

## Family 65. URTICACEAE

### Revisions:

- Robinson, CB. 1911. *Philippine Urticaceae*. Philippine Journal of Science 5, no. 6, sect. C (Botany) 445-543; idem. 6, no. 4, sect. C (Botany) 299-314; idem. 6, No. 1, sect. C (Botany) 1-33, 3 fig.
- Johns, RJ. 1988. *Urticaceae*. The Flowering Plants of Papuasia, Dicotyledons, 2: 7-57.
- Yang, YP, BL Shih & HY Liu. 1996. *Urticaceae*. Flora of Taiwan ed. 2, 2: 197-257.

### 1. *Astrothalamus* C Robinson

- Astrothalamus reticulatus*** (Wedd.) C Robinson, PJS 6 c (1911) Bot. 19, pl. 3; --Merr., EPFP 2 (1923) 98.
- Maoutia (?) planitora C Robinson, PJS 3c (1908) 180. --Type: RS Williams 2079 (cited by Robinson, loc. cit.). Mindanao: Zamboanga, Sax River, 31 Jan 1905.
- Marianas, Borneo (Sarawak), MINDANAO: Zamboanga (San Ramon; Sax River). Low altitude thickets.

### 2. *Boehmeria* Jacquin

- Boehmeria beyeri*** C Robinson, PJS 6 c (1911) Bot. 309; --Merr., EPFP 2 (1923) 89. --Type: BS 13540 Bayer (NY\*, syntype). Luzon: Ifugao prov., Bila, May 1911  
LUZON: Ifugao, Benguet (Mt Sto Tomas). Mossy forests, altitude up to 1900m.
- Boehmeria celebica*** Blume, Ann. Mus. Bot. Lugd.-Bat. 2 (1856) 217; --Merr., EPFP 2 (1923) 89. Java, Philippines, Sulawesi. MINDANAO: Bukidnon, Davao (Mt Apo). Thickets along streams, up to 1200m.
- Boehmeria cypholophoides*** Merr., PJS 8 c (1913) Bot. 368; EPFP 2 (1923) 90. --Type: Wenzel 35 (US\*, iso). Leyte: Dagami, forested foothills, altitude c. 60m, 20 May 1913.  
LEYTE. Low altitude forests.
- Boehmeria densiflora*** Hook. & Arn., Bot. Beechy's Voy. (1841) 217; --Merr., EPFP 2 (1923) 90; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 199.  
S China, Ryukyus, Taiwan and Philippines. LUZON: Ilocos Norte, Ifugao, Mountain Province, Benguet. Open slopes, altitude 500-1200m.
- Boehmeria heterophylla*** Wedd. in Arch. Mus. Paris 9 (1856) 351; --Merr., EPFP 2 (1923) 90. --Type: Cuming 1561 (cited by Robinson, PJS 6 c (1911) Bot. 3). Mindoro.  
*Boehmeria blumei* Wedd., in DC Prodr. 16<sup>1</sup> (1869) 204; --Merr., EPFP 2 (1923) 89. --Type: Cuming 731 (cited by Robinson, PJS 6 c (1911) 2). Luzon: Pampanga or Bulacan prov.  
N LUZON to MINDANAO. Thickets, damp ravines, and forests, sea-level up to an altitude of c. 1000m.
- Boehmeria multiflora*** C Robinson, PJS 3 c (1908) Bot. 179, --Merr., EPFP 2 (1923) 90. --Type: RS Williams 1088 (NY\*, US\*, iso). Luzon: Benguet prov., Baguio, 10 Jun 1904.  
LUZON: Ilocos Norte, Kalinga, Mountain Province, Benguet, Nueva Vizcaya, Nueva Ecija. Open slopes and thickets, altitude 600-1200m.
- Boehmeria nivea*** (L.) Gaudich., Bot. Freyc. Voy. (1826) 499; --Merr., EPFP 2 (1923) 90.

**var. nivea**

Native of S China, now cultivated in many tropical and subtropical countries. BATAN, BABUYAN ISLS, native or naturalized, occasionally planted in other parts of the Philippines. Ramie.

**var. tanacissima** (Gaudich.) Miq., Fl. Ind. Bat. 1<sup>2</sup> (1858-59) 253; --Merr., EPFP 2 (1923) 90.

India, China, Taiwan, Japan, Java.

According to Merrill, hardly distinguishable from the preceding.

**Boehmeria platyphylla** D Don, Prodr. Fl. Nepal. (1825) 60; --Merr., EPFP 2 (1923) 91.

Africa to India, China, Japan, Malaya, and tropical Australia. LUZON: Apayao, Laguna. Low and medium altitude thickets, open places, etc.

**Boehmeria ruprestris** C Robinson, PJS 6 c (1911) Bot. 5; --Merr., EPFP 2 (1923) 91. --Type: BS 5542 Ramos (cited by Robinson, loc. cit.). Luzon: Benguet prov., La Trinidad, Rio Trinidad (=Balili River).

LUZON: Benguet. Rocks along streams, altitude c. 1300m.

**Boehmeria villosa** C Robinson, PJS 6 c (1911) Bot. 3; --Merr., EPFP 2 (1923) 91. --Type: BS 3574 Fenix, erroneously cited '3754' by Robinson & Merrill (NY\*, iso). Batan: Sto Domingo de Basco, 27 May 1907.

SABTAN, BATAN. Habitat not noted.

**Boehmeria zollingeriana** Wedd. in Ann. Sc. Nat. Bot. iv, 1 (1854) 201; --Merr., PJS 14 (1919) 381; EPFP 2 (1923) 91. --Type from Java.

Taiwan, Philippines, Java. LUZON: Ilocos Norte (Mt Nagapatan; Bangui), Pangasinan (Umingan). Low and medium altitude ravines and open slopes, ascending to c. 550m.

### 3. Chamabainia Wight

**Chamabainia cuspidata** Wight, Icon. Pl. Ind. Or. 6 (1853) 11, t. 1981; --Merr., EPFP 2 (1923) 91; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 202.

Sri Lanka, SW China, Taiwan. SE Asia. LUZON: Mountain Province (Mt Data), Benguet (Mt Pulag), MINDANAO: Davao (Mt Apo). Mossy forests, grassy montane summits, cliffs, etc. altitude 1700m to 2800m.

### 4. Cypholophus Weddell

**Cypholophus brunneolus** Elmer, LPB 3 (1910) 896; --Merr., EPFP 2 (1923) 93. --Type: Elmer 11641 (MO\*, NY\*, iso). Mindanao: Davao, Mt Apo, Todaya, dense woods at 4000ft, Sept 1909.

Philippines, Borneo. LUZON: Mountain Province, Benguet, PANAY, NEGROS: Negros Occidental (Mt Kanlaon), MINDANAO: Davao (Mt Apo). Shaded ravines, mossy forests, etc., altitude 600-2400m.

**Cypholophus microphyllus** Elmer, LPB 3 (1910) 895; --Merr., EPFP 2 (1923) 93. --Type: Elmer 11588 (PNH, holo, lost; iso: MO\*, NY, 2 sheets\*, US\*). Mindanao: Davao, Mt Apo, Todaya, seepage ledges along Cati Creek at 6000ft, Aug 1909.

MINDANAO: Davao (Mt Apo). Altitude c. 1800m.

**Cypholophus moluccanus** (Blume) Miq., Ann. Mus. Bot. Lugd.-Bat. 4 (1869) 305; --Merr.,

EPFP 2 (1923) 93; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 202.  
Taiwan, Lanyu, Micronesia, Hawaii, Malesia: Sumatra and the Philippines. LUZON:  
Mountain Province to Sorsogon, MINDORO, PANAY, NEGROS, LEYTE, MINDANAO.  
Damp forested ravines, low altitudes to 1500m.

## 5. *Debregeasia* Gaudichaud

***Debregeasia longifolia*** (Burm.f.) Wedd. in DC Prodr. 16<sup>1</sup> (1869) 235<sup>24</sup>; --Merr., EPFP 2 (1923) 95; --*Urtica longifolia* Burm.f., Fl. Ind. (1768) 297. --Type from India.  
*Debregeasia angustifolia* C Robinson, PJS 6 c (1911) Bot. 18. --Type: RS Williams 1551 (US\*, iso). Luzon: Benguet prov., Baguio.  
*Debregeasia luteocarpa* Elmer, LPB 8 (1915) 2843. --Type: Elmer 14068 (L\*, MO\*, NA\*, NY\*, U\*, US\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Oct 1912.  
India to China, Sumatra, Java, Borneo, Philippines. LUZON: Abra (Mt Paraga), Kalinga (Balbalasang), Mountain Province (Bauco), Ifugao, Benguet (Mt Pulag; Mt Sto Tomas; Baguio; Imugan-Nozo Trail), MINDANAO: Agusan del Norte (Mt Urdaneta [=Mt Hilong-hilong]). Common in thickets, ravines, and in damp forests, altitude 1000-2000m. **Note:** Iso sheets at L & MO annotated by Wilmot-Dear as *D. velutina* Gaudich. in 1987.

## 6. *Dendrocnide* Miquel

### Revision:

Chew, WL. 1965. *Laportea and allied genera (Urticaceae)*. Gardens' Bulletin Singapore 21: 201-208.

Chew Wee Lek, 1969. *A monograph of Dendrocnide (Urticaceae)*. Gardens' Bulletin Singapore 25: 1-104.

***Dendrocnide carriana*** Chew, Gard. Bull. Sing. 25 (1969) 45, Fig. 17. --Type from Papua New Guinea.

NE New Guinea (Papua), Moluccas, Lesser Sunda Isls (Bali, Lombok, Timor), MINDORO: Mindoro Oriental (Mt Yagaw, *PNH 18933 Conklin*, A, L, PNH).

***Dendrocnide crassifolia*** (C Robinson) Chew, Gard. Bull. Sing. 21 (1965) 203; *ibid.* 25 (1969) 46, Fig. 5; --*Laportea crassifolia* C Robinson, PJS 5 c (1910) Bot. 480; --Merr., EPFP 2 (1923) 73. --Type: FB 3925 Hutchinson (US\*, holo; iso in K, NY\*). Mindanao: Misamis Occidental prov., Mataline Falls

Talau Isls(?), and the Philippines. MINDANAO: Misamis, Lanao, Davao Oriental (Mt Mayo). In thickets, 400-800m.

***Dendrocnide densiflora*** (C Robinson) Chew, Gard. Bull. Sing. 21 (1965) 203; *ibid.* 25 (1969) 24, Fig. 7; --*Laportea densiflora* C Robinson, PJS 5 c (1910) Bot. 479; --Merr., EPFP 2 (1923) 73. --Type: Hallier 7414 (iso in L\*, NY\*). Mindanao: Zamboanga prov., San Ramon.

*Laportea subpeltata* C Robinson, PJS 5 c (1910) Bot. 485; --Merr., EPFP 2 (1923) 75. --Type: FB 4586 Hutchinson (iso in NY\*, US\*). Mindanao: Misamis Occidental prov., Mt Malindang.

NEGROS: Negros Oriental (Lake Balinsasayao), CAMIGUIN, MINDANAO: Zamboanga (San Ramon), Misamis Occidental (Mt Malindang). Thickets and forests, low altitudes to c. 1000m.

***Dendrocnide elliptica*** (Merr.) Chew, Gard. Bull. Sing. 21 (1965) 203; *ibid.* 25 (1969) 16, Fig. 4; --*Laportea elliptica* Merr., J. Arn. Arb. 35 (1954) 135. --Type (lectotype) from Sabah.

Borneo (Sabah, Sarawak, Kalimantan) and the Philippines.

LUZON: Ifugao prov. (Banawe, *PNH 80485 Conklin & Buwaya*, L).

