

**MOSSES OF D'ENTRECASTEAUX GROUP & LOUISIADE
ARCHIPELAGO, PAPUA, NEW GUINEA**

by

EDWIN B. BARTRAM

(Bushkill, Pike County; Pennsylvania, U. S. A.)

(Issued March 15, 1960)

The moss collections made by L. J. Brass in connection with the 5th, Archbold Expedition to New Guinea to New Guinea in 1956 to the islands off the eastern tip of Papua comprise 166 numbers representing 87 species as outlined in the following list. Three species are described as new and 22 preceeded by an asterisk are recorded for the first time from New Guinea. A noteworthy feature of the collection is that more than 80 % of the species collected are known to occur in the adjacent regions of Indonesia, Borneo and the Philippines indicating that the sources of this relatively lowland, insular flora are principally from the west.

The collectors' numbers are printed in *italics*.

A complete set is in the Rijksherbarium, Leyden, Netherlands and a representative series may be available later for the writer's herbarium.

SPHAGNACEAE

***Sphagnum pauciporosum** Warnst. — Normanby., Mt. Pabinama, mounded in scrub of summit, 900 m, 25666.

***Dicranella brasiliensis** (Duby) Bartr. — Misima Id., Mt. Sisa, north slopes, shady, rocky (porphyry) road bank in forest, 350 m, 27432 — Rossel Id., Abaleti, terrestrial in an opening in rain forest, 50 m, 28307.

***Campylopodium euphorocladum** (C. M.) Besch. — Misima Id., Mt. Sisa, north slopes, on a shade road bank (porphyry) in forest, 350 m, 27431.

Dicranoloma braunii (C. M.) Par. — Rossel Id., Mt. Rossel, south slopes, hanging from a shrub in forest 700 m, 28404.

Dicranoloma blumii (Nees) Par. — Rossel Id., Mt. Rossel, south slopes, common on branches of trees in forest, 700 m, 28438 — Fergusson Id., mountains between Agamoia and Ailuai, low epiphyte, abundant in oak forest of a ridge crest, 900 m, 27002 — Normanby Id., Mt. Pabinama, very abundant on trees in mossy forest, 820 m, 25674 — Normanby Id., Mt. Pabinama, abundant on trees in tall, mossy forest, 850 m, 25743.

***Braunfelsia scariosa** (Wils.) Par. — Fergusson Id., mountains between Agamoia and Ailuluai, small, thick mats, high on an exposed trunk of

an Araucaria tree, 900 m, 27014 — Normanby Id., Mt. Pabinama, thickly massed on trees of stunted, open *Daerydium* forest, 750 m, 25693.

Braunfelsia dicranoides (D. & M.) Broth. — Fergusson Id., mountains between Agamoia and Ailuluai, large pale green cushion high on an Araucaria tree, 900 m, 27071.

LEUCOBRYACEAE

**Leucophanes glaucescens* C. M. — Misima Id., Narian, small cushions on root mounds of coconut palms, 27630 — Sudest Id., Rambuso, small cushions on trees overhanging the sea, 28040 — Fergusson Id., Deidei Gomwa Bay, small cushions low on littoral trees, 27321 — Normanby Id., Waikaiuna, tufted low on tree in rain forest, 20 m, 25409.

Leucophanes candidum (Hornsch.) Lindb. — Woodlark Id., mountains behind Luluai, large, greenish gray cushion on ground, 150 m, 28802 — Rossel Id., Abaleti, large, soft cushions on tree in rain forest, 5 m, 28264 — Normanby Id., Lebudowa River, big cushion nearly 1 m in diameter, on moist, rocky ground in rain forest, 40 m, 25507 — Sudest Id., Mt. Riu, cushioned low on tree on edge of a stream in rain forest, 250 m, 27932 — Misima Id., Mt. Sisa, north slopes, small gray-green cushions on a log in rain forest, 350 m, 27382 in part, 27372 — Woodlark Id., Kulumadau, forming large cushions low on trees in rain forest, 100 m, 28699 — Woodlark Id., Kulumadau, grayish cushions low on trees in rain forest, 100 m, 28627.

