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# PESQUISAS

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AMARANTACEAE RIOGRANDENSES



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INSTITUTO ANCHIETANO DE PESQUISAS

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

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# PESQUISAS

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## AMARANTACEAE RIOGRANDENSES

B. RAMBO SJ.

Until 1961, the following 14 Amarantaceae were known from Rio Grande do Sul, southernmost State of Brazil:

- Alternanthera malmeana* R. E. Fries, 1919.
- Alternanthera micrantha* R. E. Fries, 1919.
- Alternanthera pungens* H. B. K. — Seubert, 1875.
- Alternanthera reineckii* Briq. — Fries, 1919.
- Gomphrena celosioides* Mart. — Malme, 1936; Bornmüller, 1934.
- Gomphrena elegans* Mart. — Fries, 1919.
- Gomphrena graminea* Moq. — Fries, 1919.
- Gomphrena perennis* L. — Malme, 1936.
- Gomphrena pulchella* Mart. — Seubert, 1875.
- Gomphrena sellowiana* Mart. — Seubert, 1875.
- Iresine celosia* L. — Bornmüller, 1934.
- Pfaffia gnaphalioides* (Vahl) Mart. — Bornmüller, 1934.
- Pfaffia sericea* (Spreng.) Mart. — Bornmüller, 1934; Malme, 1936.
- Philoxerus portulacoides* St. Hil. — Malme, 1936.

At the same time, the number of Amarantaceae for the Republic of Uruguay was 26 (Herter, 1930), and that of the Brazilian neighbor State Sta. Catarina, 27 (Smith and Downs, 1960).

The Herbarium Anchieta (PACA), among 460 collections of Amarantaceae numbers, in 8 genera, 32 species, of which 23 are geographic novelties.

In order to facilitate orientation, the findplaces are accompanied by symbols signifying the natural regions of the State:

RGS — Rio Grande do Sul.

SC — Santa Catarina.

NEL — northeastern lowlands: Campos, swamps, granit and sandstone hills up to 300 m.

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

NES — northeastern slope of the Highlands, covered with subtropical rain forest, up to 900 m.

- NEH — northeastern Highlands: Campos, Araucaria forests.  
 SEC — southeastern coast: sand dunes, dry Campos, swamps.  
 SEH — southeastern granit hills, up to 600 m: Campos, gallery formations, swamps.  
 SW — southwestern plains: Campos, gallery, swamps, woodlets.  
 CL — Central Lowlands: Campos, woodlets, gallery.  
 CS — Central slope of the Highlands: subtropical rain forest.  
 CH — Central Highlands: Campos, gallery, woodlets.  
 NWH — northwestern Highlands: Campos, gallery, woodlets.  
 NWU — valley of the Uruguay River: rain forest of subtropical type.

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

### ALTERNANTHERA Forsk.

#### *Alternanthera hirtula* (Mart.) R. E. Fries,

Ark. f. Bot. 16, n. 12 (1920) 18. — *Telanthera hirtula* (Mart.) Moq., DC. Prodr. 13, 2 (1849) 380; Seubert, FB 5,1 (1875) 178. — *Mogiphanes hirtula* Mart., Nov. Gen. et Spec. Plant. Bras., II (1826) 30, tab. 129.

**57346** RGS, Estação de Silvicultura p. Sta. Maria, CL, in campestribus subsiccis graminosis, 23.11.1955, fl., leg. O. Camargo 44.

**Habit:** Herb, moderately branched, heads cinnamon.

**Habitat:** Dry, grassy Campos.

**Distribution in RGS:** Only one collection from the central Campos. — **Geographical novelty.**

**General distribution:** From S. Paulo to RGS.

#### *Altermanthera maritima* (Mart.) St. Hil.,

Voy. Brés. II 2 (1833) 437; Fries, Ark. f. Bot. 16, n. 13 (1920) 10. — *Telanthera maritima* (Mart.) Moq., DC. Prodr. 13,2 (1849) 364. Seubert, FB 5,1 (1875) 170. — *Bucholzia maritima* Mart., Nov. Gen. Spec. 2 (1826) 50, tab. 147.

**3096** SC, in Insula Sta. Catarina, ad litus in arenosis humidis, 6.1938, fl., fr., det. L. B. Smith.

**3123** ibidem, 6.1938, fl., fr., det. L. B. Smith.

**3264** ibidem, 6.1938, fl., fr., det. L. B. Smith.

**4804** RGS, Passo do Inferno p. Canela, NEH, ad viam in graminosis, 10.2.1941, fl.

**50313**, SC, Armação in Insula Sta. Catarina, ad litus in sabulosis humidis, 15.7.1951, fl., fr., det. Asplund, L. B. Smith.

**55175** SC, Praia Braba p. Itajaí, ad litus in arenosis humidis, 6.2.1952, fl., leg. R. Reitz 4793, det. Süssenguth.

**Habit:** Herbaceous, fleshy, branches ascending; black after drying.

**Habitat:** Very common in sandy, more or less wet places near the sea.

**Distribution in RGS:** The only findplace lies at the upper rim of the southern slope of the Highlands, 700 m; as this habitat is entirely different from the others, and the species has never been found in RGS, there may be a mistake as to the ubication; if not: **Geographical novelty.**

**General distribution:** From Florida to RGS.

### ***Alternanthera micrantha* R.E. Fries,**

Ark. f. Bot. 16, n. 12 (1920) 14, fig. 4, a–c, tab. I: 2; Smith et Downs, Sellowia 12 (1960) 113, fig. 6, j–m.

**9292** RGS, ad fl. Toropi p. Jaguari, CS, ad viam in silva, 25.1.1942, fl.

9318 ibidem, 25.1.1952, fl.

**10913** RGS, Cêro Largo p. S. Luiz, NWH, in silva pluviali, 1.1943, fl., fr., leg. P. Buck SJ.

**28116** RGS, Nonoai ad fl. Uruguay, NWU, in silva campestri, 3.1945, fl., fr.

**33002** RGS, Pareci p. Montenegro, NEL, in silva secundaria, 28.12.1945, fl., fr., leg. E. Henz SJ.

**36021** RGS, Campinas p. Sta. Rosa, NWH, in silva, 2.1947, fl., fr., leg. A. Spies.

**49915** SC, Itapiranga ad fl. Uruguay sup., NWU, in silva pluviali, 6.2.1951, fl., fr.

**53700** SC, ibidem, 17.1.1953, fl., det. L. B. Smith.

**56072** RGS, Sta. Maria, CS, in umbrosis, 28.11.1953, fl., leg. J. Pivetta 528.

**58835** RGS, Estação de Silvicultura p. Sta. Maria, CL, in silva, 1.3.1956, fr., leg. O. Camargo 131.

**Habit:** Prostrate to ascending or even erect, abundantly branched, up to 1 m high.

**Habitat:** Different from all other species of the genus by its inhabiting the interior of the subtropical rain forest.

**Distribution in RGS:** Except for 33002 (northeastern Lowlands), all collections from the central or northwestern rain forest belt. Fries, l. c., says that it was found in RGS; but the "Eisenbahnstation Uruguay" lies in the State of SC. — **Geographical novelty.**

**General distribution:** Western SC and northwestern RGS.

### ***Alternanthera paronychioides* St. Hil.,**

Voy. Brés. II, 2 (1833) 439; Seubert, FB 5,1 (1875) 185, tab. 56 (incl. *A. pilosa* Moq.); Fries, Ark. f. Bot. 16, n. 12 (1920) 8; Süssenguth, Rep. 35 (1934) 4 (cum var. *pilosa* (Moq.) Sssgth); idem Covas, Darwiniana 5 (1941) 353.

- 2884** RGS, S. Miguel p. S. Luiz, NWH, in humidis repens, 29.1.1938, fl., fr.
- 4025** Uruguay, Tres Fornos p. Rivera, in subpaludosis, 12.1.1941, fl., fr.
- 4041** Uruguay, Cuñapiru p. Rivera, in humidis, 12.1.1941, fl., fr.
- 4205** RGS, Barra do Quaraí p. Uruguaiana, SW, in humidis, 15.1.1941, fl.
- 10919** RGS, Marcelino Ramos ad fl. Uruguay superius, NWU, in subpaludosis, 1.1943, fl., fr., leg. E. Friderichs SJ.
- 25172** RGS, S. Leopoldo, NEL, in humidis, 1907, fl., fr., leg. F. Theissen S. J.
- 25742** RGS, Fazenda Sta. Cecília p. S. Gabriel, SW, in humidis, 1.1944, fr.
- 26757** RGS, Cêrro Largo p. S. Luiz, NWH, in subpaludosis repens, 9.1944, fl., fr., leg. E. Friderichs SJ.
- 28030** RGS, Vila Oliva p. Caxias, NEH, in paludosis, 1.1945, fl., fr., leg. P. Buck SJ.
- 31153** RGS, Vila Oliva p. Caxias, NEH, ad paludem, 9.1.1946, fl., fr.
- 33069** RGS, Pareci p. Montenegro, NEL, ad paludem, 28.12.1945, fl., fr., leg. A. Strieder SJ.
- 35419** RGS, S. Leopoldo, NEL, in paludosis, 28.10.1946, fl., fr., leg. L. Stahl SJ.
- 36001** RGS, sine loco, sine die, fl., fr.
- 39090** RGS, Itapoan p. P. Alegre, NEL, in arenosis humidis, 22.12.1948, fl.
- 40165** RGS, Guaíba p. P. Alegre, NEL, in paludosis, 24.1.1949, fl., fr.
- 44314** RGS, Esteio p. S. Leopoldo, NEL, in humidis, 8.11.1949, fl., fr.
- 44952** RGS, Gramado p. Canela, NEH, in humidis repens, 26.12.1949, fl., fr.
- 45731** RGS, Sta. Rita p. Farroupilha, NEH, in humidis, 7.2.1950, fl., fr.
- 45884** RGS, Lagoa dos Quadros p. Tôrres, NEC, in arenosis humidis, 24.2.1950, fl., fr.
- 47366** RGS, Natal p. Sta. Rosa, NWH, in humidis, 2.1950, fl., fr., leg. A. Spies.
- 56070** RGS, Pestana p. Ijuí, NWH, in humidis, 14.1.1954, fl., leg. J. Pivetta 526.
- 56071** ibidem, 25.1.1954, fl., leg. J. Pivetta 516.
- 61607** RGS, Taquari, CL, in humidis, 12.12.1957, fl., leg. O. Camargo 2897.
- 62856** ibidem, 10.12.1957, fl., leg. O. Camargo 3059.
- 63252** RGS, Uruguaiana, SW, in paludosis, 1957, fl., leg. A. Spies.
- 63305** RGS, Pelotas, SEC, in humidis, 1.12.1957, fl., leg. J. Sacco 723.