**Dendrocnide luzonensis** (Wedd.) Chew, Gard. Bull. Sing. 21 (1965) 203; *ibid.* 25 (1969) 40, Fig. 15; --Laportea luzonensis (Wedd.) Warb., Perkins Frag. Fl. Philip. (1905) 168; --Merr., EPFP 2 (1923) 73; --Laportea (1856) 133. --Type: Cuming 522 (iso in CGE, G, G-DC, K, L\*, M, MEL, MO, UPS). Locality not known.

Laportea agusanensis Elmer, LPB 8 (1915) 2860; --Merr., EPFP 2 (1923) 72. --Type: Elmer 14019 (iso in BO, E, F, L\*, MO, US). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong].  
Laportea latilanceolata Elmer, LPB 9 (1934) 3238, not validly published; no Latin description. --Type: Elmer 15206 (iso in A, BO, C, F, FI, K, L\*, MO, S, U, UC, US, Z)

**var. luzonensis**

LUZON: Ilocos Norte, Benguet, Bataan (Mt Mariveles), Laguna, Quezon, Sorsogon (Mt Bulusan), MINDANAO: Agusan del Norte (Mt Urdaneta [=Mt Hilong-hilong]). Forested valleys, usually near streams, low altitudes to 1700m

**var. anacardioides** (C Robinson) Chew, Gard. Bull. Sing. 25 (1969) 42; --Dendrocnide anacardioides (C Robinson) Chew, Gard. Bull. Sing. 21 (1965) 202; --Laportea anacardioides C Robinson, PJS 5 c (1910) Bot. 478; --Merr., EPFP 2 (1923) 72. --Type: Williams 2766 (iso in NY, 2 sheets\*, US\*). Mindanao: Davao del Sur prov., Sta Cruz.

LUZON: Rizal (San Andres), MINDANAO: Davao del Sur (Sta Cruz). Low altitudes.

**Dendrocnide meyeniana** (Walp.) Chew, Gard. Bull. Sing. 21 (1965) 204; *ibid.* 25 (1969) 21, Fig. 6; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 204; --Laportea meyeniana (Walp.) Warb., Perkins Frag. Fl. Philip. (1905) 168; --Merr., Fl. Manila (1912) 181; EPFP 2 (1923) 73; --Urtica meyeniana Walp., Nov Act. Acad. Nat. Cur. 19 (1843) Suppl. 1: 422. --Type:

Dendrocnide diffusa (C Robinson) Chew, Gard. Bull. Sing. 21 (1965) 203; --Laportea diffusa C Robinson, PJS 5 c (1910) Bot. 482; --Merr., EPFP 2 (1923) 73. --Type: FB 5149 Curran (iso in NY\*, US\*). Luzon: Tarlac prov.

Laportea gaudichaudiana Wedd., Arch. Mus. Hist. Nat. Paris 9 (1856) 137. --Type: Cuming 567 (CGE, K). Without locality.

Laportea leytenensis C Robinson, PJS 5 c (1910) Bot. 484; --Merr., EPFP 2 (1923) 73. --Type: Elmer 7351 (iso in A, BO, E, FI, K, NY\* ). Leyte: Palo.

**forma meyeniana**

Taiwan, Lutao and the Philippines.

LUZON: Benguet, Pangasinan (Umingan), Tarlac, Laguna, MINDORO (Baco River), GUIMARAS, LEYTE (Palo). Thickets, light forests, sandy river beds at low and medium altitudes.

**forma subglabra** (Hayata) Chew, Gard. Bull. Sing. 25 (1969) 22.

Dendrocnide batanensis (C Robinson) Chew, Gard. Bull. Sing. 21 (1965) 202; --Laportea batanensis C Robinson, PJS 5 c (1910) Bot. 481; --Merr., EPFP 2 (1923) 72. --Type: BS 3719 Fenix (NY\*, US, iso). Batan Is.

Laportea mindanaensis Warb. in Perkins Fragm. Fl. Philip. (1905) 168; --Merr., EPFP 2 (1923) 74. --Type: Warburg 14702 (iso in NY\*). Mindanao: Taumu

Dendrocnide platyphylla (Merr.) Chew, Gard. Bull. Sing. 21 (1965) 205; --Laportea platyphylla Merr., PJS 11 c (1916) Bot. 176; --Merr., EPFP 2 (1923) 74. --Type: BS 24274 Ramos (iso in US\*). Samar: Catubig River

S Taiwan and the Philippines.

BATAN, LUZON: Ilocos Norte, Sorsogon, POLILLO, CATANDUANES, MINDORO: Mindoro Oriental (Mt Yagaw), PANAY: Aklan (Libacao), SAMAR (Catubig River at San Jose, Pinipisakan and Palapag), JOLO, MINDANAO: Taumu (**where is this Warburg locality?**). Thickets and forests, along small streams at low and medium altitudes.

**Dendrocnide rigidifolia** (C Robinson) Chew, Gard. Bull. Sing. 21 (1965) 205; *ibid.* 25 (1969) 26, Fig. 8; --Laportea rigidifolia C Robinson, PJS 5 c (1910) Bot. 483; --Merr., EPFP 2 (1923) 74. --Type: RS Williams 991 (iso in BO, E, F, L, NY, 2 sheets\*, US\*). Luzon: Benguet prov., Mt Sto Tomas.

LUZON: Benguet (Sablan; Mt Sto Tomas). Mossy forest, c. 2000m on Mt Sto Tomas,

medium altitudes in Sablan.

**Dendrocnide stimulans** (L.f.) Chew, Gard. Bull. Sing. 21 (1965) 206; *ibid.* 25 (1969) 11, Fig. 2. *Laportea gracilipes* Elmer, LPB 3 (1910) 876; --Merr., EPFP 2 (1923) 73. --Type: Elmer 10499 (PNH, holo, lost; iso in A, BO, E, F, G, K, L\*, MO\*, NY (2sheets)\*, WRSL, US\*, Z). Mindanao: Davao del Sur prov., Mt Apo.

*Laportea brunnea* Merr., PJS 10 c (1915) Bot. 298; --Merr., EPFP 2 (1923) 72. --Type: BS 17559 Ramos (K, US).

*Laportea lanaensis* C Robinson, PJS 5 c (1910) Bot. 483. --Type: Clemens 462 (F, M). Mindanao: Lanao del Sur prov., Lake Lanao, Camp Keithley

*Dendrocnide stenophylla* (Quisumb.) Chew, Gard. Bull. Sing. 21 (1965) 206; --*Laportea stenophylla* Quisumb., PJS 41 (1910) 19. Hainan, Taiwan, Thailand, Laos, Vietnam, Sumatra, Peninsular Malaysia, Java, Lesser Sunda Isls (Bali, Lombok), Anambas, Borneo (Sabah, Sarawak, Kalimantan), Philippines, Sulawesi, Moluccas (Buru).

LUZON: Bataan, Laguna, Sorsogon, SAMAR (Cauayan Valley), MINDANAO: Lanao del Sur (Camp Keithley), Davao del Sur (Mt Apo), Davao Oriental (Mt Mayo), Agusan. Primary and secondary forests, thickets, near sea level to 1200m.

**Dendrocnide subclausa** (C Robinson) Chew, Gard. Bull. Sing. 21 (1965) 206; *ibid.* 25 (1969) 28, Fig. 9; --*Laportea subclausa* C Robinson, PJS 5 c (1910) Bot. 486; --Merr., EPFP 2 (1923) 74. --Type: Merrill 6290 (iso in K, NY\*, US\*). Luzon: Laguna prov., Mt Makiling.

*Laportea pendula* Merr., PJS 13 c (1918) Bot. 270; --Merr., EPFP 2 (1923) 74. --Type: BS 30229 Ramos (iso in K, US\*). Catanduanes: Mt Mariguison, along small streams in damp forests, altitude c. 200m, 21 Nov 1917.

LUZON: Isabel (San Mariano; Palanan), Laguna (Mt Makiling), Camarines, Sorsogon (Mt Bulusan), CATANDUANES (Mt Mariguison), PANAY: Capiz (Jamindan), MINDANAO: Agusan del Norte (Tungao). Lowland forests, usually along streams, ascending to 800m.

**Dendrocnide venosa** (Elmer) Chew, Gard. Bull. Sing. 21 (1965) 207; *ibid.* 25 (1969) 30, Fig. 10; --*Laportea venosa* Elmer, LPB 3 (1910) 878; --Merr., EPFP 2 (1923) 75. --Type: Elmer 11948 (A, BO, E, F, FI, K, L\*, MO\*, NY (2 sheets)\*, US\*, WRSL, Z). Mindanao: Davao del Sur prov., Mt Apo.

*Laportea monticola* Merr., PJS 10 c (1915) Bot. 299; --Merr., EPFP 2 (1923) 74. --Type: BS 19765 RC McGregor (iso in US\*)

*Laportea triplinervia* Merr., PJS 10 c (1915) Bot. 300; --Merr., EPFP 2 (1923) 75. --Type: BS 19462 Ramos (iso in L\*, US\*). Luzon: Quezon prov., Mt Pular.

*Laportea conduplicata* Elmer, LPB 9 (1934) 3237, not validly published; no Latin description. --Type: Elmer 17152 (A, BO, C, F, FI, K, L\*, MO\*, NY\*, S, U\*, UC, US\*, Z). Luzon: Sorsogon prov., Mt Bulusan.

LUZON: Ifugao (Mt Polis), Quezon (Mt Pular), Sorsogon (Mt Bulusan), NEGROS: Negros Oriental (Lake Balinsasayao), MINDANAO: Davao del Sur (Mt Apo). Low montane to montane mossy forests, 400-2000m.

*Distemon* Wedd. 1857 *non* Bouche 1844 = *Neodistemon*

## 7. *Elatostema* JR & G Forster

Revision:

Schröter, H. 1935-36. Feddes Repert. Beih. 83, 1-2 (1935-36)

***Elatostema acrophilum*** C Robinson, PJS 5 c (1910) Bot. 523; --Merr., EPFP 2 (1923) 78. --Type: BS 6577 Robinson (US\*, iso). Luzon: Laguna prov., Mt Banahaw, summit area, Jan 1909.

LUZON: Laguna, Quezon, Camarines, CATANDUANES (BS 75410 Ramos & Edaña, SING). Lower montane to high-montane mossy forests, altitude 1000-2100m.

**Elatostema acuminatissimum** Merr., PJS 14 (1919) 375; EPFP 2 (1923) 79. –Type: BS 29015 Ramos & Edaño (US\*, iso). Luzon: Quezon prov., Umiray, 2 Jun 1917.  
LUZON: Quezon (Umiray). Low altitude damp forest along streams.

**Elatostema agusanense** Elmer, LPB 8 (1908) 2845; –Merr., EPFP 2 (1923) 79. –Type: Elmer 14250 (GH\*, US\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Aug 1912.  
LUZON: Laguna, Sorsogon, MINDANAO: Agusan del Norte (Mt Urdaneta [=Mt Hilong-hilong]). Forested ravines along small streams at médium altitudes.

**Elatostema angustatum** C Robinson, PJS 5 c (1910) Bot. 533, erroneously as '523' in –Merr., EPFP 2 (1923) 79. –Type: FB 3266 Ahern's collector (cited by Robinson, loc. cit.). Luzon: Rizal prov., Bosoboso.  
Elatostema camiguinense Elmer, LPB 8 (1915) 2849. –Type: Elmer 14227 (GH\*, US\*, iso). Camiguin: Mambajao, Nov 1912.  
LUZON: Rizal, Laguna, CAMIGUIN, MINDANAO. Along streams in shaded ravines at low and medium altitude.

