

Vascular Plants Collected from Eastern Provinces, the Solomon Islands

Nobuyuki Tanaka^{1,*}, Akihiro Seo², Koji Sugimura³,
Tetsuo Ohi-Toma⁴, †Tofu Pattson⁵ and Takashi Watanabe³

¹ Department of Botany, National Museum of Nature and Science,
4–1–1 Amakubo, Tsukuba, Ibaraki 305–0005, Japan

² Kochi Prefectural Makino Botanical Garden,
4200–6 Godaisan, Kochi 781–8125, Japan

³ Graduate School of Pharmaceutical Science, School of Pharmacy, Kumamoto University,
5–1 Oe, Chuo-ku, Kumamoto 862–0973, Japan

⁴ Nature Fieldwork Center, Okayama University of Science,
1–1 Ridai-cho, Kita-ku, Okayama-shi, Okayama 700–0005, Japan

⁵ The National Forestry Herbarium, Ministry of Forestry,
Environment and Conservation, Honiara, Solomon Islands

*E-mail: nobuyuki_tanaka@kahaku.go.jp

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Abstract The vascular plants collected by the field expeditions to the San Cristobal Islands and Malaita Islands, eastern Solomon Islands in 2011 and 2012 are enumerated as the materials towards the Flora of the Solomon Islands. The present paper records the occurrence of 20 species representing 10 families of pteridophytes and 248 species representing 81 families of spermatophytes. Among those, 10 taxa of spermatophytes namely: *Ruellia blechum* L., *R. prostrata* Poir, *R. simplex* C.Wright (Acanthaceae), *Cyanthillium cinereum* (L.) H.Rob., *Canna indica* L. var. *warszewiczii* (A.Dietr.) Nob.Tanaka (Cannaceae), *Mecardonia procumbens* (Mill.) Small (Plantaginaceae), *Persicaria barbata* (L.) H.Hara (Polygonaceae), *Discolalyx latepetiolata* (Mez) Sleumer (Primulaceae), *Smilax vitiensis* (Seem.) A.DC. (Smilacaceae), and *Alpinia zerumbet* (Pers.) B.L.Burt & R.M.Sm., are newly recorded for the flora of the Solomon Islands.

Keywords: inventory, Makira, Malaita, new record, Papuasias, San Cristobal.

Introduction

The Solomon Islands consisting of nearly 1,000 islands, covering a land area of 28,785 km², extend in a southeast direction over a distance of 1,450 km from Bougainville to Vanuatu and 850 km from north to south (Mueller-Dombois and Fosberg, 1998). This archipelago has geographical, biological and political affinities with the Papuan mainland (Kajewski, 1946).

The Solomon Islands is located easternmost edge of the Malesian floristic region, and apparently one of the most under-collected countries.

Whitmore (1966, 1969) reported the forest vegetation features of the Solomon Islands. Hunt (1969) published “Orchids of the Solomon Islands”, which was probably the first taxonomic account of the particular plant taxa in Solomon Islands. The basic reference of the total vascular account of this region is apparently “Flora of the Solomon Islands” by Hancock and Henderson (1988), in which 3210 vascular plant species were enumerated. At the same time, Henderson and Hancock (1988) also published “A guide on the useful plants of Solomon Islands”.

There is a single herbarium, Solomon Islands National Herbarium (BSIP), located in the Honiara Botanical Garden, the Guadalcanal Island,

under the management of Department of Forestry, Environment and Conservation, Ministry of Natural Resources. The fundamental materials, a total of 26,000 herbarium specimens, for the flora of the Solomon Islands made by Hancock and Henderson, were deposited in BSIP with duplicates in K, SING, etc. Hancock and Henderson (1988) estimated that there were at least another 1,500 species in the Solomon Islands. Nevertheless, critical inventories for the flora of the Solomon Islands were not conducted for almost twenty years after Hancock and Henderson (1988), which was a checklist rather than a flora book.

In October 2008, a joint expedition team from the Royal Botanic Garden Edinburgh and the Ministry of Forests, Honiara, Solomon Islands collected a large suite of specimens from most of the members of the Podocarpaceae known from the Solomon Islands (Mill and Whiting, 2012). However, for the revision of the flora of the Solomon Islands, general collecting is indispensable. A group of Taiwanese botanists carried out the floristic inventory from 2012 to 2015, and they published "Field Guide to the Plants of Solomon Islands" (Chiou *et al.*, 2016). Although this guidebook gave a general overview of vascular genera in the Solomon Islands, many taxa were still unidentified to the species rank in this publication. On the other hand, lycophytes and ferns were well studied and the pictorial book for these taxa has been published (Chen *et al.*, 2017). Probably thus far it could be said that the family Orchidaceae is the most studied taxa in the country in several decades (Hunt, 1969; Lewis and Cribb, 1991; Szlachetko and Margonska, 2000; Hsu *et al.*, 2016).

Overall, it is clear that still small number of collections has been made from the eastern regions, Makira Ulawa Province, Malaita Province, and Guadalcanal Island compared to western parts of the country based on the observations of specimens in K, SING, and BSIP. Under such circumstances, we carried out floristic inventories mainly in San Cristobal (Makira) Island and Malaita Island.

Based on the identifications of the materials collected, the present paper recorded the occurrence of 20 species representing 10 families of pteridophytes and 248 species representing 81 families of spermatophytes from those regions. Among those, 10 taxa were newly recorded from the Solomon Islands. These data based on specimens would be significant materials towards the publication of Flora of the Solomon Islands.

Materials and Methods

The floristic inventories mainly in lowland tropical forests in San Cristobal (Makira) Island (Figs. 1, 2A) including Malaupaina of the Three Sister Islands (Olu Malau Islands) (Figs. 1, 2B) and Pio Island (Figs. 1, 2C), both of which are located very close to the San Cristobal Island, Makira Ulawa Province, and Malaita Island, Malaita Province were carried out in September 2011 and February 2012 with collaboration of the Ministry of Forests and Research, the Solomon Islands. Collecting in the Guadalcanal Island was partially made. The collected specimens were morphologically examined. For 102 specimens, following the recommendation of the CBOL Plant Working Group (2009), DNA barcoding was partially used to help in identifying the genus and/or the family. Genomic DNA was extracted from dried leaf fragments using the DNeasy Plant Mini Kit (Qiagen, Hilden). Then, the target DNA regions of chloroplast *rbcl* and *matK* were amplified and sequenced with respective universal DNA barcoding primers (CBOL Plant Working Group, 2009). The obtained sequences were used to query sequences in the DNA Data Bank of Japan using Blastn.

The enumeration of the identified taxa with voucher specimens, distribution data and taxonomic notes is provided. Abbreviations of localities for the specimen citation are used as follows: **SC** as San Cristobal Island (Makira), **PI** as Pio Island, **TS** as Three Sisters Islands, **M** as Malaita Island, and **G** as Guadalcanal Island.

A first set of the voucher specimens is deposited in BSIP with duplicates in MBK and TNS.