Leucophanes candidum var. *densifolium* (Mitt.) Dix. — Rossel Id., Abaleti, trunk of a tree in rain forest, 5 m, 28266.

**Arthrocormus schimperi* D. & M. — Normanby Id., Waikaiuna, plentiful on bases of trees in rain forest, 20 m, 25372 — Woodlark Id., Kulumadau, rotting base of tree in rain forest, 100 m, 28605 in part.

Leucobryum bowringii Mitt. — Fergusson Id., mountains between Agamoia and Ailuluai, cushioned low on trees in a ridge crest, 900 m, 27000 — Normanby Id., Lebudowa, forming a large cushion about 50 m in diameter on moist ground in rain forest, 40 m, 25506 — Woodlark Id., mountains behind Luluai, forming flat, greenish-gray cushions on ground in rain forest, very abundant, 150 m, 28803 — Rossel Id., Abaleti, matted on surface roots of trees in rain forest, 5 m, 28269 — Misima Id., Mt. Sisa, north slopes, terrestrial cushions in *Castanopsis* forest, 300 m, 27407.

Leucobryum bowringii var. *sericeum* (Broth.) Dix. — Sudest Id., Mt. Riu, west slopes, on surface roots of trees in rain forest, 300 m, 27929 — Misima Id., Mt. Sisa, north slope, common in small cushions on ground in *Castanopsis* forest, 300 m, 27406.

Leucobryum pentastichum D. & M. — Normanby Id., Mt. Pabinama, on trunk of tree in tall, mossy forest, 820 m, 25723.

Leucobryum sanctum Hpe. — Normanby Id., Waikaiuna, masses on a rock in rain forest ravine, 30 m, 25629 — Rossel, Id., summit of Mt. Rossel, epiphytic in scrubby low forest, 840 m, 28461 — Woodlark Id., mountains below Luluai, common on bases of big trees in rain forest, 250 m, 28800 — Woodlark Id., Kulumadau, large masses on a path in rain forest, 100 m, 28603.

CALYMPERACEAE

Syrrhopodon albo-virens Bartr. — Fergusson Id., mountains between Agamoia and Ailulusi, stem of tree fern in forest, 900 m, 27032.

This species should be referred to the Section *Leucophanella* rather than to *Tristichi* as noted in the original description.

Syrrhopodon ciliatus (Hook.) Schwaegr. — Sudest Id., Rambuso, on trunk of Sago Palm, 10 m, 28090 — Sudest Id., Joe Landing, trunk of a Sago Palm, 2 m, 27748 — Misima Id., Narian, plentiful on trunks of Sago Palm, 10 m, 27589 — Misima Id., Mt. Sisa, on a seepage wet log on a ferny slope, 350 m, 27493 — Rossel Id., Jingu, on lower trunks of Sago Palms, 10 m, 28586.

Syrrhopodon albovaginatus Schwaegr. — Woodlark Id., Kulumadau, on rotting base of tree in rain forest, 100 m, 28605 in part. — Rossel Id., Alsleh, rotten log in rain forest, 28268 in part.

Syrrhopodon tristichus Nees — Rossel Id., Mt. Rossel, south slopes, on undergrowth in forest, 700 m, 28406.

***Syrrhopodon schiffnerianus** (Fl.) Par. — Fergusson Id., mountains between Agamoia and Ailuluai, massed on base of tree in oak forest, 900 m, 27104.

Syrrhopodon croceus Mitt. — Sudest Id., Joe Landing, lower trunk of tree in rain forest, 150 m, 27764, 27803 in part — Woodlark Id., Nin-himbod Bay, lower trunk of tree in innerr mangrove, 28762 — Normanby Id., Waikaiuna, patched on lower trunk of a big tree in rain forest, 20 m, 25590 — Normanby Id., Mt. Pabinama, on stem of an undergrowth tree in rain forest, 820 m, 25671 — Normanby Id., mountain behind Waihaumis Bay, low on a tree in open rain forest, 300 m, 25575 — Misima Id., Mt. Sisa, north slopes, on a log in Castanopsis forest, 300 m, 27408.