**5. Elatostema antonii** Elmer, LPB 8 (1908) 2847; –Merr., EPFP 2 (1923) 79. –Type: Elmer 13894 (MO\*, US\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong] (=Mt Hilong-hilong), Sept 1912.  
MINDANAO: Agusan del Norte (Mt Urdaneta [=Mt Hilong-hilong]). Boulders in densely shaded ravines along streams, altitude c. 900m,

**Elatostema apoense** Elmer, LPB 3 (1910) 885; –Merr., EPFP 2 (1923) 79. –Type: Elmer 11793 (MO\*, US\*, iso). Mindanao: Davao (Mt Apo). Dense forests, altitude c. 1200m. According to Merrill, near *E hookerianum* Wedd.

**Elatostema appendiculatum** Merr., PJS 14 (1919) 379; EPFP 2 (1923) 79. –Type: BS 29129 Ramos & Edaño (US\*, iso). Luzon: Quezon prov., Mt Tulaog, along small streams in damp forests at low altitude, 25 May 1917.  
LUZON: Quezon (Mt Tulaog). Low altitude forests along streams.

**Elatostema banahaense** C Robinson, PJS 5 c (1910) Bot. 526, –Merr., EPFP 2 (1923) 79. –Type: BS 9856 Robinson (US\*, iso). Luzon: Laguna prov., Mt Banahaw, altitude 1500m, Mar 1910.  
Elatostema scriptum C Robinson, PJS 5 c (1910) Bot. 529; –Merr., EPFP 2 (1923) 85. –Type: BS 9766 Robinson (cited by Robinson, loc. cit.). Luzon: Laguna (Mt Banahaw). On rocks in forests, altitude c. 800m.  
Elatostema carinoides WR Shaw ex C Robinson, PJS 5 c (1910) Bot. 532; *ibid.* 6 c (1911) Bot. 307. –Type: Phil. Normal Sch. 428 Cariño. (cited by Robinson, loc. cit.). Luzon: Benguet: Baguio.  
Elatostema bulusanense Elmer, LPB 9 (1934) 3227. –Syntypes: Elmer 16172 (A\*, MO\*, US\*), 15575 (MO\*, US\*), 16399 (GH\*, MO\*, US\*). Luzon: Sorsogon prov., Mt Bulusan.  
LUZON: Ifugao (Kiangan), Mountain Province, Benguet, Cagayan (Gonzaga, BS 78627 Edano, SING), Laguna (Mt Makiling; Mt Banahaw), Sorsogon (Mt Bulusan), NEGROS: Negros Occidental (Katugasan, PNH 21834, SING), SIQUIJOR, MINDANAO: Zamboanga. Damp forests at medium and higher altitudes, ascending to 2100m in the mossy forest on high mountains.

**Elatostema baruringense** Elmer, LPB 3 (1910) 890; –Merr., EPFP 2 (1923) 79. –Type: Elmer 10916 (PNH, holo, lost; iso: GH\*, MO, US\*). Mindanao: Davao, Mt Apo, Todaya, Jun 1909.  
MINDANAO: Davao (Mt Apo). Dense forests, altitude c. 1200m.

**Elatostema benguetense** C Robinson, PJS 5 c (1910) Bot. 539; –Merr., EPFP 2 (1923) 80. –Type: FB 5006 Curran. Luzon: Benguet prov., Mt Tonglon (=Sto. Tomas).  
LUZON: Ifugao, Mountain Province (Mt Data), Benguet (Pauai; Mt Pulag; Mt Sto

Tomas), MINDORO: Mindoro Oriental (Mt Halcon, PNH 3572 Edano), NEGROS: Negros Occidental (Mt Kanlaon, PNH 21963 Edano) Mossy forests, altitude 1800-2300m.

**Elatostema bontocense** Merr., PJS 20 (1922) 371; --Merr., EPFP 2 (1923) 80. --Type: BS 37660 Ramos & Edaño (US\*, iso). Luzon: Mountain Province, Mt Polis, on tree trunks in the mossy forest, 25 Feb 1920.

LUZON: Mountain Province. Mossy forests, altitude 1800m.

**Elatostema brongniartianum** Wedd., Ann. Sc. Nat. Bot. iv 1 (1854) 190; --Merr., EPFP 2 (1923) 80. --Type: Cuming 629. Luzon: Laguna prov., Calauan.

*Elatostema rupicolum* Elmer, LPB 9 (1934) 3233. --Type: Elmer 18000 (GH\*, MO\*, US\*, iso). Luzon: Laguna prov., Mt Makiling, Jun-Jul 1917.

N LUZON to MINDANAO. On rocks, cliffs, and banks of shaded ravines at medium altitudes, in Luzon ascending to 1400m.

**Elatostema brunneolus** Elmer, LPB 9 (1934) 3219. --Type: Elmer 22102 (B\*, GH\*, MO\*, US\*, iso). Luzon: Pampanga prov., Mt Pinatubo, Camp Stotsenburg, May 1927.

LUZON: Pampanga (Mt Pinatubo), NEGROS: Negros Oriental (Cuernos Mtns, PNH 7332 Edano)

**Elatostema brunonianum** Quisumb., PJS 41 (1930) 318, t. 2; --Type: BS 49401 Ramos & Edaño (PNH, holo, possibly lost; iso possibly in UC). Mindanao: Davao Oriental prov., Mt Mayo, trunk epiphyte in mossy forest, altitude c. 1300m.

MINDANAO: Davao Oriental (Mt Mayo), trunk epiphyte in mossy forest, 1300m. Known only from the type.

**Elatostema buderi** H Schröter, Fedde, Repert. Beih. 83 i (1935) 6; --*ibid.* 103. --Type: MINDORO.

**Elatostema capizense** Merr., PJS 20 (1922) 372; EPFP 2 (1923) 80. --Type: BS 30748 Ramos & Edaño (US\*, iso). Panay: Aklan prov., Mt Macosolon (=Magosolon), boulders along small streams in damp forests at low altitude, 19 Apr 1918.

PANAY: Aklan (Mt Magosolon). Low altitude forests along stream.

**Elatostema catalonanum** H Schröter, Fedde, Repert. Beih. 83 i (1935) 28, *in obs., nomen*; --*ibid.* 113.

*Elatostematoides mindanaense* C Robinson, PJS 5 c (1910) Bot. 502; --Merr., EPFP 2 (1923) 88. --Type: Copeland 935 (staminate), 936 (pistillate), cited by Robinson, loc. cit. Mindanao: Davao del Sur prov., Catalunan.

MINDANAO (Davao). In forests at medium altitudes.

**Elatostema catanduanense** Merr., PJS 13 c (1918) Bot. 271; EPFP 2 (1923) 80. --Type: BS 30555 Ramos (US\*, iso). Catanduanes: Sto Domingo River, on stones along small streams in forests at low altitudes, 5 Dec 1917.

CATANDUANES. Rupicolous in low altitude forested streams.

**Elatostema cheirophyllum** C Robinson, PJS 5 c (1910) Bot. 518; --Merr., EPFP 2 (1923) 80. --Type: Whitford 1595 (US\*, iso). Negros: Negros Occidental prov., Himugaan River, May 1906.

NEGROS: Negros Occidental, MINDANAO: Zamboanga. Banks and boulders along streams in shaded ravines at medium altitude.

**Elatostema contiguum** C Robinson, PJS 5 c (1910) Bot. 536; --Merr., EPFP 2 (1923) 80. --Type: BS 9479 Robinson. Luzon: Quezon prov., Mahabang Sugsugan River.

LUZON: Laguna, Quezon, Camarines. Shaded stream embankments at medium

altitudes.

**Elatostema delicatum** Wedd., Ann. Sc. Nat. Bot. iv 1 (1854) 190; --Merr., EPFP 2 (1923) 80. –

Type:

*Elatostema delicatum* Elmer, LPB 2 (1908) 467. –Type: Elmer 10343 (PNH, holo, lost; iso: GH\*, MO\*, US\*).  
Negros: Negros Oriental prov., Cuernos Mtns, Jun 1908.

LUZON: Cagayan, Isabel, Rizal, Laguna, PANAY, NEGROS. On rocks and ledges in shaded stream beds at low and medium altitudes.

**Elatostema discolor** C Robinson, PJS 6 c (1911) Bot. 301; --Merr., EPFP 2 (1923) 81. –Type: BS  
13475 Ramos (US\*, iso). Luzon: Benguet prov., Baguio, in ravines, altitude c. 1400m, May 1911.

LUZON: Ifugao, Benguet. Forests at or above 1400m altitude.

**Elatostema diversilimum** Merr., PJS 14 (1919) 378; --Merr., EPFP 2 (1923) 81. –Type: Merrill  
9127 (US\*, iso). Mindanao: Zamboanga: Mtns back of Zamboanga, damp shaded ravines along  
small streams on banks and ledges, altitude 200-400m, 6 Dec 1911.

MINDANAO: Zamboanga. On banks and ledges in damp, shaded ravines, altitude 200-  
400m.

**Elatostema edanoi** Merr., PJS 20 (1922) 374; --Merr., EPFP 2 (1923) 81 ('edañoii'). –Type: BS  
trunks in forests along streams, altitude c. 1300m, 17 Feb 1920.

37603 Ramos & Edaño

LUZON: Kalinga. In forests, altitude c. 1300m.

**Elatostema edule** C Robinson, PJS 5 c (1910) Bot. 531; --Merr., EPFP 2 (1923) 81; --Yang, et al.,  
Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 206, pl. 103. –Type:

Lanyu, Lutao. N Philippines.

BATAN. Along streams, ravines and moist forest floor.

**Elatostema elmeri** Merr., EPFP 2 (1923) 81; --*Elatostema pictum* Elmer, LPB 8 (1915) 2850, *non*  
Hallier f. –Type: Elmer 13484. [Check protologue](#)

LUZON: Quezon, MINDANAO: Agusan del Norte. About boulders in forests, altitude c.  
1200m.

**Elatostema euphlebioides** Merr., PJS 5 c (1910) Bot. 531; --Merr., EPFP 2 (1923) 81. –Type: BS  
1800m, 10 Mar 1920.

37765 Ramos & Edaño

LUZON: Mountain Province. Forested slopes, altitude c. 1800m.

**Elatostema falcifolium** H Schröter, Fedde, Repert. Beih. 83 i (1935) 28; --*ibid.* 102. –Type:  
PANAY.

**Elatostema ferrugineum** (Merr.) Co, **comb. nov.**; --*Polychroa ferruginea* Merr., PJS 20 (1922)  
381; --Merr., EPFP 2 (1923) 77. –Type: BS 38781 Ramos & Edaño (US\*, iso). Mindanao:  
Bukidnon prov., Mt Candoon, in forests, altitude c. 1000m, 27 Jul 1920.

MINDANAO: Bukidnon (Mt Candoon). Forests, altitude c. 1000m.

**Elatostema filicaule** C Robinson, PJS 5 c (1910) Bot. 516; --Merr., EPFP 2 (1923) 81. –Type:  
Merrill 6621 (US\*, iso). Luzon: Benguet prov., Pauai, mossy forest, altitude c. 2100m, May 1909.

LUZON: Ifugao (Mt Polis), Benguet (Pauai; Mt Sto Tomas). Mossy forests, altitude 1900-  
2300m.

**Elatostema gitingense** Elmer, LPB 8 (1908) 2852; --Merr., EPFP 2 (1923) 81. –Type: Elmer 12421  
(US\*, iso). Sibuyan: Mt Giting-giting, May 1910.

SIBUYAN (Mt Giting-giting), PANAY (Antique). On cliffs and in wet soil along small



streams in shaded ravines, altitude 250-500m.