**Habit:** Prostrate, rooting at all joints, extremely variable.

**Habitat:** Moist to swampy places.

**Distribution in RGS:** Throughout the whole of the State. Geographical novelty.

**General distribution** (including *A. pilosa* Moq.): From Amazonia to Uruguay

***Alternanthera philoxeroides* (Mart.) Gris.,**

Symb. Flor. Argent. (1879) 36; Süssenguth, Repert. 35 (1934) 303; Repert. 39 (1935—1936) 4; Smith et Downs, Sellowia 12 (1960) 112, fig. 6, e—i; Covas, Darwiniana 5 (1941) 355, fig. 9, a—f. — *Telanthera philoxeroides* Moq., DC. Prodr. 13, 1 (1849) 362; Seubert, FB 5,1 (1875) 169, tab. 51; Herter, Flor. Urug. (1930) 57. — *Bucholzia philoxeroides* Mart., Beitr. z. Kennt. d. Amarantaceen (1826) 107.

**6** RGS, Vila Manresa p. P. Alegre, NEL, in paludosis alte graminosis, 17.3.1933, fl., fr.

**3959** Uruguay, Cuñapiru p. Rivera, in paludosis dumosis, 12.1.1941, fl.

**10930** RGS, Sta. Maria, CL, in humidis dumosis, 1943, fl., leg. A. Heidler SJ.

**25362** SC, Florianópolis, in paludosis, 1.3.1942, fl., fr., leg. A. Rohr SJ.

**26064** RGS, Fazenda do Jarau p. Quaraí, SW, in humidis herbosis, 1.1945, fl.

**26386** RGS, Fazenda das Almas p. Palmares, NEC, in paludosis, 1.1945, fl., fr., leg. P. Buck SJ.

**32693** RGS, Pareci p. Montenegro, NEL, in paludosis, 15.11.1945, fl., fr., leg. E. Henz SJ.

**32985** RGS, Vila Manresa p. P. Alegre, NEL, in humidis dense herbosis, 12.12.1945, fl.

**35413** RGS, S. Leopoldo, NEL, in paludosis dumosis, 28.10.1946, fl., fr., leg. E. Henz SJ.

**38231** RGS, Sapucaia p. S. Leopoldo, NEL, in paludosis, 22.11.1948, fl., fr.

**38729** RGS, Rio dos Sinos p. S. Leopoldo, in paludosis, 10.12.1948, fl., fr.

**39095** RGS, Itapoan p. P. Alegre, NEL, in humidis dense herbosis, 22.12.1948, fl., fr.

**39382** RGS, Belém Novo p. P. Alegre, NEL, in paludosis, 31-12-1948, fl., fr.

**40093** RGS, Vila Manresa p. P. Alegre, NEL, in humidis incultis, 22.1.1949, fl., fr.

**44269** RGS, Sapucaia p. S. Leopoldo, NEL, in humidis dumosis, 5.11.1949, fl.

**49762** RGS, Lagoa dos Quadros p. Tôrres, NEC, ad lacum in dense dumosis, 18.1.1951, fl., fr.

**51722** RGS, Palmares ad Lagoa dos Patos, NEC, in humidis dense herbosis, 8.1.1952, fl., fr.

**56036** RGS, Vila Manresa p. P. Alegre, NEL, in humidis, 19.11.1954, fl.

**61702** RGS, Taquari, CL, in humidis graminosis, 10.12.1957, fl., leg. O. Camargo, 2873.

**63040** RGS, Pelotas, SEC, in paludosis, 10.3.1956, fl., leg. Schlichting.

- 63982** RGS, Pelotas, SEC, in humidis, 2.12.1957, fl., leg. J. Sacco 730.  
**63746** RGS, Pelotas, SEC, in humidis, 25.2.1958, ster., leg. J. Sacco 904.

**Habit:** Herbaceous, rooting at the lower joints, prostrate to ascending or erect, up to 1 m high.

**Habitat:** Wet to swampy places among herbs and shrubs; especially frequent in moist cultivated fields, where it becomes a weed.

**Distribution in RGS:** All findplaces in the Lowlands. **Geographical novelty.**

**General distribution:** Through the whole of South America, down to Uruguay and B. Aires; adventitious in many places.

### ***Alternanthera praelonga* St. Hil.,**

Voy. Brésil 2 (1833); Fries, Ark. f. Bot. 16, n. 13 (1920) 11. — *Te-lanthera praelonga* Moq., DC. Prodr. 13 (1849) 369; Seubert, FB 5,1 (1875) 170.

**56192** RGS, Tôrres, NEC, in graminosis humidis, 12.11.1954, fl., fr.

**56515** RGS, Tôrres, NEC, in graminosis arenosis humidis, 19.1.1955, fl., fr.

**Habit:** Prostrate to ascending, branches up to 50 cm long, very hairy.

**Habitat:** Among grasses and small shrubs less than 50 m from the surf.

**Distribution in RGS:** No other findplace. — **Geographical novelty.**

**General distribution:** From Bahía to RGS.

### ***Alternanthera reineckii* Briq.,**

Ann. Conserv. et du Jard. Bot. Genève 3 (1899) 151; Fries, Ark. f. Bot. 16, n. 12 (1920) 16. — Covas, Darwiniana 5 (1941) 350, fig. 9, 9-h.

**44579** RGS, Osório, NEC, in humidis, 24.11.1949, fl., fr.

**54979** RGS, Vila Oliva p. Caxias, NEH, in paludosis, 24.2.1954, fl., fr.

**Habit:** Similar to *A. paronychioides* but in all parts less robust.

**Habitat:** Very wet to swampy places.

**Distribution in RGS:** All collections from the northeastern Highlands; not frequent.

**General distribution:** From northeastern Argentina and southern Brazil to RGS.

## **AMARANTUS L.**

### ***Amarantus crispus* Terrac.,**

Atti Acad. Sci. Napol. ser. 2,4 (1890); Herter, Flor. Urug. (1930) 57; Süssenguth, Rev. Sud. Bot. 5 (1937) 57. — Covas, Darwiniana 5 (1941) 338, fig. 4, a-b.



- 25510** RGS, S. Leopoldo, NEL, in incultis, 1943, fl., fr., leg. R. Reitz  
**58675** Estação de Silvicultura p. Sta. Maria, CL, in incultis, 10.1.1956, fl., fr., leg. O. Camargo 45.  
**63192** RGS, Uruguaiiana, SW, in incultis, 1957, fl., leg. A. Spies.

**Habit:** Herbaceous, ascending to erect.

**Habitat:** On disturbed soil.

**Distribution in RGS:** Rare, most collections from the Southwest. — **Geographical novelty.**

**General distribution:** Patagonia to Uruguay and RGS.

### **Amarantus deflexus L.,**

Mantissa II (1771) 295; Seubert, FB 5,1 (1875) 235; Herter, Flor. Urug. (1930) 57; Süssenguth, Rev. Sud. Bot. 5 (1937) 7; Covas, Darwiniana 5 (1941) 341, fig. 6, a—f.

- 1562** RGS, Esteio p. S. Leopoldo, NEL, ad viam, 10.11.1931, fl., fr.  
**6635** RGS, Sta. Clara p. Lageado, NEL, in incultis, 18.11.1940, fl., fr.  
**7643** RGS, S. Leopoldo, NEL, in agro, 1907, fl., fr., leg. F. Theissen SJ.  
**25509** RGS, S. Leopoldo, NEL, in incultis, 1943, fl., fr., leg. R. Reitz.  
**29267** RGS, Vila Manresa p. P. Alegre, NEL, in agro, 10.10.1945, fl.  
**29309** RGS, ibidem, 16.10.1945, fl., fr.  
**32576** RGS, Pareci p. Montenegro, NEL, in agro, 11.11.1945, fl., fr.  
**36563** RGS, Cambará p. S. Francisco de Paula, NEH, ad viam, 2.1948, fl., fr.  
**40277** RGS, Sta. Rita p. Farroupilha, NEH, in agro, 28-1-1949, fl., fr.  
**40851** RGS, Morretes p. P. Alegre, NEL, in incultis, 10.8.1949, fl., fr.  
**45081** RGS, Gramado p. Canela, NEH, ad viam, 26.12.1949, fl., fr.  
**45703** RGS, Sta. Rita p. Farroupilha, NEH, in agro, 6.2.1950, fl., fr.  
**47082** RGS, Vila Manresa p. P. Alegre, NEL, ad viam, 15.5.1950, fl., fr.  
**59803** RGS, Farroupilha, NEH, in incultis, 28.12.1956, fl., fr., leg. O. Camargo 1061.

**Habit:** Herbaceous, fleshy, prostrate, leaves small.

**Habitat:** Always on disturbed soil.

**Distribution in RGS:** Common weed all over the cultivated area. **Geographical novelty.**

**General distribution:** Probably from southern Europe; North and South America.

### **Amarantus gracilis Desf.,**

Tabl. Hort. Par. ed. 1 (1804) 43; Herter, Flor. Urug. (1930) 57; Süssenguth, Rev. Sud. Bot. 5 (1937) 7; Covas, Darwiniana 5 (1937) 343, fig. 5, c—d. — *Euxolus caudatus* (Jacq.) Moq., DC. Prodr. 13,2 (1849) 274; Seubert, FB 5,1 (1879) 235, tab. 75.