Thyridium fasciculatum (H. & G.) Mitt. — Sudest Id., Mt. Riu, epiphyte in stunted scrub of summit, 800 m, 27889.

Thyridium undulatum (D. & M.) Fl. — Normanby Id., Waikaiuna, common epiphyte of middle spaces of rain forest, 20 m, 25442, 25374 — Sudest Id., Joe Landing, low on tree in rain forest, 200 m, 27803 in part.

Calymperes dozyanum Mitt. — Sudest Id., Joe Landing, muddy base of a *Ileritiera* tree of inner mangroves, 27718.

Calymperes hyophylaceum C. M. — Misima Id., Mt. Sisa rotten log in rain forest, 350 m, 27373.

***Calymperes serratum** A. Br. — Normanby Id., Mt. Pabinama, massed on lower trunk of big tree in mossy forest, 820 m, 25722.

POTTIACEAE

Barbula consanguinea (Thw. & Mitt.) Jaeg. — Woodlark Id., Kulumadau, rocky bed of stream in rain forest, on coral limestone 100 m, 2811.

RHIZOGONIACEAE

Rhizogonium spiniforme (Hedw.) Bruch — Fergusson Id., mountains between Agamoia and Ailuluai, common low on trees in oak forest, 900 m,

27001, in part — Normanby Id., Mt. Pabinama, on a log in rain forest of slopes, 600 m, 25862 — Woodlark Id., mountain behind Luluai, abundant on bases of trees in rain forest, 250 m, 28799 — Rossel Id., Abaleti, on small to large stumps on ground in rain forest, 300 m, 28330.

Rhizogonium novae-caledoniae Besch. — Normanby Id., mountain behind Bwasiaia Village, ca. 1500 ft., 25483 — Sudest Id., Mt. Riu, west slopes, on dead wood in rain forest floor, 300 m, 27927.

DREPANOPHYLLACEAE

Mniomalia semilimbata (Mitt.) C. M. — Misima Id., Mt. Sisa, north slope, on a shaded, rotten log in rain forest, 350 m, 27377.

HYPNODENDRACEAE

Hypnodendron reinwardtii (Hsch.) Lindb. — Rossel Id., Mt. Rossel, south slopes, tufted on woody undergrowth in stunted forest of a ridge crest, 700 m, 28415 — Fergusson Id., mountains between Agamoia and Ailuluai, branchlets of a small tree in a forest ravine, 800 m, 27142 in part.

Mniodendron humile Lindb. — Fergusson Id., mountains between Agamoia and Ailuluai, on base of tree in oak forest, 900 m, 27079; on rocks in a ravine in rain forest, 800 m, 27170 — Normanby Id., Pabinama, occasional on rocks in tall, mossy forest, 850 m, 27540; terrestrial in rain forest, 700 m, 25784.

SPIRIDENTACEAE

**Spiridens aristofolius* Mitt. — Fergusson Id., mountains south of Agamoia, epiphytic in mossy forest, 820 m, 26055; mountains between Agamoia and Ailuluai, in large clumps low on trees in forest of a ridge crest, 950 m, 27050.

This species is well known from Fiji and Samoa and I also have it from the Solomon Islands.

Spiridens reinwardtii Nees — Sudest Id., Mt. Riu, tufted low on trees in stunted forest, stems up to 35 cm long, 600 m, 27847 — Normanby Id., Mt. Pabinama, occasional large tufts near ground on small trees in mossy forest, stems up to 45 cm long, 820 m, 25725 — Rossel Id., Mt. Rossel, on base of a tree in forest, 700 m, 28418.

