosis tritis, 10.12.1957, fl., leg. O. Camargo 3030.

Habit: Erect, moderately lignified, fibrous, tough, up to 75 cm high, very similar to *Malvastrum coromandelianum* (L.) Garcke with which it is sometimes confused.

Habitat: Extremely common throughout the whole of the cultivated area, always on somewhat disturbed soil, apparently not native.

Distribution in RGS: Extremely common throughout the whole of the cultivated area. — Geographical novelty.

General distribution: Northern Argentina, Paraguay, South Brazil.

***Sida adscendens* St. Hil.,**

Flor. Bras. Merid. 1 (1827) 144; Schumann, FB 12,3 (1892) 341; Monteiro, *Sida* (1936) 24.

- 28033** RGS, Vila Oliva p. Caxias, NEH, ad viam in dumosis siccis, 2.1945, fl., fr., leg. P. Buck SJ.

Habit: Similar to *S. rhombifolia* L., from which it can be easily distinguished by its lower number of carpodia (if this be enough to make a good species!).

Habitat: Dry places among low shrubs.

Distribution in RGS: Northeastern Highlands only. — Geographical novelty.

General distribution: S. Paulo, RGS.

***Sida cordifolia* L.,**

Spec. Plant. (1753) 684; Schumann, FB 12,3 (1892) 329, tab. 72; Ekman, Ark. f. Bot. 9, n. 4 (1909) 10; Herter, Flor. Urug. (1930) 86; Monteiro, *Sida* (1937) 24; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 6, sección Bot. (1944) 184, fig. 37,3, fig. 41.

- 211** RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in dumosis, 6. 6. 1933, fl., fr.

27586 RGS, Pareci p. Montenegro, NEL, in dumosis secundariis, 1944, ster., leg. E. Henz SJ.

27672 RGS, ibidem, 1944, ster., leg. E. Henz SJ.

- 40783** RGS, Sapucaia p. S. Leopoldo, NEL, in arenosis dumosis, 1.4.1949, fl., fr.
40903 RGS, ad montem das Cabras p. S. Leopoldo, NEL, in campestribus arenosis siccis dumosis, 3.4.1949, fr.
41313 RGS, Morro Sta. Teresa p. P. Alegre, NEL, in campestribus siccis dumosis, 29.4.1949, fl., fr.
42778 RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in arenosis siccis dumosis, 5.8.1949, fl., fr.
59218 RGS, ibidem, in dumosis, 3.2.1956, fl.

Habit: Shrub, up to 1,5 m high, yellowish green.

Habitat: Dry, sandy soil; more or less open shrub vegetation.

Distribution in RGS: Northeastern Lowlands only, locally (Sapucaia) frequent. — Geographical novelty.

General distribution: From Florida and the Antilles down to RGS, Uruguay, B. Aires.

Sida macrodon DC.,

Prodr. 1 (1824) 464; Schumann, FB (1892) 289; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 36; Ekman, Ark. f. Bot. 9, n. 4 (1909) 5; Herter, Flor. Urug. (1930) 86; Bornmüller, Rev. Sud. Bot. 1 (1934) 162; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 6, secc. Bot. (1944) 102, fig. 7,2.

- 4288** RGS, Cambará p. S. Francisco de Paula, NEH, in campestribus graminosis subsiccis, 6.2.1941, fl.
9058 RGS, Bom Jesus, NEH, in campestribus siccis graminosis, 16.1.1942, fl., fr.
27258 RGS, Morro da Polícia p. P. Alegre, NEL, in campestribus siccis graminosis, 10.1944, fl.
27429 RGS, Montserrat p. P. Alegre, NEL, in siccis graminosis, 1944, fl., fr., leg. K. Emrich.
28258 RGS, Nonoai ad fl. Uruguay superius, NWU, in campestribus siccis graminosis, 3.1945, fl., fr.
31802 SC, Sombrio p. Araranguá, in arenosis siccis graminosis, 8.2.1946, fl., fr.
33952 RGS, S. Leopoldo, NEL, in siccis graminosis, 1942, fl., fr., leg. C. Orth SJ.
34563 RGS, Fazenda da Ronda p. Vacaria, NEH, in campestribus siccis graminosis, 30.12.1946, fl., fr.
35970 Paraná, Barigui p. Curitiba, in campestribus siccis graminosis, 4.9.1946, fl., fr., leg. G. Hatschbach 414.
36592 RGS, Cambará p. S. Francisco de Paula, NEH, in graminosis subsiccis, 2.1948, fl., fr.
38628 RGS, Morro da Polícia p. Montenegro, NEL, in saxosis siccis graminosis, 20.11.1948, fl., fr.
38719 RGS, Rio dos Sinos p. S. Leopoldo, NEL, in campestribus sabulososis graminosis, 10.12.1948, fl., fr.
53998 RGS, Taimbêsinho p. S. Francisco de Paula, NEH, in campestribus subsiccis graminosis, 20.2.1953, fl., fr.

- 56890** Paraná, Palmeiras, in campestribus siccis graminosis, 2.1955, fl., leg. M. Frank.
57726 RGS, Cruz Alta, NWH, in siccis graminosis, 3.1.1954, fl., fr., leg. J. Pivetta 888.
58535 RGS, Taimbêsinho p. S. Francisco de Paula, NEH, in siccis graminosis, 12.2.1956, fl.
61297 RGS, Pestana p. Ijuí, NWH, in campestribus graminosis, 7.2.1956, fl., leg. J. Pivetta 1145.
61298 RGS, ibidem, 7.2.1956, fl., leg. J. Pivetta 1144.

Habit: Small shrub, branched from the base, branches 10–30 cm long, prostrate to ascending.

Habitat: Very dry and poor places on open Campos.

Distribution in RGS: Over the whole of the Campos area.