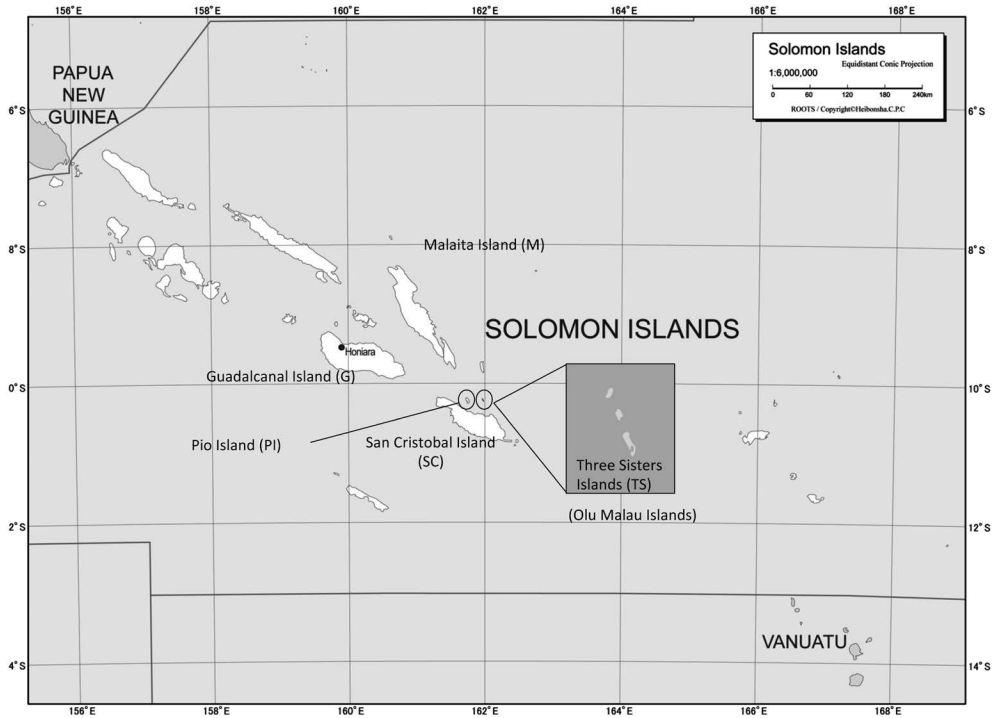


Fig. 1. A map of the Solomon Islands showing the present study sites.

The herbarium acronyms followed the Index Herbariorum (Thiers, 2016).

Results and Discussion

Total of 740 specimens were collected. Based on the identifications of the materials collected, the present study recorded the occurrence of 20 species representing 10 families of pteridophytes and 248 species representing 81 families of spermatophytes from the eastern regions of the Solomon Islands. Among those, 10 taxa of spermatophytes namely: *Ruellia blechum* L., *R. prostrata* Poir, *R. simplex* C.Wright (Acanthaceae), *Cyathium cinereum* (L.) H.Rob. (Asteraceae), *Canna indica* L. var. *warszewiczii* (A.Dietr.) Nob.Tanaka (Cannaceae), *Mecardonia procumbens* (Mill.) Small (Plantaginaceae), *Persicaria barbata* (L.) H.Hara (Polygonaceae), *Discocalyx latepetiolata* (Mez) Sleumer (Primulaceae), and *Smilax vitensis* (Seem.) A.DC. (Smilacaceae), *Alpinia zerumbet* (Pers.) B.L.Burt & R.M.Sm. (Zingiberaceae),

are newly recorded for the flora of the Solomon Islands.

The identified taxa are enumerated in alphabetical order of families, genera and specific epithets of pteridophytes, gymnosperms, and angiosperms respectively, with examined specimens citation as voucher, and distribution data obtained chiefly from the related regional floristic and monographic works (Hancock and Henderson, 1988; Smith, 1991; Wu and Raven, 1994; Ormerod, 2017; Hassler, 2019). Note including taxonomic discussion is given for each taxon if available.

List of the vascular plants collected from the Solomon Islands Expedition 2011–2012

PTERIDOPHYTES

ASPLENIACEAE

Asplenium nidus L., Sp. Pl. 2: 1079 (1753).

Specimen examined:—SC: Garapusi Sand Beach, *Watanabe et al. 1881* (BSIP, MBK, TNS).

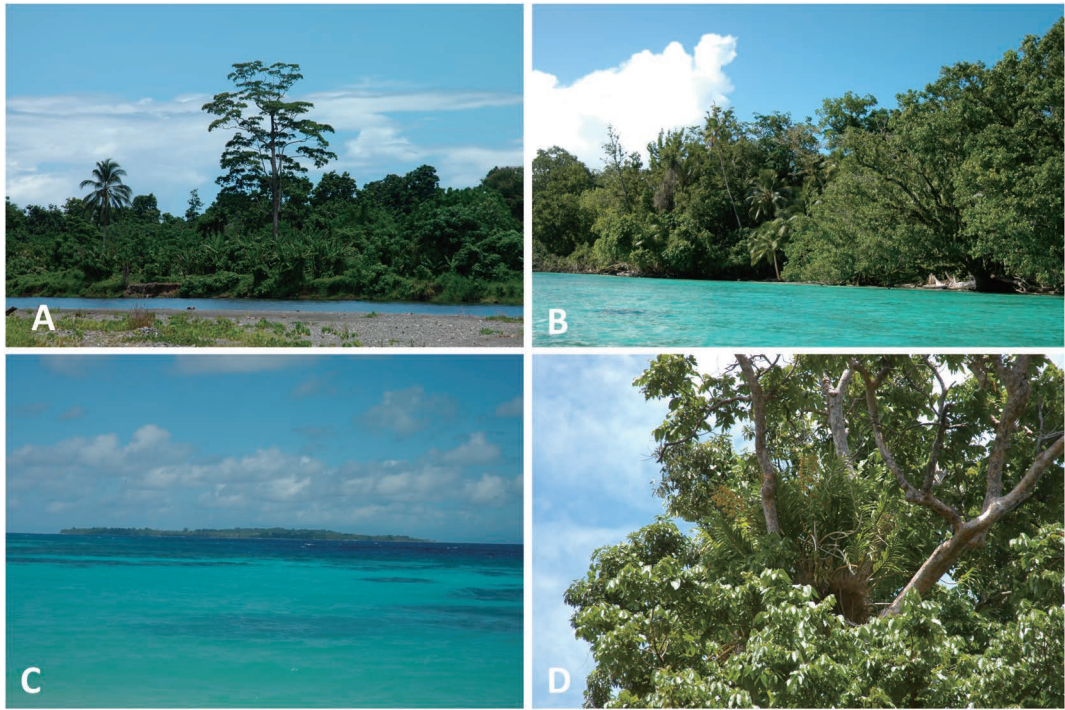


Fig. 2. Vegetation of study sites. A. Lowland tropical forest of San Cristobal Island (Makira). B. Malaupaina Island, one of the Three Sister Islands. C. Pio Island. D. *Grammatophyllum panthernum* (Orchidaceae), growing on ca. 20 m tree branches in the tropical forest, east of Kirakira, San Cristobal Island.

Distribution: Malesia to N. Australia.