- 5** RGS, Vila Manresa p. P. Alegre, NEL, in agro, 7.10.1933, fl., fr.

- 3867** RGS, sine loco, sine die, fl., fr.  
**4083** Uruguay, Tres Fornos p. Rivera, 12.1.1941, fl., fr.  
**4094** RGS, Quaraí, SW, ad viam ferream, 14.1.1941, fl., fr.  
**9904** RGS, Tupanciretan, NWH, in incultis, 26.1.1942, fl., fr.  
**10914** RGS, Cêrro Largo p. S. Luiz, NWH, in agro, 1.1943, fl., fr.  
**27595** RGS, Pareci p. Montenegro, NEL, in agro, 1944, fl., fr., leg. E. Henz SJ.  
**29268** RGS, Vila Manresa p. P. Alegre, NEL, in agro, 10.10.1945, fl., fr.  
**35805** RGS, Kappesberg p. Montenegro, NES, in incultis, 27.12.1946, fl., fr.  
**40084** RGS, Vila Manresa p. P. Alegre, NEL, in agro, 22.1.1949, fl., fr.  
**40120** RGS, Guaíba p. P. Alegre, NEL, ad viam, 24.1.1949, fl., fr.  
**41362** RGS, Morretes p. P. Alegre, NEL, in incultis, 2.5.1949, fl., fr.  
**44744** RGS, Lagoa dos Barros p. Osório, NEC, ad viam, 14.12.1949, fl., fr.  
**46669** RGS, Barra do Ribeiro p. P. Alegre, NEL, in incultis, 5.4.1950, fl.  
**52318** RGS, sine loco, sine die, fl., fr.  
**56067** RGS, Pestana p. Ijuí, NWH, in agro, 4-12-1953, fl., fr., leg. J. Pivetta.  
**56068** RGS, ibidem 30.8.1953, fl., fr., leg. J. Pivetta.

**Habit:** Herbaceous, fleshy, prostrate to ascending, sometimes erect.

**Habitat:** Always on disturbed soil.

**Distribution in RGS:** Common weed all over the cultivated area. — **Geographical novelty.**

**General distribution:** From the Old World through all warm and temperate countries.

### **Amarantus hybridus L.,**

Spec. Plant. (1753) 990; Covas, Darwiniana 5 (1941) 334, fig. 3; Smith et Downs, Sellowia 12 (1960) 105, fig. 3, g-k. — *A. chlorostachys* Willd., *Amarant.* (1790) 34, tab. 10. fig. 19; Seubert, *FB* 5,1 (1875) 239.

- 4** RGS, Alto Feliz p. Caí, NES, in agro, fl., fr.  
**28066** RGS, Vila Oliva p. Caxias, NEH, in incultis, 2.1945, fl., fr., leg. P. Buck SJ.  
**28377** RGS, Nonoai ad fl. Uruguay superius, NWU, ad viam in incultis, 3.1945, fl., fr.  
**30051** RGS, Vila Manresa p. P. Alegre, NEL, in agro, 1945, fl., fr.  
**30131** RGS, ibidem, 6. 1945, fl., fr.  
**35002** RGS, Fazenda da Ronda p. Vacaria, NEH, ad viam, 10.1.1947, fl., fr.  
**35692** RGS, S. Leopoldo, NEL, in agro, 20.11.1946, fl., fr., leg. L. Vier SJ.  
**35806** RGS, Kappesberg p. Montenegro, NES, in agro, 27.12.1947, fl., fr., leg. E. Henz SJ.

- 40220** RGS, Sta. Rita p. Farroupilha, NEH, in incultis, 27.1.1949, fl., fr.
- 40365** RGS, Vila Manresa p. P. Alegre, NEL, in agro, 3.3.1949, fl., fr.
- 40699** RGS, ibidem, NEL, in incultis, fl., fr.
- 40718** RGS, Cristal p. P. Alegre, NEL, in ruderalis, 31.3.1949, fr.
- 41150** RGS, Ilha da Pintada p. P. Alegre, NEL, in tritis, 24.4.1949, fl., fr.
- 41381** RGS, Morretes p. P. Alegre, NEL, in incultis, 2.5.1949, fl., fr.
- 42111** RGS, Schwabenschneis p. Novo Hamburgo, NES, in agro, 23.6.1949, fl., fr.
- 42323** RGS, Langschneis p. Montenegro, NES, in agro, 2.7.1949, fl., fr.
- 46038** RGS, Lagoa dos Quadros p. Osório, NEC, in incultis, 21.2.1950, fl., fr.
- 46364** RGS, Gramado p. Canela, NEH, in incultis, 23.3.1950, fl., fr.
- 47089** RGS, Vila Manresa p. P. Alegre, NEL, in incultis, 15.5.1950, fl., fr.
- 47123** RGS, Butterberg p. Montenegro, NES, in agro, 22.5.1950, fl., fr.
- 50750** SC, Figueiredo p. Bom Retiro, in incultis, 28.12.1948, fl., fr., leg. R. Reitz 2838, det. L. B. Smith.
- 52320** RGS, sine loco, sine die, fl., fr.
- 53560** Paraná, Cascavel, in incultis, 10.1.1953, fl., fr.
- 56069** RGS, Pestana p. Ijuí, NWH, in agro, 26.11.1953, fl., fr., leg. J. Pivetta 527.
- 59712** RGS, Farroupilha, NEH, in incultis, 21.5.1956, fl., fr., leg. O. Camargo 676.
- 59865** RGS, Farroupilha, NEH, in agro, 15.2.1957, fl., fr. leg. O. Camargo 1152.
- 59900** RGS, ibidem, in incultis, 25.3.1957, fl., fr., leg. O. Camargo 1181.
- 60673** RGS, ibidem, ad viam, 7.5.1957, fl., fr., leg. O. Camargo 1365.
- 62996** RGS, Pelotas, CS, in incultis, 8.3.1956, fl., fr., leg. Schlichting.

**Habit:** Tall herb, up to 2 m high, the whole plant reddish.

**Habitat:** Weed on cultivated fields and otherwise disturbed soil.

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

**General distribution:** Over most of the warm and temperate regions.

### **Amarantus lividus L.,**

Spec. Plant. (1753) 990; Covas, Darwiniana 5 (1937) 345 (var. *ascendens* (Lois.) Thell.); Smith et Downs, Sellowia 12 (1960) 106, fig. 3, q-u. — *Euxolus viridis* Moq. sensu Seubert, FB 5,1 (1875) 233.

**60842** RGS, Sta. Rita p. Farroupilha, NEH, in incultis, 18.5.1957, fl., fr., leg. O. Camargo 1486.

**61898** RGS, Taquari, CL, in incultis, 14.12.1957, fl., fr., leg. O. Camargo 2936.

**Habit:** Herbaceous, fleshy, prostrate to ascending.

**Habitat:** Always on disturbed soil.

**Distribution in RGS:** Apparently rare. — **Geographical novelty.**

**General distribution:** From North America to Buenos Aires and RGS.

### **Amarantus muricatus** Gill. ex Moq.,

DC. Prodr. 13, 2 (1849); Herter, Flor. Urug. (1930) 57; Süssenguth, Rev. Sud. Bot. 5 (1937) 7; Covas, Darwiniana 5 (1937) 341, fig. 5, a—b.

**60559** RGS, Pôrto Alegre, NEL, in via publica (Rua Coronel Vicente) ad domum, 9.1956, fl. fr.

**Habit:** Herbaceous, erect, not fleshy, leaves very narrow.

**Habitat:** Distinctly ruderal.

**Distribution in RGS:** Only one findplace. — **Geographical novelty.**

**General distribution:** Native in Argentina; from there to Uruguay and probably to southern and western RGS.

### **Amarantus spinosus** L.,

Spec. Plant. (1753) 991; Seubert, FB 5,1 (1875) 239; Smith et Downs, Sellowia 12 (1960) 104, fig. 3, a—f.

**10918** RGS, Marcelino Ramos ad fl. Uruguay superius, NWU, in agro, 1.1943, fl., fr., leg. E. Friderichs SJ.

**11986** RGS, Montserrat p. P. Alegre, NEL, in ruderalis, 2.4.1938, fl., fr., leg. K. Emrich.

**40717** RGS, Cristal p. P. Alegre, NEL, in ruderalis, 31.3.1949, fl., fr.

**41152** RGS, Ilha da Pintada p. P. Alegre, in ruderalis, 20.4.1949, fl., fr.

**Habit:** Erect, branched, up to 1 m high.

**Habitat:** On disturbed soil only.

**Distribution in RGS:** Common weed on cultivated fields at the upper Uruguay River; apparently absent from the rest of the State, except for some sporadic occurrences near P. Alegre. — **Geographical novelty.**

**General distribution:** From Texas to RGS; adventitious in many warm or temperate countries.

## **CELOSIA** L.

### **Celosia grandifolia** Moq.,

DC. Prodr. 13,2 (1849) 238; Seubert, FB 5,1 (1875) 244 (incl. *C. brasiliensis* Moq.); Smith et Downs, Sellowia 12 (1960) 111, fig. 1, a—i.

- 1800** RGS, Esteio p. S. Leopoldo, NEL, in silva humida, 2.11.1931, ster.
- 31573** SC, Sombrio p. Araranguá, in silva umbrosa subpaludosa, 4. 2.1946, fl.
- 38320** RGS, Esteio p. S. Leopoldo, NEL, in silva umbrosa, 24.11. 1948, fr.
- 40603** RGS, ibidem, 23.3.1949, fr.
- 41631** RGS, ibidem, 18.5.1949, fr.
- 41631** RGS, ibidem, 18.5.1949, fr.
- 46978** RGS, Osório, NEC, in silva umbrosa, 1.5.1950, fr.
- 47616** SC, Braço Serafim p. Itajaí, in silva pluviali, 22.1.1948, fl., leg. R. Reitz 2909, det. L. B. Smith.
- 49739** RGS, Lagoa dos Quadros p. Tôrres, NEC, in silva humida, 18. 1.1951, fr.