General distribution: From Minas Gerais and Paraguay down to RGS, Uruguay and northern Argentina.

***Sida multicroena* Hochr.,**

Plant. Hassl. (1905) 295; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 6, sec. Bot. (1944) 160, ubi vide nomenclaturam.

- 219** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis subdumosis, 13.1.1933, fl.
1319 RGS, ibidem, 4.1.1933, fl.
10205 RGS, sine loco, sine die, fl., fr.
11127 RGS, Cêrro Largo p. S. Luiz, NWH, in siccis graminosis, 1.1943, fl., leg. P. Buck SJ.
11681 RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis graminosis, 1943, fl., fr.
26966 RGS, ibidem, 10.1944, fl., fr.
27167 RGS, ibidem, in saxosis graminosis, 10.1944, fl., fr.
29160 RGS, ibidem, 12.9.1945, fl., fr.
34136 RGS, ibidem, 9.10.1946, fl., fr.
37715 RGS, ibidem, 22.9.1948, fl., fr.
39567 RGS, Cachoeirinha p. Gravataí, NEL, in campestribus graminosis, 7.1.1949, fl., fr.
40353 RGS, Vila Manresa p. P. Alegre, NEL, in saxosis parce humosis siccis graminosis, 3.3.1949, fl., fr.
41674 RGS, S. Leopoldo, NEL, in tritis, 21.4.1949, fl., fr.
44200 RGS, Morro Santana p. P. Alegre, NEL, in campestribus siccis graminosis, 2.11.1949, fl., fr.

Habit: Half-shrub, fibrous, tough, up to 75 cm high.

Habitat: Dry, preferably rocky places with only a thin layer of soil

Distribution in RGS: Findplaces widely scattered, in some places very common (Vila Manresa); native, or introduced weed? — Geographical novelty.

General distribution: From northern Argentina and Paraguay to RGS.

Sida potentilloides St. Hil.,

Fl. Bras. Merid. 1 (1827) 140; Schumann, FB 12,3 (1891) 334; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 34; Herter, Flor. Urug. (1930) 86; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 6, secc. Bot. (1944) 157, fig. 30, 31 fl.; Monteiro, Lilloa 17 (1949) 520. — S. anarthra Ekman, Ark. f. Bot. 9, n. 4 (1909) 15, fig. 3.