DAVALLIACEAE

Davallia heterophylla Sm. in Mém. Acad. Roy. Sci. (Turin) 5: 415 (1793). —*Humata heterophylla* (Sm.) Desv.

Specimen examined:—**SC**: Mt. Ianwarango, *Watanabe et al.* 2206 (BSIP, MBK, TNS).

Distribution: Cambodia, Indonesia, Malaysia, Marianas, New Guinea, the Philippines, Thailand, and Vietnam; Micronesia, Fiji, Niue, Samoa, Solomon Is., Tonga, and Wallis-Futuna Is.

Davallia pectinata Sm. in Mém. Acad. Roy. Sci. (Turin) 5: 415 (1793). —*Humata banksii* Alston

Specimen examined:—**TS**: Malaupaina, *Watanabe et al.* 1833 (BSIP, MBK, TNS).

Distribution: Indonesia, Malaysia, Papua New Guinea, the Philippines, Taiwan, Thailand, and Vietnam; Pacific Islands and NE Australia.

Davallia solida (G.Forst.) Sw. in J. Bot. (Schrader) 1800(2): 87 (1801).

Specimen examined:—**TS**: Malaupaina, *Watanabe et al.* 1822 (BSIP, MBK, TNS).

Distribution: Tropical and subtropical Asia to Pacific Islands and NE Australia.

DRYOPTERIDACEAE

Lomagramma polyphylla Brack. in U.S. Expl. Exped., Filic. 16: 83 (1854).

Specimen examined:—**SC**: Hinua Puna Village-Tawaitara Village, *Watanabe et al.* 1790 (BSIP, MBK, TNS).

Distribution: Solomon Is. (San Cristobal and Santa Cruz Islands) to SW Pacific.

Note: This species was recorded from the Santa Cruz Island to SW Pacific countries. This collection is the first record for this species from the San Cristobal Island.

LOMARIOPSISIDACEAE

Microlepia sp.

Specimen examined:—**PI**: *Watanabe et al. 1958* (BSIP, MBK).

Nephrolepis biserrata (Sw.) Schott, Gen. Fil.: ad t. 3 (1834).

Specimens examined:—**TS**: Malaupaina, *Watanabe et al. 1808* (BSIP, MBK, TNS). **PI**: *Watanabe et al. 1955* (BSIP, MBK).

Distribution: World tropics and subtropics.

LYCOPODIACEAE

Huperzia carinata (Desv.) Trevis. in Atti Soc. Ital. Sci. Nat. 17: 247 (1874).

Specimens examined:—**SC**: Manifuki Village, *Watanabe et al. 1747* (BSIP, MBK, TNS); Kaonasuga village, *Watanabe et al. 1889, 1910* (BSIP, MBK, TNS).

Distribution: China, Indonesia, Malaysia, the Philippines, Thailand, and Vietnam; Pacific Islands to NE Australia.

Huperzia phlegmarioides (Gaudich.) Rothm. in Feddes Repert. Spec. Nov. Regni Veg. 54: 62 (1944).

Specimen examined:—**SC**: Manifuki village, *Watanabe et al. 1739* (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku) to SW Pacific and NE Australia.

POLYPODIACEAE

Lecanopteris sinuosa Copel. in Univ. Calif. Publ. Bot. 16: 123 (1929).

Specimen examined:—**SC**: Mt. Ianwarango, *Tanaka et al. 2204* (BSIP, MBK).

Distribution: Cambodia, Indonesia, Malaysia, Papua New Guinea, the Philippines, Thailand, and Vietnam; Bismarck to Vanuatu and NE Australia.

Microsorium punctatum Copel. in Univ. Calif. Publ. Bot. 16: 111 (1929).

Specimen examined:—**SC**: Rawo, E. of Kirakira, *Tanaka et al. 2354* (BSIP, MBK, TNS).

Distribution: Old world tropics and subtropics.

Phymatosorus membranifolius (R.Br.) S.G.Lu in Guihaia 19(1): 27 (1999).

Specimen examined:—**TS**: Malaupaina, *Watanabe et al. 1819* (BSIP, MBK, TNS).

Distribution: China to tropical Asia to NE Australia, and Pacific Islands.

PSILOTACEAE

Pilotum nudum (L.) P.Beauv., Prodr. Aethéogam.: 112 (1805)

Specimen examined:—**SC**: Humdu area, *Watanabe et al. 1966* (BSIP, MBK).

Distribution: World tropics and subtropics.

Pyrrosia longifolia (Burm.f.) Morton in J. Washington Acad. Sci. 36: 168 (1946).

Specimens examined:—**SC**: Kaonasuga Village, *Watanabe et al. 1889* (BSIP, MBK, TNS). **TS**: Malaupaina, *Watanabe et al. 1825* (BSIP, MBK, TNS).

Distribution: China, SE Asia to Pacific Islands, and NE Australia.

SELAGINELLACEAE

Selaginella rechingeri Hieron. in Denkschr. Kaiserl. Akad. Wiss., Wien. Math.-Naturwiss. Kl. 89: 486 (1913 publ. 1914).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1717* (BSIP, MBK, TNS); Kirakira, *Watanabe et al. 1867* (BSIP, MBK, TNS).

Distribution: Solomon Is. to Fiji.

TECTARIACEAE

Tectaria latifolia (Forst.) Copel. in Philipp. J. Sci., C 2: 410 (1907).

Specimen examined:—**SC**: Kirakira Central Road, *Watanabe et al. 1868* (BSIP, MBK, TNS).

Distribution: Indonesia (Sulawesi), Solomon Is. Vanuatu, Fiji, Tonga, Tahiti, and Wallis-Futuna Is.

Tectaria menyanthidis (C. Presl) Copel. in Philipp. J. Sci., C 2: 414 (1907).

Specimen examined:—**SC**: Manganna Forest

Reserve, *Tanaka et al. 2305* (BSIP, MBK).

Distribution: Indonesia (Maluku), New Guinea, the Philippines, Solomon Is., and NE Australia.

THELYPTERIDACEAE

Thelypteris hispidula (Decne.) C.F.Reed in *Phytologia* 17: 283 (1968). —*Christella hispidula* (Decne.) Holttum

Specimen examined:—**TS**: Malaupaina, *Watanabe et al. 1850* (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

Thelypteris glandulifera (Brack.) C.F.Reed in *Phytologia* 17: 278 (1968). —*Pneumatopteris glandulifera* (Brack.) Holttum

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1703* (BSIP, MBK, TNS).

Distribution: American Samoa, Cook Isl., Tonga, Solomon Is., and Vanuatu.

Note: This species was thus far recorded in Choiseul, Guadalcanal, Santa Ysabel, Kolombangara and Malaita (Hassler, 2020). This may be the first record from San Cristobal Island.

Thelypteris unita (L.) Morton in *Amer. Fern J.* 49: 113 (1959). —*Sphaerostephanos unitus* (L.) Holttum

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al. 1918* (BSIP, MBK, TNS).

Distribution: E Africa to Pacific Islands.

SPERMATOPHYTES

Gymnosperm

GNETACEAE

Gnetum gnemon L., *Mant. Pl.* 1: 125 (1767).

