

ON SOME NEW COLLECTIONS
OF ASIATIC AND OCEANIC JUBULEAE
(De Frullaniaceis XVIII)

by

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(Leyden).

Some collections which I received recently, contain interesting addenda to former studies of the paleotropical *Frullaniaceae* (cf. especially "De Frullaniaceis VII", Ann. Bryol. Suppl. Vol. I, 1930) and *Lejeuneaceae Holostipae* (esp. "De Frullaniaceis XVII", Ann. Bryol. Suppl. Vol. IV, 1934).

Archilejeunea Mariana (G.) STEPH. — Philippine Islands: Luzon, Rizal, Montalban, H. H. BARTLETT (14424), VII. 1935; Tayabas, M. D. PASTRANA (39), IX. 1935.

Brachiolejeunea recondita (STEPH.) STEPH. — Philippine Islands: Rizal, Montalban, H. H. BARTLETT (14373), VIII. 1935.

Brachiolejeunea sandvicensis (G.) EVS. — China: Amoy Island, on dry granite rocks and on damp shady rocks, G. A. C. HERKLOTS, VII. 1931.

Caudalejeunea reniloba (G.) STEPH. — Society Islands: Tahiti, Papeari, wet forest, 50 m, H. ST. JOHN and F. R. FOSBERG (14177), 1934.

Caudalejeunea circinata STEPH. — Malay Peninsula: Johore, Mawai, lowland swampy forest, E. J. H. CORNER, IX. 1934.

Lopholejeunea eulopha (TAYL.) SPR. — Samoa: Savaii, below Olo, on tree, 550 m, E. CHRISTOPHERSEN (2601), VIII. 1931.

Lopholejeunea Reineckiana STEPH. — Samoa: Savaii, Tuisivi Range, forest, on tree, 1600/1700 m, E. CHRISTOPHERSEN (754), IX. 1929.

Lopholejeunea subfusca (NEES) STEPH. — Samoa: Savaii, Salai-lua, 75 m, E. CHRISTOPHERSEN (2976), X. 1931; Matavanu, 200 m, E. CHRISTOPHERSEN (1921), VII. 1931.

Mastigolejeunea ciliaris (SDE LAC.) VERD. — Philippine Islands: Tayabas, Mauban, M. D. PASTRANA (50), IX. 1935. — Folia invol. ♀ distinctly, keels of the perianthium more or less dentate.

Mastigolejeunea humilis (G.) SPR. — Philippine Islands: Luzon, Rizal, Montalban, H. H. BARTLETT (14505), VIII. 1935; Rapa: Area, 130 m, H. St. JOHN and F. R. FOSBERG (15311), VII. 1934.

Mastigolejeunea repleta (TAYL.) STEPH. — Philippine Islands: Luzon, Rizal, Montalban, H. H. BARTLETT (14378, etc.), VIII. 1935; Luzon, Bataan, H. H. BARTLETT (14094), V. 1935.

Ptychanthus striatus (L. et L.) NEES — Fiji Islands: Moala, forest above Maloku, 400 m, A. C. SMITH (1371), III. 1934.

Ptychocoleus fertilis (R., B., N.) TREV. — Philippine Islands: Mt. Lolol, Zambales, E. EBALD, IX. 1935.

Ptychocoleus pulopenangensis (G.) TREV. — Philippine Islands: Luzon, Mauban, M. D. PASTRANA (45), IX. 1935.

Thysananthus fruticosus (LINDENB. et G.) SCHFFN. — Philippine Islands: Luzon, Tayabas, Baler, J. V. SANTÓS (235), IX. 1935.

Thysananthus Gottschei (JACK et STEPH.) STEPH. — Philippine Islands: Tayabas, Baler, J. V. SANTÓS (338), IX. 1935; Papua: mountains above Port Moresby, C. E. CARR (13536 p.p.), 1935/36.

Thysananthus planus SDE LAC. — Fiji Islands: Vanua Levu, 800 m, A. C. SMITH (526), XI. 1933.

Thysananthus spathulistipus (R., B., N.) LINDENB. — Key Islands: HJ. JENSEN 1922.

Frullania (Trachycolea) acutiloba MIRT. — S. India: Kodaikanal, R. P. FOREAU, III. 1932.

Frullania (Trachycolea) nepalensis (SPR.) L. et L. — Lan Tau Island: Lan Tau Peak, 3000', G. A. C. HERKLOTS 1931.

Frullania (Trachycolea) pauciramea STEPH. — Papua: mountains above Port Moresby, C. E. CARR (15178, 13536), 1935 or 1936.

