

A List of Herbarium Specimens¹ (Angiosperms) from Vanuatu, Collected in 2000 and 2001

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ACANTHACEAE

Acanthus ilicifolius L.

ESPIRITU SANTO. Seashore, in front of Tangoa Island, 15°35'25''S, 166°58'54''E, 26, Oct. 2001 (Tanaka 54).

Hemigraphis repens Villar.

ANATOM. Track from Anelghowhat to Mt. Ukapaerek, 180 m alt., 5, Nov. 2001 (Kokubugata 3426 and 3431). Track to summit of Mt. Ukapaerek, 400 m alt., 5, Nov. 2001 (Kokubugata 3513). Foot of Mt. Nidwon Nelcau, 70 m alt. 5, Nov. 2001 (Kokubugata 3514). Ibid., 120 m alt. 5, Nov. 2001 (Kokubugata 3518).

EFATE. Near Eton, 3 m alt., 17°46'92.6''S, 168°31'34.6''E, 3, Nov. 2001 (Kokubugata 3419). Seashore, opposite side of Hat Island, 1 m alt., 17°36'78.1''S, 168°14'39.8''E, 3, Nov. 2001 (Kokubugata 3421).

ESPIRITU SANTO. Side of track from entrance to peak of Mt. Tabwemasana, 800 m alt., 20, Oct. 2001 (Kokubugata 3359). The Santo Forest Research Station, Rotal, 135 m alt., 15°15'41.6''S, 167°05'84.2''E, 29, Oct. 2001 (Kokubugata 3408). Track from 1st Camp to 2nd Camp, Mt. Tabwemasana range, 700 m alt. 25, Oct. 2001 (Kokubugata 3484).

AGAVACEAE

Dracaena graminea Wall.

ESPIRITU SANTO. Near Narango, edge of forest, 310 m alt., 8, Nov. 2000 (Sugimura 00-1190).

Dracaena graminifolia L.

ANATOM. Track from Anelghowhat to Mt. Ukapaerek, 180 m alt., 5, Nov. 2001 (Kokubugata 3429).

¹All the specimens are conserved in TNS, and the duplicates will be sent to PVNH.

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AMARANTHACEAE

Achyranthes aspera L.

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3350).

AMARYLLIDACEAE

Proiphys amboinensis Herb.

ESPIRITU SANTO. Between 1st Camp and 2nd Camp, Mt. Tabwemasana range, 290 m alt., 30, Oct. 2000 (Sugimura 00-1059).

APOCYNACEAE

Cerbera odollam Gaertner

ESPIRITU SANTO. Near Narango, edge of forest, 330 m alt., 8, Nov. 2000 (Sugimura 00-1193 and 00-1197).

Ochrosia oppositifolia K. Schum.

EFATE. Pang Pang, 21, Oct. 2000 (Konishi 00-6 and 00-10).

ARACEAE

Alocasia sp.

EFATE. Near Pang Pang, 21, Oct. 2000 (Konishi 00-1 and 00-2).

Colocasia esculenta Schott

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-49). Water taro farm, Second Blue Hole, 15°18'34''S, 167°09'04''E, 21, Oct. 2001 (Tanaka 21).

Pipremnum pinnatum (L.) Engl.

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-24).

Pistia stratiotes L.

ESPIRITU SANTO. Water taro farm, Second Blue Hole, 15°18'34''S, 167°09'04''E, 21, Oct. 2001 (Tanaka 18). Seashore, Saraoutou, -0.5 m alt., 15°27'00''S, 167°12'19''E, 19, Oct. 2001 (Tanaka 14).

ARALIACEAE

Polyscias scutellaria (Burm. f.) Fosb.

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1017).

Schefflera neo-ebudica Guillaumin

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-44). Near Narango, edge of forest, 300 m alt., 8, Nov. 2000 (Sugimura 00-1186).

ASCLEPIADACEAE

Hoya australis R. Br. ex Traill

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1022).

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1070 m alt., 31, Oct. 2000 (Sugimura 00-1078). Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3445).

Hoya sp.

EFATE. Near Pang Pang, 21, Oct. 2000 (Konishi 00-3).

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-31).

BEGONIACEAE

Begonia vitiensis A. C. Sm.

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1100 m alt., 200 m southwest track from 2nd Camp, 22, Oct. 2001 (Kokubugata 3381 and 3386). Track from 1st Camp to 2nd Camp, Mt. Tabwemasana range, 900 m alt., 25, Oct. 2001 (Kokubugata 3491).

BORAGINACEAE

Cordia dichotoma Forst. f.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 150 m alt., 29, Oct. 2000 (Sugimura 00-1053).

Cordia subcordata Lam.

EFATE. Nagar resort, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1008).

ESPIRITU SANTO. Luganville east, near Palikuro, 1 m alt., 27, Oct. 2001 (Iwashina 01-13). Seashore, Palikuro, -0.5 m alt., 15°28'58''S, 167°14'47''E, 22, Oct. 2001 (Tanaka 34).

BUDDLEJACEAE

Buddleja asiatica Lour.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 80 m alt., 29, Oct. 2000 (Sugimura 00-1047). Between 2nd Camp and 1st Camp, Mt. Tabwemasana range, 1115 m alt., 2, Nov. 2000 (Sugimura 00-1144). Between Kerepua and entrance of Mt. Tabwemasana, 15°19'41.9''S, 166°42'49.7''E, 135 m alt., 19, Oct. 2001 (Kokubugata 3341). Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3385). Track from 1st Camp to 2nd Camp, Mt. Tabwemasana range, 1100 m alt., 25, Oct. 2001 (Kokubugata 3492).

CAMPANULACEAE

Lobelia sp.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1800 m alt., 1, Nov. 2000 (Sugimura 00-1122).

CANNACEAE

Canna indica L.

ESPIRITU SANTO. Two km from Sara to Matantas, 15°11'29''S, 167°02'56''E, 22, Oct. 2001 (Tanaka 25).

CERATOPHYLLACEAE

Ceratophyllum submersum L. subsp. *muricatum* (Cham.) Wilmot-Dear var. *echinatum* (A. Gray) Wilmot-Dear

ANATOM. Mouth of river, Ivanhelhat, 20°14'05''S, 169°46'17''E, 6, Nov. 2001 (Tanaka 169).

ESPIRITU SANTO. Mouth of river, Matantas, 15°18'34''S, 166°56'45''E, 22, Oct. 2001 (Tanaka 23). Pond, Bellemoule, 15°34'49''S, 167°06'41''E, 23, Oct. 2001 (Tanaka 41).