Specimen examined:—**SC**: Manibena Village-Manifuki, *Watanabe et al. 1736* (BSIP, MBK, TNS); Dadahadi camp, *Tanaka et al. 2182* (BSIP, MBK, TNS).

Distribution: SW China and SE Asia; Pacific Islands, and NE Australia.

Angiosperm ACANTHACEAE

Ruellia blechum L., *Syst. Nat.* ed. 10, 2: 1120 (1759).

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1718* (BSIP, MBK).

Distribution: Native to Central and South America; naturalized in Pacific Islands.

Note: This species was recorded from Fiji, Micronesia and Nauru (Thaman *et al.*, 1994), however, it has been no record from the Solomon Islands. This is the first record for the Solomon flora.

Ruellia prostrata Poir in Lamarck, *Encycl.* 6(1): 349 (1804). [Fig. 3A]

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1697* (BSIP, MBK).

Distribution: Africa, Arabian Peninsula, Indian Subcontinent, and Christmas Island to SW Pacific.

Note: This is widely distributed in Africa, Indian Subcontinent to the Pacific Islands, including Samoa and Vanuatu, however, thus far it has not been recorded from the Solomon Islands based on the specimen. This is the new addition to the Solomon flora.

Ruellia simplex C. Wright in *Anales Acad. Ci. Méd. Habana* 6: 321 (1870). [Fig. 3B]

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2250* (BSIP, MBK, TNS).

Distribution: Native to Mexico to South America, naturalized in SE Asia, and Solomon Is.

Note: This is the first record of naturalization in the Solomon Islands with voucher specimen.

Strobilanthes reptans (G.Forst.) Moylan ex Y.F.Deng & J.R.I.Wood in *J.-Q. Hu & J. R. I. Wood, Fl. China* 19: 390 (2011). —*Hemigraphis reptans* (G.Forst.) T.Anderson ex Hemsl.

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al. 2297* (BSIP, MBK).

Distribution: Indonesia, Malaysia, Marshall Isl., New Caledonia, New Guinea, the Philip-



Fig. 3. New records. A. *Ruellia prostrata* Poir (Acanthaceae). B. *Ruellia simplex* C.Wright, being naturalized along the stream. C. *Discocalyx latepetiolata* (Mez) Sleumer. D. *Smilax vitiensis* (Seem.) A.DC. E. *Alpinia zerumbet* (L.) Roscoe ex Sm.

pines, and Taiwan; Kiribati (Gilbert Is.), Micronesia (Caroline Is.), Solomon Is., Tuvalu, and Vanuatu.

AGAVACEAE

Dracaena angustifolia (Medik.) Roxb., Hort. Bengal.: 24 (1814).

Specimen examined:—SC: Magoha River, *Watanabe et al. 1731* (BSIP, MBK, TNS). TS: Malaupaina, *Watanabe et al. 1944* (BSIP, MBK, TNS).

Distribution: Tropical and subtropical Asia to N Australia.

AMARANTHACEAE

Alternanthera sessilis (L.) R. Br. ex DC. in Cat. Pl. Horti Monsp.: 77 (1813).

Specimens examined:—SC: Manifuki, *Watanabe et al. 1756* (BSIP, MBK, TNS); Kirakira, *Tanaka et al. 2240* (BSIP, MBK).

Distribution: Tropical and subtropical Asia to N Australia; South America; naturalized in Africa.

Celosia argentea L., Sp. Pl. 1: 205 (1753).

Specimens examined:—SC: Kaonasuga Village, *Watanabe et al. 1901* (BSIP, MBK, TNS); Rawo, *Tanaka et al. 2352* (BSIP, MBK, TNS).

Distribution: Native to Africa; naturalized in world tropics and subtropics.

Cyathula prostrata (L.) Blume, *Bijdr. Fl. Ned. Ind.*: 549 (1826).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1696* (BSIP, MBK, TNS); along the Kirakira Central Road, *Watanabe et al. 1860* (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

AMARYLLIDACEAE

Crinum asiaticum L., *Sp. Pl.* 1: 292 (1753).

Specimen examined:—**TS**: Malaupaina, *Watanabe et al. 1933* (BSIP, MBK).

Distribution: India to Malesia; SW Pacific and NE Australia.

ANACARDIACEAE

Buchanania arborescens (Blume) Blume, *Mus. Bot.* 1: 183 (1850).

Specimens examined:—**G**: Paru Village, *Watanabe et al. 1676* (BSIP, MBK). **SC**: Tawaitara village, *Watanabe et al. 1780* (BSIP, MBK, TNS).

Distribution: SE Asia to Solomon Is. and NE Australia.

Rhus taitensis Guill. in *Ann. Sci. Nat., Bot.*, sér. 2, 7: 361 (1837).

Specimen examined:—**G**: Takabou Village, *Watanabe et al. 1669* (BSIP, MBK, TNS).

Distribution: Indonesia, the Philippines, and Solomon Is.

APIACEAE

Centella asiatica (L.) Urb. in *C.F.P. von Martius, Fl. Bras.* 11(1): 287 (1879).

Specimen examined:—**PI**: *Watanabe et al. 1926* (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

APOCYNACEAE

Alstonia scholaris (L.) R.Br., *Asclepiadeae*: 64 (1810).

Specimens examined:—**SC**: Kaonasuga village, *Watanabe et al. 1920* (BSIP, MBK, TNS); along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2177* (BSIP, MBK, TNS).

Distribution: Bangladesh, Cambodia, China, India, Malaysia, Myanmar, Nepal, New Guinea, Pakistan, Philippines, Sri Lanka, Thailand, and Vietnam; Australia and Solomon Is.

Cerbera manghas L., *Sp. Pl.*: 208 (1753).

Specimen examined:—**SC**: Garapusi Sand Beach, *Watanabe et al. 1872* (BSIP, MBK, TNS).

Distribution: Cambodia, China, Indonesia, Japan, Laos, Malaysia, Myanmar, Thailand, and Vietnam; Australia and Pacific Islands.

Hoya inconspicua Hemsl. in *Bull. Misc. Inform. Kew* 1894: 213 (1894).

Specimen examined:—**SC**: Manifuki village, *Watanabe et al. 1740* (BSIP, MBK, TNS).

Distribution: New Guinea, Solomon Is., Vanuatu, and NE Australia.

Vincetoxicum glabriflorum (Warb.) Meve & Liede in *Phytotaxa* 369: 146 (2018). —*Tylophora glabriflora* (Warb.) Schltr.

Specimens examined:—**M**: Duku Ashi Road, *Tanaka et al. 2012* (BSIP, MBK, TNS); Mawa, *Tanaka et al. 2059* (BSIP, MBK, TNS).

Distribution: Papua New Guinea and Solomon Is.

ARACEAE

Alocasia macrorrhizos (L.) G.Don in *R.Sweet, Hort. Brit.*, ed. 3: 631 (1839).

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al. 1921* (BSIP, MBK, TNS).

Distribution: Widely occurs in Asia and Oceania. Origin unknown.