ORTHOTRICHACEAE

Macromitrium angustifolium D. & M. — Woodlark Id., Kulumadau, matted low on tree in rain forest, 100 m, 28712 — Misima Id., Mt. Sisa, north slopes, on a sunny log in rain forest, 350 m, 27379.

Macromitrium semipellucidum D. & M., — Sudest Id., Mt. Riu, west slopes, high on tree in rain forest, 250 m, 27975.

**Macromitrium cuspidatum* Hpe. — Normanby Id., Mt. Pabinama, abundant on trees in open, stunted forest, 750 m, 25694.

RHACOPIACEAE

Rhacopilum spectabile R. & H. — Fergusson Id., mountains between Agamoia and Ailuluai, branchlets of a small tree in a forest ravine, 800 m, 27143 in part, 27142 in part.

CYRTOPODACEAE

Bescherellea cyrtopus F. v. Mull. — Normanby Id., Mt. Pabinama, low on tree trunks in rain forest, 700 m, 25782.

MYURIAEAE

**Myurium purpuratum* (Mitt.) Broth. — Sudest Id., Mt. Riu, west slopes, epiphyte on an exposed, scrubby summit, 700 m, 27848 — Rossel Id., Mt. Rossel, south slopes, on a tree trunk in forest, 700 m, 28441; matted on a leaning tree in forest, 700 m, 28439 with Hepatic.

Piloecium pseudo-rufescens (Hpe.) C. M. — Misima Id., Mt. Sisa, north slopes, low on tree in forest shade, 350 m, 27492 in part.

PTEROBRYACEAE

Garovaglia micholitzii Broth. — Fergusson Id., mountains between Agamoia and Ailuluai, low on trees in oak forest of ridge crest, 900 m, 27001 in part.

Symphysodon micholitzii (Broth.) Broth. — Fergusson Id., mountains between Agamoia and Ailuluai, low on trees in oak forest of ridge crest, 900 m, 27001 in part.

Endotrichella arfakiana C. M. — Woodlark Id., Kulumadau, on surface root of a tree in rain forest, 100 m, 28628.

Endotrichella novae-hannoverae C. M., sterile — Misima Id., Mt. Sisa, north slopes, on a sunny log in rain forest, 350 m, 27378.

METEORACEAE

Aerobryopsis longissima (D. & M.) Fl. — Fergusson Id., mountains between Agamoia and Ailuluai, hanging from an undergrowth twig in forest, 900 m, 27103 — Rossel Id., Abaleti, hanging on undergrowth in rain forest, 5 m, 28267 — Misima Id., Mt. Sisa, north slopes, hanging from undergrowth in forest, 350 m, 27430.

Floribundaria floribunda (D. & M.) Fl. — Fergusson Id., mountains between Agamoia and Ailuluai, hanging from branches of an undergrowth tree in forest, 800 m, 27144; branchlets of a small tree in forest ravine, 800 m, 27142 in part, 27143 in part.

NECKERACEAE

Neckeropsis gracilentia (Lac.) Fl. — Woodlark Id., Kulumadau, pendent from branches of trees overhanging a stream in rain forest, 25 m, 28825.

Himantocladium cyclophyllum (C. M.) Fl. — Normanby Id., Waikaiuna, plentiful low on trees of a rain forest ravine, 20 m, 25444.

Pinnatella kuhliana (Lac.) Fl. — Fergusson Id., mountains between Agamoia and Ailuluai, branchlets of small tree in forest ravine, 800 m, 27142 in part.

HOOKERIAACEAE

Distichophyllidium jungermanniaceum (C. M.) Fl. — Fergusson Id., mountains between Agamoia and Ailuluai, branchlets of a small tree in a forest ravine, 080 m, 27143 in part.

Distichophyllum brevicuspidatum Bartr. — Fergusson Id., mountains between Agamoia and Ailuluai, branchlets of a small tree in a forest ravine, 800 m, 27142 in part.