CHLORANTHACEAE

Ascarina lanceolata Hook.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1650 m alt., 1, Nov. 2000 (Sugimura 00-1110).

CHRYSOBALANACEAE

Atuna sp.

ESPIRITU SANTO. Near Narango, edge of forest, 300 m alt., 8, Nov. 2000 (Sugimura 00-1187).

COMBRETACEAE

Terminalia catappa L.

ANATOM. Seashore, Anadwei, 20°14'16''S, 169°48'03''E, 5, Nov. 2001 (Tanaka 159).

COMMELINACEAE

Aneilema vitiense Seem.

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1100 m alt., 100 m northwest from 2nd Camp, 21, Oct. 2001 (Kokubugata 3377). The Santo Forest Research Station, Rotal, 135 m alt., 15°15'41.6''S, 167°05'84.2''E, 30, Oct. 2001 (Kokubugata 3406).

Pollia secundiflora (Blume) Bakh. f.

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Iwashina 00-4). Ibid., 24, Oct. 2000 (Konishi 00-28). Ibid., 480 m alt., 15°21'54.7''S, 166°58'58.5''E, 28, Oct. 2001 (Kokubugata 3505).

COMPOSITAE

Emilia sp.

ESPIRITU SANTO. Kerepua, seashore, 1 m alt., 28, Oct. 2000 (Sugimura 00-1042).

Gnaphalium sp.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1380 m alt., 1, Nov. 2000 (Sugimura 00-1092).

Pluchea odorata (L.) Cass.

ESPIRITU SANTO. Between Kerepua and entrance of Mt. Tabwemasana, 15°19'41.9''S, 166°42'49.7''E, 19, Oct. 2001 (Kokubugata 3339).

Wedelia biflora DC.

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1015).

ESPIRITU SANTO. Track from 1st Camp to 2nd Camp, Mt. Tabwemasana, 25, Oct. 2001 (Kokubugata 3476).

Youngia japonica DC.

ESPIRITU SANTO. Track from 1st Camp and 2nd Camp, Mt. Tabwemasana, 25, Oct. 2001 (Kokubugata 3493).

CONVOLUVULACEAE

Ipomoea aquatica Forssk.

ESPIRITU SANTO. Stream, Luganville, 15°30'46''S, 167°09'52''E, 23, Oct. 2001 (Tanaka 43).

Ipomoea pes-caprae (L.) Sweet

ESPIRITU SANTO. Seashore, in front of Tangoa Island, 15°35'25''S, 166°58'54''E, 26, Oct. 2001 (Tanaka 57).

CORIARIACEAE

Coriaria ruscifolia L.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1350 m alt., 1, Nov. 2000 (Sugimura 00-1091). Ibid., 1540 m alt., 1, Nov. 2000 (Sugimura 00-1103). Near peak of Mt. Tabwemasana, 1300 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3459).

CORYNOCARPACEAE

Corynocarpus similis Hemsl.

ESPIRITU SANTO. Near Narango, edge of forest, 300 m alt., 8, Nov. 2000 (Sugimura 00-1189).

CRUCIFERAE

Cardamine sp.

ESPIRITU SANTO. Water taro farm, Second Blue Hole, 15°18'34''S, 167°09'04''E, 21, Oct. 2001 (Tanaka 19).

CUCURBITACEAE

Coccinia grandis (L.) J. Voigt

ESPIRITU SANTO. Tanafo, edge of forest, 170 m alt., 7, Nov. 2000 (Sugimura 00-1175). Stream at northeast of Butmas, 15°20'71.9"S, 167°04'82.6"E, 180 m alt., 28, Oct. 2001 (Kokubugata 3502).

CUNONIACEAE

Geissois denhamii Seem.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1750 m alt., 1, Nov. 2000 (Sugimura 00-1139).

Weinmannia denhami Seem.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1600 m alt., 1, Nov. 2000 (Sugimura 00-1130).

CYMODOCEACEAE

Cymodocea rotundata Ehrenb. & Hempr. ex Aschers.

ANATOM. Seashore of Anelghowhat, -1~2 m alt., 20°14'07"S, 169°46'50"E, 6, Nov. 2001 (Tanaka 174 and 175). Seashore of Mystery Island, -1~2 m alt., 20°14'58"S, 169°46'26"E, 5, Nov. 2001 (Tanaka 161).

ERAKOR. South seashore of Erakor Island, near Port Vila, 17°46'34"S, 168°18'27"E, 12, Oct. 2001 (Tanaka 2 and 4).

ESPIRITU SANTO. Seashore, in front of Hotel Santo, Luganville, 15°31'07"S, 167°10'07"E, 16, Oct. 2001 (Tanaka 5). Seashore, Sarunda, -0.5 m alt., 15°27'52"S, 167°12'49"E, 19, Oct. 2001 (Tanaka 11). Seashore, Palikuro, -0.5 m alt., 15°28'58"S, 167°14'47"E, 22, Oct. 2001 (Tanaka 27). Seashore, 3 km of Palikuro to Sarunda, -0.5 m alt., 15°29'53"S, 166°14'10"E, 27, Oct. 2001 (Tanaka 64).

Cymodocea serrulata (R. Br.) Aschers. & Magnus.

ANATOM. Seashore of Anelghowhat, -1~2 m alt., 20°14'07"S, 169°46'50"E, 6, Nov. 2001 (Tanaka 173).

Halodule pinifolia (Miki) den Hartog

ESPIRITU SANTO. Seashore, in front of Hotel Santo, Luganville, 15°31'07"S, 167°10'07"E, 16, Oct. 2001 (Tanaka 7). *Ibid.*, 31, Oct. 2001 (Tanaka 141).

Halodule uninervis (Forssk.) Aschers.

ESPIRITU SANTO. Seashore, Sarunda, -0.5 m alt., 15°27'52"S, 167°12'49"E, 19, Oct. 2001 (Tanaka 12).

Syringodium isoetifolium (Aschers.) Dandy

ANATOM. Seashore of Mystery Island, -1~2 m alt., 20°14'58"S, 169°46'26"E, 5, Nov. 2001 (Tanaka 162). Seashore of Anelghowhat, -1~2 m alt., 20°14'07"S, 169°46'50"E, 6, Nov. 2001 (Tanaka 172).

CYPERACEAE

Carex fissilis Boott.

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1070 m alt., 31, Oct. 2000 (Sugimura 00-1082). Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1560 m alt., 1, Nov. 2000 (Sugimura 00-1126). Ibid., 1600 m alt., 1, Nov. 2000 (Sugimura 00-1132). Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3384).

Carex sp.

ESPIRITU SANTO. Between 1st Camp and 2nd Camp, Mt. Tabwemasana range, 500 m alt., 30, Oct. 2000 (Sugimura 00-1062).