ARALIACEAE

Polyscias macgillivrayi (Benth.) Harms in *H.G.A.Engler & K.A.E.Prantl, Nat. Pflanzenfam.*

3(8): 45 (1894).

Specimen examined:—**GC**: Honiara, *Tanaka et al. 2147* (BSIP, MBK, TNS).

Distribution: New Guinea, Solomon Is. and NE Australia.

Polyscias scutellaria (Burm.f.) Fosberg in Occas. Pap. Univ. Hawaii 46: 9 (1948).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1700* (BSIP, MBK, TNS); along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2256* (BSIP, MBK, TNS).

Distribution: New Guinea, Solomon Is. and Vanuatu.

ARECACEAE

Areca macrocalyx Zipp. ex Blume, Rumphia 2: 75 (1839).

Specimen examined:—**SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2174* (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku) and New Guinea; Solomon Is.

Calamus aruensis Becc. in Malesia 3: 61 (1886). —*Calamus hollrungii* Becc.

Specimen examined:—**M**: Ferabu Village, *Watanabe et al. 2048* (BSIP, MBK).

Distribution: Indonesia (Maluku), New Guinea; Solomon Is. and NE Australia.

Caryota rumphiana Mart., Hist. Nat. Palm. 3: 195 (1838).

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al. 2306* (BSIP, MBK, TNS).

Distribution: the Philippines to Papuaasia.

Metroxylon salomonense (Warb.) Becc. in Denkschr. Kaiserl. Akad. Wiss., Wien. Math.-Naturwiss. Kl. 89: 502 (1913 publ. 1914).

Specimen examined:—**SC**: Hinua Puna Village, *Watanabe et al. 1982* (BSIP, MBK).

Distribution: Papua New Guinea to Vanuatu.

ASTERACEAE

Ageratum conyzoides L., Sp. Pl. 2: 839 (1753).

Specimens examined:—**M**: Busurata Road,

Tanaka et al. 2115 (BSIP, MBK, TNS). **SC**: Manganna Forest Reserve, *Tanaka et al. 2325* (BSIP, MBK, TNS).

Distribution: Native to tropical America; naturalized in Africa, India, Nepal, and SE Asia to Pacific Islands.

Crassocephalum crepidioides (Benth.) S.Moore in J. Bot. 50: 211 (1912).

Specimens examined:—**M**: Mamalade Village, Busurata Road, *Watanabe et al. 2100* (BSIP, MBK, TNS); Rawo, E of Kirakira, *Tanaka et al. 2364* (BSIP, MBK, TNS).

Distribution: Native to Africa; naturalized in S and SE Asia; Australia and Pacific islands; Central and South America.

Cyanthillium cinereum (L.) H.Rob. in Proc. Biol. Soc. Washington 103: 252 (1990).

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2255* (BSIP, MBK, TNS).

Distribution: Old world tropics and subtropics; introduced to Pacific Islands, the Americas and Australia.

Note: This species has been recorded from New Caledonia, Samoa and Tonga in the surrounding region, however, there is no record from the Solomon Islands. This is considered to be the first record of the naturalization of this species from the Solomon Islands.

Elephantopus mollis Kunth in F.W.H. von Humboldt & al., Nov. Gen. Sp. 4: 20 (1818).

Specimen examined:—**SC**: Rawo, E of Kirakira, *Tanaka et al. 2364* (BSIP, MBK).

Distribution: Native to tropical America; naturalized in Africa, SE Asia, E. Australia, and Solomon Is.

Mikania cordata (Burm.f.) B.L.Rob. in Contr. Gray Herb. 104: 65 (1934)

Specimen examined:—**SC**: Kirakira to Hagataro Ridge Top, *Tanaka et al. 1695* (BSIP, MBK, TNS).

Distribution: Widely in Old World tropics.

Synedrella nodiflora (L.) Gaertn., Fruct. Sem. Pl. 2(3): 456, t. 171(1791).

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et*

al. 2238 (BSIP, MBK, TNS).

Distribution: Native to tropical America; widely naturalized in world tropics.

Tridax procumbens L., Sp. Pl. 2: 900 (1753).

Specimen examined:—**SC**: Rawo, *Tanaka et al.* 2369 (BSIP, MBK, TNS).

Distribution: Native to Central and South America; widely naturalized in world tropics.

Wollastonia biflora (L.) DC., Prodr. 5: 546 (1836). —*Wedelia biflora* (L.) DC.

Specimens examined:—**SC**: Humdu area, *Watanabe et al.* 1689 (BSIP, MBK); Kaonasuga village, *Watanabe et al.* 1893 (BSIP, MBK, TNS); along the roadside between Kirakira to Kirakira Airport, *Tanaka et al.* 2268 (BSIP, MBK, TNS).

Distribution: China, India, Indonesia, Japan, Malaysia, the Philippines, and Vietnam; Australia and Pacific islands.

BEGONIACEAE

Begonia weigallii Hemsl. in Bull. Misc. Inform. Kew 1896: 17 (1896).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al.* 1721 (BSIP, MBK, TNS); Mt. Ianwarango, *Tanaka et al.* 2290 (BSIP, MBK, TNS).

Distribution: Papua New Guinea to Solomon Is.

BIGNONIACEAE

Dolichandrone spathacea (L.f.) Seem. in J. Bot. 1: 226 (1863).

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al.* 2327 (BSIP, MBK, TNS).

Distribution: Tropical and subtropical Asia to New Caledonia and NE Australia.

Tecoma stans (L.) Juss. ex Kunth, Nov. Gen. Sp. 3: 144 (1819).

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al.* 1894 (BSIP, MBK, TNS).

Distribution: Native to Central and South America; widely cultivated.

BORAGINACEAE

Cordia subcordata Lam., Tabl. Encycl. n. 1899 (1792).

Specimens examined:—**SC**: Visale village, *Watanabe et al.* 1665 (BSIP, MBK, TNS); Kaonasuga village, *Watanabe et al.* 1886 (BSIP, MBK, TNS). **TS**: Malaupaina, *Watanabe et al.* 1943 (BSIP, MBK, TNS).

Distribution: China, India, Indonesia, Myanmar, Thailand, and Vietnam; Africa; Pacific Islands.

Euploca procumbens (Mill.) Diane & Hilger in Bot. Jahrb. Syst. 125: 48 (2003). —*Heliotropium procumbens* Mill.

Specimen examined:—**M**: Duku Ashi Road, *Watanabe et al.* 2010 (BSIP, MBK, TNS).

Distribution: Native to tropical and subtropical America.

Heliotropium arboreum (Blanco) Mabb., Maberley's Pl.-Book 1101 (2017). —*Heliotropium foertherianum* Diane & Hilger

Specimens examined:—**SC**: Village near Kirakira Airport, *Watanabe et al.* 1746 (BSIP, MBK, TNS). **TS**: Malaupaina, *Watanabe et al.* 1800 (BSIP, MBK, TNS).

Distribution: China, Indonesia, Japan, Malaysia, the Philippines, Sri Lanka, and Vietnam; Africa; Australia; Pacific Islands and Polynesia.

Heliotropium indicum L., Sp. Pl. 1: 130 (1753).