Frullania (Trachycolea) reflexistipula SDE LAC. — Papua: mountains above Port Moresby, C. E. CARR (13536), 1935 or 1936.

Frullania (Trachycolea) squarrosa (R., B., N.) DUM. — Hender-
son Island: North End, tree trunks in woods, H. ST. JOHN and F.
R. FOSBERG (15123), VI, 1934.

fo. *ericoides* (NEES) VERD. — Austral Islands: Tubuai,
Rautaro Islet, H. ST. JOHN (16398a), VIII, 1934.

var. *planescens* VERD. — Philippine Islands: Luzon, Tayabas,
Mauban, M. D. PASTRANA (51), IX, 1935; Luzon, Baguio, 4500',
CLEMENS (51906), III, 1935.

Frullania (Saccophora) sublignosa STEPH. — To this species belongs
Frullania saccata (nomen nudum), cf. "De Frullaniaceis XVII: 220".

Frullania (Chonanthelia) galeata (R., B., N.) DUM. — Rapa: Mt.
Ruatara, east slope, bark of tree in moist forest, 80 m, F. R. FOSBERG
(11463), VII, 1934; Society Islands: Tahiti, Fantana valley,
1000', W. A. SETCHELL and H. E. PARKS (5454), V, 1922.

Frullania (Chonanthelia) neurota TAYL. — S. India: Shembaga-
nur, R. P. FOREAU, III, 1932.

Frullania (Thyopsiella) angulistipa STEPH. — Samoa: Savaii,
Matavanu lava field, 200 m, E. CHRISTOPHERSEN (1921), VII, 1931.

Frullania (Thyopsiella) apiculata AUCT. — S. India: Kodaikanal;
R. P. FOREAU, III, 1932; Fiji Islands: Taviuni, J. W. GILLESPIE
(5125), 1928; Samoa: Tutuila, common epiphyte, 400/500 m, E.
CHRISTOPHERSEN, XI, 1929.

Frullania (Thyopsiella) Gaudichaudii NEES et MT. — Fiji Islands:
Taveuni, Western Slope, 600/830 m, A. C. SMITH (787),
1933/1934.

Frullania (Thyopsiella) immersa STEPH. — Fiji Islands: Vanua
Levu, Thakaundrove, Mount Ndikeva, 500 m, A. C. SMITH (1905),
VI, 1934.

Frullania (Thyopsiella) serrata GOTTSCHE — Fiji Islands:
Viti Levu, 1200 m, J. W. GILLESPIE (3313), IX, 1927.

var. *oceanica* VERD. — Samoa: Savaii, Tuisivi Range, 1600/1700 m,
E. CHRISTOPHERSEN IX, 1929.

Frullania (Thyopsiella) subdentata STEPH. — Papua, mountains
above Port Moresby, C. E. CARR (15176), 1935/36.

Frullania (Meteoriopsis) orientalis SDE LAC. — Malay Penin-
sula: Pahang, Cameron Highlands, S. Telom, 3900', R. E. HOLTTUM,

V. 1936; Papua: mountains above Port Moresby, C. E. CARR (15437), 1935/36.

Frullania (Meteoriopsis) papillata STEPH. — Papua: mountains above Port Moresby, C. E. CARR (15150, 13779, 14191), 1935/36. — Cells of lobe distinctly mamillate, folia invol. ♀ denticulate.

Frullania (Meteoriopsis) seriatifolia STEPH. — Papua: mountains above Port Moresby, C. E. CARR (15103), 1935/36.

Frullania (Meteoriopsis) tenuicaulis MITT. — Key Islands: Hj. JENSEN 1922.

Frullania (Homotropantha) intermedia (R., B., N.) DUM. — Malay Peninsula: Johore, Mawai, lowland swampy forest, E. J. H. CORNER (IX. 1934); Fiji Islands: Kandavu, above Namalata, 200/400 m, A. C. SMITH (149), X. 1933.

Frullania (Homotropantha) nodulosa (R., B., N.) NEES — Cambodia: Bolong, Revd. POILANE 1928; Philippine Islands: Luzon, Bataan Prov., H. H. BARTLETT (14095), V. 1935; Fiji Islands: Viti Levu, J. W. GILLESPIE (2887), 1927.

Frullania (Homotropantha) regularis SCHFFN. — Terr. of N. Guinea: Sattelberg near Finschhafen, O. WARBURG, IV. 1889.

Frullania (Homotropantha) utriculata STEPH. — Samoa: Tutuila, common epiphyte, 400/600 m, E. CHRISTOPHERSEN XI. 1929; Savaii, above Sili, 400 m, E. CHRISTOPHERSEN XI. 1931.