**Habit:** Herbaceous, erect, up to 50 cm high, roots fleshy, the whole plant black after drying.

**Habitat:** In the interior of somewhat swampy rain forest.

**Distribution in RGS:** Northeastern rain forests only. — **Geographical novelty.**

**General distribution:** From Rio de Janeiro to RGS.

## CHAMISSOA H. B. K.

### *Chamissoa acuminata* Mart.,

Nov. Act. Nat. Cur. 13 (1836) 286; Seubert, FB 5,1. (1879) 243; Smith et Downs, Sellowia 12 (1960) 103, fig. 2, 1—p.

- 1567** SC, Itapiranga ad fl. Uruguay superius, in silva pluviali, 15. 2.1934, fl., fr.
- 2245** RGS, Kappesberg p. Montenegro, NES, in silva umbrosa, 27. 12.1945, fl.
- 2997** RGS, sine loco, sine die, fl.
- 10922** RGS, Marcelino Ramos ad fl. Uruguay superius, NWU, in silva pluviali, 1.1943, fl., fr., leg. E. Friderichs.
- 28080** RGS, Vila Oliva p. Caxias, in araucarieto umbroso, 2. 1945, fl., fr., leg. P. Buck SJ.
- 28157** RGS, Nonoai ad fl. Uruguay superius, NWU, in silva campestri, 3.1945, fl., fr.
- 31036** RGS, Vila Oliva p. Caxias, NEH, in araucarieto, 4.1.1946, fl., fr.
- 31298** RGS, Vila Oliva p. Caxias, NEH, in silva, 24.2.1946, fl., fr.
- 35649** RGS, Kappesberg p. Montenegro, NES, in silva pluviali, 15. 12.1946, fl., fr., leg. E. Henz SJ.
- 35877** RGS, Caracol p. Canela, NES, in araucarieto umbroso, 11.2. 1947, fl., fr., leg. K. Emrich.

- 36089** RGS, Campinas p. Sta. Rosa, NWH, in silva obscura, 2.1947, fl., fr., leg. A. Spies.
- 41843** RGS, Canoas p. P. Alegre, NEL, in silva umbrosa, 3.6.1949, fr.
- 41964** RGS, Nova Petrópolis, NES, in silva, 13.6.1949, fr.
- 44696** RGS, Vila Oliva p. Caxias, in araucarieto umbroso, 3.12.1949, fl.
- 46238** RGS, S. Francisco de Paula, NEH, in araucarieto, 13.3.1950, fl.
- 47164** RGS, ad flumen Piaí p. Caxias, NES, in silva pluviali, 21.6.1950, fl., fr.
- 49859** SC, Itapiranga ad fl. Uruguay superius, in silva pluviali, 6.2.1951, fl., fr.
- 50008** RGS, Palmeira, NWH, in araucarieto, 12.2.1951, fl., fr.
- 50696** RGS, Kappesberg p. Montenegro, NES, in silva pluviali, 25.3.1950, fl., fr., leg. A. Sehnem SJ 4892.
- 51500** RGS, Passo do Socorro p. Vacaria, NEH, in araucarieto, 26.12.1951, fl., fr.
- 53554** Paraná, Cascavel, ad silvam in dumosis, 10.1.1953, fl., fr.
- 53702** SC, Itapiranga ad fl. Uruguay sup., in silva, 17.1.1953, fl., fr., det. L. B. Smith.
- 54928** RGS, Vila Oliva p. Caxias, NEH, in araucarieto, 24.2.1954, fl., fr.
- 55176** SC, Serra do Mirador p. Taió, in silva, 16.12.1950, fl., fr., leg. R. Reitz 4791, det. Süssenguth.
- 55544** SC, Serra do Pilão p. Araranguá, in silva, 29.1.1950, fl., fr., leg. R. Reitz 5178.
- 50063** RGS, Pestana p. Ijuí, NWH, in silva, 12.11.1954, fl., fr., leg. J. Pivetta 531.
- 56065** RGS, ibidem, in silva pluviali, 25.10.1953, fl., leg. J. Pivetta 517.
- 59878** RGS, Farroupilha, NEH, in araucarieto, 12.4.1957, fl., leg. O. Camargo 1275.

**Habit:** Herbaceous, somewhat lignified near the base, ascending to erect, up to 1 m high.

**Habitat:** Always in the forest, subtropical and Araucaria.

**Distribution in RGS:** Through the whole of the northern forested area. — **Geographical novelty.**

**General distribution:** From Bahia to RGS.

### **Chamissoa altissima** (Jacq.) H. B. K.,

Nova Gen. et Spec. 2 (1817) 197, tab. 125; Seubert, FB 5,1 (1875) 242; Fries, Ark. f. Bot. 16, n. 13 (1920) 3; Süssenguth, Repert. 35 (1934) 306; Smith et Downs, Sellowia 12 (1960) 102, fig 2, g–k. — *Achyranthes altissima* Jacq., Enum. Plant. Carib. (1760) 17.

- 2844** RGS, Sta. Maria, CS, in silva pluviali, 13.4.1936, fr., leg. E. Friderichs SJ.
- 10915** RGS, Cêro Largo p. S. Luiz, NWH, ad silvam pluvialem, 1. 1943, fr., leg. P. Buck SJ.
- 28488** RGS, Nonoai ad fl. Uruguay superius, NWU, ad silvam, 3. 1945, fr.
- 41604** RGS, ad montem Ferrabraz p. Novo Hamburgo, NEL, ad silvam pluvialem, 16.5.1949, fr.
- 41732** RGS, Schwabenschneis p. Novo Hamburgo, NES, ad silvam pluvialem, 25.5.1949, fr.
- 42163** RGS, ibidem, 25.6.1949, fr.
- 42326** RGS, Langschneis p. Montenegro, NES, ad silvam pluvialem scandens, 2.7.1949, fr.
- 43017** RGS, Schwabenschneis p. Novo Hamburgo, NES, ad silvam pluvialem, 22.8.1949, fr.
- 46979** RGS, sine loco, 1.5.1950, fr.
- 47152** RGS, Butterberg p. Montenegro, NES, 22.5.1950, fr. ad silvam.
- 47383** RGS, Campinas p. Sta. Rosa, NWH, in silva, 2.1950. fr., leg. A. Spies.
- 48000** RGS, Kappesberg p. Montenegro, NES, ad silvam pluvialem, 14.5.1947, fr., leg. A. Sehnem SJ 2799.
- 48396** RGS, Badensertal p. Montenegro, NES, ad silvam scandens, 19.4.1949, fr., leg. A. Sehnem SJ 3765.
- 48397** RGS, ibidem, 10.4.1949, fr., leg. A. Sehnem SJ 3764.
- 49905** SC, Itapiranga ad fl. Uruguay superius, in silva pluviali, 6. 2.1951, fr.

**Habit:** More or less woody climber, abundantly branched, up to 5 m.

**Habitat:** Edge and clearings of the subtropical rain forest.

**Distribution in RGS:** Through the whole of the northern rain forest area. — **Geographical novelty.**

**General distribution:** From the West Indies and Mexico to RGS.

### **Chamissoa macrocarpa** H. B. K.,

Nov. Gen. et Spec. 2 (1817) 197; Seubert, FB 5,1 (1875) 241.

**10916** RGS, Cêro Largo p. S. Luiz, NWH, in silva pluviali, 1.1943, fr., leg. P. Buck SJ.

**36090** RGS, Campinas p. Sta. Rosa, NWH, ad silvam pluvialem, 2. 1947, fr., leg. A. Spies.

**Habit:** The same as the precedent.

**Habitat:** Edge of the rain forest.

**Distribution in RGS:** Northwestern rain forest belt only. — **Geographical novelty.**

**General distribution:** From the West Indies and Mexico to RGS.

## GOMPHRENA L.

### *Gomphrena celosioides* Mart.,

Beitr. Kennt. Amarant. (1826) 93; Seubert, FB 5,1 (1875) 218, tab. 66; Fries, Ark. f. Bot. 16, n. 12 (1920) 41; Herter, Flor. Urug. (1930) 57; Bornmüller, Rev. Sud. Bot. 1 (1934) 138; Malme, Sv. Bot. Tidskr. 30 (1936) 16; Covas, Darwiniana 5 (1941) 350, fig. 10, i-j.