Fimbristylis complanata (Rez.) Link.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 85 m alt., 29, Oct. 2000 (Sugimura 00-1048).

Fimbristylis dichotoma (L.) Vahl. subsp. *longispica* (Steudel) T. Koyama

ESPIRITU SANTO. Kerepua, seashore, 1 m alt., 28, Oct. 2000 (Sugimura 00-1041).

Gahnia aspera (R. Br.) Spreng.

ANATOM. Mt. Ukapaerek, 150 m alt., 5, Nov. 2001 (Iwashina 01-43).

DIOSCOREACEAE

Dioscorea aff. *bulbifera*

EFATE. Pang Pang, 21, Oct. 2000 (Konishi 00-5).

Dioscorea pentaphylla L.

ESPIRITU SANTO. Near Narango, edge of forest, 330 m alt., 8, Nov. 2000 (Sugimura 00-1196).

ELAEOCARPACEAE

Aceratium oppositifolium DC.

ESPIRITU SANTO. Near Narango, edge of forest, 330 m alt., 8, Nov. 2000 (Sugimura 00-1195).

Elaeocarpus floridanus Hemsl.

ESPIRITU SANTO. Near Narango, edge of forest, 310 m alt., 8, Nov. 2000 (Sugimura 00-1191).

ERICACEAE

Vaccinium whiteanum Sleum.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1800 m alt., 1, Nov. 2000 (Sugimura 00-1118). West peak of Mt. Tabwemasana, 1860 m alt., 1, Nov. 2000 (Iwashina 00-54). Near peak of Mt. Tabwemasana, 1800 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3464). Ibid., 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3440).

EUPHORBIACEAE

Acalypha amentacea Roxb. var. *grandis* (Benth.) F. R. Fosberg

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m south-west from 2nd Camp, 22, Oct. 2001 (Kokubugata 3390).

Acalypha grandis Benth.

EFATE. Klems Hill, wayside, 160 m alt., 20, Oct. 2000 (Sugimura 00-1005).

Baccaurea stylaris Muell. Arg.

ESPIRITU SANTO. Near Narango, edge of forest, 280 m alt., 8, Nov. 2000 (Sugimura 00-1177).
Ibid., 290 m alt., 8, Nov. 2000 (Sugimura 00-1181).

Claoxylon neo-ebudicum Airy Shaw

ESPIRITU SANTO. Siketket, in lowland forest, 300 m alt., 7, Nov. 2000 (Sugimura 00-1164).

Claoxylon sp.

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-29).

Codiaeum variegatum (L.) Bl. subsp. *mollucanum* (Decne.) Muell. Arg.

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1018).

Euphorbia atoto Forst. f.

EFATE. Near Eton, 17°46'92.6''S, 168°31'34.6''E, 3 m alt., 3, Nov. 2001 (Kokubugata 3418).

Excoecaria agallocha L.

ANATOM. Seashore of Anadwei, 20°14'16''S, 169°48'03''E, 5, Nov. 2001 (Tanaka 148).

Glochidion ramifolium J. R. & G. Forst.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, 1350 m alt., 1, Nov. 2000 (Sugimura 00-1090).

Homalanthus nutans (Forst.) Guillaumin

ANATOM. Top of Mt. Ukapaerek, 820 m alt., 5, Nov. 2001 (Iwashina 01-32).

Macaranga dioica Muell. Arg.

ESPIRITU SANTO. Butmas, in lowland forest, 530 m alt., 24, Oct. 2000 (Sugimura 00-1038).

Phyllanthus sp.

ESPIRITU SANTO. Between 2nd Camp and 1st Camp, Mt. Tabwemasana range, 700 m alt., 2, Nov. 2000 (Sugimura 00-1153).

FRAGELLARIACEAE

Fragellaria indica L.

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-42).

GESNERIACEAE

Cyrtandra aneiteënsis C. B. Clarke

ANATOM. Track from Anelghowhat to Mt. Ukapaerek, 180 m alt., 5, Nov. 2001 (Kokubugata 3430).

Cyrtandra cymosa J. R. & G. Forst.

TANNA. Near summit of Mt. Loanialu, 545 m alt., 19°29'90.1''S, 169°22'65.3''E, 7, Nov. 2001 (Kokubugata 3526, 3527, 3528 and 3529).

Cyrtandra efatensis Guillaumin

ESPIRITU SANTO. Butmas, in lowland forest, 530 m alt., 24, Oct. 2000 (Sugimura 00-1026). Between 2nd Camp and top of Mt. Tabwemasana, 1200 m alt., 1, Nov. 2000 (Sugimura 00-1088). Side of track from entrance to peak of Mt. Tabwemasana, 1000 m alt., 20, Oct. 2001 (Kokubugata 3348). Near peak of Mt. Tabwemasana, 1100 m alt., side of track from 2nd Camp to stream, 21, Oct. 2001 (Kokubugata 3368). Ibid., 1100 m alt., 100 m northeast from 2nd Camp, 21, Oct. 2001 (Kokubugata 3375 and 3376). Ibid., 1600 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3466). Track from 1st Camp to 2nd Camp, Mt. Tabwemasana range, 900 m alt., 25, Oct. 2001 (Kokubugata 3490). Butmas, 15°21'54.7''S, 166°58'58.5''E, 480 m alt., 28, Oct. 2001 (Kokubugata 3507 and 3510).

Cyrtandra schizocalex G. Gillett

ESPIRITU SANTO. Near summit of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3391 and 3392). Near peak of Mt. Tabwemasana, 1100 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3446). Ibid., 1430 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3449).

Cyrtandra sp.

ESPIRITU SANTO. Between 1st Camp and 2nd Camp, Mt. Tabwemasana range, 750 m alt., 30, Oct. 2000 (Sugimura 00-1066). Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1600 m alt., 1, Nov. 2000 (Sugimura 00-1106). Ibid., 1650 m alt., 1, Nov. 2000 (Sugimura 00-1111).

Cyrtandra vesiculata G. Gillett

ESPIRITU SANTO. Side of track from entrance to summit of Mt. Tabwemasana, 1000 m alt., 20, Oct. 2001 (Kokubugata 3349). Ibid., 900 m alt., 20, Oct. 2001 (Kokubugata 3356). Near summit of Mt. Tabwemasana, 1555 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3452).

GOODENIACEAE

Scaevola neo-ebudica Guillaumin

ANATOM. Peak of Mt. Ukapaerek, 800 m alt., 5, Nov. 2001 (Kokubugata 3437).
ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1780 m alt., 1, Nov. 2000 (Sugimura 00-1123). Near peak of Mt. Tabwemasana, 1100 m alt, side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3443). Ibid., 1555 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3455).