**Elatostema glaucescens** Wedd., Arch. Mus. Paris 9 (1856) 325; --Merr., EPFP 2 (1923) 81.  
LUZON: Benguet, Bataan (Mt Mariveles), Bulacan (Norzagaray), Rizal (Jalajala),  
Laguna (Calauan; Los Baños; Mt Makiling), PANAY. Chiefly on mossy boulders and  
cliffs in shaded stream beds at low and medium altitudes; in places ascending to 1200m.  
--Backer & Bakh.f., Fl. Java 1 (1964) 540.

**Elatostema glomeratum** C Robinson, PJS 6 c (1911) Bot. 302; --Merr., EPFP 2 (1923) 82. --Type:  
Merrill 7642 (TAIF\*, iso). Luzon: Benguet prov., Baguio, on wet ledges in ravine.  
LUZON: Benguet (Baguio; Mt Sto Tomas). Wet ledges, shaded ravines, and in the  
mossy forest, altitude 1400-1900m.

**Elatostema gracilifolium** Merr., PJS 13 c (1908) Bot. 8; EPFP 2 (1923) 82. --Type: BS 26428  
Ramos & Edaño. Luzon: Nueva Ecija prov., Mt Umingan, on rocks in forests, 18 Aug 1916.  
LUZON: Nueva Ecija (Mt Umingan). On rocks in forests.

**Elatostema gracilipes** (C Robinson) H Schröter, Fedde, Repert. Beih. 83 i (1935) 3, 18; --*ibid.*  
114.b; --Elatostematoides gracilipes C Robinson, PJS 5 c (1910) Bot. 503; --Merr., EPFP 2 (1923)  
87. --Type: Merrill 5269 (NY\*, US\*, iso). Bucas Grande, 4 Oct 1906  
BUCAS GRANDE. Cliffs in shaded ravines at low altitudes.

**Elatostema halconense** C Robinson, PJS 5 c (1910) Bot. 540; --Merr., EPFP 2 (1923) 82. --Type:  
Merrill 5786 (US\*, iso). Mindoro: Mindoro Oriental prov., Mt Halcon, ridge forest, altitude 750m.  
MINDORO: Mindoro Oriental (Mt Halcon). Forested ridges, altitude c. 750m.

**Elatostema hastatum** Elmer, LPB 2 (1908) 466; --Merr., EPFP 2 (1923) 82. --Type: Elmer 9829  
(GH\*, MO\*, US\*, iso). Negros: Negros Oriental prov., Cuernos Mtns, Apr 1908.  
PANAY, NEGROS: Negros Oriental (Cuernos Mtns), MINDANAO: Agusan. Damp  
forests, altitude c. 1200m.

**Elatostema heterophyllum** C Robinson, PJS 5 c (1910) Bot. 517; --Merr., EPFP 2 (1923) 82. --  
Type: Merrill 6911 (US\*, iso). Negros: Negros Occidental prov., Mt Kanlaon, Apr 1910.  
NEGROS: Negros Occidental (Mt Kanlaon). In forests on cliffs and in damp shaded  
ravines, altitude 900-1320m.

**Elatostema holophyllum** Merr., PJS 11 c (1910) Bot. 5; EPFP 2 (1923) 82. --Type: BS 23329  
Aug 1915.

Ramos (US\*, iso). Luzon

L:UZON: Nueva Ecija, Sorsogon, CATANDUANES. On boulders in shaded ravines at  
medium altitudes, epiphytic in the mossy forests.

**Elatostema inaequifolium** Elmer, LPB 3 (1910) 877; --Merr., EPFP 2 (1923) 82. --Type: Elmer  
11545 (US\*, iso). Mindanao: Davao, Mt Apo, Todaya, Aug 1909.  
MINDANAO: Davao (Mt Apo). On wet rocks along streams, altitude c. 1800m.

**Elatostema integrifolium** (Don) Wedd. in DC Prod. 16<sup>1</sup> (1869) 179; --Merr., EPFP 2 (1923) 82.  
India to Java. PALAWAN, LEYTE (Ormoc, Mt Lamban, PNH 12145 Edano, SING),  
MINDANAO: Bukidnon (Pagantocan, PNH 13488 Añonuevo, SING). Damp forests at  
medium altitudes.

**Elatostema iridense** Quisumb., PJS 41 (1930) 320, t. 3. --Type: BS 48515 Ramos & Edaño (PNH,  
holo, possibly lost; iso possibly in UC). Luzon: Rizal prov., Mt Irid. On rocks in damp forest,  
LUZON: Rizal (Mt Irid). Only known from the type collection. altitude c. 700m.

**Elatostema kalingaense** Merr., PJS 20 (1922) 376; EPFP 2 (1923) 83. –Type: BS 37493 Ramos & Edaño (US\*, iso). Luzon: Kalinga prov., Mt Masingit, near Lubuagan, on boulders or ledges along streams, altitude c. 1200m, 16 Feb 1920.

LUZON: Kalinga. Boulders along streams, altitude c. 1200m.

**Elatostema lagunense** Merr. ex C Robinson, PJS 5 c (1910) Bot. 527; --Merr., EPFP 2 (1923) 83. –Type: Merrill 5118 (US\*, iso). Luzon: Laguna prov., Los Baños, 12 Mar 1906.

LUZON: Ifugao (Kiangan), Bataan (Mt Mariveles), Laguna (Los Baños; Mt Makiling), Quezon (Mt Binuang; Lucban), MINDANAO: Lanao del Sur (Camp Keithley). Damp shaded ravines along small streams at low and medium altitudes, ascending to 1000m in wet forests.

**Elatostema lanaense** C Robinson, PJS 5 c (1910) Bot. 528; --Merr., EPFP 2 (1923) 83. –Type: MS Clemens 405. Mindanao: Lanao del Sur prov., Camp Keithley.

Mindanao: Lanao del Sur (Camp Keithley). Shaded ravines, altitude c. 700m.

**Elatostema lignosum** Merr., PJS 20 (1922) 377; EPFP 2 (1923) 83. –Type: Merrill 9697 (US\*, iso). Luzon: Benguet prov., Baguio. In shaded places about limestone boulders, altitude c. 1400m.

LUZON: Benguet (Baguio), on limestone boulders, altitude c. 1400m.

**Elatostema lingua** H Schröter, Fedde, Repert. Beih. 83 i (1935) 28; --*ibid.* 112. –Type: SAMAR, MINDANAO.

**Elatostema longifolium** Wedd., Ann. Sc. Nat. Bot. iv, 1 (1854) 189; --Merr., EPFP 2 (1923) 83. –Type: Cuming 456. Luzon: Laguna prov., Calauan.

LUZON: Nuev a Vizcaya (Mt Umuguen), Laguna (Los Baños; Calauan), Quezon, MINDANAO. Forests at medium altitudes.

**Elatostema longipedunculatum** Elmer, LPB 3 (1910) 886; --Merr., EPFP 2 (1923) 83. –Type: Elmer 11593 (PNH, holo, lost; iso: MO\*, US\*). Mindanao: Davao, Mt Apo, Todaya, Aug 1909.

MINDANAO: Davao. On seepage slopes and ledges, altitude c. 1800m.

**Elatostema lutescens** C Robinson, PJS 6 c (1911) Bot. 304; --Merr., EPFP 2 (1923) 83. –Type: Merrill 7643 (US\*, iso). Luzon: Benguet prov., Baguio and vicinity, in ravines, May 1911.

LUZON: Ilocos Norte, Benguet (Baguio; Mt Sto Tomas, Sablan). Shaded cliffs, thickets, and in the mossy forests, altitude 1000-1900m.

**Elatostema luzonense** C Robinson, PJS 5 c (1910) Bot. 512; --Merr., EPFP 2 (1923) 83. –Type: BS 6135 Robinson (US\*, iso). Luzon: Rizal prov., Montalban, 1 Aug 1908.

LUZON: Mountain Province, Benguet, Pampanga (Mt Arayat), Rizal, Laguna, Camarines, PALAWAN (Mt Mantalingahan), PANAY. Common on wet cliffs, banks of ravines, etc., from sea level to at least 1200m.

**Elatostema macgregorii** Merr., PJS 14 (1919) 373; EPFP 2 (1923) 83. –Type: BS 32396 RC PANAY: Antique (Culasi, 4 collections cited in the original protologue). Damp forests, altitude 800-1300m.

McGregor (US\*, iso). F

**Elatostema manillense** Wedd., Ann. Sc. Nat. Bot. iv, 1 (1854) 189; --H Schröter, Fedde Repert. Beih. 83 ii (1936) 100; --*Elatostematoides manillense* (Wedd.) C Robinson, PJS 5 c (1910) Bot. 501; --Merr., EPFP 2 (1923) 87. –Type: Cuming 786.

BATAN, LUZON: Cagayan, Quezon, POLILLO, PANAY: Antique, Capiz, LEYTE, MINDANAO: Misamis, Bukidnon, Agusan. Low and médium altitude forests.

**Elatostema merrillii** C Robinson, PJS 6 c (1911) Bot. 305; --Merr., EPFP 2 (1923) 84. --Type: Merrill 7647 (MO\*, US\*)  
places along trail at c. 1800m, May 1911.

LUZON: Benguet. Forests, altitude 1800m.

**Elatostema microphyllum** Elmer, LPB 1 (1908) 286; --Merr., EPFP 2 (1923) 84. --Type: Elmer 9149 (PNH, holo, lost; iso: MO\*, US\*). Luzon: Quezon prov., Lucban, May 1907.

*Elatostema maquilingense* Elmer, LPB 9 (1934) 3229. --Syntypes: Elmer 17636 (GH\*, MO\*, US\*), 18361 (MO\*). Luzon: Laguna prov., Mt Makiling, Jun-Jul 1917.

LUZON: Laguna, Quezon, PANAY. On boulders in damp shaded ravines along streams at medium altitudes.

**Elatostema mindanaense** (C Robinson) H Schröter, Fedde, Repert. Beih. 83 i (1935) 18; --*ibid.* 40; --*Polychroa mindanaensis* (C Robinson) Merr., EPFP 2 (1923) 78; --*Pellionia mindanaensis* C Robinson, PJS 5 c (1910) Bot. 496. --Type: Copeland 900 (US\*, iso). Mindanao: Davao, Apr 1904.

MINDORO: Mindoro Oriental (Mt Halcon), MINDANAO: Lanao del Sur (Camp Keithley), Bukidnon, Davao, Davao del Sur (Mt Apo).

**Elatostema multinervium** (Merr.) H Schröter, Fedde, Repert. Beih. 83 i (1935) 18; --*ibid.* 75; --*Polychroa multinervia* Merr., PJS 20 (1922) 380; EPFP 2 (1923) 78. --Type: BS 39137 Ramos & Edaño (US\*, iso). Mindanao: Bukidnon prov., near Tanggulan, on trees in damp forests at c. 900m, 5 Jul 1920.

MINDANAO: Bukidnon. On trees in damp forests, altitude c. 900m.

**Elatostema oblanceolatum** C Robinson, PJS 5 c (1910) Bot. 524; --Merr., EPFP 2 (1923) 84. --Type: Merrill 6909 (US\*, iso). Negros: Negros Occidental prov., Mt Kanlaon, on steep moss-

covered shaded banks

NEGROS: Negros Occidental (Mt Kanlaon). Shaded mossy stream banks, altitude 900m.

**Elatostema obovatum** Wedd., Ann. Sc. Nat. Bot. iv, 1 (1854) 190; --Merr., EPFP 2 (1923) 84. --Type: Cuming 628. Luzon: Laguna prov., Calauan.

LUZON: Laguna. Shaded ravines at low altitudes.

**Elatostema obtusiusculum** C Robinson, PJS 5 c (1910) Bot. 537; --Merr., EPFP 2 (1923) 84. --Type: BS 9840 Robinson. Luzon: Quezon prov., Mahabang Sugsugan River, growing on rocks at an elevation of 100-150m.