2167 RGS, Canela p. Gramado, NEH, ad silvam in umbrosis graminosis, 7.3.1937, fl., fr.

3763 RGS, Beckersberg p. Feliz, NEH, in graminosis subumbrosis, 4.1.1941, fl., fr.

4300 RGS, sine loco, sine die, fl., fr.

4428 RGS, Fazenda Englert p. S. Francisco de Paula, in dumosis, 8.2.1941, fl., fr.

4430 RGS, ibidem, ad araucarietum, 7.2.1941, fl., fr.

6778 SC, Lages, ad silvam campestem, 1935, fl., fr., leg. A. Bruxel SJ.

28083 RGS, Nonoai ad fl. Uruguay superius, NWU, in umbrosis graminosis, 3.1945, fl., fr.

28599 RGS, ibidem, in silvula campestri aperta, 3.1945, fl., fr.

30021 RGS, Caracol p. Canela, NEH, in umbrosis graminosis, 27.1.1941, fl., fr., leg. K. Emrich.

30033 RGS, Passo Fundo, NWH, ad silvam campestem, 1942, fl., fr., leg.?

31101 RGS, Vila Oliva p. Caxias, NEL, ad araucarietum, 7.1.1946, fl., fr.

31333 RGS, ibidem, 24.2.1946, fl., fr.

32171 RGS, Taimbêsinho p. S. Francisco de Paula, NEH, in graminosis umbrosis, 14.2.1946, fl., fr.

34568 RGS, Fazenda da Ronda p. Vacaria, NEH, ad araucarietum in umbrosis graminosis, 30.12.1946, fl., fr.

35897 RGS, Caracol p. Canela, NEH, in graminosis umbrosis, 23.2.1947, fl., fr., leg. K. Emrich.

36594 RGS, Cambará p. S. Francisco de Paula, NEH, ad araucarietum in umbrosis graminosis, 2.1948, fl., fr.

40315 RGS, Sta. Rita p. Farroupilha, NEH, ad viam in incultis, 29.1.1949, fl., fr.

44627 RGS, Vila Oliva p. Caxias, NEH, ad araucarietum in umbrosis, 3.12.1949, fl., fr.

44831 RGS, S. Francisco de Paula, NEH, ad araucarietum in dumosis, 18.12.1949, fl., fr.

44967 RGS, Gramado p. Canela, NEH, ad viam, 26.12.1949, fl., fr.

46294 RGS, S. Francisco de Paula, NEH, ad araucarietum in dumosis, 13.3.1950, fl., fr.

47990 RGS, Kappesberg p. Montenegro, NES, ad viam in umbrosis, 5.10.1946, fl., fr.

48320 SC, Figueiredo p. Bom Retiro, ad silvam in umbrosis, 28.12.1948, fl., fr., leg. R. Reitz 3503, det. H. Monteiro.

- 49975** RGS, Palmeira p. fl. Uruguay, NWU, ad araucarietum in umbrōsis, 12.2.1951, fl., fr.
- 51450** RGS, Passo do Socorro p. Vacaria, NEH, ad araucarietum, 26.12.1951, fl., fr.
- 52030** RGS, Jaquirana p. S. Francisco de Paula, NEH, in umbrōsis graminosis 20.2.1952, fl., fr.
- 52885** RGS, Caracol p. Canela, NEH, in dumosis, 27.2.1953, fl., fr., leg. K. Emrich.
- 54736** RGS, Fazenda Engiērt p. S. Francisco de Paula, NEH, ad viam in incultis dumosis, 1.1.1954, fl., fr.
- 54895** RGS, Vila Oliva p. Caxias, NEH, ad viam, 24.2.1954, fl., fr.
- 57856** RGS, Pestana p. Ijuí, NWH, in graminosis umbrōsis, 3.10.1953, fl., fr., leg. J. Pivetta 878.
- 59619** RGS, Farroupilha, NEH, in graminosis umbrōsis siccis, 26.10.1956, fl., fr., leg. O. Camargo 876.
- 60011** RGS, ibidem, in umbrōsis graminosis, 25.3.1957, fl., fr., leg. O. Camargo 1304.
- 61048** SC, Lages, in dumosis campestribus, 25.12.1956, fl., fr., leg. J. Mattos.
- 61049** SC, Lages, ad silvam in umbrōsis, 25.12.1956, fl., fr., leg. J. Mattos.
- 63490** SC, S. Joaquim, in campestribus dumosis, 10.1.1958, fl., fr., leg. J. Mattos.

Habit: Shrub, densely and shortly branched, very fibrous and tough, up to 1 m high.

Habitat: On dry places, preferably among short grasses along the edge of the forest.

Distribution in RGS: All collections from the northern Highlands.

General distribution: From Paraná and northeastern Argentina to RGS and Uruguay.

***Sida regnellii* R. E. Fries,**

Kunzl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 33, tab. 3, fig. 2–6;
 Ekman, Ark. f. Bot. 9, n. 4 (1909) 14; Pilar Rodrigo, Rev. Mus. La-
 plata, n. ser. 6, secc. bot. (1944) 163, fig. 33; Monteiro, Lilloa 17
 (1949) 520.

7613 RGS, S. Leopoldo, NEL, in campestribus dumosis, 1907, fl., fr., leg. F. Theissen SJ.

26087 RGS, Fazenda do Jarau p. Quaraí, SW, in campestribus siccis graminosis, 1.1945, fl., fr.

26873 RGS, Espírito Santo p. P. Alegre, NEL, in campestribus siccis dumosis, 3.1944, fl., fr., leg. K. Emrich.

27049 RGS, Morro da Polícia p. P. Alegre, in campestribus dumosis, 10.1944, fl., fr.

3064 RGS, Campo do Varejão p. Itapoan, NEL, in campestribus siccis sparse dumosis, 25.10.1945, fl., leg. K. Emrich.

36970 RGS, S. Leopoldo, NEL, in campestribus dumosis, 10.3.1947, fl.

- 38182** RGS, Sapucaia p. S. Leopoldo, NEL, in arenosis dumosis, 22.11.1948, fl., fr.
41472 RGS, Estação Azevedo p. Montenegro, NEL, in arenosis sparse dumosis, 6.5.1949, fl., fr.
45156 RGS, Fazenda do Arroio p. Osório, NEC, in sabulosis dumosis, 4.1.1950, fl., fr.
46360 RGS, Cristo Rei p. S. Leopoldo, NEL, in campestribus dumosis, 17.3.1950, fl., fr.
46447 RGS, Lagoa da Pinguela p. Osório, NEC, in arenosis dumosis, 27.3.1950, fl., fr.
47291 RGS, Campo do Varejão p. Itapoan, NEL in campestribus dumosis, 10.4.1948, fl., fr., leg. K. Emrich.
53441 RGS, Caaró p. S. Luiz, NWH, in campestribus graminosis, 24.11.1952, fl., fr.
63779 RGS, Pelotas, SEC, in incultis, 17.3.1958, fl., leg. J. Sacco 1020.

Habit: Tallest of the Rhombifolia-group, up to 1,5 m high.

Habitat: Dry, somewhat shrubby, Campos.

Distribution in RGS: All collections from the southern Campos area.

General distribution: Northeastern Argentina and RGS.

***Sida rhombifolia* L.,**

Spec. Plant. (1753) 684; Schumann, FB 12,3 (1891) 337, tab. 62; Ekman, Ark. f. Bot. 9, n. 4 (1909) 18; Herter, Flor. Urug. (1930) 86; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 6, secc. Bot. (1944) 173, fig. 38 — Sine varietatum distinctione.

- 209** RGS, Vila Manresa p. P. Alegre, NEL, in incultis siccis, 13.11.1933, fl.
2951 RGS, S. Borja, NW, in incultis, 1943, fl., leg. F. Baglione.
3754 RGS, Beckersberg p. Feliz, NES, in secundariis, 4.1.1941, fl., fr.
4175 RGS, Rio Garopá p. Quaraí, SW, ad viam in tritis, 14.1.1941, fl.
4651 RGS, Estreito p. Marcelino Ramos, NWU, ad viam, 16.2.1941, fl.
4894 RGS, Sta. Clara p. Lageado, CL, ad viam, 18.11.1940, fl., fr.
7614 RGS, S. Leopoldo, NEL, in rudertis, 1907, fl., leg. F. Theissen SJ.
8179 RGS, Sto. Angelo, NWH, in campestribus tritis, 18.2.1941, fl., fr.
8939 RGS, Bom Jesus, NEH, in tritis, 15.1.1941, fl., fr.
9164 RGS, Tupanciretan, NWH, in graminosis siccis, 26.1.1942, fl., fr.
9940 RGS, ibidem, in pascuo sicco, 24.1.1942, fr.
9977 RGS, Ijuisinho p. Tupanciretan, NWH, in graminosis, 30.1.1942, fl., fr.