Chaetomitrium orthorrhynchum (D. & M.) Bry. jav. — Fergusson Id., mountains between Agamoia and Ailuluai, branchlets of a forest substage tree, 900 m, 27119.

Chaetomitrium papuanum Bartr. — Fergusson Id., mountains between Agamoia and Ailuluai, branchlets of a substage tree in forest, 900 m, 27118.

Both here and in the original gathering the leaves vary in outline from suborbicular to shortly lingulate with the apices either broadly rounded or provided with a short, blunt apiculus.

LESKEACEAE

Pelekium velatum Mitt. — Misima Id., Narian, on coral limestone near the sea, 17631.

Thuidium plumulosum (D. & M.) Bry. jav. — Normanby Id., Waikaiuna, matted low on trees in rain forest, 20 m, 25410.

Thuidium glaucinoides Broth. — Fergusson Id., Minbawi, on rocks in rain forest, 200 m, 27312.

SEMATOPHYLLACEAE

***Meiothecium hamatum** (C. M.) Broth. — Normanby Id., Mt. Pabiana, on twig of a tall tree in mossy forest, 820 m, 25647 — Fergusson Id., mountains between Agamoia and Ailuluai, stipes of a dead fern in forest, 900 m, 27041.

Trismigistia rigida (H. & R.) Broth. — Normanby Id., Waikaiuna, massed on a rock in rain forest ravine, 30 m, 25628 — Sudest Id., Mt. Riu, west slopes, matted low on trees in rain forest, 300 m, 27945 — Rossel Id., Abaleti, matted on surface rocks in rain forest, 300 m, 28331; south slopes, matted on a leaning tree in forest, 700 m, 28416 — Woodlark Id., mountains behind Liluai, abundant locally on the ground in rain forest, 200 m, 28801 — Fergusson Id., mountains between Agamoia and Ailuluai, terrestrial in exposed forest on a ridge crest, 900 m, 27036; pendent from trees in very mossy forest of a ridge crest, 900 m, 27034 forma pendula.

Trismigistia lancifolia var. **korthalsii** (D. & M.) Fl. — Fergusson Id.,

mountains between Agamoia and Ailuluai, plentiful low on trees in oak forest, 900 m, 27017.

Clastobryella cuculligera (Lac.) Fl. — Fergusson Id., mountains between Agamoia and Ailuluia, branchlets of a forest substage tree, 900 m, 27120.

***Sematophyllum subhumile** (C. M.) Fl. — Misima Id., Mt. Sisa, north slopes, on dead bark in rain forest, 350 m, 27383.

Acroporium diminutum (Brid.) Fl. — Fergusson Id., mountains between Agamoia and Ailuluia, creeping horizontally on a tree trunk in forest, 700 m, 27073 — Normanby Id., Mt. Pabinama, on living twigs of undergrowth in open, stunted forest, 750 m, 25696.

Acroporium lamprophyllum Mitt. — Rossel Id., Mt. Rossel, north slopes, small stumps or branches of forest undergrowth, 700 m, 28388.

***Acroporium rufum** (R. & H.) Fl. — Normanby Id., Waikaiuna, creeping on bark of big tree in rain forest, 30 m, 25627.

***Acroporium turgidum** (D. & M.) Fl. — Sudest Id., Mt. Riu, large, loose cushions epiphytic in scrub of summit, 800 m, 27888 — Misima Id., Mt. Sisa, north slopes, abundant on tree trunks of stunted forest of the upper levels, 700—800 m, 27892 — Normanby Id., Mt. Pabinama, on undergrowth in mossy forest, 820 m, 25672; lower trunks of trees in mossy forest, 820 m, 25678.

Acroporium stramineum (R. & H.) Fl. — Sudest Id., Mt. Riu, north slopes, apiphytic in stunted cloud forest, 700 m, 27894 — Normanby Id., Mt. Pabinama, on tree trunk in tall, mossy forest, 820 m, 25648, 25677, 25675.