LUZON: Cagayan, Benguet (Sablan) to Quezon, Camarines Sur (Maagnas), LEYTE, MINDANAO. Low and medium altitudes, on rocks and banks in shaded ravines.

**Elatostema palawanense** C Robinson, PJS 5 c (1910) Bot. 526; --Merr., EPFP 2 (1923) 84.

--Type: BS 677 Foxworthy (US\*, iso). Palawan: Mt Victoria, altitude 1100m, Mar-Apr 1906. PALAWAN (Mt Victoria). Damp forested slopes, altitude c, 1100m.

**Elatostema panayense** Merr., PJS 14 (1919) 372; EPFP 2 (1923) 84. --Type: BS 32396 Ramos & Edaño. Panay: Antique prov., Culasi, damp forests along streams, May 1918.

PANAY: Antique. Damp forests along small streams at medium altitudes.

**Elatostema perlongifolium** Elmer, LPB 9 (1934) 3231. --Type: Elmer 16408 (GH\*, MO\*, US\*).

Luzon: Sorsogon prov., Mt Bulusan, Jun 1916.

LUZON: Sorsogon. **Ecol.**

**Elatostema philippinense** Elmer, LPB 3 (1910) 888; --Merr., EPFP 2 (1923) 84. --Syntypes: Elmer 11746 (MO\*, US\*), Elmer 11751 (GH\*, MO\*, US\*). Mindanao: Davao, Mt Apo, Todaya, Sept 1909.

*Elatostema glabratum* Elmer, LPB 9 (1934) 3228. --Syntypes: Elmer 16325 (GH\*, MO\*, US\*). Luzon:

Sorsogon prov., Mt Bulusan, Jun 1916; --Elmer 15576 (GH\*, MO\*, US\*). Luzon: Sorsogon prov., Mt Bulusan, Nov 1915.  
LUZON: Cagayan, Rizal, Sorsogon (Mt Bulusan), POLILLO, NEGROS, MINDANAO

**Elatostema pilosum** Merr., PJS 14 (1919) 376; --Merr., EPFP 2 (1923) 84. --Type: BS 20060 RC  
McGregor. Luzon: Nueva Vizcaya prov., near Imugan, 29 Dec 1912.  
LUZON: Nueva Vizcaya. In forests at medium altitudes.

**Elatostema pinnatinervium** Elmer, LPB 1 (1908) 286; --Merr., EPFP 2 (1923) 85. --Type: Elmer  
9193 (PNH, holo, lost; iso: MO\*, US\*). Luzon: Quezon prov., Lucban, May 1907.  
LUZON: Quezon (Infanta, Anoling River; Lucban), POLILLO (Mt Malulud). Mossy  
boulders in shaded ravines, altitude 30-750m.

**Elatostema plumbeum** C Robinson, PJS 5 c (1910) Bot. 535; --Merr., EPFP 2 (1923) 85. --Type:  
BS 3495 Mearns. Luzon: Benguet prov.  
LUZON: Benguet. Shaded ravines on cliffs and in the mossy forest, altitude 1000-  
1900m.

**Elatostema podophyllum** Wedd., Ann. Sc. Nat. Bot. iv, 1 (1854) 189; --Merr., EPFP 2 (1923) 85. --Type: Cuming 78  
LUZON: Ifugao, Benguet (Pauai), Quezon (Mt Binuang; Mt Banahaw; Mt Banahaw de  
Lucban) to Sorsogon (Mt Bulusan), MINDORO: Mindoro Oriental (Mt Halcon). Mossy  
forests on the higher mountains, up to an altitude of 2300m.

**Elatostema pulchellum** C Robinson, PJS 5 c (1910) Bot. 522; --Merr., EPFP 2 (1923) 85. --Type:  
BS 9824 Robinson (US\*, iso). Luzon: Laguna prov., Mt Banahaw, 5-7 Mar 1910.  
LUZON: Laguna (Mt Banahaw), Quezon, MINDANAO: Misamis Occidental (Mt  
Malindang), Davao (Mt Apo). Mossy forests on the higher mountains, altitude 1800-  
2475m.

**Elatostema purpureum** C Robinson, PJS 6 c (1911) Bot. 306; --Merr., EPFP 2 (1923) 85. --  
Syntypes: Merrill Phil. Plants 812 (US\*). Luzon: Benguet prov., Mt Tonglon (=Sto Tomas), mossy  
forest, altitude c. 1900m, May 1911; --Merrill 7644: also from the same mountain but at a more  
shaded place at a slightly lower elevation.  
LUZON: Ifugao, Mountain Province, Benguet, Mossy forests, altitude 1800-1900m.

**Elatostema rigidum** Wedd., Arch. Mus. Paris 9 (1856) 320. --Type: Cuming 1674 (cited by  
Robinson in PJS 5 c (1910) 503). Samar.  
Elatostematoides rigidum (Wedd.) C Robinson, PJS 5 c (1910) Bot. 503; --Merr., EPFP 2 (1923) 88.  
LUZON: Cagayan, CATANDUANES, PANAY, NEGROS: Negros Occidental (Himugaan  
River), BOHOL (BS 42872 Ramos, SING), LEYTE, SAMAR, MINDANAO: Zamboanga,  
Agusan del Norte (Mt Urdaneta [=Mt Hilong-hilong]).

**Elatostema robinsonii** Merr., PJS 14 (1919) 376; EPFP 2 (1923) 85. --Type: BS 19727 RC  
McGregor (US\*, iso). Luzon: Ifugao prov., Mt Polis, altitude not indicated, 30 Jan 1913.  
LUZON: Ifugao (Mt Polis), apparently in mossy forests at or above 1500m altitude.

**Elatostema samarense** (Merr.) H Schröter, Fedde, Repert. Beih. 83 i (1935) 28; --*ibid.* 108;  
--Elatostematoides samarense Merr., PJS 14 (1919) 380; EPFP 2 (1923) 88; *non* Elatostema  
samarense Merr., PJS 20 (1922) 378. --Type: BS 17468 Ramos (US\*, iso). Samar: Western  
Samar prov., Yabong (=Yabon), damp forests near small streams at low altitude, 16 Mar 1914  
Elatostema trichophlebium Merr. ex H. Schröter, Fedde, Repert. Beih. 83 i (1935) 28; --*ibid.* 104. --Type: BS  
42378 Edaño (A\*, SING\* iso). Panay: Aklan (previously in Capiz) prov., Mt Timbaban, May 1923.  
PANAY: Aklan, SAMAR. Lowland primary forest along streams.

**Elatostema scapigerum** C Robinson, PJS 5 c (1910) Bot. 542; --Merr., EPFP 2 (1923) 85. --Type: Vanoverbergh 587.

LUZON: Mountain Province, Benguet (Baguio; Mt Sto Tomas). Damp cliffs and in the mossy forest, altitude 1100-2000m.

**Elatostema serratifolium** Elmer, LPB 9 (1934) 3234. --Type: Elmer 14712 (PNH, holo, lost; iso: GH\*, MO\*, US\*). Luzon: Sorsogon prov., Mt Bulusan, Aug 1916.

LUZON: Sorsogon. **Ecol.**

**Elatostema simulans** C Robinson, PJS 5 c (1910) Bot. 519; --Merr., EPFP 2 (1923) 86. --Type: Elmer 14613 (MO\*, US\*). Luzon: Sorsogon prov., Mt Bulusan, Oct 1915; --Elmer 16173 (MO\*, US\*). Also from Mt Bulusan, May 1916; --Elmer 16968 (GH\*, MO\*, US\*). Also from Mt Bulusan, Aug 1916.

BS 8145 Ramos (US\*,

LUZON: Benguet to Sorsogon. Damp cliffs and in forests at low and medium altitudes.

**Elatostema sinuatum** (Blume) Hassk., Cat. Hort. Bogor. (1844) 79; --Polychroa sinuata (Blume) Merr., PJS 20 (1922) 382; --Merr., EPFP 2 (1923) 78; --H. Schröter, Fedde, Repert. Beih. 83 i (1935) 29, *descr. ampl.*; --Pellionia sinuata (Blume) Boerl., Handl. Kenn. Fl. Ned. Ind. 3 (1900) 375; --C Robinson, PJS

*Elatostema laciniatum* Elmer, LPB 1 (1908) 287; -- H Schröter, Fedde, Repert. Beih. 83 ii (1936) 36. --Type: Elmer 9196 (US\*, iso). Luzon: Quezon prov., Lucban, May 1907.

*Polychroa urdanetensis* Elmer, LPB 9 (1934) 3241; --Type: Elmer 13491 (US\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Aug 1912.

Java, Philippines, Sulawesi, Moluccas.

C LUZON to MINDANAO. Damp forests at low and medium altitudes. Exceedingly polymorphic.

**Elatostema sorsogonense** Elmer, LPB 9 (1934) 3235. --Syntypes: Elmer 16322 (GH\*, MO\*, US\*). Luzon: Sorsogon prov., Mt Bulusan, Jun 1916; --Elmer 14614 (MO\*). Luzon: Sorsogon prov., Mt Bulusan, Oct 1916. **Check original protologue.**

LUZON: Sorsogon. **Ecol.**

**Elatostema spinulosum** Elmer, LPB 2 (1908) 468; --Merr., EPFP 2 (1923) 86. --Type: Elmer 9776 (PNH, holo, lost; iso: MO\*, US\*). Negros: Negros Oriental prov., Cuernos Mtns, Apr 1908.

PANAY, NEGROS. Damp forests, altitude 600-1000m.

**Elatostema sublaxum** (Elmer) H Schröter, Fedde, Repert. Beih. 83 i (1935) 28; --*ibid.* 105; --*Elatostematoides sublaxum* Elmer, LPB 8 (1915) 2858. --Type: Elmer 13493 (A\*, MO\*, NA\*, NY\*, US\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Aug 1912.

*Elatostematoides laxum* (Elmer) C Robinson, PJS 5 c (1910) Bot. 502; --Merr., EPFP 2 (1923) 87; --*Elatostema laxum* Elmer, LPB 2 (1908) 465. --Type: Elmer 10337 (PNH, holo, lost; iso: A\*, MO\*, US\*). Negros: Negros Oriental prov., Cuernos Mtns, Jun 1908.

LUZON: Quezon, Sorsogon, PANAY, NEGROS, LEYTE, SAMAR, MINDANAO. Low and medium altitude damp forests.

**Elatostema subignosum** C Robinson, PJS 5 c (1910) Bot. 541; --Merr., EPFP 2 (1923) 86. --Type: BS 9754 Robinson (L\*, US\*, iso). Luzon: Laguna prov., Mt Banahaw, 5-7 Mar 1910.

LUZON: Laguna (Mt Banahaw; Mabalucbaluc), Forests, altitude 600-800m.

**Elatostema suborbiculare** Merr., PJS 14 (1919) 377; EPFP 2 (1923) 86. --Type: BS 19729 RC McGregor (US\*, iso). Luzon: Ifugao prov., Mt Polis, apparently in the mossy forest. Feb 1913.

**Check original protologue!!! p. 378 missing from my pdf file.**

LUZON: Ifugao (Mt Polis). Apparently in the mossy forest.

**Elatostema surigaense** Elmer, LPB 8 (1915) 2854; --Merr., EPFP 2 (1923) 86. --Type: Elmer

13637 (GH\*, MO\*, US\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Aug 1912.

MINDANAO: Agusan del Norte. Forests, altitude c. 1000m.

**Elatostema umbrinum** Elmer, LPB 8 (1915) 2855; --Merr., EPFP 2 (1923) 86. --Type: Elmer 13831.

Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong].