**750** RGS, Vila Manresa p. P. Alegre, NEL, ad viam in siccis, 16.12.1933, fl.

**4142** RGS, ad fl. Garopá p. Quaraí, SW, in siccis graminosis, 14.1.1941, fl., fr.

**8415** RGS, Xarqueadas p. S. Jerônimo, NEL, in arenosis, 8.1.1942, fl., fr.

**10927** RGS, Sta. Maria, CL, in siccis graminosis, 1943, fl., fr., leg. A. Heidler SJ.

**25728** RGS, Fazenda Sta. Cecília p. S. Gabriel, SW, in siccis graminosis, 1.1944, fl., fr.

**26040** RGS, Quaraí, SW, in siccis graminosis, 1.1945, fl., fr.

**34263** RGS, P. Alegre, NEL, in siccis graminosis, 25.1.1947, fl., fr., leg. K. Emrich.

**35633** RGS, Kappesberg p. Montenegro, NES, ad viam in tritis, 20.12.1946, fl., fr., leg. E. Henz SJ.

**38895** RGS, S. Leopoldo, NEL, in arenosis graminosis, 17.12.1948, fl., fr., leg. E. Henz SJ.

**40571** RGS, Sapucaia p. S. Leopoldo, NEL, in arenosis graminosis subsiccis, 17.3.1949, fl., fr.

**40647** RGS, Teresópolis p. P. Alegre, NEL, in siccis graminosis, 26.3.1949, fl., fr.

**41367** RGS, Morretes p. P. Alegre, NEL, ad viam ferream in graminosis, 2.5.1949, fl., fr.

**46710** RGS, Viamão p. P. Alegre, NEL, in arenosis graminosis, 10.4.1950, fl., fr.

**47962** RGS, Sta. Cruz, CS, ad viam in tritis, 26.12.1946, fl., fr., leg. A. Sehnem SJ 2405.

**52320** Uruguay, Sta. Lucía, ad viam in siccis, 4.3.1945, fl., fr., leg. et det. B. Rosengurtt B 4364.

**56085** RGS, Pestana p. Ijuí, NWH, in campestribus subsiccis, 25.1.1954, fl., leg. J. Pivetta 513.

**61468** RGS, Taquari, CL, in arenosis graminosis, 14.12.1957, fl., leg. O. Camargo 2930.

**62873** RGS, P. Alegre, NEL, in siccis graminosis, 8.2.1958, fl., leg. O. Camargo 3136.

**63143** RGS, Uruguaiana, SW, in campestribus siccis graminosis, 1957, fl., leg. A. Spies.

**Habit:** Herbaceous, branches in rosette, prostrate to ascending.

**Habitat:** Dry, grassy or more or less bare, places.

**Distribution in RGS:** All over the Campos area, except for the northeastern Highlands.

**General distribution:** From northern Argentina and South Brazil to RGS and Uruguay.



### **Gomphrena elegans Mart.,**

Nov. Gen. et Spec. 2 (1826) 17, tab. 119; Seubert, FB 5,1 (1875) 205; Fries, Ark. f. Bot. 16, n. 12 (1920) 20; Herter, Flor. Urug. (1930) 57; Süssenguth, Repert. 35 (1934) 310; Covas, Darwiniana 5 (1941) 358, fig. 12, a–f; Smith et Downs, Sellowia 12 (1960) 116, fig. 7, e–h.

**1570** SC, Itapiranga ad fl. Uruguay sup., in dumosis siccis, 15.2.1934, fl.

**9308** RGS, ad fl. Toropi p. Tupanciretan, CS, in dumosis siccis, 25.1.1942, fl.

**9397** RGS, Jari p. Tupanciretan, NWH, in siccis subdumosis graminosis, 26.1.1942, fl., fr.

**10928** RGS, Sta. Maria, CL, in siccis dumosis, 1943, fl., fr., leg. A. Heidler SJ.

**10931** RGS, ibidem, 1943, fl., leg. A. Heidler SJ.

**28200** RGS, Nonoai ad fl. Uruguay sup., NWU, in siccis subdumosis, 3.1945, fl., fr.

**31258** RGS, Vila Oliva p. Caxias, NEH, ad flumen in rupestribus dumosis, 21.2.1946, fl., fr.

**33572** Uruguay, Salto, in siccis graminosis subdumosis, 29.11.1945, fl., fr., leg. et det. B. Rosengurtt B 4895.

**33581** Uruguay, Paso Cuello p. Canelones, in silvula aperta, 8.1.1946, fl., fr., leg. et det. B. Rosengurtt PE 5575.

**46413** RGS, Gramado p. Canela, NEH, in dumosis, 20.3.1950, fl.

**53372** RGS, Caaró p. S. Luiz, NWH, in humidis dumosis, 24.11.1952, fl., fr.

**56905** RGS, Caracol p. Canela, NEH, in rupestribus subdumosis, 15.12.1955, fl., leg. K. Emrich.

**Habit:** Herbaceous, erect, vigorous, up to 1 m high and more.

**Habitat:** In more or less dry places among herbs and low shrubs.

**Distribution in RGS:** Frequent in the western Campos area, rare in the northeastern Highlands (apparently in the upper Caí region only).

**General distribution:** From Amazonia and Peru down to Buenos Aires and Uruguay.

### **Gomphrena graminea Moq.,**

DC. Prodr. 13,2 (1849) 416; Seubert, FB 5,1 (1875) 221, tab. 67; Fries, Ark. f. Bot. 16, n. 12 (1920) 41; Herter, Flor. Urug. (1930) 57; Smith and Downs, Sellowia 12 (1960) 117, fig. 8, a–d.

**1566** RGS, in summo monte das Cabras p. S. Leopoldo, NEL, in rupestribus parce humosis, 21.11.1934, fl., fr.

**9453** RGS, Jari p. Tupanciretan, NWH, in graminosis siccis, 27.1.1942, fl., fr.

**9944** RGS, Ijuizinho p. Tupanciretan, NWH, in siccis graminosis, 30.1.1942, fl., fr.

- 10923** RGS, Montserrat p. P. Alegre, NEL, in siccis saxosis graminosis, 7.1.1943, fl., fr., leg. K. Emrich.
- 26324** RGS, Fazenda do Jarau p. Quaraí, SW, in siccis graminosis, 1.1945, fl., fr.
- 35004** RGS, Fazenda da Ronda p. Vacaria, NEH, in rupestribus parce graminosis, 10.1.1947, fl., fr.
- 38028** RGS, Manresa p. P. Alegre, NEL, in siccis saxosis graminosis, 17.11.1948, fl., fr.
- 39150** RGS, Espírito Santo p. P. Alegre, NEL, in saxosis, 24.12.1948, fl.
- 39211** RGS, Morro da Polícia p. P. Alegre, NEL, in siccis saxosis graminosis, 27.12.1948, fl., fr.
- 39701** RGS, Morro das Abertas p. P. Alegre, NEL, in saxosis, 9.1.1949, fl.
- 40532** RGS, Montserrat p. P. Alegre, NEL, in siccis saxosis, 14.3.1949, fl., fr., leg. K. Emrich.
- 41318** RGS, Morro Sta. Teresa p. P. Alegre, NEL, in saxosis, 29.4.1949, fl.
- 41509** RGS, Vila Manresa p. P. Alegre, NEL, in saxosis, 14.3.1949, fl., fr.
- 49661** SC, Lages, in rupestribus, 10.1.1951, fl., fr.
- 53384** RGS, Caaró p. S. Luiz, NWH, in graminosis siccis, 24.1.1952, flore nondum aperto.
- 61609** RGS, Taquari, CL, in campestribus siccis, 12.12.1957, fl., leg. O. Camargo 2895.
- 64135** Paraná, Monte Alegre p. Tibagi, in campestribus, 12.11.1952, leg. G. Hatschbach 2847.

**Habit:** From a sturdy rootstock erect, up to 1 m high, generally lower; lignified, coarsely hairy; inflorescence erect, similar to a rice ear.

**Habitat:** On the driest places of the Campos, preferently on rocky outcrops.

**Distribution in RGS:** Over the whole Campos area, but nowhere frequent.

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

### **Gomphrena holosericea** (Mart.) Moq.,

DC. Prodr. 13,2 (1849) 386; Seubert, FB 5,1 (1875) 204, tab. 61; Smith et Downs, Sellowia 12 (1960) 116, fig. 7, a-d. — Hebanthe holosericea Mart., Flora 21 (1838) II. Beibl. 65.

**629** RGS, Morro Mariquinhas p. Montenegro, NEL, ad silvam pluvialem, 26.7.1933, fl., fr.

**7646** RGS, S. Leopoldo, NEL, ad silvam, 1907, fl., fr., leg. F. Theissen SJ.

**25199** RGS, S. Leopoldo, NEL, ad silvam, 1907, fl., fr., leg. F. Theissen SJ.

**28937** RGS, Canoas p. P. Alegre, NEL, in dumosis, 2.7.1941, fl., fr.

- 29482** RGS, Sapucaia p. S. Leopoldo, NEL, in silvula, 5.9. 1945, fl., fr.
- 30365** SC, Sombrio p. Araranguá, ad silvam, 15.6.1944, fl., fr., leg. R. Reitz 1280.
- 33479** RGS, S. Leopoldo, NEL, in silva campestri, 25.7.1946, fl., fr., leg. A. Marocco SJ.
- 37364** RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in silvula, 8.7.1948, fl., fr.
- 41717** RGS, Schwabenschneis p. Novo Hamburgo, NES, ad silvam pluvialem, 25.5.1949, fl., fr.
- 41749** RGS, Fião p. S. Leopoldo, NEL, in silvula, 29.5.1949, fl., fr.
- 42075** RGS, Sapucaia p. S. Leopoldo, NEL, in silva campestri, 18.6. 1949, fl., fr.
- 42191** RGS, Schwabenschneis p. Novo Hamburgo, NES, ad silvam pluvialem, 25.6.1949, fl., fr.
- 42656** RGS, Portão p. S. Leopoldo, NEL, in silva campestri, 20.7. 1949, fl.
- 42761** RGS, ad montem Sapucaia p. S. Leopoldo, ad silvam, 5.8. 1949, fl., fr.
- 43005** RGS, Schwabenschneis p. Novo Hamburgo, NES, ad silvam pluvialem, 22.8.1949, fl., fr.
- 48001** RGS, Badensertal p. Montenegro, NES, ad silvam, 27.5.1947, fl., fr.
- 50519** RGS, Montenegro, NEL, ad silvam pluvialem, 28.9.1949, fl., fr., leg. A. Sehnem SJ 3903.
- 62359** RGS, ibidem, 19.9.1957, fl., leg. O. Camargo 1744.

**Habit:** Herbaceous, more or less lignified, climbing with branches spreading at right angle (Spreizklümmer) up to 10 m.

**Habitat:** Edge and clearings of the subtropical rain forest. **Geographical novelty.**

**Distribution in RGS:** Eastern sector of the rain forest belt only.

**General distribution:** From Rio de Janeiro to RGS.

### **Gomphrena perennis L.,**

Spec. Plant. (1753) 326; Seubert, FB 5,1 (1875) 215; Fries, Ark. f. Bot. 16, n. 12 (1920) 39; Herter, Flor. Urug. (1930) 57; Malme, Sv. Bot. Tidskr. 30 (1936) 16; Covas, Darwiniana 5 (1941) 360, fig. 11, a—d; Smith et Downs, Sellowia 12 (1960) 117, fig. 7, i—l.