- 11122** RGS, Marcelino Ramos, NWU, ad viam in trititis, 1.1943, fl., fr., leg. E. Friderichs SJ.
- 25177** RGS, S. Leopoldo, NEL, in siccis graminosis, 1907, fl., leg. F. Theissen SJ.
- 28597** RGS, Nonoai ad fl. Uruguay, NWU, in trititis, 3.1945, fl., fr.
- 28598** RGS, ibidem, in graminosis incultis, 3.1945, fl., fr.
- 29244** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus trititis, 10.10.1944, fl., fr.
- 29724** RGS, Kappesberg p. Montenegro, NES, in incultis, 17.3.1941, fl., fr.
- 31148** RGS, Vila Oliva p. Caxias, NEL, in trititis, 9.1.1946, fl., fr.
- 31425** SC, Sombrio p. Araranguá, in arenosis incultis, 31.1.1946, fl., fr.
- 33108** Paraná, Piraquara, ad viam, 8.2.1946, fl., fr., leg. G. Hatschbach 180.
- 35900** RGS, Caracol p. Canela, NEH, in graminosis siccis, 23.2.1947, fl., fr., leg. K. Emrich.
- 36595** RGS, Cambará p. S. Francisco de Paula, NEH, ad viam in dumosis, 2.1948, fl.
- 38056** RGS, Vila Manresa p. P. Alegre, NEL, in incultis, 17.11.1948, fl., fr.
- 40279** RGS, Sta. Rita p. Farroupilha, NEH, ad viam, 28.1.1949, fl., fr.,
- 42550** RGS, ibidem, 13.7.1949, fl., fr.
- 43773** RGS, Parecí p. Montenegro, NEL, ad viam, 7.10.1949, fl.
- 44810** RGS, S. Francisco de Paula, NEH, in trititis, 18.12.1949, fl., fr.
- 45777** RGS, Sta. Rita p. Farroupilha, NEH, ad viam, 7.2.1950, fl., fr.
- 46071** RGS, Vila Manresa p. P. Alegre, NEL, in incultis, 3.3.1950, fl., fr.
- 46596** RGS, Barra do Ribeiro p. P. Alegre, NEL, ad viam, 5.4.1950, fl., fr.
- 46965** RGS, Fazenda do Arroio p. Osório, NEC, in sabulosis ad viam, 1.5.1950, fr.
- 47079** RGS, Vila Manresa p. P. Alegre, NEL, ad viam, 15.5.1950, fl., fr.
- 47375** RGS, Campinas p. Sta. Rosa, NWH, in incultis, 2.1950, fl., fr., leg. A. Spies.
- 47990** RGS, Kappesberg p. Montenegro, NES, ad viam in incultis, 5.10.1946, fl., fr., leg. A. Sehnem SJ 2206.
- 49469** RGS, Mato Leitão p. Venâncio Aires, CL, ad viam in dumosis, 1.1.1951, fl., fr.
- 52619** RGS, sine loco, sine die, fl., fr.
- 57752** RGS, Pestana p. Ijuí, NWH, in incultis, 21.10.1953, fl., fr., leg. J. Pivetta 879.
- 58674** RGS, Estação de Silvicultura p. Sta. Maria, CL, in incultis, 10.1956, fl., fr., leg. O. Camargo 46.
- 58676** RGS, ibidem, fl., fr., leg. O. Camargo 44.
- 61646** RGS, Taquari, CL, in trititis, 8.12.1957, fl., fr., leg. O. Camargo 2773

63050 RGS, Pelotas, SEC, in incultis, 10.3.1956, fl., fr., leg. Schlich-ting.

63985 RGS, ibidem, in incultis, 7.3.1956, fl., leg. J. Sacco 501.

Habit: Small, tenacious half-shrub, up to 50 cm high, very variable.

Habitat: Always on dry, open, disturbed soil among grasses and herbs.

Distribution in RGS: One of the most common weeds throughout the cultivated area. — Geographical novelty.

General distribution: Tropical cosmopolite.

***Sida rubifolia* St. Hil.,**

Fl. Bras. Merid. 1 (1827) 144, tab. 34; Schumann, FB 12,3 (1891) 144, tab. 61.

9124 RGS, Jari p. Tupanciretan, NWH, in campestribus siccis graminosis, 25.1.1942, fl.

9162 RGS, Jari p. Tupanciretan, NWH, in saxosis siccis graminosis, 26.1.1942, fl.

9344 RGS, ibidem, 26.1.1942, fl.

9472 RGS, ibidem, 26.1.1942, fl.

Habit: Very small bushy shrub branched from a rootstock, branches 10—30 cm high.

Habitat: Dry, stony, grassy Campo.

Distribution in RGS: Northwestern Highlands only. — Geographical novelty.

General distribution: Minas Gerais, RGS.

***Sida spinosa* L.,**

Spec. Plant. (1753) 683; Schumann, FB 12,3 (1892) 298; Herter, Flor. Urug. (1930) 86; Pilar Rodrigo, Rev. Mus. Laplata, n. serie 6, secc. Bot. (1944) 124 (var. *angustifolia* (Lam.) Gris., fig. 16, 17, 19.

4239 RGS, Barra do Quaraí p. Uruguaiana, SW, in campestribus siccis dumosis, 15.1.1941, fl., fr.

4975 RGS, S. Leopoldo, NEL, ad viam in dumosis, 1940, fl., fr., leg. et det. E. Leite SJ.

6613 RGS, Nova Petrópolis, NES, ad viam, 10.11.1940, fl.

25613 RGS, Fazenda Sta. Cecília, SW, in campestribus siccis graminosis, 1.1944.

25761 RGS, ibidem, in siccis graminosis, 1.1944, fl., fr.

25949 RGS, Fazenda do Jarau p. Quaraí, SW, in campestribus siccis graminosis, 1.1945, fl., fr.

29585 RGS, Pareci p. Montenegro, NEL, in siccis graminosis, 26.9.1945, fl., fr., leg. E. Henz SJ.

41312 RGS, Morro Sta. Teresa p. P. Alegre, NEL, in siccis sparse dumosis, 29.4.1949, fl., fr.

Habit: Rhombilofia—group; up to 75 cm high.