*Elatostema urdanetense* Elmer, LPB 8 (1915) 2857. --Type: Elmer 14249 (MO\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Sept 1912.

MINDANAO: Agusan del Norte. Dense forests, altitude c. 1600m.

**Elatostema variabile** C Robinson, PJS 5 c (1910) Bot. 514; *ibid.* 6 c (1911) Bot. 307, t. 1; --Merr.,

EPFP 2 (1923) 86. --Type: Vanoverbergh 528. Luzon: Mountain Province, Bauco, in forests, altitude 1650m.

LUZON: Mountain Province. Forests, altitude c. 1650m.

**Elatostema variegatum** C Robinson, PJS 5 c (1910) Bot. 538; *ibid.* 6 c (1911) Bot. 31; --Merr.,

EPFP 2 (1923) 86. --Type: BS 9767 Robinson. Luzon: Laguna prov., base of Mt Banahaw, on rocks, altitude 800m.

LUZON: Benguet (Sablan), Laguna (base of Mt Banahaw). Lithophytic in shaded stream beds, altitude c. 800m.

**Elatostema viridescens** Elmer, LPB 1 (1908) 285; --Merr., EPFP 2 (1923) 87. --Type: Elmer 8076.

Luzon: Laguna prov., Los Baños.

LUZON: Pampanga (Mt Pinatubo), Bataan, Laguna, Cavite, Quezon, Sorsogon, PANAY.

Low and medium altitudes along streams and damp forests.

**Elatostema volubile** (Elmer) H. Schröter, Fedde, Repert. Beih. 83 i (1935) 18; --*ibid.* 74; --

*Polychroa volubilis* (Elmer) Merr., EPFP 2 (1923) 78; --*Procris volubilis* Elmer, LPB 8 (1915) 2867.

--Synypes: Elmer 13898 (MO\*, NA\*, NY\*). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Sept 1912; Elmer 13856 (not seen). Same area as preceding.

POLILLO, LEYTE, SAMAR, CAMIGUIN, MINDANAO: Zamboanga, Bukidnon, Agusan del Norte. Low and medium altitude damp forests, ascending to 1400m.

**Elatostema wenzelii** H Schröter, Fedde, Repert. Beih. 83 i (1935) 28; --*ibid.* 104. --Type:

MINDANAO.

**Elatostema whitfordii** Merr., PJS 1 suppl. (1906) 48; --Merr., EPFP 2 (1923) 87. --Syntypes:

Whitford 254 (US\*). Luzon: Bataan prov., Mt Mariveles, May 1904; FB 1234 Borden (US\*). Luzon:

Bataan prov., Mt Mariveles, Jun 1904, wet shaded banks subject to constant drip of water in canon of the Lamao River, altitude 550-800m.

LUZON: Bataan, MINDANAO: Davao (Mt McKinley, PNH 1045 Edano, SING). Densely shaded ravines along streams, altitude at and above 600m.

**Elatostema zamboangense** Merr., PJS 14 (1919) 374; --Merr., EPFP 2 (1923) 87. --Type: Merril

8228 (US\*, iso). Mindanao: Zamboanga, Sax River, back of San Ramon, damp shaded ravine, altitude c. 200m, 27 Nov 1911.

MINDANAO: Zamboanga. Damp shaded ravines, altitude c. 200m.

**Elatostema catubigense** Co, *nomen nov.*

*Elatostema samarense* Merr., PJS 20 (1922) 378, *non* *Elatostematoides samarense* Merr., 1919, which is now =*Elatostema samarense* (Merr.) Schroter. --Type: BS 34117 Ramos. Samar: Catubig River, in damp

forest at low altitudes, Feb 1916.

SAMAR. Damp forests at low altitudes.

Non-naturalized species:

**Elatostema repens** (Lour.) Hallier *f.* in H Schröter, Fedde, Repert. Beih. 83 i (1935) 25; --Polychroa repens Lour., Fl. Coch. (1790) 559; --Merr., EPFP 2 (1923) 78.

Native of Myanmar and Indochina.

**Doubtful taxon:**

**Elatostema tomentosum** Wedd., Ann. Sc. Nat. Bot. iv, 1 (1854) 189; --Merr., EPFP 2 (1923) 86. –  
Type: Callery s.n. (P, *fide* Merrill). Luzon: probably Benguet.

*Elatostema sessile* Forst. var. *tomentosum* Wedd. in DC, Prodr. 16<sup>1</sup> (1869) 173.

*Elatostema subincanum* Wedd., Arch. Mus. Paris 9 (1856) 295,

A species of doubtful status.

**Possible new species (ined.) materials at PNH:**

*Elatostema lepantoense* Merr.

Elatostematoides C Robinson =Elatostema

Fleurya Gaudichaud =Laportea

Gonostegia Turczaninow =Pouzolzia

## 8. *Laportea* Gaudichaud

**Revision:**

Chew, WL. 1965. *Laportea and allied genera (Urticaceae)*. Gardens' Bulletin Singapore 21: 198-201.

Chew, WL. 1969. *A monograph of Laportea (Urticaceae)*. Gardens' Bulletin Singapore 25: 111-178.

**Laportea interrupta** (L.) Chew, Gard. Bull. Sing. 25 (1969) 200; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 226; --Fleurya interrupta (L.) Wight, Icon. Pl. Ind. Or. 6 (1853) 10, t. 1975; --Merr., Fl. Manila (1912) 182; EPFP 2 (1923) 75; --

Tropical and subtropical Africa and Asia and the Pacific Islands.

**Laportea ruderalis** (G Forst.) Chew, Gard. Bull. Sing. 21 (1965) 201; --Fleurya ruderalis (G Forst.) Wedd., Ann. Sc. Nat. ser. 4, 1 (1854) 182; --Merr., EPFP 2 (1923) 75; --

Christmas Is., Philippines, Sulawesi, Lesser Sunda Is., Moluccas, New Guinea, Bismarck Archipelago to Melanesia, Micronesia and Polynesia.

In the Philippines recorded from CAVILLI IS., LUZON: Bulacan prov., Angat.

## 9. *Lecanthus* Weddell

**Lecanthus peduncularis** (Wall. ex Royle) Wedd. in DC. Prodr. 16<sup>1</sup> (1869) 164, *pro parte*; --Merr., EPFP 2 (1923) 77; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 226, pl. 113.

Africa, S Asia, China, Taiwan, Philippines, Java, and the Pacific islands.

LUZON: Ifugao (Mt Polis), Benguet (Pauai; Mt Pulag), MINDANAO: Davao (Mt Apo). On the higher mountains above 1900m.

## 10. *Leucosyke* Zollinger & Moritzi

### Revision:

Unruh, 1943. xxxxx in Engler, *Botanische Jahrbücher* 73: 191-

***Leucosyke arcuatovenosa*** Unruh in Engl., *Bot. Jahrb.* 73 (1943) 246.  
LUZON.

***Leucosyke aspera*** C Robinson, *PJS* 6 c (1911) *Bot.* 23; --Merr., *EPFP* 2 (1923) 96. --Type: BS  
2915 Mearns. Luzon: Albay prov., Mt Mayon.  
LUZON: Camarines, Albay, SIBUYAN, PANAY. Forests, altitude c. 1000m.

***Leucosyke benguetensis*** Unruh, in Engl., *Bot. Jahrb.* 73 (1943) 247.  
LUZON: Ilocos Norte (Mt Pico de Loro, PNH 17997, SING), Apayao (Mt Duraragan,  
PNH 19884 Edano, SING).

***Leucosyke brunnescens*** C Robinson, *PJS* 6 c (1911) *Bot.* 25; --Merr., *EPFP* 2 (1923) 96; -- Unruh, *Bot. Jahrb.* 73 (1943) 247.  
LUZON: Ilocos Sur (Sugpon), Cagayan, Isabela (San Mariano, BS 47163, SING), Nueva  
Vizcaya (Dupax, BS 11388 McGregor, SING), Pangasinan, Bataan (Mt Mariveles,  
Lamao River, Merrill 2544, SING). Low and medium altitude thickets.

**var. *grossoserrata*** Unruh, *Bot. Jahrb. Syst.* 73 (1943) 243. --Type: Merrill 2543 (GH\*, iso). Luzon:  
Bataan prov., Mt Mariveles, Lamao River, 11-14 Jun 1903.

***Leucosyke buderi*** Unruh in Engl., *Bot. Jahrb.* 73 (1943) 245.  
LUZON

***Leucosyke capitellata*** (Poir.) Wedd. in *DC Prodr.* 16<sup>1</sup> (1869) 235<sup>27</sup>; --Merr., *EPFP* 2 (1923) 96.  
*Leucosyke capitellata* var. *celtidifolia* (Gaudich.) Wedd. in *DC Prodr.* 16<sup>1</sup> (1869) 235<sup>26</sup>; --Merr., *EPFP* 2  
(1923) 97.

*Leucosyke palawanensis* Unruh in Engl., *Bot. Jahrb.* 73 (1943) 229. --Type: Elmer 13247 (isosytype, GH\*).  
Palawan: Puerto Princesa, Mt Pulgar (=Thumb Peak), May 1911.

*Leucosyke leytensis* Merr., *PJS* 10 c (1915) *Bot.* 269; *EPFP* 2 (1923) 97. --Type: Wenzel 1061 (GH\*, US\*,  
iso). Leyte: Buenavista, Jaro, in forests, altitude c. 500m, 20 Aug 1914.

*Leucosyke angusta* Unruh, *PJS* 84 (1955) 167. --Type: PNH 6480 Castro & Afionuevo (A\*, holo). Polillo:  
along Anibawan River, sea level, 28 Nov 1948.

*Leucosyke samarensis* Unruh, *PJS* 84 (1955) 172. --Type: PNH 6334 Sulit and Coñese (A\*, holo). Samar:  
Western Samar prov., Bagacay, Concord, open place near road km 58.5 near bridge, 2<sup>nd</sup>  
growth forest, altitude 200m, 20 Jun 1950.

Taiwan, Philippines, Java to New Guinea.

Throughout the Philippines: LUZON: Ilocos Norte, Mountain Province, Benguet,  
Cagayan, Isabela, Nueva Vizcaya, Pangasinan, Bataan, Pampanga, Rizal, Laguna,  
Cavite, Batangas, Quezon, Camarines, Albay, Sorsogon, POLILLO, MINDORO,  
PALAWAN, MASBATE, PANAY, NEGROS, CEBU, BOHOL, LEYTE, SAMAR,  
BASILAN, MINDANAO: Zamboanga, Lanao del Sur, Davao. In thickets, second-growth  
forests, etc. at low and medium altitudes. In the Cordillera Highlands ascending to at  
least 2000m. Common.

***Leucosyke elmeri*** Unruh in Engl., *Bot. Jahrb.* 73 (1943) 246.  
MINDANAO.

***Leucosyke hispidissima*** (Wedd.) Miq. *Fl. Ind. Bat.*<sup>2</sup> (1858-59) 265; --Merr., *EPFP* 2 (1923) 97;  
--Missiessya *hispidissima* Wedd., *Ann. Sci. Nat. Bot.* IV, 1 (1854) 195. --Type: Callery *sn*, Luzon: 'in  
insulae Manillae montibus Igorrotis' (=possibly Benguet prov. not far from Baguio).  
*Leucosyke magallanensis* Elmer, *LPB* 2 (1910) 677; --Merr., *EPFP* 2 (1923) 97. --Type: Elmer 12282 (PNH,



holo, lost; iso: GH\*, MO\*, US\*). Sibuyan: Mt Giting-giting, Magallanes (=Magdiwang), Apr 1910.  
LUZON: Mountain Province, Benguet, Nueva Ecija, SIBUYAN, PANAY: Antique (BS 32516 McGregor, SING). Thickets, forested river banks up to c. 1400m altitude.