**1422** RGS, sine die, sine loco, fl., fr.

**3896** RGS, Morro Vigia p. Livramento, SW, in rupestribus subdumosis, 12.1.1941, fl., fr.

**3913** RGS, ibidem, 12.1.1941, fl., fr.

**10079** RGS, Ijuisinho p. Tupanciretan, NWH, in siccis dumosis, 30.1. 1942, fl., fr.

**26082** RGS, Fazenda do Jarau p. Quaraí, in siccis graminosis, 1.1945, fl.

- 26083** RGS, ibidem, 1.1945, fl., fr.  
**30638** RGS, Vila Manresa p. P. Alegre, NEL, in siccis, 27.11.1945, fl., fr.  
**31737** SC, Sombrio p. Araranguá, in arenosis siccis, 7.2.1946, fl., fr.  
**32964** Uruguay, Juan Jackson p. Soriano, in siccis graminosis, 26.4.1942, fl., fr., leg. et det. B. Rosengurtt PE 5084.  
**39371** RGS, Belém Novo p. P. Alegre, NEL, in siccis arenosis, 31.12.1948, fl., fr.  
**44573** RGS, Osório, NEC, in arenosis siccis, 24.11.1949, fl., fr.  
**45135** RGS, Fazenda do Arroio p. Osório, NEC, in arenosis subsiccis subnudis, 4.1.1950, fl., fr.  
**51789** RGS, Morro Grande p. Osório, NEC, in siccis arenosis subnudis, 10.1.1952, fl.  
**54853** RGS, Tôrres, NEC, ad litus in arenosis, 12.2.1954, fl.  
**56240** RGS, ibidem, 12.11.1954, fl., fr.  
**56516** RGS, ibidem, 19.1.1955, fl., fr.  
**63107** RGS, Pelotas, SEC, in siccis, 12.3.1956, fl., leg. Schlichting.  
**63129** RGS, Uruguaiana, SW, in campestribus subsiccis graminosis, 1957, fl., leg. A. Spies.  
**63146** RGS, ibidem, 1957, fl., leg. A. Spies.  
**63167** RGS, ibidem, 1957, fl., leg. A. Spies.  
**63450** RGS, Pelotas, SEC, in arenosis, 28.4.1958, fl., leg. Oliveira.

**Habit:** Stem more or less lignified, ascending or more often erect, up to 1 m high; heads light cinnamon.

**Habitat:** Dry sandy, more or less bare places.

**Distribution in RGS:** Common in the southwestern Campos area, and near the north-eastern sea coast.

**General distribution:** With varieties from Bolivia and northern Argentina to South Brazil and Uruguay.

### ***Gomphrena schlechtendaliana* Mart.,**

Beitr. Kennt. Amarant. (1826) 299; Seubert, FB 5,1 (1875) 215, tab. 64; Fries, Ark. f. Bot. 16, n. 13 (1919) 15; Herter, Flor. Urug. (1930) 58.

**35181** RGS, Vacaria, NEH, in siccis graminosis, 18.1.1947, fl.

**45239** RGS, Fazenda do Arroio p. Osório, NEC, in arenosis subnudis, 4.1.1950, fl., fr.

**Habit:** Herbaceous, somewhat lignified, repeatedly branched, branches densely setaceous, greyish ferruginous, up to 40 cm high; flower heads light red reminding a Composite.

**Habitat:** Dry to sandy Campos.

**Distribution in RGS:** So far, only two widely separated findplaces, one on the eastern Highlands, the other near the northeastern sea coast. — **Geographical novelty.**

**General distribution:** From Minas Gerais to Uruguay.

## IREFINE Browe

### *Iresine celosia* L.,

Syst. Nat. ed. 10 (1959) 1291; Herter, Flor. Urug. (1930) 58, Covas, Darwiniana 5 (1941) 364, fig. 13, fl.; Smith et Downs, Sellowia 12 (1960) 118, fig. 8, e-h. — *I. polymorpha* Mart., Nov. Gen. et Spec. Plant. 2 (1826) 56; Seubert, FB 5,1 (1875) 226. — *I. diffusa* H. B. ex Willd. Spec. Plant. ed. 4 (1805) 765; Seubert, FB 5,1 (1875) 226; Bornmüller, Rev. Sud. Bot. 1 (1934) 138.

- 7** RGS, Alto Feliz p. Caí, NES, ad silvam, 7.3.1933, fl., fr.  
**2796** RGS, S. Leopoldo, NEL, in dumosis, 5.5.1936, fl.  
**2926** RGS, S. Borja, SW, in secundariis, 1942, fl., fr., leg. Fr. Baglione.  
**2998** RGS, Piedade p. Montenegro, NES, in secundariis, 23-12-1940, fl., fr.  
**3756** RGS, Alto Feliz p. Caí, NES, in dumosis, 4.1.1941, fl., fr.  
**3803** RGS, Bohnental p. Caí, NES, ad silvam, 4.1.1941, fl., fr.  
**3957** Uruguay, Cuñapiru p. Rivera, in silvula, 12.1.1941, fl.  
**4500** RGS, sine loco, sine die, fl.  
**6554** RGS, Teutônia p. Estrêla, NEL, in secundariis, 16.11.1940, fl., fr.  
**9413** RGS, Jari p. Tupanciretan, NWH, in silvula, 26.1.1942, fl., fr.  
**9428** RGS, ibidem, ad silvam pluvialem, 27.1.1942, fl., fr.  
**10917** RGS, Marcelino Ramos, NWU, in secundariis, 1.1943, fl., leg. E. Friderichs SJ.  
**10920** RGS, Lagoa Vermelha, NEH, in silvula, 1.1943, fl., leg. E. Friderichs SJ.  
**10924** RGS, Cêrro Largo p. S. Luiz, NWH, in dumosis, 1.1943, fl., leg. P. Buck SJ.  
**10929** RGS, Sta. Maria, CS, ad silvam, 1943, fl., fr., leg. A. Heidler S. J.  
**10932** RGS, Nova Petrópolis p. Caí, NES, ad silvam, 1.1943, fl.  
**25752** RGS, Fazenda Sta. Cecília, SW, in dumosis, 1.1944, fl.  
**26551** RGS, Pareci p. Montenegro, NEL, in secundariis, 1944, fl., leg. E. Henz SJ.  
**27431** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam campestem, 10.1944, fl., fr., leg. P. Buck SJ.  
**28075** RGS, Vila Oliva p. Caxias, NEH, ad araucarietum, 2.1945, fl., fr., leg. P. Buck SJ.  
**28621** RGS, Nonoai ad fl. Uruguay, NWU, in dumosis, 3.1945, fl., fr.  
**28819** RGS, Caracol p. Canela, NEH, in dumosis, 3.1945, fl., fr., leg. K. Emrich.

- 30366** SC, Turvo p. Araranguá, ad flumen in dumosis, 4.11.1943, fl., fr., leg. R. Reitz 961.
- 31051** RGS, Vila Oliva p. Caxias, NEH, ad silvam pluvialem, 5.1.1946, fl.
- 32235** RGS, Azulega p. S. Francisco de Paula, NEH, in dumosis campestribus, 15.2.1946, fl.
- 32373** RGS, Serra da Rocinha p. S. Francisco de Paula, Bom Jesus, NEH, in dumosis, 28.2.1946, fl., fr.
- 32811** RGS, Vila Manresa p. P. Alegre, NEL, in dumosis, 12.12.1945, fl., fr.
- 33249** RGS, Pareci p. Montenegro, NEL, in secundariis, 6.12.1945, fl., fr., leg. E. Henz SJ.
- 35001** RGS, Fazenda da Ronda p. Vacaria, NEH, in dumosis, 10.1.1947, fl., fr.
- 35358** RGS, Dois Irmãos p. Novo Hamburgo, NES, ad silvam pluvialem, 10.10.1946, fl., fr., leg. C. Ritter SJ.
- 35902** RGS, Caracol p. Canela, NEH, in araucarieto aperto, 23.2.1947, fl., leg. K. Emrich.
- 36574** RGS, Cambará p. S. Francisco de Paula, NEH, in dumosis campestribus, 2.1948, fl.
- 37950** RGS, Estação Azevedo p. Montenegro, NEL, ad silvulam campestrem, 10.11.1948, fl.
- 38443** RGS, Vila Manresa p. P. Alegre, NEL, ad silvam pluvialem, 1.12.1948, fl., fr.
- 38995** RGS, Steinkopf p. S. Leopoldo, NEL, in dumosis, 20.12.1948, fl., fr.
- 39719** RGS, Pareci p. Montenegro, NEL, in secundariis, 14.1.1949, fl.
- 39977** RGS, Linha Bonita p. Montenegro, NES, ad silvam, 19.1.1949, fl.
- 40253** RGS, Sta. Rita p. Farroupilha, NEH, ad silvam, 28.1.1949, fl.
- 44747** RGS, Lagoa dos Barros p. Osório, NEC, in dumosis, 14.11.1949, fl.
- 44814** RGS, S. Francisco de Paula, NEH, ad araucarietum, 18.12.1949, fl.
- 45786** RGS, Sta. Rita p. Farroupilha, NEH, in secundariis, 7.2.1950, fl.
- 46020** RGS, Lagoa dos Quadros p. Tôres, NEC, in dumosis, 21.2.1950, fr.
- 46115** RGS, Fazenda do Arroio p. Osório, NEC, in silvula, 6.3.1950, fl., fr.
- 46244** RGS, S. Francisco de Paula, NEH, ad araucarietum, 13.3.1950, fr.
- 47319** RGS, Sta. Rosa, NWH, ad silvam, 2.1949, fl., leg. A. Spies.
- 49257** RGS, Pareci p. Montenegro, NEL, ad silvam, 26.11.1950, fl.
- 49899** SC, Itapiranga ad fl. Uruguay, ad silvam, 6.2.1951, fl., fr.
- 53194** RGS, Cêrro Largo p. S. Luiz, NWH, ad silvam, 20.11.1952, fl., fr.
- 54893** RGS, Vila Oliva p. Caxias, NEH, in araucarieto aperto, 24. 2.1954, fl.

