

A List of Vanuatu Orchids, Collected in 1996

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Calanthe triplicata (Willemet) Ames

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., terrestrial, 6, Nov. 1996 (Hashimoto 72-73).

Ceratostylis subulata Bl.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 7, Nov. 1996 (Hashimoto 81-83).

Ceratostylis sp.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 7, Nov. 1996 (Hashimoto 85).

Note: Leaves narrower than *Ceratostylis subulata* Bl., 2-3 mm broad, about 1.5 mm thick.

Coelogyne macdonaldii F. Muell. & Kraenzl.

ESPIRITU SANTO. Near Palitaliefu, Mt. Tabwemasana, ca. 1000 m alt., epiphytic on the tree, 9, Nov. 1996 (Hashimoto 86).

Dendrobium macranthum A. Rich.

TONGOA (Shepherd Islands). Epiphytic on the tree, 24, Oct. 1996 (Hashimoto 87, offered from R. Matsunaga).

Dendrobium morissonii Schltr.

ESPIRITU SANTO. Near Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 800 m alt., epiphytic on the tree, 6, Nov. 1996 (Hashimoto 88).

Dendrobium seemanii L. O. Williams

ESPIRITU SANTO. Along the Kerepua River, near Kerepua Village, ca. 100 m alt., epiphytic on the tree, 11, Nov. 1996 (Hashimoto 89 & 90-92).

Dendrobium (sect. *GRASTIDIUM*) sp.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree-trunk, 6, Nov. 1996 (Hashimoto 93).

Earina santoensis T. Hashimoto in Ann. Tsukuba Bot. Gard. 16: 5, 1997.

ESPIRITU SANTO. Near Palitaliefu, Mt. Tabwemasana, ca. 900 m alt., epiphytic on the tree, 11, Nov. 1996 (Hashimoto 130-holotype & 131).

Note: The citation of specimens in the original description had lacked.

Earina sigmoidea T. Hashimoto, *ibid.*: 1, 1997.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree-trunk, 6, Nov. 1996 (Hashimoto 111-holotype & 112-113).

Note: The altitude of the original description was roughly identified by the author based on 1/100000 topographical map, published by 'L'Institut Geographique National, France, 1979', should be changed, because the altimeter of helicopter indicated the corrected result when he landed there in 1997.

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Epiblastus sciadanthus (F. Muell.) Schltr.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree-trunk, 7, Nov. 1996 (Hashimoto 126-128).

Glomera montana Reichb. f.

ESPIRITU SANTO. North ridge of Mt. Tabwemasana, ca. 1700m alt., 7, Nov. 1996 (Hashimoto 94, coll. by H. Hatta).

Glomera sp.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree-trunk, 7, Nov. 1996 (Hashimoto 95). Ibid., 8, Nov. 1996 (Hashimoto 96).

Note: Leaves narrower than *Glomera montana* Reichb. f., 3-4.5 mm broad.

Glossorhyncha macdonaldii Schltr.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree-trunk, 7, Nov. 1996 (Hashimoto 97-98).

Liparis layardii F. Muell. var. *santoensis* T. Hashimoto, var. nov.

Differto a typo callis prominentibus, marginibus labelli integeris, polliniis basaliter cuneatis.

ESPIRITU SANTO. Near Palitaliefu, Mt. Tabwemasana, ca. 1000 m alt., terrestrial, 8, Nov. 1996 (Hashimoto 74-75, type in TNS).

This entity differs from the type variety by having the lip with prominent calli and rather smooth margins, and with acutely ended pollinia.

Malaxis taurina (Reichb. f.) Kuntze

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 8, Nov. 1996 (Hashimoto 76-78).

Oberonia cf. *equitans*

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., terrestrial, 7, Nov. 1996 (Hashimoto 99), plant without flower.

Note: Leaves narrower than *O. equitans*.

Oberonia imbricata (Bl.) Lindl.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 8, Nov. 1996 (Hashimoto 100-101).

Oberonia cf. *titania*

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 8, Nov. 1996 (Hashimoto 102-103).

Note: Leaves longer (up to 12.5 cm long) than *O. titania*.

Oberonia sp.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 8, Nov. 1996 (Hashimoto 104), plant without flower.

Note: Stems abbreviated; leaves up to 6 cm long, 4 mm wide.

Octarrhena sp.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 8, Nov. 1996 (Hashimoto 105). Newly recorded from Vanuatu as the second species of the genus.

Note: Leaves terete; petals about twice larger than the lip.

Phreatia micrantha (A. Rich.) Schltr.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 7, Nov. 1996 (Hashimoto 119–120).

Phreatia myosorus (G. Forst.) Ames

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 6, Nov. 1996 (Hashimoto 117–118).

Phreatia paleata Reichb. f.

ESPIRITU SANTO. Along the Kerepua River, about 200 m alt., 4, Nov. 1996 (Hashimoto 106–107). Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 6, Nov. 1996 (Hashimoto 108).

Phreatia stenostachya (Reichb. f.) Kraenzl.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the tree, 7, Nov. 1996 (Hashimoto 115).

Note: Leaves larger than the precedent descriptions, *i.e.*, up to 13 cm and 8 mm broad.

Spathoglottis plicata Reichb. f.

ESPIRITU SANTO. Sunny mountain slope of the upper Kerepua Valley, ca. 600 m alt., 10, Nov. 1996 (Hashimoto 78).

Taeniophyllum hirtum Bl., Bijdr.: 356, 1825.

T. trachypus Schltr. in Bot. Jahrb. 39: 90, 1906, syn. nov.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., epiphytic on the small tree, about 2.5 m high above the ground, 9, Nov. 1996 (Hashimoto 109–110). Newly recorded from Vanuatu.

Note: The New Caledonian *T. trachypus* Schltr. must be treated as a conspecies with this entity by morphological analysis, then the record becomes an eastern-end collection of this species.

Zeuxine erimae Schltr.

ESPIRITU SANTO. Palitaliefu, near Nokovula, Mt. Tabwemasana, ca. 1060 m alt., terrestrial, 8, Nov. 1996 (Hashimoto 79–80).