**Leucosyke mindorensis** C Robinson, PJS 6 c (1911) Bot. 22; --Merr., EPFP 2 (1923) 98.  
--Type: FB 11461 Merritt (US\*, iso). Mindoro: Mindoro Occidental prov., Amnay River, altitude 600m, Apr-May 1908.  
MINDORO: Mindoro Occidental. Forests, altitude c. 600m.

**Leucosyke negrosensis** C Robinson, PJS 6 c (1911) Bot. 27; --Merr., EPFP 2 (1923) 98. --Type: FB 4316 Everett (US\*, iso). Negros: Negros Occidental prov., Pioc River, in dense forest.  
PALAWAN, PANAY, NEGROS, MINDANAO: Agusan. Low and medium altitude forests.

**Leucosyke nivea** C Robinson, PJS 6 c (1911) Bot. 21; --Merr., EPFP 2 (1923) 98. --Type: MS Clemens sn, Mindanao  
LEYTE, MINDANAO. Forests, altitude 500-800m.

**Leucosyke ovalifolia** C Robinson, PJS 6 c (1911) Bot. 26; --Merr., EPFP 2 (1923) 98. --Type: Merrill 481. Culion.  
Leucosyke merrillii Unruh in Engl., Bot. Jahrb. 73 (1943) 225. --Type: Merrill 706 (GH\*, iso). Palawan: E-wi-ig (=Iwahig) River.  
LUZON: Zambales, CULION, PALAWAN (Iwahig), PANAY: Capiz (Mt Timbaban, BS 42489 Edaño, SING). Low altitude dry thickets and open forests.

**Leucosyke quadrinervia** C Robinson, PJS 6 c (1911) Bot. 28; --Merr., EPFP 2 (1923) 98; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 228.  
Lanyu, Luta and N Philippines.  
BATANES (SABTAN), BABUYAN ISLS (CAMIGUIN). Along streams at low altitudes.  
Closely allied to *L. capitellata* (Poir.) Wedd.

**Leucosyke rizalensis** Unruh in Engl., Bot. Jahrb. 73 (1943) 247.  
LUZON: Rizal

**Leucosyke weddellii** Unruh in Engl., Bot. Jahrb. 73 (1943) 226.  
**var. weddellii**  
LUZON

**var. acuminata** Unruh, PJS 84 (1955) 173. --Type: PNH  
PALAWAN (Aborlan, Tarateon River, PNG 14140 Edaño, SING).

## 11. *Maoutia* Weddell

**Maoutia setosa** Wedd. in Ann. Sc. Nat. Bot. iv, 1 (1854) 194; --Merr., EPFP 2 (1923) 98; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 229.  
Ryukyus, Lanyu, Luta and the Philippines. N LUZON to MINDANAO. Forests and thickets, in some regions at low and medium altitudes; ascending to 2200m in Benguet.

## **Neodistemon** Babu & AN Henry

### **Literature:**

Babu, CR and AN Henry. 1970. *A New Generic Name in Urticaceae*. Taxon 19: 651.

**Neodistemon indicum** (Wedd.) Babu & AN Henry, Taxon 19 (1970) 651; --Distemon indicus Wedd., Arch. Mus. Paris 9 (1857) 551, t. 20, A; --Merr., EPFP 2 (1923) 93  
India (Assam) to Myanmar, Java, Philippines. LUZON: Rizal (Antipolo; Morong). Open slopes at low altitudes.

## 12. Nothocnide Blume

### Revision:

Chew, WL. 1965. *Nothocnide (Urticaceae) in Malesia*. Gardens Bulletin Singapore 24: 361-373.

**Nothocnide repanda** (Blume) Blume, Ann. Mus. Bot. Lugd.-Bat. 2 (1856) 137, t. 14; --Pipturus repandus (Blume) Wedd. in Arch. Mus. Paris 9 (1856) 448; --Merr., EPFP 2 (1923) 95; --Urtica repanda Blume, Bijdr. (1825) 501. --Type from Java.

Pipturus subalpinus Elmer, LPB 9 (1934) 3221. --Type: Elmer 22016 (MO\*, US\*, iso). Luzon: Pampanga prov., Mt Pinatubo, Camp Stotsenburg, May 1927.

Sumatra, Borneo, Philippines, Sulawesi, Java, Bali, Moluccas, New Guinea, Bismarck Archipelago and Solomon Islands.

LUZON: Mountain Province to Sorsogon, MINDORO, PANAY, LEYTE, MINDANAO: Davao (Mt Apo). Damp forested ravines near streams, at low and medium altitudes. In Mountain Province sprawling over ledges and boulders up to an altitude of 1600m.

**Nothocnide discolor** (C Robinson) Chew, Gard. Bull. Sing. 24 (1969) 368; --Pipturus discolor C Robinson, PJS 6 c (1911) Bot. 15; --Merr., EPFP 2 (1923) 95. --Type: MS Clemens 676 (NY\*, iso). Mindanao: Lanao del Sur prov., Camp Keithley, Sept-Oct 1906.

New Guinea and Philippines.

PANAY, MINDANAO: Lanao del Sur (along Lake Lanao), Bukidnon, Agusan, Davao. Forests, altitude 700m and above.

Oreocnide Miquel =Villebrunea

Pellionia Gaudichaud =Elatostema

## 14. Pilea Lindley

**Pilea apoensis** Elmer, LPB 3 (1910) 882; --Merr., EPFP 2 (1923) 76. --Type: Elmer 11551 (L\*, NY\*, iso). Mindanao: Davao Aug 1909.

MINDANAO: Bukidnon, Davao (Mt Apo). Forests, altitude c. 1700m.

**Pilea benguetensis** C Robinson, PJS 5 c (1910) Bot. 488; --Merr., EPFP 2 (1923) 76. --Type: Elmer 6304 (MO\*, NY\*, US\*, iso). Luzon: Benguet prov., Baguio, May 1904.

LUZON: Mountain Province, Benguet (Baguio; Mt Pulag), Nueva Vizcaya. On limestone boulders, damp shaded ravines, cliffs, etc., altitude 1300-2000m.

**Pilea calcicola** C Robinson, PJS 5 c (1910) Bot. 493; --Merr., EPFP 2 (1923) 76. --Type: BS 9529 CB Robinson (L\*, NY\*, US\*). Luzon: Rizal prov., Montalban, 2 Nov 1909.

LUZON: Bulacan, Rizal. Low and medium altitude forests on limestone, on limestone cliffs and gorges.

**Pilea dataensis** C Robinson, PJS 5 c (1910) Bot. 494; --Merr., EPFP 2 (1923) 76. --Type: Merrill 4602 (US\*, iso). Luzon  
LUZON: Mountain Province (Mt Data), Ifugao (Mt Polis). Mossy forests, altitude c.

2100m.

**Pilea humilis** C Robinson, PJS 5 c (1910) Bot. 488; --Merr., EPFP 2 (1923) 76. --Type: Merrill 6912 (L\*, NY\*, US\*, iso). Negros: Negros Occidental prov., Mt Kanlaon, Apr 1910.

LUZON: Mountain Province, Benguet, NEGROS: Negros Occidental (Mt Kanlaon). In ravines, in the mossy forest, and on open peaks of the higher mountains, altitude 1200-2800m.

**Pilea intumescens** C Robinson, PJS 5 c (1910) Bot. 492; --Merr., EPFP 2 (1923) 76. --Type: MS Clemens 1223 (NY\*, US\*, iso). Mindanao: Lanao del Sur prov., along Lake Lanao, Camp Keithley, Sept-Oct 1907.

PANAY, MINDANAO: Lanao del Sur. Damp shaded ravines, altitude c. 700m.

**Pilea loheri** Merr., PJS 27 (1925) 23; EPFP 4 (1925) 252. --Type: Loher 12797, Luzon: Rizal prov., Balintingan, Jul 1909.

LUZON: Rizal (Balintingan).

**Pilea luzonensis** Merr., PJS 1 suppl. (1906) 48; --Merr., EPFP 2 (1923) 76. --Syntypes: Whitford 279 (US\*). Luzon: Bataan prov., Mt Mariveles, Lamao River, May 1904; Whitford 1129 (US\*), Luzon: Bataan prov., Lamao River, Mar 1905

LUZON: Benguet (Baguio; Mt Sto. Tomas), Nueva Vizcaya (Caraballo Sur), Bataan (Mt Mariveles), Rizal, MINDANAO: Agusan del Norte (Mt Urdaneta [=Mt Hilong-hilong]). Damp shaded ravines along streams at medium altitudes, ascending to 1400m.

**Pilea melastomoides** (Poir.) Wedd., Ann. Sc. Nat. Bot. ser. 4, 1 (1854) 186; --Merr., EPFP 2 (1923) 76; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 242, pl. 122; --*Urtica melastomoides* Poir. in Lam., Encycl. Suppl. 4 (1816) 223.

India, Sri Lanka, Vietnam, China, Taiwan, Philippines, Java. LUZON: Kalinga, Ifugao, Mountain Province (Mt Data), Benguet (Mt Pulag; Pauai; Mt Sto Tomas), Laguna (Mt Banahaw). Mossy forests, altitude 1800-2300m.

**Pilea microphylla** (L.) Liebm., Vidensk. Selsk. Skr. 5<sup>2</sup> (1851) 302; --Merr., Fl. Manila (1912) 76; EPFP 2 (1923) 76.

Native to S America, widely naturalized in tropical and subtropical areas of the world. Throughout the Philippines in and about towns, on damp walls, etc.

**Pilea monticola** C Robinson, PJS 5 c (1910) Bot. 489; --Merr., EPFP 2 (1923) 77. --Type: BS 5533 Ramos. Luzon: Benguet prov., Rio Trinidad (=Balili River); Paratype: BS 5566 Ramos (US\*). Luzon: Benguet prov., Rio Trinidad (=Balili River), Dec 1908.

LUZON: Mountain Province, Benguet (Mt Pulag; Mt Sto. Tomas; La Trinidad). Mossy forests, damp shaded ravines, etc., altitude 1200-2300m.

**Pilea peplodes** (Gaudich.) Hook. & Arn., Bot. Beechey Voy. (1832) 96; --Hatusima, Mem. Fac. Agr. Kagoshima Univ. 5 (1966) 27.

**var. peplodes**

Russia (Siberia), China, Taiwan, Japan, Korea, Philippines and Java.

BATAN: *Hatusima 29141*, on wet littoral cliff.

**Pilea rigida** C Robinson, PJS 5 c (1910) 491; --Merr., EPFP 2 (1923) 77. --Type: BS 8181 Ramos (NY\*, US\*, iso). Luzon

LUZON: Ifugao, Nueva Vizcaya. Altitude c. 1500m.

**Pilea robinsonii** Elmer, LPB 3 (1910) 880; --Merr., EPFP 2 (1923) 77. --Syntypes: Elmer 10487 (MO\*, NY\* 2 sheets, US\*). Mindanao: Davao, Mt Apo, Todaya, black humus-covered soil of moist dense

woods at 3750ft, May 1909; --Elmer 11758 (MO\*, NY\* 2 sheets, US\*). Mindanao: Davao, Mt Apo, Todaya, among boulders below the Colan Creek Falls and at its junction with the Baruring River at 3750ft, Sept 1909.

MINDANAO: Bukidnon, Davao (Mt Apo). Damp forests, altitude c. 1000m.

**Pilea sylvatica** Elmer, LPB 3 (1910) 879; --Merr., EPFP 2 (1923) 77. --Syntypes: Elmer 11698 (MO\*, NY\* 2 sheets, US\*). Mindanao: Davao, Mt Apo, Todaya, on moist, fertile humus-covered soil of densely wooded flats at 4000ft, Sept 1909; --Elmer 11547 (MO\*, NY\*, US\*). Mindanao: Davao, Mt Apo, Todaya, on moss-covered seepage ledges along the Cati Creek at 5750ft, above its falls of Mt Apo, Aug 1909.