- 55543** SC, Serra do Pilão p. Araranguá, in dumosis, 29.1.1950, fl., leg. R. Reitz 5177.
- 56062** RGS, Pestana p. Ijuí, NWH, in dumosis, 5.11.1953, fl., leg. J. Pivetta 532.
- 58676** RGS, Estação de Silvicultura p. Sta. Maria, CL, in dumosis, 10.1.1956, fl., leg. O. Camargo 43.
- 59258** RGS, Taimbêsinho p. S. Francisco de Paula, NEH. in araucarieto aperto, 12.2.1956, fl.
- 59453** RGS, Farrroupilha, NEH, ad silvam, 15.11.1956, fl., leg. O. Camargo 942.
- 59705** RGS, Farrroupilha, NEH, in secundariis, 16.5.1956, fl., leg. O. Camargo 641.
- 60249** RGS, ibidem, ad silvam, 14.1.1957, fl., fr., leg. O. Camargo 1108.
- 60348** RGS, Estação de Silvicultura p. Sta. Maria, CL, ad silvam, 10.4.1956, fl., leg. O. Camargo 540.
- 60675** RGS, Farrroupilha, NEH, ad silvam, 7.5.1957, fl., fr., leg. O. Camargo 1357.
- 61218** SC, Itapiranga ad fl. Uruguay, ad silvam, 7.10.1957, fl., det. L. B. Smith.
- 62854** RGS, Taquari, CL, in dumosis, 10.12.1957, fl., leg. O. Camargo 3061.
- 63116** RGS, Pelotas, SEC, in dumosis, 11.3.1956, fl., leg. Schlichting.
- 63374** RGS, ibidem, in dumosis, 30.12.1954, fl., leg. J. Sacco 265.
- 63390** RGS, ibidem, ad silvam, 17.3.1955, fl., leg. J. Sacco 329.
- 63489** SC, S. Joaquim, in dumosis, 10.1.1958, fl., leg. J. Mattos.
- 63487** SC, ibidem, ad silvam, 10.1.1958, fl., leg. J. Mattos, det. L. B. Smith.
- 63502** SC, ibidem, ad araucarietum, 10.1958, fl., leg. J. Mattos.
- 63816** RGS, Passo Fundo, CH, in dumosis, 1.1949, fl., leg. J. Sacco 46.

**Habit:** Herbaceous, abundantly branched from the base, up to 1 m high, sometimes climbing by leaning on the neighbor plants, yellowish after drying.

**Habitat:** Edge and clearings of the subtropical and Araucaria forests, secondary growth, all kinds of shrub formations except for swamps.

**Distribution in RGS:** All over the forested area.

**General distribution:** From the West Indies and Mexico to Uruguay.

## PFAFFIA Mart.

### *Pfaffia gnaphalioides* (Vahl.) Mart.,

Nov. Gen. et Spec. 2 (1826) 24; Seubert, FB 5,1 (1875) 198, tab. 59, 60; Fries, Ark. f. Bot. 16, n. 12 (1920) 4; Herter, Flor. Urug. (1930) 58; Bornmüller, Rev. Sud. Bot. 1 (1934) 138; Smith et Downs, Sellowia 12 (1960) 110, fig. 5, g-k. — *Gomphrena gnaphalioides* Vahl, Roem. et Schult. Syst. 5 (1819) 542.

- 8** RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in arenosis siccis subnudis, 13.5.1933, fl.
- 3881** RGS, Morro do Vigia p. Livramento, SW, in rupestribus parce humosis, 12.1.1941, fl.
- 4229** RGS, Barra do Quaraí p. Uruguiana, SW, in siccis graminosis, 15.1.1941, fl.
- 9022** RGS, Bom Jesus, NEH, in siccis saxosis, 16.1.1942, fl.
- 11664** RGS, ad montem Sapucaia p. S. Leopoldo, NEL, in siccis sparse dumosis, 9.1943, fl.
- 26465** RGS, Pareci p. Montenegro, NEL, in siccis graminosis, 1944, fl., leg. E. Henz SJ.
- 32701** RGS, Estação Azevedo p. Montenegro, NEL, in rupestribus graminosis, 17.10.1945, fl., leg. E. Henz SJ.
- 38569** RGS, Morro das Cabras p. S. Leopoldo, NEL, in rupestribus siccis parce humosis, 7.12.1948, fl.
- 49623** SC, Lages, in rupestribus parce humosis, 10.1.1951, fl., det. L. B. Smith.
- 50974** SC, Lages, in rupestribus, 10.1.1951, fl., leg. A. Sehnem SJ 5484.
- 51495** RGS, Passo do Socorro p. Vacaria, NEH, in saxosis, 26.12.1951, fl.
- 53042** RGS, Sto. Ângelo, NWH, in campestribus siccis, 17.11.1952, fl.
- 56064** RGS, Cruz Alta, NWH, in graminosis siccis, 3.1.1954, fl.
- 63195** RGS, Uruguiana, SW, in siccis graminosis, 1957, fl., leg. A. Spies.

**Habit:** Branched from a woody rootstock, branches up to 40 cm high, leaves and whole plant white tomentous.

**Habitat:** In very dry places, preferently on stony or rocky ground.

**Distribution in RGS:** Through the whole of the Campos area, but nowhere frequent.

**General distribution:** From Piauí to Uruguay.

### ***Pfaffia lanata* (Poir.) Gris.,**

Enum. Plant. Mont. (1873) 73; Fries, Ark. f. Bot. 16, n. 13 (1920) 4; Herter, Flor. Urug. (1930) 58; Covas, Darwiniana 5 (1941) 348, fig. 8. a—d. — *Gomphrena lanata* Poir., Enc. meth. Suppl. 1 (1810) 315; Seubert, FB 5,1 (1875) 198, tab. 59, fig. 1.

**30209** Uruguay, Juan Jackson p. Soriano, in siccis, graminosis, 6.12.1935, fl., leg. et det. B. Rosengurt B 243.

**3895** RGS, sine loco, sine die, fl.

**3911** RGS, Morro Vigia p. Livramento, SW, in rupestribus siccis graminosis, 12.1.1942, fl.

**Habit:** Similar to the precedent, but leaves much broader, white tomentous at the under surface only.

**Habitat:** On dry grassy spots, preferently on rocky ground.

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

**General distribution:** Northern Argentina, Uruguay, RGS.



**Pfaffia paniculata** (Mart.) O. K.,

Rev. Gen. 2 (1891) 543; Süssenguth, Repert. 35 (1934) 325; Smith et Downs, Sellowia 12 (1960) 108, fig. 4 p.

**25953** RGS, Cêro Largo p. S. Luiz, NWH, in dumosis, 1944, fr., leg. E. Friderichs SJ.

**36003** RGS, ibidem, 3.10.1946, fr., leg. Irmão Augusto.

**50843** Paraná, Florestal p. Piraquara, in dumosis, 31.7.1949, fl., leg. G. Hatschbach 1435, det. Asplund (forma lanceolata R. E. Fries).

**61244** SC, Itapiranga ad fl. Uruguay superius, ad silvam pluvialem, 7.10.1957, fl., det. L. B. Smith.

**Habit:** Climber, abundantly branched, up to 5 m high.

**Habitat:** Edge of the forest, secondary growth.

**Distribution in RGS:** Northwestern rain forest belt only. — **Geographical novelty.**

**General distribution:** From Colombia and Guyana down to RGS.

**Pfaffia sericea** (Spreng.) Mart.,

Nov. Gen. et Spec. 2 (1826) 22; Fries, Ark. f. Bot. 16, n. 13 (1920) 7; Herter, Flor. Urug. (1930) 58; Bornmüller, Rev. Sud. Bot. 1 (1934) 138; Malme, Sv. Bot. Tidskr. 30 (1936) 16. — *Gomphrena sericea* Spreng., Syst. Veg. 1 (1825) 823 — *Gomphrena tuberosa* Moq., DC. Prodr. 13,2 (1849) 387; Seubert, FB 5,1 (1875) 195.