Habitat: Dry, disturbed places.

Distribution in RGS: Widely scattered, nowhere frequent. — Geographical novelty.

General distribution: From the Antilles and Mexico to Uruguay and B. Aires.

***Sida tuberculata* R. E. Fries,**

Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 33, tab. 3, fig. 7—9;
Monteiro, Lilloa 17 (1949) 522, lam. 7.

4978 RGS, Vila Manresa p. P. Alegre, NEL, ad viam in siccis sub-
dumosis, 1.1939, fl., fr., leg. et det. E. Leite SJ.

8447 RGS, Arroio dos Ratos p. S. Jerônimo, NEL, ad viam in incultis,
8.1.1942, fl., fr.

Habit: Rhombilofia—group; up to 75 cm high.

Habitat: Dry, apparently disturbed soil only.

Distribution in RGS: Central Lowlands only; apparently rare. — Geographical novelty.

General distribution: From Ceará to RGS.

***Sida urens* L.,**

Amoen. acad. 5 (1788) 402; Schumann, FB 12,3 (1892) 306, tab. 60;
Ekman, Ark. f. Bot. 9, n. 4 (1909) 7; Pilar Rodrigo, Rev. Mus. La-
plata, n. ser. 6, secc. Bot. (1944) 142, fig. 19 2, 24.

201 RGS, Alto Feliz p. Caí, NES, ad silvam, 13.3.1933, fl., fr.

204 RGS, Vila Manresa p. P. Alegre, NEL, in dumosis, 13.10.1932,
fl., fr.

1325 RGS, Alto Feliz p. Caí, NES, in secundariis, 4.3.1933, fl.

3734 RGS, Beckersberg p. Feliz, NES, in dumosis, 4.1.1941, fl., fr.

3758 RGS, ibidem, in dumosis secundariis, 4.1.1941, fl.

3840 RGS, Forqueta p. Caí, NES, ad silvam, 5.1.1941, fl.

4979 RGS, S. Leopoldo, NEL, in secundariis, 3.1941, fl., fr., leg. et
det. E. Leite SJ.

6519 RGS, sine loco, sine die, fl.

7603 RGS, S. Leopoldo, NEL, ad silvam, 1907, fl., fr., leg. F. Theis-
sen SJ.

25174 RGS, ibidem, 1907, fl., fr., leg. F. Theissen SJ.

25210 RGS, ibidem, 1907, fl., fr., leg. F. Theissen SJ.

30659 RGS, Vila Manresa p. P. Alegre, NEL, ad silvam, 27.11.1946,
fl.

33502 RGS, S. Leopoldo, NEL, in dumosis, 17.10.1946, fl., leg. E.
Henz SJ.

37356 RGS, Sapucaia p. S. Leopoldo, NEL, in dumosis, 8.7.1956,
fl., fr.

38208 RGS, ibidem, 22.11.1948, fl., fr.

38493 RGS, S. Leopoldo, NEL, in silvula campestri, 4.12.1948, fl., fr.

- 38725** RGS, Rio dos Sinos p. S. Leopoldo, NEL ad rivum in dumosis, 10.12.1948, fl., fr.
- 39234** RGS, Morro do Sabiá p. P. Alegre, NEL, in silvula riparia, 28.12.1948, fl.
- 39740** RGS, Pareci p. Montenegro, NEL, ad silvam, 14.1.1949, fl.
- 40102** RGS, Vila Manresa p. P. Alegre, NEL, in silvula, 22.1.1949, fl.
- 40782** RGS, Sapucaia p. S. Leopoldo, NEL, in dumosis, 1.4.1949, fl., fr.
- 45883** RGS, Lagoa dos Quadros p. Torres, NEC, in silvula riparia, 21.2.1950, fl., fr.
- 46094** RGS, Vila Manresa p. P. Alegre, NEL, ad silvulam, 3.3.1950, fl., fr.
- 46361** RGS, Cristo Rei p. S. Leopoldo, NEL, ad silvam, 17.3.1950, fl., fr.
- 51773** RGS, Morro Grande p. Osório, NEC, in silvula sabulosa, 10.1.1952, fl., fr.
- 58706** RGS, Estação de Silvicultura p. Sta. Maria, CL, in silva campestri, 1.3.1956, fl., fr., leg. O. Camargo 72.
- 63594** RGS, Fazenda do Arroio p. Osório, NEC, in dumosis, 23.1.1958, fl.

Habit: Slender, leaning, shrub, up to 3 m high.

Habitat: Edge of the forest, secondary growth, Campos woodlets.

Distribution in RGS: Extremely common throughout the forested area. — Geographical novelty.

General distribution: Tropical and subtropical South America; eastern Africa, Madagascar.

Sida urticifolia St. Hil.,

Fl. Bras. Merid. 1 (1827) 148, tab. 37; Fries, Kungl. Sv. Vet. Ak. Handl. 42, n. 12 (1907) 39; Ekman, Ark. f. Bot. 9, n. 4 (1909) 5; Herter, Flor. Urug. (1930) 86; Pilar Rodrigo, Rev. Mus. Laplata, n. serie 6, secc. Bot. (1944) 104, fig. 7 1, 9.