Scaevola sericea Vahl

ANATOM. Seashore of Anadwei, 20°14'16''S, 169°48'03''E, 5, Nov. 2001 (Tanaka 149).

GRAMINEAE

Centotheca lappacea (L.) Desv.

ESPIRITU SANTO. Butmas, in lowland forest, 530 m alt., 24, Oct. 2000 (Sugimura 00-1033).

Cyrtococcum oxyphyllum (Steud.) Stapf

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1750 m alt., 1, Nov. 2000 (Sugimura 00-1141). Ibid., 1500 m alt., 1, Nov. 2000 (Sugimura 00-1209). Near peak of Mt. Tabwemasana, 1800 m alt., track from 2nd Camp to summit,

23, Oct. 2001 (Kokubugata 3460). Track from 1st Camp to 2nd Camp, Mt. Tabwemasana, 700 m alt.,
25, Oct. 2001 (Kokubugata 3486).

Ischaemum foliosum Hack.

EFATE. Near Eton, 3 m alt., 17°46'92.6''S, 168°31'34.6''E, 3, Nov. 2001 (Kokubugata 3417).

Stenotaphrum dimidiatum (L.) Brongn.

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1014).

GUNNERACEAE

Gunnera macrophylla Blume.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, 1350 m alt., 1, Nov. 2000
(Sugimura 00-1092).

GUTTIFERAE

Calophyllum inophyllum L.

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1016).

HERNANDIACEAE

Hernandia peltata Meissn.

EFATE. Pang Pang, 21, Oct. 2000 (Konishi 00-11).

HYDROCHARITACEAE

Enhalus acoroides (L. f.) Royle

ERAKOR. Seashore of Erakor Island, near Port Vila, 17°46'34''S, 168°18'27''E, 12, Oct. 2001
(Tanaka 3).

Halophila ovalis (R. Br.) Hook. f.

ANATOM. Seashore of Anelghowhat, -1~2 m alt., 20°14'07''S, 169°46'50''E, 6, Nov. 2001
(Tanaka 176).

ESPIRITU SANTO. Seashore, in front of Hotel Santo, Luganville, 15°31'07''S, 167°10'07''E, 18,
Oct. 2001 (Tanaka 8). Seashore, Sarunda, -0.5 m alt., 15°27'52''S, 167°12'49''E, 19, Oct. 2001
(Tanaka 9).

Thalassia hemprichii (Ehrenb.) Aschers.

ANATOM. Seashore of Mystery Island, -1~2 m alt., 20°14'58''S, 169°46'26''E, 5, Nov. 2001
(Tanaka 160). Seashore of Anelghowhat, -1~2 m alt., 20°14'07''S, 169°46'50''E, 6, Nov. 2001
(Tanaka 171).

ERAKOR. Seashore of Erakor Island, near Port Vila, 17°46'34''S, 168°18'27''E, 12, Oct. 2001
(Tanaka 1).

ESPIRITU SANTO. Seashore, in front of Hotel Santo, Luganville, 15°31'07''S, 167°10'07''E, 16,
Oct. 2001 (Tanaka 6). Seashore, Sarunda, -0.5 m alt., 15°27'52''S, 167°12'49''E, 19, Oct. 2001
(Tanaka 10). Seashore, Palikuro, -0.5 m alt., 15°28'58''S, 167°14'47''E, 22, Oct. 2001 (Tanaka
26). Seashore, 3 km of Palikuro to Sarunda, -0.5 m alt., 15°29'53''S, 166°14'10''E, 27, Oct. 2001

(Tanaka 65).

LABIATAE

Hyptis pectinata (L.) Poit.

ESPIRITU SANTO. Siketket, in lowland forest, 300 m alt., 7, Nov. 2000 (Sugimura 00-1166).

LAURACEAE

Cassytha triflora E. Mey.

EFATE. Cafevari Beach, near Eton, 1 m alt., 17°46'77.0''S, 168°33'54.1''E, 3, Nov. 2001 (Kokubugata 3414).

LEGUMINOSAE

Acacia simplex (Sparman) Pedley

ESPIRITU SANTO. Luganville east, near Palikuro, 1 m alt., 27, Oct. 2001 (Iwashina 01-11).

Acacia simplicifolia (L. f.) Druce

ANATOM. Seashore of Anadwei, 20°14'16''S, 169°48'03''E, 5, Nov. 2001 (Tanaka 155).

Acacia spirorbis Labill.

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1011).

Canavalia maritima (Aubl.) Thouars

ANATOM. Seashore of Anadwei, 20°14'16''S, 169°48'03''E, 5, Nov. 2001 (Tanaka 150).

Desmodium canum Schinz & Thellung

EFATE. Klems Hill, wayside, 160 m alt., 20, Oct. 2000 (Sugimura 00-1004).

Desmodium umbellatum (L.) DC.

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1013).

Intsia bijuga Kuntze

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1021).

Pterocarpus indicus Willd.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 180 m alt., 29, Oct. 2000 (Sugimura 00-1054).

LEMNACEAE

Lemna sp.

EFATE. Brook near Tamate, 17°39'57''S, 168°14'39''E, 3, Nov. 2001 (Tanaka 147).

Spirodela sp.

ESPIRITU SANTO. Mouth of river, Matantas, 15°18'34''S, 166°56'45''E, 22, Oct. 2001 (Tanaka 24).

LILIACEAE

Smilax vitiensis A. DC.

ESPIRITU SANTO. Roadside of Luganville to Butmas, 250 m alt., 15°20'43''S, 167°04'51''E, 28, Oct. 2001 (Tanaka 95).

LOGANIACEAE

Fagraea ceilanica Thunb.

ESPIRITU SANTO. North peak of Mt. Tabwemasana, 1860 m alt., 1, Nov. 2000 (Iwashina 00-55). Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1750 m alt., 1, Nov. 2000 (Sugimura 00-1116). Near peak of Mt. Tabwemasana, 1800 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3465).

Geniostoma rupestre J. R. & G. Forst.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1770 m alt., 1, Nov. 2000 (Sugimura 00-1124).

LORANTHACEAE

Amyema aneityensis (Guillaumin) Danser

ESPIRITU SANTO. Between 1st Camp and 2nd Camp, Mt. Tabwemasana range, 800 m alt., 30, Oct. 2000 (Sugimura 00-1067).

Korthalsella platycaula Engl.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1750 m alt., 1, Nov. 2000 (Sugimura 00-1138). North ridge of Mt. Tabwemasana, 1650 m alt., 1, Nov. 2000 (Iwashina 00-62).