Specimens examined:—**SC**: Magoha River to Manibena Village, *Watanabe et al.* 1752 (BSIP, MBK, TNS).

Distribution: Native to South America; naturalized in world tropics and subtropics.

BURSERACEAE

Canarium harveyi Seem., Fl. Vit.: 35 (1865).

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al.* 2295 (BSIP, MBK, TNS).

Distribution: SW Pacific.

Canarium indicum L., Amoen. Acad., Linnaeus ed. 4: 143 (1759).

Specimen examined:—**M**: Busurata Road, *Watanabe et al.* 2104 (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku), New Guinea, Solomon Is. and Vanuatu.

Canarium salomonense B.L.Burt in Bull. Misc. Inform. Kew 1935(5): 302 (1935).

Specimen examined:—**SC**: Dadahadi camp, Tanaka *et al.* 2169 (BSIP, MBK, TNS).

Distribution: Endemic to Solomon Is.

CANNABACEAE

Gironniera celtidifolia Gaudich., Voy. Bonite, Bot. 3(Atlas): t. 85 (1844).

Specimen examined:—**M**: Ferabu village, East Kuwara'ae, Watanabe *et al.* 2036 (BSIP, MBK, TNS).

Distribution: Indonesia, the Philippines, New Guinea and Solomon Is.

CANNACEAE

Canna indica L. var. **warszewiczii** (A.Dietr.) Nob.Tanaka in Makinoa, n.s. 1: 42 (2001).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, Watanabe *et al.* 1694 (BSIP, MBK, TNS). **M**: Kwai-fala River-Mawa, Watanabe *et al.* 2084 (BSIP, MBK).

Distribution: Native to Central and South America; naturalized in world tropics.

Note: This variety is the first record from the Solomon Islands.

CAPPARACEAE

Crateva religiosa G.Forst., Fl. Ins. Austr. 35 (1786).

Specimen examined:—**G**: Vera Tambolo, Watanabe *et al.* 1668 (BSIP, MBK, TNS).

Distribution: Bhutan, Cambodia, China, India, Indonesia, Myanmar, Nepal, the Philippines, Sri Lanka, Thailand, and Vietnam; Pacific islands.

CASUARINACEAE

Casuarina equisetifolia L., Amoen. Acad., Linnaeus ed. 4: 143 (1759).

Specimen examined:—**TS**: Malaupaina, Watanabe *et al.* 1938 (BSIP, MBK, TNS).

Distribution: Indonesia, Malaysia, Myanmar, Papua New Guinea, the Philippines, Thailand, and Vietnam; Australia, Pacific Islands.

CLUSIACEAE

Calophyllum inophyllum L., Sp. Pl. 1: 513 (1753).

Specimens examined:—**PI**: Watanabe *et al.* 1936 (BSIP, MBK, TNS). **TS**: Malaupaina, Watanabe *et al.* 1796 (BSIP, MBK, TNS).

Distribution: Cambodia, China, India, Indonesia, Japan, Malaysia, the Philippines, Sri Lanka, Thailand, and Vietnam; Africa, NE Australia, Indian Ocean islands, and Pacific islands.

COMBRETACEAE

Lumnitzera littorea (Jack) Voigt, Hort. Suburb. Calcutt. 39 (1845).

Specimen examined:—**TS**: Malaupaina, Watanabe *et al.* 1826 (BSIP, MBK, TNS).

Distribution: Cambodia, China, India, Indonesia, Malaysia, New Guinea, the Philippines, Singapore, Sri Lanka, Thailand, and Vietnam; N Australia, and Pacific islands.

Terminalia brasii Exell. in J. Bot. 73: 134 (1935).

Specimen examined:—**SC**: Rawo, E of Kirakira, Tanaka *et al.* 2349 (BSIP, MBK).

Distribution: Bismarck Archipelago and Solomon Is.

COMMELINACEAE

Commelina diffusa Burm.f., Fl. Ind.: 18, t. 7, f. 2 (1768).

Specimen examined:—**SC**: Kirakira, Tanaka *et al.* 2252 (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

Rhopalephora vitiensis (Seem.) Faden in Phytologia 37(5): 480 (1977). —*Aneilema vitiense* Seem.

Specimen examined:—**SC**: Manganna Forest Reserve, Tanaka *et al.* 2321 (BSIP, MBK, TNS).

Distribution: Fiji, Indonesia (Maluku), Samoa,

Solomon Is., and Tonga.

CONVOLVULACEAE

Ipomoea batatas (L.) Lam., Tabl. Encycl. tome 1, 2(2): 465 (1793).

Specimen examined:—**SC**: Kaonasuga village, *Watanabe et al. 1912* (BSIP, MBK, TNS).

Note: Escaped from cultivation.

Distribution: Native to Central America; cultivated everywhere.

Ipomoea indica (Burm.) Merr., Interpr. Herb. Amboin. 445 (1917).

Specimens examined:—**M**: Atori Road, *Watanabe et al. 2023* (BSIP, MBK, TNS). **SC**: Dada-hadi camp, *Tanaka et al. 2180* (BSIP, MBK, TNS); Kirakira, *Tanaka et al. 2271* (BSIP, MBK, TNS).

Distribution: Native to tropical and subtropical America.

Ipomoea littoralis Blume, Bijdr. Fl. Ned. Ind. 13: 713 (1826).

Specimen examined:—**PI**: Pio Island, *Watanabe et al. 1930* (BSIP, MBK, TNS).

Distribution: Madagascar, SE Asia to Pacific Islands and NE Australia.

Ipomoea pes-caprae (L.) R.Br., Observ. Congo 58 (1818).

Specimen examined:—**SC**: Humdu area, *Watanabe et al. 1965* (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

Ipomoea triloba L., Sp. Pl. 1: 161 (1753).

Specimen examined:—**SC**: Sanbiz Lodge, *Watanabe et al. 1970* (BSIP, MBK, TNS).

Distribution: Native to Central and South America.

Ipomoea violacea L., Sp. Pl. 1: 161 (1753).

Specimen examined:—**SC**: Malaupaina, *Watanabe et al. 1935* (BSIP, MBK).

Distribution: World tropics and subtropics.

Operculina turpethum (L.) Silva Manso × ***O. ventricosa*** (Bertero) Peter

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1712* (BSIP, MBK, TNS).

Distribution: Micronesia, Palau, New Caledonia, Samoa, Solomon Is. and Vanuatu.

Note: This natural hybrid has been reported by Staples *et al.* (2020).

COSTACEAE

Hellenia speciosa (J.Koenig) S.R.Dutta in Pleione 7(1): 228 (2013). —*Costus speciosus* (J.Koenig) Sm.

Specimens examined:—**M**: Kwaifala River-Mawa, *Watanabe et al. 2086* (BSIP, MBK, TNS). **SC**: Tawaitara village, *Watanabe et al. 1787* (BSIP, MBK); Manganna Forest Reserve, *Tanaka et al. 2290* (BSIP, MBK, TNS); Mt. Ianwarango, *Tanaka et al. 2227* (BSIP, MBK, TNS).