***Acroporium secundum** (R. & H.) Fl. var. **angustifolium** Fl. — Normanby Id., Mt. Pabinama, cushioned on trees in low, open forest, 750 m, 25692 — Misima Id., Mt. Sisa, north slopes, low on a tree in forest shade, 350 m, 27492 in part.

Trichosteleum hamatum (D. & M.) Jaeg. — Misima Id., Mt. Sisa, north slopes, on log in rain forest, 350 m, 27380 — Sudest Id., Mt. Riu, west slopes, carpeting a log in rain forest, 500 m, 27851 — Woodlark Id., Kulumadau, on rotting wood in rain forest, 100 m, 28713 — Fergusson Id., Niubuwo, on old logs in rain forest, 200 m, 27311.

Trichosteleum (Papillidium) piliferum Bartr. sp. nov. — Pallide lutescentiviride, caespitosum, caespitibus sat densis. Folia ad 2 mm longa, anguste ovato-lanceolata, concava, longe piliformiter acuminata, erecto-patentia, flexuosa; marginibus erectis, superne arete serratis; costa nulla; cellulis linearibus, valde unipillatis, alaribus tribus, magnis, vesiculosis, fusciscentibus, Seta 6—7 mm longa, laevis. Caetera ignota.

Rossel Id., Abaleti, on a rotten log in rain forest, 5 m, 28268.

The piliform acuminate leaves strongly serrate on the apical margins will readily separate this species from *T. novae-guineae* Bartr.

***Trichosteleum boschii** (D. & M.) Jaeg. — Normanby Id., Mt. Pabinama, on stem of an undergrowth tree in mossy forest, 820 m, 25670 in part.

Trichosteleum pseudo-mammosum Fl. — Sudest Id., Mt. Riu, west slopes, carpeting a log in rain forest, 300 m, 27926 — Fergusson Id., mountains between Agamoia and Ailuluai, on a dead log in forest, 900 m, 27102.

Acanthorrhynchium papillatum (Harv.) Fl. — Normanby Id., Waikaiuna, common close to ground on rain forest trees, 20 m, 25375, 25373, 25412 — Woodlark Id., Kulumadau, on rotting wood in rain forest, 100 m, 28604 — Misima Id., Mt. Sisa, north slopes, on log in rain forest, 250 m, 27382 in part — Sudest Id., Rambuso, base of a big tree in rain forest, 30 m, 28130.

Taxithelium instratum (Brid.) Broth. — Normanby Id., Waikaiuna, covering stones in rain forest, 20 m, 25407; matted on rotting wood in rain forest, 20 m, 25408.

***Taxithelium alare** Broth. — Fergusson Id., mountains between Agamoia and Ailuluai, twigs in forest undergrowth, 900 m, 27080 — Normanby Id., Mt. Pabinama, stem of an epiphytic orchid in mossy forest, 820 m, 25665.

***Taxithelium tenuisetum** (Sull.) Mitt. — Ferguson Id., mountains between Agamoia and Ailuluai, twigs of a small tree in a mossy ravine in forest, 800 m, 27140.

***Taxithelium lindbergii** (Bry. jav.) R. & C. — Rossel Id., Mt. Rossel, south slope, dead branches of rain forest undergrowth, 700 m, 28455.

***Taxithelium sumatranum** (Bry. jav.) Broth. — Woodlark Id., Unkinbod plentiful on pneumatophores in inner mangrove forest, 28761 — Normanby Id., abundant on wet ground in rain forest, 2 m, 25472 — Sudest Id., Rambuso, on surface rock and pneumatophores of mangroves, 28064.

I have referred these collections to *T. sumatranum* rather than to *T. leptosigmatum* (C.M.) Par. as the leaf cells are entirely smooth with no trace of papillae over the lumens.

Taxithelium sp. sterile — Sudest Id., Mt. Riu, west slopes, bark of a dead tree in rain forest, 300 m, 27931.