210 RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis dense graminosis, 20.10.1932, fl., fr.

1287 RGS, S. Leopoldo, NEL, in campestribus siccis graminosis, 14.11.1934, fl.

1799 RGS, ibidem, in siccis graminosis, 3.12.1922, fl.

2949 RGS, S. Borja, NWH, in siccis graminosis, 1943, fl., leg. F. Baglione.

3606 Rio de Janeiro, Corcovado, ad silvam, 5.2.1940, fl., fr.

4977 RGS, Vila Manresa p. P. Alegre, NEL, in rupestribus graminosis, 1940, fl., fr., leg. et det. E. Leite SJ.

7610 RGS, S. Leopoldo, NEL, in siccis aperte dumosis, 1907, fl., fr., leg. F. Theissen SJ.

9075 RGS, Jari p. Tupanciretan, NWH, in campestribus siccis dumosis, 25.1.1942, fl., fr.

- 9494** RGS, ibidem, 27.1.1942, fl., fr.
- 9558** RGS, Tupanciretan, NWH, in siccis graminosis, 28.1.1942, fl., fr.
- 10013** RGS, Ijuisinho p. Tupanciretan, NWH, in campestribus saxosis graminosis, 30.1.1942, fl., fr.
- 10067** RGS, ibidem, 30.1.1942, fl., fr.
- 25976** RGS, S. Leopoldo, in campestribus sabulosis siccis, 1943, fl., fr., leg. A. Reckziegel SJ.
- 27072** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis graminosis, 10.1944, fl., fr.
- 28331** RGS, Nonoai ad fl. Uruguay, NWU, in graminosis, 3.1945, fl., fr.
- 28927** RGS, Montserrat p. P. Alegre, NEL, in graminosis siccis, 1944, fl., leg. K. Emrich.
- 29119** RGS, Vila Manresa p. P. Alegre, in campestribus siccis alte graminosis, 12.9.1945, fl., fr.
- 33443** RGS, S. Leopoldo, NEL, in sabulosis graminosis siccis, 10.7.1946, fl., leg. E. Henz SJ.
- 33709** RGS, sine loco, sine die, fl., fr.
- 34479** RGS, Cêrro Largo p. S. Luiz, NWH, in campestribus siccis graminosis, 6.12.1946, fl., leg. Irmão Augusto.
- 34564** RGS, Fazenda da Ronda p. Vacaria, NEH, in campestribus siccis graminosis, 30.12.1946, fl., fr.
- 34565** RGS, ibidem, in rupestribus parce humosis, 30.12.1946, fl., fr.
- 37413** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis graminosis, 5.7.1948, fl., fr.
- 38054** RGS, ibidem, 17.11.1948, fl., fr.
- 38240** RGS, Sapucaia p. S. Leopoldo, NEL, in arenosis, 22.11.1948, fl., fr.
- 38669** RGS, Rio dos Sinos p. S. Leopoldo, NEL, in campestribus siccis alte graminosis, 10.12.1948, fl., fr.
- 39061** RGS, Steinkopf p. S. Leopoldo, NEL, in arenosis graminosis, 20.12.1948, fl., fr.
- 40389** RGS, Morro da Polícia p. P. Alegre, NEL, in graminosis subdumosis, 5.3.1949, fl., fr.
- 48040** RGS, S. Luiz, NWH, in campestribus siccis graminosis, 4.2.1949, fl., leg. A. Sehnem SJ 3605.
- 49998** RGS, Palmeira ad fl. Uruguay, NWH, in campestribus siccis graminosis, 12.2.1951, fl., fr.
- 51611** RGS, Passo do Socorro p. Vacaria, NEH, in campestribus dumosis, 27.12.1951, fl., fr.
- 53043** RGS, Sto. Ângelo, NWH, in campestribus dumosis, 17.11.1952, fl., fr.
- 53456** RGS, Caaró p. S. Luiz, NWH, in campestribus graminosis siccis, 24.11.1952, fl., fr.
- 56028** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus saxosis graminosis, 19.11.1954, fl.
- 57723** RGS, Cruz Alta, NWH, in campestribus graminosis, 3.1.1954, fl., fr., leg. J. Pivetta 885.

- 57724** RGS, Pestana p. Ijuí, NWH, in campestribus graminosis, 25.11.1954, fl., fr., leg. J. Pivetta 886.
- 58513** RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis graminosis, 19.11.1955, fl., fr.
- 59192** RGS, Esteio p. S. Leopoldo, NEL, in siccis subdumetosis, 29.1.1956, fl., fr.
- 60306** RGS, S. Bernardo p. Ijuí, NWH, in campestribus siccis alte graminosis, 8.1.1957, fl.
- 60514** RGS, Pelotas, SEC, in siccis graminosis, 4.1.1954, fl., leg. J. Sacco.
- 61384** RGS, Pestana p. Ijuí, NWH, in graminosis siccis, 7.2.1956, fl., leg. J. Pivetta 1166.
- 63277** RGS, Pelotas, SEC, in graminosis, 12.12.1957, fl., leg. J. Sacco 854.

Habit: Woody shrub, branched from the base, branches prostrate, up to 50 cm long.

Habitat: Dry, more or less open, Campos.

Distribution in RGS: Very common over the whole of the Campos area.

General distribution: From Minas Gerais and Paraguay to RGS and Uruguay.

Sida viarum St. Hil.,

Fl. Bras. Merid. 1 (1827) 143; Schumann, FB 12,3 (1892) 301; Ekman, Ark. f. Bot. 9, n. 4 (1909) 7; Pilar Rodrigo, Rev. Mus. Laplata, n. ser. 6, secc. Bot. (1944) 131, f. 19 1, 20.