Distribution: India, SE Asia, and NE Australia.

CUCURBITACEAE

Cucumis maderaspatanus L., Sp. Pl. 2: 1012 (1753). —*Coccinia cordifolia* (L.) Cogn.

Specimens examined:—**G**: Honiara, *Tanaka et al. 2377* (BSIP, MBK, TNS). **SC**: Humdu area, *Watanabe et al. 1686* (BSIP, MBK, TNS).

Distribution: Tropical and subtropical Old World.

Diplocyclos palmatus (L.) C. Jeffrey in Kew Bull. 15(3): 352 (1962).

Specimen examined:—**SC**: Near Sanbiz Lodge, *Watanabe et al. 1791* (BSIP, MBK, TNS).

Distribution: Tropical and subtropical Asia to Pacific Islands; Africa.

Momordica charantia L., Sp. Pl. 2: 1009 (1753).

Specimen examined:—**SC**: Kirakira, *Tanaka et al. 2160* (BSIP, MBK, TNS).

Distribution: Tropical and subtropical Old World.

Zehneria japonica (Thunb.) H.Y. Liu in Bull. Natl. Mus. Nat. Sci., Taichung 1: 40 (1989).

Specimens examined:—**SC**: Humdu area, *Watanabe et al. 1686* (BSIP, MBK, TNS); along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2262* (BSIP, MBK, TNS).

Distribution: China, India, Indonesia, Japan, Korea, Laos, Myanmar, Nepal, the Philippines, Solomon Is., Taiwan, Thailand, and Vietnam.

CYMODOCEACEAE

Cymodocea rotundata Asch. & Schweinf. in Sitzungsber. Ges. Naturf. Freunde Berlin: 84 (1870).

Specimen examined:—**PI**: *Watanabe et al. 1925* (BSIP, MBK, TNS).

Distribution: E Africa, Madagascar; SE Asia to Pacific Islands and NE Australia.

CYPERACEAE

Cladium mariscus (L.) Pohl in Tent. Fl. Bohem. 1: 32 (1809).

Specimen examined:—**TS**: Suutata-a Village, Malaupaina, *Watanabe et al. 1821* (BSIP, MBK, TNS).

Distribution: North and South America; Temp. Eurasia; Africa; Australia to SW Pacific.

Cyperus iria L., Sp. Pl. 1: 45 (1753).

Specimen examined:—**SC**: Kirakira, *Tanaka et al. 2248* (BSIP, MBK).

Distribution: Tropical and Subtropical Old World to Central Asia.

Fimbristylis complanata (Retz.) Link, Hort. Berol. 1: 292 (1827).

Specimen examined:—**M**: Busurata Road, *Watanabe et al. 2113* (BSIP, MBK).

Distribution: World tropics and subtropics.

Fimbristylis cymosa R.Br., Prodr. Fl. Nov. Holland.: 228 (1810).

Specimen examined:—**TS**: Suutata-a village, Mosquito Bay, Malaupaina, *Watanabe et al. 1814* (BSIP, MBK).

Distribution: World tropics and subtropics.

Fimbristylis dichotoma (L.) Vahl, Enum. Pl. 2: 287 (1805).

Specimen examined:—**M**: Busurata Road, *Watanabe et al. 2112* (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

Mapania palustris (Hassk. ex Steud.) Fern.-Vill. in F.M. Blanco, Fl. Filip., ed. 3, 4(13A): 309 (1880).

Specimen examined:—**SC**: Mt. Ianwarango, *Tanaka et al. 2217* (BSIP, MBK, TNS).

Distribution: Andaman Islands to Vanuatu.

DILLENIACEAE

Dillenia crenatifolia Hoogland ex Mabb. in Gard. Bull. Singapore 51(2): 311 (1999).

Specimen examined:—**SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2163* (BSIP, MBK, TNS).

Distribution: Endemic to Solomon Is.

Dillenia ingens B.L. Burtt in Bull. Misc. Inform. Kew 1935(5): 299 (1935).

Specimens examined:—**M**: Atori Road, *Watanabe et al. 2022* (BSIP, MBK, TNS). **SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1702* (BSIP, MBK).

Distribution: Endemic to Solomon Is.

EUPHORBIACEAE

Acalypha caturus Blume, Bijdr. Fl. Ned. Ind. 12: 629 (1826).

Specimen examined:—**SC**: Kirakira Central Road, *Watanabe et al. 1870* (BSIP, MBK, TNS).

Distribution: Indonesia, Malaysia, Papua New Guinea, and Solomon Is.

Acalypha grandis Benth. in London J. Bot. 2: 232 (1843).

Specimens examined:—**M**: Duku Ashi Road, *Watanabe et al. 2014* (BSIP, MBK, TNS). **SC**: Between Kirakira to Kira Kira Airport, *Tanaka et al. 2278* (BSIP, MBK, TNS).

Distribution: New Guinea to SW Pacific.

Bridelia insulana Hance in J. Bot. 15: 337 (1877).

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al. 1913* (BSIP, MBK, TNS).

Distribution: SE Asia; Solomon Is., Vanuatu and NE Australia.

Cleidion javanicum Blume, Bijdr. Fl. Ned. Ind. 12: 613 (1826).

Specimen examined:—**SC**: Kaonasuga village, *Watanabe et al. 1904* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics; Solomon Is., Vanuatu and NE Australia.

Codiaeum variegatum (L.) Rumph. ex A. Juss., Euphorb. Gen.: 80, 111 (1824).

Specimen examined:—**TS**: Wai Nikishi vil-

lage, Mosquito Bay, Malaupaina, *Watanabe et al.* 1847 (BSIP, MBK, TNS).

Distribution: Malesia to Pacific Islands.

Euphorbia heterophylla L., Sp. Pl. 1: 453 (1753). —*Euphorbia geniculata* Orteg

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et al.* 2249 (BSIP, MBK, TNS).

Distribution: Native to Central and South America.

Euphorbia hirta L., Sp. Pl. 1: 454 (1753).

Specimen examined:—**SC**: Manibena Village-Manifuki, *Watanabe et al.* 1967 (BSIP, MBK, TNS).

Distribution: Native to North to South America.

Excoecaria agallocha L., Syst. Nat., ed. 10. 2: 1288 (1759).

Specimens examined:—**SC**: Humdu aera, *Watanabe et al.* 1683 (BSIP, MBK). **TS**: Suutataa Village, Mosquito Bay, Malaupaina, *Watanabe et al.* 1792 (BSIP, MBK, TNS).

Distribution: Cambodia, China, India, Indonesia, Japan, Malaysia, Papua New Guinea, the Philippines, Sri Lanka, Thailand, and Vietnam; Australia and Pacific islands.

Homalanthus populneus (Geiseler) Pax in Engler & Prantl, Nat. Pflanzenfam. iii. 5: 96 (1892).

Specimen examined:—**M**: West Kwaoi, *Gale et al.* 24 (BSIP, MBK, TNS).

Distribution: Indonesia, Malaysia, the Philippines, Thailand, and Solomon Is.

Macaranga aleuritoides F.Muell., Descr. Notes Papuan Pl. 1(2): 21 (1876).