LYTHRACEAE

Cuphea carthagenensis (Jacq.) Macbr.

ESPIRITU SANTO. Butmas, in lowland forest, 500 m alt., 24, Oct. 2000 (Sugimura 00-1023).

Pemphis acidula Forst.

EFATE. Cafevari Beach, near Eton, 1 m alt., 17°46'77.0''S, 168°33'54.1''E, 3, Nov. 2001 (Kokubugata 3410).

MALVACEAE

Hibiscus rosa-sinensis L.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 100 m alt., 29, Oct. 2000 (Sugimura 00-1049).

Hibiscus tiliaceus L.

ESPIRITU SANTO. Seashore, Saraoutou, 15°27'00''S, 167°12'19''E, 19, Oct. 2001 (Tanaka 15).

Sida rhombifolia L.

ESPIRITU SANTO. Siketket, in lowland forest, 300 m alt., 7, Nov. 2000 (Sugimura 00-1165).

MARANTACEAE*Donax cannaeformis* (Forst. f.) Rolfe

ESPIRITU SANTO. Near Narango, edge of forest, 290 m alt., 8, Nov. 2000 (Sugimura 00-1182 and 00-1183).

MELASTOMATACEAE*Medinilla heteromorphophylla* Guillaumin

ESPIRITU SANTO. Near Narango, edge of forest, 300 m alt., 8, Nov. 2000 (Sugimura 00-1184).

Medinilla longicymosa Gibbs

ESPIRITU SANTO. Butmas, 540 m alt., 15°21'55''S, 166°58'59''E, 28, Oct. 2001 (Tanaka 110).

Medinilla sp.

ESPIRITU SANTO. Butmas, 15°21'S, 166°05'E, 28, Oct. 2001 (Iwashina 01-17). Near Narango, edge of forest, 300 m alt., 8, Nov. 2000 (Sugimura 00-1188).

Melastoma malabathricum L.

ANATOM. Top of Mt. Ukapaerek, 820 m alt., 5, Nov. 2001 (Iwashina 01-31).

EFATE. Forari Demonstration Forest Area, in lowland forest, 300 m alt., 14, Nov. 2000 (Sugimura 00-1204).

MELIACEAE*Dysoxylum gaudichaudianum* (Juss.) Miq.

ESPIRITU SANTO. Butmas, in lowland forest, 530 m alt., 24, Oct. 2000 (Sugimura 00-1039).

Xylocarpus moluccensis (Lam.) Roem.

ESPIRITU SANTO. Seashore, Palikuro, -0.5 m alt., 15°28'58''S, 167°14'47''E, 22, Oct. 2001 (Tanaka 35).

MENYANTHACEAE*Nymphoides indica* (L.) Kuntze

ESPIRITU SANTO. Pond, Bellemoule, 15°34'49''S, 167°06'41''E, 23, Oct. 2001 (Tanaka 42).

MONIMIACEAE*Hedycarya dorstenioides* A. Gray.

ESPIRITU SANTO. Butmas, in lowland forest, 530 m alt., 24, Oct. 2000 (Sugimura 00-1040).

MORACEAE*Ficus adenosperma* Miq.

ANATOM. Foot of Mt. Nidwon Nelcau, 40 m alt., 5, Nov. 2001 (Kokubugata 3517).

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 250 m alt., 3, Nov. 2000 (Sugimura 00-1156). Vatthe Conservation Area, Matantas, 30 m alt., 15°09'80.6''S, 166°56'95.5''E,

29, Oct. 2001 (Kokubugata 3405). Near peak of Mt. Tabwemasana, track from 2nd Camp to summit, 15°20'64.8''S, 166°44'68.8''E, 23, Oct. 2001 (Kokubugata 3474).

Ficus septica Burm. f.

EFATE. Pang Pang, 21, Oct. 2000 (Konishi 00-8).

Ficus smithii Home var. *robusta* Corner

ESPIRITU SANTO. Near Narango, edge of forest, 310 m alt., 8, Nov. 2000 (Sugimura 00-1192).

MYRISTICACEAE

Myristica fatua Foutt. var. *papuana* Markgraf

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1020).

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Iwashina 00-8). Near Narango, edge of forest, 310 m alt., 8, Nov. 2000 (Sugimura 00-1193).

MYRSINACEAE

Maesa ambrymensis Guillaumin

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1800 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3463). Near Tangoa Island, 1 m alt., 26, Oct. 2001 (Iwashina 01-6).

Maesa sp.

ESPIRITU SANTO. Butmas, in lowland forest, 520 m alt., 24, Oct. 2000 (Sugimura 00-1024). Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1000 m alt., 31, Oct. 2000 (Sugimura 00-1069). Near Narango, edge of forest, 300 m alt., 8, Nov. 2000 (Sugimura 00-1185).

Tapeinosperma scrobiculatum (Seem.) Mez.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1500 m alt., 1, Nov. 2000 (Sugimura 00-1127). Peren, edge of forest, 170 m alt., 7, Nov. 2000 (Sugimura 00-1174).

MYRTACEAE

Metrosideros collina (J. R. & G. Forst.) A. Gray

ESPIRITU SANTO. North ridge of Mt. Tabwemasana, 1800 m alt., 1, Nov. 2000 (Iwashina 00-56). Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1500 m alt., 1, Nov. 2000 (Sugimura 00-1128). Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3442). Ibid., 1800 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3461 and 3462).

Syzygium sp.

ESPIRITU SANTO. Butmas, in lowland forest, 520 m alt., 24, Oct. 2000 (Sugimura 00-1025). Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1430 m alt., 1, Nov. 2000 (Sugimura 00-1096).

ONAGRACEAE

Ludwigia octovalvis (Jacq.) Raven subsp. *sessiflora* (M. Micheli) Raven

ANATOM. Marsh of Anelghowhat, 20°13'54''S, 169°46'40''E, 6, Nov. 2001 (Tanaka 166).

ORCHIDACEAE

Bulbophyllum sp.

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1000 m alt., 31, Oct. 2000 (Sugimura 00-1070).

Dendrobium greenianum P. J. Cribb & B. Lewis

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, 1200 m alt., 1, Nov. 2000 (Sugimura 00-1087).

Dendrobium polysema Schlechter

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1050 m alt., 31, Oct. 2000 (Sugimura 00-1077).

Earina valida Reichb. f.

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1070 m alt., 31, Oct. 2000 (Sugimura 00-1086).

Glomera montana Reichb. f.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1670 m alt., 1, Nov. 2000 (Sugimura 00-1115). Ibid., 1700 m alt., 1, Nov. 2000 (Sugimura 00-1140).