**3** RGS, Vila Manresa p. P. Alegre, NEL, in siccis graminosis, 17.12.1933, fl., fr.

**2800** RGS, Portão p. S. Leopoldo, NEL, in siccis dumosis, 17.5.1936, fl.

**2925** RGS, S. Borja, NWH, in siccis, 1942, ster., leg. F. Baglione.

**2927** RGS, ibidem, 1942, fl., leg. F. Baglione.

**4160** RGS, Rio Garopá p. Quaraí, SW, in siccis graminosis, 14.1.1941, fl.

**4250** RGS, Barra do Quaraí p. Uruguiana, SW, in siccis subnudis arenosis, 15.1.1941, fl.

**4800** RGS, Passo do Inferno p. Canela, NEH, in graminosis, 10.2.1941, fl.

**5460** RGS, sine loco, sine die, fl.

**5644** SC, Lages, in siccis graminosis, 1935, fl., leg. A. Bruxel SJ.

**7640** RGS, S. Leopoldo, NEL, in graminosis, 1907, fl., leg. F. Theissen SJ.

**7642** RGS, ibidem, in siccis dumosis, 1907, fl., leg. F. Theissen SJ.

**7644** RGS, ibidem, in graminosis, 1907, ster, leg. F. Theissen SJ.

**7645** RGS, ibidem, in pasco sicco, 1907, ster., leg. F. Theissen SJ.

**8456** RGS, Arroio dos Ratos p. S. Jerônimo, NEL, in graminosis siccis, 8.1.1942, fl., fr.

**8530** RGS, Rio dos Touros p. Bom Jesus, NEH, in graminosis, 13.1.1942, fl.

- 8838** RGS, Bom Jesus, NEH, in graminosis, 15.1.1942, fl.
- 9339** RGS, Tupanciretan, NWH, in graminosis, 26.1.1942, fl.
- 9797** RGS, ibidem, in subdumosis siccis, 29.1.1942, fl.
- 10024** RGS, Jari p. Tupanciretan, NWH, in graminosis, 26.1.1942, fl.
- 10921** RGS, Lagoa Vermelha, NEH, in campestribus siccis graminosis, 1.1943, fl., leg. E. Friderichs SJ.
- 25173** RGS, S. Leopoldo, NEL, in graminosis, 1907, fl., leg. F. Theissen SJ.
- 25669** RGS, Fazenda Sta. Cecília, SW, in siccis graminosis, 1.1944, fl.
- 25690** RGS, ibidem, in siccis graminosis, 1.1944, fl.
- 26233** RGS, Fazenda do Jarau p. Quarai, SW, in siccis graminosis, 1.1945, fl.
- 26591** RGS, Pareci p. Montenegro, NEL, in siccis subdumosis, 1944, fl., leg. E. Henz SJ.
- 28626** RGS, Nonoai ad fl. Uruguay, NWU, in graminosis, 3.1945, fl.
- 28956** RGS, Vila Manresa p. P. Alegre, NEL, in siccis, 23.5.1945, fl.
- 29586** RGS, Pareci p. Montenegro, NEL, 26.9.1945, fl., leg. E. Henz SJ.
- 30176** Uruguay, Juan Jackson p. Soriano, 2.1945, leg. et det. B. Rosengurtt.
- 31037** RGS, Vila Oliva p. Caxias, NEH, in siccis graminosis, 4.1.1946, fl.
- 32225** RGS, Azulega p. S. Francisco de Paula, NEH, in siccis graminosis, 15.2.1946, fl.
- 35003** RGS, Fazenda da Ronda p. Vacaria, NEH, in graminosis subdumosis, 10.1.1947, fl.
- 35779** RGS, Kappesberg p. Montenegro, NES, in pascoo, 3.1.1947, fl., leg. E. Henz SJ.
- 36562** RGS, Cambará p. S. Francisco de Paula, NEH, in campestribus subhumidis, 2.1948, fl.
- 37395** RGS, Vila Manresa p. P. Alegre, NEL, in graminosis, 5.7.1948, fl.
- 38653** RGS, Rio dos Sinos p. S. Leopoldo, NEL, in siccis, 10.12.1948, fl.
- 39465** RGS, Teresópolis p. P. Alegre, NEL, in siccis graminosis, 4.1.1949, fl.
- 39609** RGS, Cachoeirinha p. Gravataí, NEL, in siccis graminosis, 7.1.1949, fl.
- 39745** RGS Pareci p. Montenegro, NEL, in campestribus graminosis, 14.1.1949, fl.
- 42627** RGS, sine loco, sine die, fl.
- 47066** RGS, Vila Manresa p. P. Alegre, in siccis, 15.5.1950, fl.
- 48117** Paraná, Eng. Bley p. Lapa, in siccis graminosis, 28.11.1949, fl., leg. G. Hatschbach 1106, det. E. Asplund.
- 50468** RGS, Serra da Rocinha p. Bom Jesus, NEH, in graminosis subhumidis, 19.1.1950, fl., leg. A. Sehnem SJ.

- 51430** RGS, Passo do Socorro p. Vacaria, NEH, in graminosis, 26.12.1951, fl.
- 51666** RGS, Passo do Socorro p. Vacaria, NEH, in campestribus graminosis, 27.12.1951, fl., fr.
- 53084** RGS, Cêrro Largo p. S. Luiz, NEH, in alte graminosis, 20.11.1952, fl.
- 53817** RGS, Serra da Rocinha p. Bom Jesus, NEH, in humidis dense graminosis, 3.2.1953, fl.
- 56054** RGS, Tupanciretan, NWH, in campestribus graminosis, 26.1.1954, fl., leg. J. Pivetta 514.
- 56066** RGS, ibidem, 25.1.1954, fl., leg. J. Pivetta 515.
- 56419** RGS, Fazenda Englert p. S. Francisco de Paula, NEH, in campestribus graminosis, 2.1.1955, fl.
- 57112** RGS, Esteio p. S. Leopoldo, NEL, in graminosis, 14.11.1955, fl.
- 57498** RGS, Estação de Silvicultura p. Sta. Maria, CL, in graminosis, 15.11.1955, fl., leg. O. Camargo 26.
- 58371** Paraná, Mafra, in campestribus, 26.1.1953, fl., leg. R. Reitz 7729, det. Süssenguth.
- 60300** RGS, S. Bernardo p. Ijuí, in campestribus, 8.1.1957, fl.
- 61482** RGS, Taquari, CL, in siccis graminosis, 16.12.1957, fl., leg. O. Camargo 2985.
- 62129** RGS, Pôrto Alegre, NEL, in campestribus, 1.10.1957, fl., leg. O. Camargo 1830.
- 62289** SC, Lages, in campestribus, 18.2.1958, fl., leg. J. Mattos.
- 63159** RGS, Uruguaiana, SW, in graminosis siccis, 1957, fl., leg. A. Spies.
- 63343** RGS, Pelotas, SEC, in campestribus, 15.12.1954, fl., leg. J. Sacco 254.
- 63805** RGS, Passo Fundo, CH, in graminosis, 9.1949, fl., leg. J. Sacco 91.

**Habit:** Springly branched from a rootstock, branches slender, erect, up to 1 m high.

**Habitat:** Extremely frequent on dry, grassy Campo.

**Distribution in RGS:** Common over the whole of the Campos area.

**General distribution:** From Minas Gerais down to Uruguay and Buenos Aires.

### ***Pfaffia stenophylla* (Spreng.) Stuhl.,**

Repert. 12 (1913) 357; Fries, Ark. f. Bot. 16 (1920) n. 12, 3; Covas, Darwiniana 5 (1941) 346, fig. 7—a; Smith et Downs, Sellowia 12 (1960) 109, fig. 4, q—u. — *Gomphrena stenophylla* Spreng., Syst. Veg. 1 (1825) 823. — *G. luzuliflora* (Mart.) Moq., Seubert, FB 5,1 (1875) 161.

**10925** RGS, Cêrro Largo p. S. Luiz, NWH, in dumosis, 1.1943, fl.

**10926** RGS, ibidem, in dumosis, 1.1943, fl., leg. P. Buck SJ.

**53287** RGS, Caaró p. S. Luiz, NWH, in subpaludosis alte dumosis, 24.11.1942, fl., fr.

**53615** Paraná, Salto Iguassu, ad fl. in dumosis, 11.1.1953, fl.

**Habit:** Herbaceous, erect, abundantly branched, branches long, slender, up to 1,5 m high.

**Habitat:** In more or less humid places among tall herbs and low shrubs.

**Distribution in RGS:** Western Campos area only. — **Geographical novelty.**

**General distribution:** From Bolivia and Mato Grosso to RGS.

## **PHILOXERUS** R. Br.

### **Philoxerus portulacoides** St. Hil.,

Voy. Brés. 2 (1833) 436; Herter, Flor. Urug. (1930) 58; Malme, Sv. Bot. Tidskr. 30 (1936) 16; Covas, Darwiniana 5 (1941) 366, fig. 12, g—h; Smith et Downs, Sellowia 12 (1960) 119, fig. 8, i—o. — *Fresine portulacoides* Moq., DC. Prodr. 13, 2 (1949) 342; Seubert, FB 5,1 (1875) 225, tab. 69.

**28019** RGS, Tramandaí, NEC, ad litus in arenosis humidis, 1.1945, fl., fr., leg. P. Gonçalves.

**48159** Paraná, Matinhos p. Paranaguá, in arenosis humidis, 23.10.1948, fl., leg. G. Hatschbach 1063.

**54861** RGS, Tôrres, NEC, in arenosis salsuginosis, 11.2.1954, fl.

**56462** RGS, Cidreira, NEC, in arenosis iuxta litus, 17.12.1954, fl.

**58370** SC, Barra do Sul p. Araquari, in arenosis humidis, 8.4.1953, fl., leg. R. Reitz 1953, fl.

**Habit:** Herbaceous, fleshy, prostrate, branches rooting at the lower joints, up to 50 cm long, generally shorter.

**Habitat:** On salty sand only.

**Distribution in RGS:** Along the sea coast, halophyte which advances nearest to salt water.

**General distribution:** From Bahia to Uruguay.

## **PSEUDOPLANTAGO** Süssenguth

### **Pseudoplantago friesii** Sgth.,

Repert. 35 (1934) 334; Smith et Downs, Sellowia 12 (1960) 107, fig. 4, a—i.

**28106** RGS, Nonoai ad fl. Uruguay superius, NHW, in araucarieto aperto, 3.1945, fl., fr.

**Habit:** Herbaceous, erect, branches slender, up to 1 m high.

**Habitat:** In a more or less open Araucaria forest; in other places in western Sta. Catarina and Paraná frequent along roads through the rain forest.

**Distribution in RGS:** Northwestern forest belt only, rare. **Geographical novelty.**

**General distribution:** Misiones, western Paraná and Sta. Catarina, northwestern RGS.

#### **Cultivated:**

*Alternanthera bettzickiana* Regel: 7589, 7647, 25323.

*Alternanthera sessilis* R. Br.: 28949.

*Celosia argentea* L.: 1571, 7629, 59787.

*Gomphrena globosa* L.: 6414, 26939, 27469.

#### **Cited for RGS,**

not in my Herbarium.

*Alternanthera malmeana* R. E. Fries, 1920.

*Alternanthera pungens* H. B. K. — Fries, 1920.

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*Gomphrena pulchella* Mart. — Seubert, 1875.

*Gomphrena sellowiana* Mart. — Seubert, 1875.

#### **To be expected in RGS:**

*Alternanthera polygonoides* (L.) R. Br. — South Brazil, Uruguay.

*Brayulinea densa* (Willd.) Small — Northern Argentine, Uruguay.

## **R E S U M O**

O artigo enumera as Amarantaceae do Rio Grande do Sul, 32 espécies em 8 gêneros, existentes no Herbarium Anchieta (PACA).

## **Zusammenfassung**

Die Arbeit enthält die Amarantaceen des südlichsten Staates Brasiliens, 32 Arten in 8 Gattungen, soweit sie im Herbarium Anchieta (PACA) vorhanden sind.

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