Glossadelphus zollingeri (C.M.) Fl. — Fergusson Id., mountains between Agamoia and Ailuluai, on rocks in a small stream in forest, 800 m, 27135.

HYPNACEAE

Isopterygium minutirameum (C.M.) Jaeg. — Misima Id., Mt. Sisa, on a rotten log in rain forest, 350 m, 27384.

Isopterygium brassii Bartr. sp. nov. — Autoicum, pallide viride, intus fuscescens, nitidum, epiphyllum. Caulis prostratus, irregulariter ramosus, ramis complanatis, cum foliis 2 mm latis. Folia patentia, flexuosa, 1.5 mm longa, 0.5 mm lata, ovato-lanceolata, tenuiter acuminata, integerrima, ecostata; cellulis linearibus, laevissimis, alaribus paucis. Seta tenuis, laevissima, 7—9 mm longa. Caetera ignota.

Sudest Id., Mt. Riu, west slopes, on leaves of a ground fern in rain forest, 250 m, 27976.

Suggestive of *I. bancanum* (Bry. jav.) Jaeg. but more robust with leaves to 1.5 mm long, entire and more slenderly acuminate. The setae also are shorter.

Ectropothecium moritzi (C.M.) Jaeg. — Woodlark Id., Kulumadau, matted on path in rain forest, 25 m, 28824 — Sudest Id., Mt. Riu, west slopes, carpeting a log in rain forest, 500 m, 27852.

Ectropothecium falciforme (D. & M.) Jaeg. ? — Fergusson Id., mountains between Agamoia and Ailuluai, on branchlets of a small tree in forest, 900 m, 27117.

Ectropothecium buitenzorgii (Bel.) Jaeg. — Fergusson Id., mountains between Agamoia and Ailuluai, lower branches of a rotting Araucaria tree in forest, 900 m, 27070.

Ectropothecium ichnotocladum (C. M.) Jaeg. — Normanby Id., Lebudowa, creeping and matted on moist rocks, 40 m, 25542.

***Ectropothecium chamissonis** (Hsch.) Jaeg. — Misima Id., Mt. Sisa, north slopes, carpeting a log in rain forest, 350 m, 27374 in part.

E. desc. this matches very well but I have seen no authentic material for comparison.

Ectropotheciella distichophylla (Hpe.) Fl. — Misima Id., Mt. Sisa, north slopes, carpeting a log in rain forest, 350 m, 27374 in part, 27375.

POLYTRICHACEAE

Rhacelopus pilifer D. & M. — Fergusson Id., mountains between Agamoia and Ailuluai, on earth of a small stream in rain forest, 800 m, 27156.

Pseudoracelopus misimensis Bartr. sp. nov. — Laxe gregarie crescens, haud nitidis. Caulis simplex, vix 5 mm altus. Folia infima minuta, superiora multo majora sicca erecta, apice incurva, humida erectopatentia, oblonga, acuta, apiculata; marginibus superne irregulriter indistincte sinutis; costa infra apicem folii evanida, superne parcissime lamellosa; cellulis superioribus irregulariter subrotundis, incrassatis, inferne anguste rectangularibus, teneris, pellucidis. Seta circa 1 cm longa, ubique papillosa; theca erecta, oblonga, deoperculata 2 mm longa; calyptra albida, dense pilosa; operculum breviter rostratum.

Misima Id., Mt. Sisa, north slopes, bare, open ground on an old mining claim, 300 m, 27464.

This species differs from *P. philippinensis* Broth. and *P. mindanensis* Bartr. in the short, fragile apiculus of the upper leaves and also in the rudimentary lamellae occasionally developed near the tip of the costa on the ventral face. I find in the herbarium an unnamed collection of exactly the same thing from near Bwagaioa, Misima Island, Papua, collected by Dorothy J. Thomson, Sep. 1952 and sent by Mr. K. W. Allison, No. 4345, indicating that the species may not be uncommon locally.