Glomera papuana Rolfe

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1650 m alt., 1, Nov. 2000 (Sugimura 00-1108).

Glossorhyncha macdonaldii Schltr.

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1070 m alt., 31, Oct. 2000 (Sugimura 00-1080). Ibid., 1700 m alt., 1, Nov. 2000 (Sugimura 00-1142).

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

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1500 m alt., 1, Nov. 2000 (Sugimura 00-1205).

Liparis sp.

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1050 m alt., 31, Oct. 2000 (Sugimura 00-1074).

Mediocalcar paradoxum (Kraenzl.) Schltr.

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1070 m alt., 31, Oct. 2000 (Sugimura 00-1081).

Microtatorchis schlechteri Garay

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1070 m alt., 31, Oct. 2000 (Sugimura 00-1083).

Vrydagzynea argyrotaenia Schltr.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1500 m alt., 1, Nov. 2000 (Sugimura 00-1135).

Vrydagzynea solomonensis Schltr.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1550 m alt., 1, Nov. 2000 (Sugimura 00-1104).

PALMAE*Calamus vanuatuensis* J. L. Dowe

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-37).

PANDANACEAE*Pandanus tectorius* Soland. ex Balf. f.

EFATE. Pang Pang, 21, Oct. 2000 (Konishi 00-4 and 00-9).

PASSIFLORACEAE*Passiflora foetida* L. var. *hispida* Killip

ESPIRITU SANTO. Side of track from entrance to peak of Mt. Tabwemasana, 900 m alt., 20, Oct. 2001 (Kokubugata 3355).

PIPERACEAE*Macropiper latifolium* Miq.

EFATE. Pang Pang, 21, Oct. 2000 (Konishi 00-7).

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3382). Stream at northeast of Butmas, 180 m alt., 15°20'71.9''S, 167°04'82.6''E, 28, Oct. 2001 (Kokubugata 3503).

Peperomia pallidinervis C. DC.

ESPIRITU SANTO. Butmas, in lowland forest, 530 m alt., 24, Oct. 2000 (Sugimura 00-1031). Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1430 m alt., 1, Nov. 2000 (Sugimura 00-1098). *Ibid.*, 1500 m alt., 1, Nov. 2000 (Sugimura 00-1206). Side of track from entrance to peak of Mt. Tabwemasana, 900 m alt., 20, Oct. 2001 (Kokubugata 3354). Near peak of Mt. Tabwemasana, 1100 m alt., side of track from 2nd Camp to stream, 21, Oct. 2001 (Kokubugata 3369). Stream at northeast of Butmas, 180 m alt., 15°20'71.9''S, 167°04'82.6''E, 28, Oct. 2001 (Kokubugata 3509).

Peperomia sp.

ESPIRITU SANTO. Between 1st Camp and 2nd Camp, Mt. Tabwemasana range, 630 m alt., 30, Oct. 2000 (Sugimura 00-1064). Siketket, in lowland forest, 300 m alt., 7, Nov. 2000 (Sugimura 00-1169). Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-30 and 00-34).

Piper aduncum L.

ESPIRITU SANTO. Two km of Palikuro to Ngiraplanopo, 15°30'10''S, 167°14'57''E, 27, Oct. 2001 (Tanaka 75).

Piper methysticum Forst. f.

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-43). *Ibid.*, 540 m alt., 15°21'

55'S, 166°58'59'E, 28, Oct. 2001 (Tanaka 107).

Piper miniatum Blume

ESPIRITU SANTO. Near Narango, edge of forest, 280 m alt., 8, Nov. 2000 (Sugimura 00-1176).

Piper sp.

ESPIRITU SANTO. Butmas, 24, Oct. 2000 (Konishi 00-19 and 00-20).

Piper wichmannii C. DC.

ESPIRITU SANTO. Stream at northeast of Butmas, 180 m alt., 15°20'71.9''S, 167°04'82.6''E, 28, Oct. 2001 (Kokubugata 3498).

POLYGALACEAE

Polygala paniculata L.

ESPIRITU SANTO. Butmas, in lowland forest, 530 m alt., 24, Oct. 2000 (Sugimura 00-1037).
Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3397).

Polygala sp.

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Konishi 00-27).

PONTEDERIACEAE

Eichhornia crassipes (Mart.) Solms-Laub.

ESPIRITU SANTO. Water taro farm, Second Blue Hole, 15°18'34''S, 167°09'04''E, 21, Oct. 2001 (Tanaka 17).

POTAMOGETONACEAE

Potamogeton pectinatus L.

EFATE. Teouma River, near the bridge from Port Vila to Teouma, -1 m alt., 17°45'58''S, 168°22'56''E, 3, Nov. 2001 (Tanaka 143).

Potamogeton sp.

ESPIRITU SANTO. Sarakata River, Luganville, 15°30'28''S, 167°09'04''E, 19, Oct. 2001 (Tanaka 13).

Ruppia maritima L. var. *pacifica* St. John & Fosberg f. *pacifica*

ANATOM. Mouth of river, Ivanhelhat, 20°14'05''S, 169°46'17''E, 6, Nov. 2001 (Tanaka 170).
ESPIRITU SANTO. Wunamori, mouth of Adisone River, 15°35'00''S, 166°57'51''E, 26, Oct. 2001 (Tanaka 63).

PROTEACEAE

Bleasdalea lutea (Guillaumin) A. C. Smith & J. E. Haas

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1600 m alt., 1, Nov. 2000 (Sugimura 00-1131).

RHAMNACEAE***Colubrina asiatica*** (L.) Brongn.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 180 m alt., 29, Oct. 2000 (Sugimura 00-1055). Ibid., 250 m alt., 3, Nov. 2000 (Sugimura 00-1156).

RHIZOPHORACEAE***Bruguiera gymorrhiza*** (L.) Lam.

ANATOM. Seashore of Anadwei, 20°14'16''S, 169°48'03''E, 5, Nov. 2001 (Tanaka 154).

ESPIRITU SANTO. Luganville east, near Palikuro, 1 m alt., 27, Oct. 2001 (Iwashina 01-14).

Cerriops decandra (Griff) Ding Hou.

ESPIRITU SANTO. Seashore, Palikuro, -0.5 m alt., 15°28'58''S, 167°14'47''E, 22, Oct. 2001 (Tanaka 28).

Rhizophora samoensis (Hochr.) Salvoza

ANATOM. Seashore of Anadwei, 20°14'16''S, 169°48'03''E, 5, Nov. 2001 (Tanaka 158).

ESPIRITU SANTO. Seashore, Palikuro, -0.5 m alt., 15°28'58''S, 167°14'47''E, 22, Oct. 2001 (Tanaka 31).