1332 SC, Itapiranga ad fl. Uruguay, ad viam in tritis, 17.2.1934, fl., fr.

4976 RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis graminosis, 19.1.1941, fl., leg. et det. E. Leite SJ.

27105 RGS, ibidem, in campestribus siccis graminosis, 10.1944, fl., fr.

27299 RGS, ibidem, 10.1944, fl., fr.

29152 RGS, ibidem, in rupestribus parce humosis, 12.9.1945, fl., fr.

33251 RGS, Pareci p. Montenegro, NEL, in campestribus siccis graminosis, 5.12.1945, fl., fr., leg. E. Henz SJ.

38126 RGS, Vila Manresa p. P. Alegre, NEL, in siccis tritis graminosis, 20.11.1948, fl., fr.

38415 RGS, Sapucaia p. S. Leopoldo, NEL, in arenosis siccis graminosis, 29.11.1948, fl., fr.

38797 RGS, Conceição p. Caí, NEL, in arenosis siccis, 14.12.1948, fl., fr.

39146 RGS, Espírito Santo p. P. Alegre, NEL, in campestribus siccis subnudis, 24.12.1948, fl., fr.

43332 RGS, Morro da Polícia p. P. Alegre, NEL, in siccis graminosis, 9.9.1949, fl., fr.

46121 RGS, Fazenda do Arroio, NEC, in graminosis siccis subsparse dumosis, 6.3.1950, fl., fr.

46894 RGS, Viamão p. P. Alegre, NEL, in arenosis subnudis, 17.4.1950, fl., fr.

51745 RGS, Morro Grande p. Osório, NEC, in arenosis graminosis, 10.1.1952, fl., fr.

Habit: Abundantly branched from a rootstock, branches prostrate to ascending, up to 30 cm long.

Habitat: Along roadsides and similar dry places of disturbed soil.

Distribution in RGS: Most of the findplaces in the northeastern Lowlands; probably through the whole of the Campos area. — Geographical novelty.

General distribution: From Minas Gerais and Paraguay to northeastern Argentina and RGS.

WISSADULA Med.

Wissadula glechomatifolia (St. Hil.) R. E. Fries

Kungl. Sv. Vet. Akad. Handl. 43, n. 4 (1908) 79, tab. 3, fig. 3, tab. 7, fig. 11, 12; Herter, Flor. Urug. (1930) 86. — *Abutilon glechomatifolium* St. Hil., Fl. Bras. Merid. 1 (1827) 198, tab. 1; Schumann, FB 12,3 (1891) 380, tab. 69.

200 RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis dumosis, 29.11.1932, fl.

2513 RGS, S. Borja, SW, in graminosis siccis, 1943, fl., leg. F. Baglione.

8354 RGS, Montserrat p. P. Alegre, NEL, in campestribus siccis graminosis, 1.12.1941, fl., leg. K. Emrich.

11751 RGS, in summo monte Sapucaia, NEL, in rupestribus parce humosis graminosis, 9.1943, fl.

27087 RGS, Vila Manresa p. P. Alegre, NEL, in campestribus siccis dumosis, 10.1944, fl., fr.

27123 RGS, ibidem, 10.1944, fl.

28986 RGS, ibidem, in subdumosis graminosis, 16.8.1945, fl.

33915 RGS, ibidem, 9.9.1946, fl., fr.

38457 RGS, ibidem, 1.12.1948, fl., fr.

44201 RGS, Morro Santana p. P. Alegre, NEL, in graminosis siccis, 2.11.1949, fl., fr.

44423 RGS, Granja Neugebauer p. Itapoan, NEL, in campestribus siccis sparse graminosis, 19.11.1949, fl., fr.

52622 Uruguay, Juan Jackson p. Soriano, in campestribus siccis graminosis, 11.1940, leg. et det. B. Rosengurtt PE-4514.

62719 RGS, Pôrto Alegre, NEL, in campestribus, 1.11.1957, fl., leg. O. Camargo 2394.

Habit: Woody, abundantly branched from a rootstock, branches prostrate to ascending, up to 50 cm long.

Habitat: Dry, grassy Campos.

Distribution in RGS: Except for 2513, all findplaces near P. Alegre, but probable in the whole southern Campos area.

General distribution: Northeastern Argentina, RGS, Uruguay.

***Wissadula parviflora* (St. Hil.) R. E. Fries,**

Kungl. Sv. Vet. Ak. Handl. 43, n. 4 (1908) 46, tab. 3, fig. 2, tab. 6, fig. 23; Ekman, Ark. f. Bot. 9, n. 4 (1909) 25. — *Abutilon parviflorum* St. Hil., Fl. Bras. Merid. 1 (1827) 201. — *Wissadula hernandoides* (Sweet) Garcke, Gürke, FB 12,3 (1892) 439.

28130 RGS, Nonoai ad fl. Uruguay, NWU, in araucarieto aperto, 3. 1945, fl.

49994 RGS, Palmeira p. fl. Uruguay, NWH, in silva aperta, 12.2. 1951, fl., fr.

53725 SC, Itapiranga ad fl. Uruguay superius, in silva aperta, 17. 1.1953, fl., fr.

Habit: Shrub, elegantly branched in the upper third, up to 2 m high.

Habitat: Open Araucaria and Ateleia copses.

Distribution in RGS: Northwestern edge of the forest belt only. — Geographical novelty.

General distribution: From Rio de Janeiro to Misiones and RGS.

***Wissadula subpeltata* (O. K.) R. E. Fries,**

Kungl. Sv. Vet. Akad. Handl. 43, n. 4 (1908) 56, tab. 5, fig. 1, 1a, tab. 6, fig. 27, tab. 7, fig. 15; Ekman, Ark. f. Bot. 9, n. 4 (1909) 25. — *Abutilon amplissimum* O. K. var. *subpeltatum* O. K., Revisio Gen. Plant. 3,2 (1898) 17.

