

An Enumeration of Herbarium and Spirit Specimens of the Orchidaceae, Collected in the 1997 Vanuatu Expedition

Tomohisa YUKAWA *

Agrostophyllum cf. *leucocephalum*

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, in the montane forest, 900m alt., 18, Oct. 1997 (Yukawa 97-2151).

Agrostophyllum majus Hook. f.

ESPIRITU SANTO. Butmas, in the lowland forest, 510m alt., 23, Oct. 1997 (Yukawa 97-2188).

Bulbophyllum betchei F. Muell.

ESPIRITU SANTO. Along the Pialapa River, between 1st Camp and 2nd Camp, on the steep slope in lower montane forest, 560m alt., 19, Oct. 1997 (Yukawa 97-2166).

Bulbophyllum graciliscapum Schltr.

ESPIRITU SANTO. Along the Pialapa River, between 1st Camp and 2nd Camp, 350m alt., 15, Oct. 1997 (Yukawa 97-2044). Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 710m alt., 18, Oct. 1997 (Yukawa 97-2131).

Bulbophyllum levatii Kraenzl. subsp. *levatii*

ESPIRITU SANTO. Along the Pialapa River, 2nd Camp, on the steep slope in lower montane forest, 560m alt., 15, Oct. 1997 (Yukawa 97-2055). Between 2nd Camp and Mt. Vutimena, on the steep slope of montane forest, 800m alt., 18, Oct. 1997 (Yukawa 97-2141).

Bulbophyllum longiscapum Rolfe

ESPIRITU SANTO. Butmas, in the lowland forest, on *Syzygium malaccensis*, 560m alt., 23, Oct. 1997 (Yukawa 97-2191).

Bulbophyllum aff. *stenophyllum*

ESPIRITU SANTO. Butmas, in the lowland forest, 560m alt., 23, Oct. 1997 (Yukawa 97-2194).

Bulbophyllum sp. sect. *Leptopus* (sp. nov.)

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 640m alt., 18, Oct. 1997 (Yukawa 97-2111).

Bulbophyllum sp.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 740m alt., 18, Oct. 1997 (Yukawa 97-2138). Ibid., on the steep slope of montane forest, 800m alt., 18, Oct. 1997 (Yukawa 97-2144).

Calanthe ventilabrum Reichb. f.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 1180m alt., 16, Oct. 1997 (Yukawa 97-2065). Ibid., in the ridge top forest, 1360m alt., 16, Oct. 1997 (Yukawa 97-2095).

Calanthe triplicata (Willem.) Ames

*Tsukuba Botanical Garden, National Science Museum, Tsukuba, 305-0005 Japan.

ESPIRITU SANTO. Along the Pialapa River, between 1st Camp and 2nd Camp, on the steep slope in woodland, 380m alt., 15, Oct. 1997 (Yukawa 97-2053).

Corymborkis veratrifolia (Reinw.) Blume

ESPIRITU SANTO. Along the Pialapa River, between Tsureviu and 1st Camp, in the scrub, 140m alt., 20, Oct. 1997 (Yukawa 97-2184).

Dendrobium biflorum (G. Forst.) Sw.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 640m alt., 18, Oct. 1997 (Yukawa 97-2114).

Dendrobium calcaratum A. Rich.

ESPIRITU SANTO. Along the Pialapa River, between 1st Camp and 2nd Camp, 160m alt., 15, Oct. 1997 (Yukawa 97-2041).

Dendrobium goldfinchii F. Muell.

EFATE. Klems Hill, on a deciduous tree, 3, Oct. 1997 (Yukawa 97-2008).

Dendrobium mohlianum Reichb. f.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, on *Syzygium* sp., 1000m alt., 16, Oct. 1997 (Yukawa 97-2064).

Dendrobium mooreanum Lindl.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 1240m alt., 16, Oct. 1997 (Yukawa 97-2080).

Dendrobium morrisonii Schltr.

ESPIRITU SANTO. Along the Pialapa River, between 1st Camp and 2nd Camp, 350m alt., 15, Oct. 1997 (Yukawa 97-2045). Ibid., between Tsureviu and 1st Camp, 170m alt., 20, Oct. 1997 (Yukawa 97-2182).

Dendrobium rarum Schltr.

ESPIRITU SANTO. Butmas, in the lowland forest, 560m alt., 23, Oct. 1997 (Yukawa 97-2192).

Dendrobium sp. sect. *Grastidium*

ESPIRITU SANTO. Along the Pialapa River, between 1st Camp and 2nd Camp, 160m alt., 15, Oct. 1997 (Yukawa 97-2040). Ibid., between 1st Camp and 2nd Camp, on the sunny cliff, 340m alt., 15, Oct. 1997 (Yukawa 97-2052). Ibid., between 1st Camp and 2nd Camp, on the sunny cliff, 420m alt., 19, Oct. 1997 (Yukawa 97-2173). Ibid., between 1st Camp and 2nd Camp, 400m alt., 19, Oct. 1997 (Yukawa 97-2176).

Didymoplexis cf. *micradenia*

EFATE. Mt. Bernier, in the lowland forest, on a rotten wood, 28, Oct. 1997 (Yukawa 97-2223).