MINDANAO: Bukidnon, Davao (Mt Apo). Damp forests and on wet cliffs, altitude 1200-1800m.

## 15. *Pipturus* Wedd.

**Pipturus angustifolius** Merr., PJS 20 (1922) 379; EPFP 2 (1923) 94. --Type: BS 15320 Ramos (US\*, iso). Leyte: Davao LEYTE. Thickets along streams at low altitude.

**Pipturus argenteus** (G Forst.) Wedd. in DC, Prodr. 16<sup>1</sup> (1869) 235<sup>19</sup>; --Merr., EPFP 2 (1923) 94; --*Urtica argentea* G Forst., Prodr. (1784) 65.

Sumatra to Australia and Polynesia.

BALABAC, LUMBUCAN (near Balabac), MINDANAO: Surigao. On sandy soil, open forests near the sea.

**Pipturus asper** Wedd., Ann. Sci. Nat. ser. 4, 1 (1854) 197.

*Pipturus arborescens* (Link) C Robinson, PJS 6 c (1911) Bot. 13; --Merr., EPFP 2 (1923) 94; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 253.

Ryukyus, Taiwan (Lanyu and Lutao), the Philippines and Borneo. Very common and widely distributed in all islands and provinces. Chiefly in low and medium altitude thickets and second-growth forests, ascending to 2000m in Benguet.

**Pipturus dentatus** (C Robinson) C Robinson, PJS 6 c (1911) Bot. 311; --Merr., EPFP 2 (1923) 95; --*Pouzolzia dentata* C Robinson, PJS 6 c (1911) 7. --Type: Merrill 4741 (NY\*, US\*, iso). Luzon: Benguet prov., Pauai, Oct-Nov 1905.

LUZON: Ifugao (Mt Polis), Benguet (Mt Pulag; Pauai; Mt Sto Tomas). Open slopes, thin pine forests, etc., altitude 1900-2300m.

**Pipturus mindanaensis** Elmer, LPB 3 (1910) 898; --Merr., EPFP 2 (1923) 95. --Type: Elmer 10520 (PNH, holo, lost; iso: MO\*, US\*). Mindanao: Davao, Mt Apo, Todaya, altitude 1125m, May 1909.

MINDANAO: Davao (Mt Apo). Open slopes, altitude c. 1125m.

**Pipturus succulentus** Elmer, LPB 3 (1910) 897; --Merr., EPFP 2 (1923) 95. --Type: Elmer 10739 (PNH, holo, lost; iso: MO\*, NA\*, US\*). Mindanao: Davao, Mt Apo, Todaya, May 1909.

MINDANAO: Davao (Mt Apo). Thickets along Baruring River, altitude c. 1000m.

*Polychroa* Loureiro = *Pellionia* = *Elatostema*

## 16. *Pouzolzia* Gaudichaud

**Pouzolzia arachnoidea** (Walp.) Wedd. in DC Prodr. 16<sup>1</sup> (1869) 228; --Merr., EPFP 2 (1923) 91.

Stachyocnide luzonica Blume, Mus. Bot. Lugd.-Bat. 2 (1856) 228, t. 55. --Type: Cuming 1492 (L\*, holo). Mindoro: Mindoro Oriental prov.

LUZON: Ilocos Sur (San Quintin), Rizal (Montalban; Antipolo; Morong), Batangas (de la Paz), MINDORO. Boulders and cliffs and in thickets and thin forests at low and medium altitudes.

**Pouzolzia hirta** (Blume) Hassk., Cat. Hort. Bogor. (1844) 80; --Gonostegia hirta (Blume) Miq., Ann. Mus. Bot. Lugd.-Bat. 4 (1869) 303; --Merr., EPFP 2 (1923) 92; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 223; --Urtica hirta Blume, Bijdr. (1825) 4(1825) 495.

Gonostegia integrifolia C Robinson, PJS 6 c (1911) Bot. 10, non Miq.

**var. hirta**

Japan, Mainland China, Taiwan, SE Asia to Australia. LUZON: Mountain Province, Benguet (Mt Pulag; Pauai; Baguio; Twin Peaks), Rizal, MINDANAO: Lanao del Sur (Lake Lanao), Davao (Todaya). Common in ravines, thickets, and in some open grasslands, altitude 1000-2300m.

**var. parvifolia** (Wight) Friis & Wilmot-Dear, Nordic J. Bot. 24 (2006) 91.

Gonostegia reptans C Robinson, PJS 6 c (1911) Bot. 10; --Merr., EPFP 2 (1923) 93. --Type: Elmer 5828 (NY\*, iso). Luzon: Benguet prov., Baguio, Mar 1904.

**Extra-Philippine distribution?** LUZON: Ifugao, Benguet, Nueva Ecija. Damp open places and in thickets, altitude 1000-1400m.

**Pouzolzia pentandra** (Roxb.) Benn., Pl. Jav. Rar. (1832) 64, t. 14; --Gonostegia pentandra (Roxb.) Miq., Ann. Mus. Bot. Lugd.-Bat. 4 (1869) 302; --Merr., EPFP 2 (1923) 93; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 224; --Urtica pentandra Roxb., Fl. Ind. ed. 2, 3 (1832) 583.

India, SE Asia, Taiwan.

LUZON to MINDANAO. Cultivated lands along streams and in swampy places at low and medium altitudes, ascending to 1400m.

**Pouzolzia rubricaulis** (Blume) Wedd. in DC Prodr. 16<sup>1</sup> (1869) 229; --Merr., EPFP 2 (1923) 92. Philippines, Java.

LUZON: Benguet (Ambuklao to Daklan, *Merrill 4390*). Damp shaded banks, altitude c. 1400m.

**Pouzolzia zeylanica** (L.) Benn., Pl. Jav. Rar. (1838) 67; --Merr., EPFP 2 (1923) 92; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 254.

Taiwan, SE Asia.

Throughout the Philippines at low and medium altitudes, in open, usually damp grasslands. BATAN, BABUYAN ISLS (CAMIGUIN), LUZON: Mountain Province (Aluling), Ifugao (Kiangan), Aurora (Casiguran), Zambales (Subic), Pampanga (Bacolor), Rizal (Bosoboso), Manila, Laguna (Calauan; Los Baños), Camarines, POLILLO, MINDORO: Mindoro Oriental (Pola; Baco), MINDANAO: Zamboanga, Zamboanga del Sur (Port Banga), Lanao del Sur (Camp Keithley), Davao (Todaya).

## 17. *Procris* Commerson ex Jussieu

**Revision:**

FR 45 (1938) 179, 257

**Procris brunnea** Merr., PJS 11 c (1916) Bot. 5; EPFP 2 (1923) 88. --Type: BS 23705 Ramos (US\*, iso). Luzon: Sorsogon. LUZON: Sorsogon. Epiphytic in the mossy forest. Perhaps not sufficiently distinct from *P. frutescens* Blume.

**Procris dolichophylla** Merr., PJS 8 c (1913) Bot. 369; EPFP 2 (1923) 88. --Type: Wenzel 98 (US\*, iso). Leyte: Dagami, climbing on trees in forested foothills, altitude c. 60m, 29 Mar 1923.  
PANAY, NEGROS, LEYTE, MINDANAO: Agusan. Epiphytic in low and medium altitude damp forests.

**Procris frutescens** Blume, Bijdr. (1825) 510; --Merr., EPFP 2 (1923) 88.  
Procris frutescens var. nervosa Elmer, LPB 8 (1915) 2863. --Type: Elmer 13602 (MO\*, US\*, iso). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Aug 1912.  
Sumatra, Peninsular Malaysia, Java, Philippines.  
LUZON: Laguna (San Antonio), Quezon (Lucban), NEGROS: Negros Occidental (Mt Kanlaon), MINDANAO: Lanao del Sur (Camp Keithley), Davao (Mt Apo), Agusan del Norte (Waloe; Mt Urdaneta [=Mt Hilong-hilong]). Damp forests at low and medium altitudes.

**Procris laevigata** Blume, Bijdr. (1825) 508; --Merr., EPFP 2 (1923) 88; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 254, pl. 128.  
Africa and tropical Asia. Taiwan.  
N LUZON to MINDANAO. In forests, usually epiphytic, sometimes on ledges, sea-level to 1000m or more, widely scattered.

**Procris mindanaensis** H Schröter, Fedde, Repert. Beih. 45 (1938) 189, in key, p. 281. --Type:

**Procris pedunculata** (JR & G Forst.) Wedd., xxxx --H. Schröter, Fedde, Repert. Beih. 45 (1938) 259.  
Mascarenes, Malayan Region; Philippines, Polynesia.

**Procris urdanetensis** Elmer, LPB 8 (1915) 2865; --Merr., EPFP 2 (1923) 89. --Syntypes: Elmer 13792 (NA\*, NY\*, US\*), 1912; --Elmer 13708 (MO\*, US\*). Mindanao: Agusan del Norte prov., Mt Urdaneta [=Mt Hilong-hilong], Sept 1912.  
MINDANAO: Agusan del Norte (Mt Urdaneta [=Mt Hilong-hilong]). Mossy forest, altitude 1600-1800m. Closely allied to *P. frutescens* Blume.

**Procris wightiana** (Wedd.) Wall., Cat. (1831) no 4638, *nom. nud.*, Wedd. Monogr. (1856) 336; --Merr., EPFP 2 (1923) 89; --H. Schröter, Fedde, Repert. Beih. 83 i (1935) 191.  
Procris crenata C Robinson, PJS 5 c (1910) Bot. 507. --Type: Vanoverbergh 635 (US\*, iso). Luzon: Mountain Province, Bauco, altitude 1400m, Nov-Dec 1910.  
India to China and Taiwan.  
LUZON: Mountain Province. Epiphytic, altitude c. 1400m. Reduced by some authors to *P. laevigata* Blume.

## 18. *Urtica* Linnaeus

**Urtica bullata** Blume, Ann. Mus. Bot. Lugd.-Bat. 2 (1856) 145; --Merr., EPFP 2 (1923) 72. --Type from Java.  
Java, Philippines.  
LUZON: Mountain Province, Benguet (Mt Pulag), MINDANAO: Davao (Mt Apo). Open pine or cogon slopes, altitude 1900-2400m on Mt Pulag.

## 19. *Villebrunea* Gaudichaud ex Weddell

**Villebrunea rubescens** (Blume) Blume, Ann. Mus. Bot. Lugd.-Bat. 2 (1856) 167; --Oreocnide rubescens (Blume) Miq., Ann. Mus. Bot. Lugd.-Bat. 4 (1869) 306; --Merr., EPFP 2 (1923) 96; --Urtica rubescens Blume, Bijdr. (1825) 506.

Java, Philippines, Sulawesi, Moluccas. LUZON: Laguna, Quezon to MINDANAO. Damp shaded ravines, near streams at low and medium altitudes.

**Villebrunea trinervis** Wedd., Ann. Sc. Nat. Bot. iv, 1 (1854) 196. --Type: Cuming 777 (MO\*, NY\*, iso). Luzon: Quezon prov.

Oreonide trinervis (Wedd.) Miq. Fl. Ind. Bat. 1<sup>2</sup> (1858-59) 270; --Merr., EPFP 2 (1923) 96; --Yang, et al., Fl. Taiwan 2<sup>nd</sup> ed., 2 (1996) 230.

Lanyu, Philippines, Borneo and Java. BATAN ISLS to MINDANAO. Thickets and forests, especially along streams at low and medium altitudes.