Rhizophora stylosa Griffith

ESPIRITU SANTO. Seashore, Palikuro, -0.5 m alt., 15°28'58''S, 167°14'47''E, 22, Oct. 2001 (Tanaka 30).

ROSACEAE***Rubus neo-ebudicus*** Guillaumin

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1500 m alt., 1, Nov. 2000 (Sugimura 00-1207).

Rubus roseifolius J. E. Sm. ex Baker

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3444). Ibid., 1470 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3450). Ibid., 1800 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3457).

RUBIACEAE***Bikkia tetrandra*** (Forst. f.) A. Rich.

EFATE. Cafevari Beach, near Eton, 1 m alt., 17°46'77.0''S, 168°33'54.1''E, 3, Nov. 2001 (Kokubugata 3412).

Calycosia sp.

EFATE. Forari Demonstration Forest Area, in lowland forest, 300 m alt., 14, Nov. 2000 (Sugimura 00-1200).

ESPIRITU SANTO. Siketket, in lowland forest, 300 m alt., 7, Nov. 2000 (Sugimura 00-1171). Peren, edge of forest, 170 m alt., 7, Nov. 2000 (Sugimura 00-1172).

Coprosma sp.

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1700 m alt., 1, Nov. 2000 (Sugimura 00-1134).

Gardenia tannaensis Guillaumin

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 150 m alt., 29, Oct. 2000 (Sugimura 00-1052). Ibid., 180 m alt., 3, Nov. 2000 (Sugimura 00-1157).

Geophila repens (L.) I. M. Johnston

ANATOM. Track from Anelghowhat to Mt. Ukapaerek, 180 m alt., 5, Nov. 2001 (Kokubugata 3427).

ESPIRITU SANTO. Butmas, 500 m alt., 24, Oct. 2000 (Iwashina 00-3). Santo Forest Research Station, Rotal, 135 m alt., 15°15'41.6''S, 167°05'84.2''E, 29, Oct. 2001 (Kokubugata 3407).

Hedyotis sp.

EFATE. Pang Pang, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1010).

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1650 m alt., 1, Nov. 2000 (Sugimura 00-1113).

Hedyotis strigulosa Bartling ex P. de Candolle var. *parvifolia* (Hook. & Arn.) T. Yamazaki

EFATE. Near Eton, 3 m alt., 17°46'92.6''S, 168°31'34.6''E, 3, Nov. 2001 (Kokubugata 3416).

Ixora asme Guillaumin

ANATOM. Track to summit of Mt. Ukapaerek, 400 m alt., 5, Nov. 2001 (Kokubugata 3511).

Ixora collina Beauvis.

ESPIRITU SANTO. Kerepua, coconut palm plantation, 10 m alt., 28, Oct. 2000 (Sugimura 00-1043).

Ophiorrhiza laxa A. Gray

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1500 m alt., 1, Nov. 2000 (Sugimura 00-1129). Side of track from entrance to peak of Mt. Tabwemasana, 900 m alt., 20, Oct. 2001 (Kokubugata 3357). Track from 1st Camp to 2nd Camp, Mt. Tabwemasana range, 25, Oct. 2001 (Kokubugata 3478). Ibid., side of stream, Mt. Tabwemasana range, 700 m alt., 25, Oct. 2001 (Kokubugata 3485). Ibid., 1100 m alt., 25, Oct. 2001 (Kokubugata 3497).

Pavetta opulina DC.

ESPIRITU SANTO. Between 2nd Camp and 1st Camp, Mt. Tabwemasana range, 1000 m alt., 2, Nov. 2000 (Sugimura 00-1151). Track from 1st Camp and 2nd Camp, Mt. Tabwemasana range, 700 m alt., 25, Oct. 2001 (Kokubugata 3488).

Psychotria aneityensis Guillaumin

ESPIRITU SANTO. Near Narango, edge of forest, 290 m alt., 8, Nov. 2000 (Sugimura 00-1179). Ibid., 330 m alt., 8, Nov. 2000 (Sugimura 00-1198).

Psychotria fosteri C. W. Hamilton

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 20 m alt., 28, Oct. 2000 (Sugimura 00-1046).

Psychotria milnei (A. Gray) K. Schumann

ANATOM. Mt. Ukapaerek, 600 m alt., 5, Nov. 2001 (Iwashina 01-39).

ESPIRITU SANTO. Between 1st Camp and 2nd Camp, Mt. Tabwemasana range, 700 m alt., 30, Oct. 2000 (Sugimura 00-1065). Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1070 m alt., 31, Oct. 2000 (Sugimura 00-1079). Near peak of Mt. Tabwemasana, 1200 m alt., track from

2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3469). Stream at northeast of Butmas, 180 m alt., 15°20'71.9''S, 167°04'82.6''E, 28, Oct. 2001 (Kokubugata 3506).

Psychotria sp.

ESPIRITU SANTO. Siketket, in lowland forest, 300 m alt., 7, Nov. 2000 (Sugimura 00-1168).

Spermacoce laevis Lam.

EFATE. Klems Hill, wayside, 160 m alt., 20, Oct. 2000 (Sugimura 00-1006).

Spermacoce sp.

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1000 m alt., 31, Oct. 2000 (Sugimura 00-1071).

Tarenna efatensis Guillaumin

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1000 m alt., 31, Oct. 2000 (Sugimura 00-1076).

Timonius affinis A. Gray

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1000 m alt., 31, Oct. 2000 (Sugimura 00-1073).

RUTACEAE

Evodia triphylla DC.

ANATOM. Summit of Mt. Ukapaerek, 800 m alt., 5, Nov. 2001 (Kokubugata 3435).

Melicope sp.

ESPIRITU SANTO. Between 2nd Camp and 1st Camp, Mt. Tabwemasana range, 900 m alt., 2, Nov. 2000 (Sugimura 00-1148). Ibid., 790 m alt., 2, Nov. 2000 (Sugimura 00-1149).

Murraya paniculata (L.) Jack.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 250 m alt., 30, Oct. 2000 (Sugimura 00-1058).

SANTALACEAE

Santalum austro-caledonicum Vieill.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 200 m alt., 29, Oct. 2000 (Sugimura 00-1057).

SAPOTACEAE

Mimusops elengi L.

ERAKOR. Erakor Island, near Port Vila, seashore, 2 m alt., 20, Oct. 2000 (Sugimura 00-1012).

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 150 m alt., 29, Oct. 2000 (Sugimura 00-1051).

Pouteria costata Dubard

EFATE. Pang Pang, 21, Oct. 2000 (Konishi 00-13).