1288 RGS, S. Leopoldo, NEL, in silvula campestri, 7. 10.1934, fl.

33109 Paraná, Florestal p. Piraquara, in campestribus dumosis, 8. 2.1946, fl., leg. G. Hatschbach 182.

33500 RGS, S. Leopoldo, NEL, in silvula campestri, 17.7.1946, fl., leg. E. Henz SJ.

33705 RGS, Paraná, in campestribus dumosis, 17.3.1946, fl., fr., leg. G. Hatschbach.

40449 RGS, Sapucaia p. S. Leopoldo, NEL, in alte dumosis, 9.3. 1949, fl.

40546 RGS, ibidem, in siccis dumosis, 17.3.1949, fl., fr.

40784 RGS, ibidem, ad silvulam campestem, 1.4.1949, fl., fr.

42479 RGS, Pareci p. Montenegro, NEL, in sparse dumosis, 7.7. 1949, fl., fr.

42570 RGS, ibidem, ad silvam, 18.7.1949, fl., fr.

44098 RGS, Barreto Viana p. S. Leopoldo, NEL, in campestribus dumosis, 24.10.1949, fl., fr.

46325 RGS, Cristo Rei p. S. Leopoldo, NEL, in dumosis, 17.3.1950, fl.

46448 RGS, Lagoa da Pinguela p. Osório, NEC, in dumosis secundariis, 27.3.1950, fr.

47308 RGS, Campo do Varejão p. Itapoan, NEL, in campestribus dumosis, 10.4.1948, fl., fr., leg. K. Emrich.

Habit: Nearly identical to the foregoing.

Habitat: Open Campos corses, edge of the rain forest, secondary growth.

Distribution in RGS: Apparently only in the northeastern Lowlands and near the sea coast.

General distribution: From Minas Gerais and Paraguay to northeastern Argentina and RGS.

CULTIVATED, ESCAPES, etc.,

9 species.

Abutilon globiferum D. Don: 25207.

Abutilon thomsonii Veitch: 7616.

Althaea rosea (L.) Cav.: 2060, 25977.

Gossypium barbadense L.: 60362.

Hibiscus esculentus L.: 37068.

Hibiscus rosa sinensis L.: 2043, 25208, 61917.

Hibiscus sabdariffa L.: 35999.

Hibiscus schizopetalus Hook. f.: 2132.

Sphaeralcea sp.: 63537.

CITED FOR RGS,

not present in my Herbarium, 11 species.

Abutilon melanocarpum St. Hil. et Naud.: Schumann, 1891.

Abutilon petiolare H. B. K.: Bornmüller, 1934.

Abutilon umbelliferum St. Hil.: Schumann, 1891; Fries, 1907; Ekman, 1913.

Hibiscus diversifolius Jacq.: Fries, 1907.

Modiola lateritia (Hook. et Arn.) Schum., 1891.

Pavonia belophylla Hochr.: Fries, 1907.

Pavonia malmeana R. E. Fries, 1907.

Sida ciliaris L.: Pilar Rodrigo, 1944.

Sida dubia S. Hil. et Naud.: Schumann, 1892.

Sida prostrata Cav.: Schumann, 1892 (*S. flavescens* Cav.); Fries, 1907 (*S. intermedia* St. Hil.).

Sida suborbicularis St. Hil. et Naud.: Schumann, 1892.

TO BE EXPECTED in RGS,

23 species.

- Abutilon crispum* Sweet: Schumann 1891 (South Brazil); Ekman 1909 (Misiones).
Abutilon Johnsonii Ekm.: Ekman 1909 (Misiones).
Cienfuegosia sulphurea (St. Hil.) Garcke: Fries 1907 (northeastern Argentina; Herter 1930 (western Uruguay).
Gaya gracilipes Schum.: Ekman 1909 (Misiones).
Hibiscus furcellatus Desr.: Pilar Rodrigo 1944 (Misiones).
Hibiscus lambertianus H. B. K.: Pilar Rodrigo 1944 (Uruguay, north-eastern Argentina).
Hibiscus linearis St. Hil. et Naud.: Ekman 1909 (Misiones).
Hibiscus sororius L. f.: Pilar Rodrigo 1944 (Misiones).
Pavonia xanthogloea Ekman 1909 (Misiones).
Sida acuminata DC.: Pilar Rodrigo 1944 (Misiones).
Sida anomala St. Hil.: Pilar Rodrigo 1944 (Misiones, Corrientes).
Sida argentina Schum.: Pilar Rodrigo 1944 (Misiones, Corrientes).
Sida confusa Hassl.: Pilar Rodrigo 1944 (Misiones).
Sida dictyocarpa Gris.: Pilar Rodrigo (Uruguay, Misiones).
Sida glaziovii Schum.: Pilar Rodrigo 1944 (Corrientes).
Sida hastata St. Hil.: Herter 1930 (Uruguay); Pilar Rodrigo 1944 (northern Argentina, Entrerrios).
Sida leprosa (Ort.) Schum.: Herter 1930 (Uruguay).
Sida linifolia Cav.: Schumann 1892 (Uruguay).
Sida montana Schum.: Pilar Rodrigo 1944 (Misiones, Uruguay).
Sida panniculata L.: Pilar Rodrigo 1944 (Misiones).
Sida paradoxa Rodr. 1944 (Corrientes).
Sida vespertina Ekm. 1909 (Misiones).
Sphaeralcea bonariensis (Cav.) Gris.: Krapovickas 1948 (Uruguay, Corrientes, Entrerrios).

R e s u m o

Com base em seu Herbário particular, o autor dá, em primeira aproximação, uma vista geral sôbre as Malvaceae do Rio Grande do Sul; 56 espécies em 11 gêneros, enumeradas e providas de anotações.

Zusammenfassung

Der Verfasser gibt auf Grundlage seiner Sammlung und in erster Annäherung eine Übersicht über die Malvaceenflora von Rio Grande do Sul, Südbrasilien; 56 Arten in 11 Gattungen werden aufgezählt und mit ergänzenden Bemerkungen versehen.

March 30, 1961.

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(referring to RGS).

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M. Gürke.

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