Diplocaulobium cf. *ouhinnae*

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope of montane forest, on *Rapanea laycardii*, 700m alt., 18, Oct. 1997 (Yukawa 97-2124).

Earina valida Reichb. f.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 710m alt., 18, Oct. 1997 (Yukawa 97-2135).

Epipogium roseum (D. Don) Lindl.

EFATE. Mt. Bernier, in the lowland forest, 28, Oct. 1997 (Yukawa 97-2225).

Glomera montana Reichb. f.

ESPIRITU SANTO. Along the Pialapa River, 2nd Camp, in the lower montane forest, 560m alt., 17, Oct. 1997 (Yukawa 97-2103).

Glossorhynchia macdonaldii Schltr.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, in the ridge top forest, on *Spiraeanthemum macgillivrayi*, 1360m alt., 16, Oct. 1997 (Yukawa 97-2067).

Goodyera viridiflora Blume

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 900-950m alt., 16, Oct. 1997 (Yukawa 97-2061).

Goodyera cf. *viridiflora*

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 900m alt., 18, Oct. 1997 (Yukawa 97-2158).

Goodyera sp.

ESPIRITU SANTO. Butmas, in the lowland forest, 510m alt., 23, Oct. 1997 (Yukawa 97-2187).

Gunnarella robertsii (Schltr.) Senghas

ESPIRITU SANTO. Along the Pialapa River, between Tsureviu and 1st Camp, 160m alt., 14, Oct. 1997 (Yukawa 97-2038).

Habenaria aff. *cruciata*

ESPIRITU SANTO. Along the Pialapa River, between 1st Camp and 2nd Camp, 320m alt., 15, Oct. 1997 (Yukawa 97-2048). 2nd Camp, Ibid., on the steep slope in lower montane forest, 560m alt., 17, Oct. 1997 (Yukawa 97-2099).

Habenaria sp.

ESPIRITU SANTO. Butmas, in the grassland, 270m alt., 8, Oct. 1997 (Yukawa 97-2014).
Along the Pialapa River, between 1st Camp and 2nd Camp, 160m alt., 15, Oct. 1997 (Yukawa 97-2039).

Liparis gibbosa Finet

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 700m alt., 18, Oct. 1997 (Yukawa 97-2132).

Macodes sp.

ESPIRITU SANTO. Along the Pialapa River, between 1st Camp and 2nd Camp, on the steep slope of woodland, 500m alt., 15, Oct. 1997 (Yukawa 97-2054).

Malaxis aff. *vitiensis*

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, in the montane forest, 900m alt., 18, Oct. 1997 (Yukawa 97-2155).

Mediocalcar paradoxum Schltr.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 1000m alt., 16, Oct. 1997 (Yukawa 97-2063). Ibid., on the steep slope in montane forest, 1200m alt., 16, Oct. 1997 (Yukawa 97-2096).

Oberonia heliophila (Reichb. f.) Reichb. f.

ESPIRITU SANTO. Tangoa, in the coconut palm plantation, on *Cocos nucifera* trunks, 60m alt., 12, Oct. 1997 (Yukawa 97-2028).

Oberonia cf. *imbricata*

ESPIRITU SANTO. Butmas, in the lowland forest, on *Ficus storkii*, 560m alt., 23, Oct. 1997

(Yukawa 97-2193).

Phreatia hypsorhynchos Schltr.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 1000–1150m alt., 16, Oct. 1997 (Yukawa 97-2086).

Phreatia cf. paleata

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 670m alt., 18, Oct. 1997 (Yukawa 97-2116).

Phreatia stenostachya (Reichb. f.) Kraenzl.

ESPIRITU SANTO. Butmas, in the lowland forest, 510m alt., 23, Oct. 1997 (Yukawa 97-2185).

Pristiglottis longiflora Kores

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, on the steep slope in montane forest, 900m alt., 18, Oct. 1997 (Yukawa 97-2148).

Pseuderia cf. smithiana

ESPIRITU SANTO. Along the Pialapa River, 2nd Camp, on the steep slope in lower montane forest, 560m alt., 17, Oct. 1997 (Yukawa 97-2104).

Robiquetia bertholdii Schltr.

ESPIRITU SANTO. Lukanville, roadside, on *Mangifera indica*, 5m alt., 24, Oct. 1997 (Yukawa 97-2214).

Spathoglottis pacifica Reichb. f.

ESPIRITU SANTO. Butmas, in the grassland, ca. 270m alt., 8, Oct. 1997 (Yukawa 97-2021).

Spathoglottis plicata Blume

ESPIRITU SANTO. Butmas, in the grassland, ca. 500m alt., 23, Oct. 1997 (Yukawa 97-2209).

Taeniophyllum fasciola (G. Forst.) Reichb. f.

ESPIRITU SANTO. Tangoa, coconut palm plantation, on *Cocos nucifera* trunks, 60m alt., 12, Oct. 1997 (Yukawa 97-2027). Lukanville, seashore, on *Cocos nucifera* trunks, 5m alt., 24, Oct. 1997 (Yukawa 97-2212).

Vrydagzynea argyrotaenia Schltr.

ESPIRITU SANTO. Between 2nd Camp and Mt. Vutimena, in the montane forest, 900m alt., 18, Oct. 1997 (Yukawa 97-2153).