SOLANACEAE*Solanum americanum* Mill.

ESPIRITU SANTO. Butmas, in lowland forest, 24, Oct. 2000 (Sugimura 00-1036).

Solanum seafortianum Andr.

ESPIRITU SANTO. Peren, edge of forest, 170 m alt., 7, Nov. 2000 (Sugimura 00-1173).

Solanum torvum Buch.-Ham. ex Wall.

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m south-west from 2nd Camp, 22, Oct. 2001 (Kokubugata 3399). Stream at northeast of Butmas, 180 m alt., 15°20'71.9''S, 167°04'82.6'E, 28, Oct. 2001 (Kokubugata 3499). Two km of Palikuro to Ngiraplanopo, 15°30'10''S, 167°14'57'E, 27, Oct. 2001 (Tanaka 79).

SONNERATIACEAE*Sonneratia caseolaris* (L. f.) Engl.

ANATOM. Seashore of Anadwei, 20°14'16''S, 169°48'03''E, 5, Nov. 2001 (Tanaka 157).

ESPIRITU SANTO. Seashore, Palikuro, -0.5 m alt., 15°28'58''S, 167°14'47''E, 22, Oct. 2001 (Tanaka 32).

STERCULIACEAE*Kleinhovia hospita* L.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 20 m alt., 28, Oct. 2000 (Sugimura 00-1045).

TACCACEAE*Tacca leontopetaloides* (L.) Kuntze

ESPIRITU SANTO. Seashore, in front of Tangoa Island, 15°35'25''S, 166°58'54''E, 26, Oct. 2001 (Tanaka 60).

THEACEAE*Eurya vitiensis* A. Gray

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1650 m alt., 1, Nov. 2000 (Sugimura 00-1109 and 00-1112). Ibid., 1670 m alt., 1, Nov. 2000 (Sugimura 00-1125). Ibid., 1500 m alt., 1, Nov. 2000 (Sugimura 00-1208).

TILIACEAE*Grewia malococca* L. f.

EFATE. Siviri, coconut palm plantation, 50 m alt., 20, Oct. 2000 (Sugimura 00-1007).

ULMACEAE

Trema orientalis (L.) Blume

ESPIRITU SANTO. Between 2nd Camp and 1st Camp, Mt. Tabwemasana range, 700 m alt., 2, Nov. 2000 (Sugimura 00-1154).

URTICACEAE

Boehmeria platyphylla D. Don

ESPIRITU SANTO. Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3395). Ibid., 1450 m alt., track from 2nd Camp to summit, 23, Oct. 2001 (Kokubugata 3468).

Elatostema beccarii H. E. Schroet.

ESPIRITU SANTO. Near Narango, edge of forest, 290 m alt., 8, Nov. 2000 (Sugimura 00-1180). Side of track from entrance to peak of Mt. Tabwemasana, 600 m alt., 20, Oct. 2001 (Kokubugata 3360). Ibid., 450 m alt., 20, Oct. 2001 (Kokubugata 3365). Near peak of Mt. Tabwemasana, 1100 m alt., side of track from 2nd Camp to stream, 21, Oct. 2001 (Kokubugata 3371).

Elatostema macrophyllum Brongn.

ESPIRITU SANTO. Near track entrance to summit, Mt. Tabwemasana, 19, Oct. 2001 (Kokubugata 3343).

Leucosyke australis Unruh

ANATOM. Mt. Ukapaerek, 150 m alt., 5, Nov. 2001 (Iwashina 01-42). Foot of Mt. Nidwon Nelcau, 40 m alt., 5, Nov. 2001 (Kokubugata 3515).

ESPIRITU SANTO. Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1000 m alt., 31, Oct. 2000 (Sugimura 00-1072). Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3398).

Maoutia diversifolia Blume

ESPIRITU SANTO. Between 2nd Camp and top of Mt. Tabwemasana, on the north ridge of Mt. Tabwemasana, 1560 m alt., 1, Nov. 2000 (Sugimura 00-1105). Near peak of Mt. Tabwemasana, 1100 m alt., side of stream at 200 m southwest from 2nd Camp, 22, Oct. 2001 (Kokubugata 3387).

Pipturus argenteus (Forst. f.) Wedd.

EFATE. Near Teouma Bridge on Teouma River, 3 m alt., 17°46'S, 168°23'E, 3, Nov. 2001 (Kokubugata 3409).

ESPIRITU SANTO. Stream at northeast of Butmas, 180 m alt., 15°20'71.9"S, 167°04'82.6"E, 28, Oct. 2001 (Kokubugata 3501).

HIDEAWAY. Hideaway Island, north of Port Vila, seashore, 1 m alt., 12, Nov. 2000 (Sugimura 00-1199).

IRIRIKI. Iririki Island, near Port Vila, 5 m alt., 19, Oct. 2000 (Sugimura 00-1002).

VERBENACEAE

Avicennia alba Blume

ESPIRITU SANTO. Seashore, Palikuro, -0.5 m alt., 15°28'58"S, 167°14'47"E, 22, Oct. 2001

(Tanaka 33).

Avicennia marina (Forst.) Vierh. var. *australasica* (Walp.) Mold.

ESPIRITU SANTO. Luganville east, near Palikulo, 1 m alt., 27, Oct. 2001 (Iwashina 01-15).

Premna corymbosa (Burm. f.) Rottb. & Willd.

ESPIRITU SANTO. Along Kerepua River, Mt. Tabwemasana range, 200 m alt., 29, Oct. 2000 (Sugimura 00-1056).

Vitex negundo L.

ESPIRITU SANTO. Track from 1st Camp to 2nd Camp, Mt. Tabwemasana, 25, Oct. 2001 (Kokubugata 3477).

Vitex trifolia L.

ESPIRITU SANTO. Mouth of Sarakata River, Luganville, 15°31'20''S, 167°09'46''E, 25, Oct. 2001 (Tanaka 47).

VIOLACEAE

Melicytus fasciger Gillespie

ESPIRITU SANTO. Butmas, in lowland forest, 530 m alt., 24, Oct. 2000 (Sugimura 00-1035).
Between 2nd Camp and Nokovula, Mt. Tabwemasana range, 1000 m alt., 31, Oct. 2000 (Sugimura 00-1068).

ZINGIBERACEAE

Alpinia purpurata (Vieill.) K. Schum.

ANATOM. Foot of Mt. Nidwon Nelcau, 120 m alt., 5, Nov. 2001 (Kokubugata 3519).

ESPIRITU SANTO. Near track entrance to peak of Mt. Tabwemasana, 19, Oct. 2001 (Kokubugata 3344).

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