Specimens examined:—**M**: Mamalade Village, Busurata Road, *Watanabe et al.* 2098 (BSIP, MBK, TNS). **SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al.* 1714 (BSIP, MBK, TNS); along the Magoha River, *Watanabe et al.* 1734 (BSIP, MBK, TNS); along the Kirakira Central Road, *Watanabe et al.* 1866 (BSIP, MBK, TNS); Dadahadi camp, *Tanaka et al.* 2195 (BSIP, MBK, TNS); Manganna Forest Reserve, *Tanaka et al.* 2302 (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku), New Guinea and Solomon Is.

Macaranga dioica (G.Forst) Müll.Arg in Linnaea 34(2): 199 (1865).

Specimens examined:—**M**: Mawa, *Watanabe et al.* 2073 (TNS, MBK, TNS). **SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al.* 2198 (BSIP, MBK, TNS).

Distribution: New Guinea, Solomon Is. and Vanuatu.

Macaranga involucrata (Roxb.) Baill., Étude Euphorb.: 432 (1858).

Specimen examined:—**SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al.* 2199 (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku, Sulawesi), New Guinea; NE Australia, Solomon Is., Vanuatu.

Macaranga quadriglandulosa Warb. in Bot. Jahrb. Syst. 13(3-4): 350 (1891).

Specimen examined:—**M**: Mawa, *Watanabe et al.* 2060 (BSIP, MBK, TNS).

Distribution: New Guinea and Solomon Is.

Macaranga tanarius (L.) Müll.Arg. in DC. Prodr.15(2.2): 997 (1866).

Specimens examined:—**SC**: Manifuki Village, *Watanabe et al.* 1741 (BSIP, MBK, TNS); Tawaitara village, *Watanabe et al.* 1776 (BSIP, MBK, TNS); Garapusi Sand Beach, *Watanabe et al.* 1884 (BSIP, MBK, TNS); along the roadside between Kirakira to Kirakira Airport, *Tanaka et al.* 2285 (BSIP, MBK, TNS).

Distribution: China, Indonesia, Malaysia, Myanmar, Papua New Guinea, Philippines, Taiwan, Thailand, and Vietnam; Australia, Solomon Is., and Vanuatu.

Manihot esculenta Crantz in Inst. Rei Herb. 1: 167 (1766).

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al.* 2324 (BSIP, MBK, TNS).

Distribution: Native to South America.

Pimelodendron amboinicum Hassk. in Verslagen Meded. Afd. Natuurk. Kon. Akad. Wetensch. 4: 140 (1855).

Specimen examined:—**M**: Busurata Road, *Tanaka et al.* 2121 (BSIP, MBK, TNS).

Distribution: Indonesia, New Guinea, Solomon Is., and NE Australia.

FABACEAE

Acacia mangium Willd., Sp. Pl., ed. 4, 4(2): 1053 (1806).

Specimen examined:—**M**: Auki, *Watanabe et al. 2005* (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku), New Guinea, Solomon Is. and NE Australia.

Archidendron lucyi F.Muell., *Fragm.* 6(48): 201 (1868).

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al. 2299* (BSIP, MBK).

Distribution: Indonesia, Papua New Guinea, Solomon Is. and NE Australia.

Clitoria ternatea L., Sp. Pl. 2: 753 (1753).

Specimens examined:—**SC**: along the Magoha River, *Watanabe et al. 1728* (BSIP, MBK, TNS); Kaonasuga Village, *Watanabe et al. 1896* (BSIP, MBK, TNS).

Distribution: Indonesia (Borneo, Maluku), New Guinea; Solomon Is., and NE Australia.

Crotalaria pallida Aiton, *Hort. Kew* 3: 20 (1789).

Specimen examined:—**G**: Honiara, *Tanaka et al. 2385* (BSIP, MBK).

Distribution: Native to tropical and subtropical Africa to tropical Asia; naturalized in Solomon Is.

Delonix regia (Bojer ex Hook.) Raf., *Fl. Tellur.* 2: 92 (1837).

Specimen examined:—**SC**: along sea shore, near the Sanbiz Lodge, *Watanabe et al. 1986* (BSIP, MBK, TNS).

Distribution: Native to Madagascar; introduced in Solomon Is.

Derris trifoliata Lour., *Fl. Cochinch.* 2: 433 (1790).

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2264* (BSIP, MBK, TNS).

Distribution: Cambodia, China, India, Indonesia, Japan, Malaysia, Myanmar, Papua New Guinea, Sri Lanka, Taiwan, Thailand, and Vietnam; E Africa; S America; Australia, and Pacific islands.

Inocarpus fagifer (Parkinson ex F.A.Zorn) Fosberg in *J. Washington Acad. Sci.* 31: 95 (1941).

Specimens examined:—**SC**: Tawaitara Village, *Watanabe et al. 1786* (BSIP, MBK, TNS); Rawo, E of Kirakira, *Tanaka et al. 2345* (BSIP, MBK, TNS).

Distribution: Malesia to Pacific Islands.

Intsia bijuga (Colebr.) Kuntze, *Revis. Gen. Pl.* 1: 192 (1891).

Specimen examined:—**SC**: Garapusi Sand Beach, *Watanabe et al. 1875* (BSIP, MBK, TNS).

Distribution: Africa (Tanzania), Madagascar; SE Asia; NE Australia and Pacific Islands.

Macroptilium atropurpureum (DC.) Urb., *Symb. Antill.* 9: 457 (1928).

Specimen examined:—**SC**: Along the roadside, near the post office, *Tanaka et al. 2376* (BSIP, MBK).

Distribution: Native to Central and South America; naturalized in Solomon Islands.

Mimosa pudica L., Sp. Pl. 1: 518 (1753).

Specimen examined:—**SC**: Rawo, E of Kirakira, *Tanaka et al. 2341* (BSIP, MBK, TNS).

Distribution: Native to Central and South America; naturalized in Solomon Is.

Neustanthus phaseoloides (Roxb.) Benth. in *Miquel, Pl. Jungh.* 2: 235 (1852). —*Pueraria phaseoloides* (Roxb.) Benth.

Specimens examined:—**SC**: Along the Magoha River, *Watanabe et al. 1758* (BSIP, MBK, TNS); along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2179* (BSIP, MBK, TNS); along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2260* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics.

Pongamia pinnata (L.) Pierre, *Fl. Forest. Cochinch.* 4: t. 385 (1898).

Specimens examined:—**SC**: Humdu aera, *Watanabe et al. 1677* (BSIP, MBK, TNS); Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1710* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics; NE Australia and Pacific Islands.

Pterocarpus indicus Willd., Sp. Pl., ed. 4, 3: 904 (1802).

Specimen examined:—**G**: Honiara, *Tanaka et al.* 2381 (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics to Pacific Islands.

Pueraria lobata (Willd.) Ohwi in Bull. Tokyo Sci. Mus. 18: 16 (1947).

Specimen examined:—**SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al.* 2179 (BSIP, MBK, TNS).

Distribution: India to SE Asia, China, and Japan; Australia and Pacific Islands.

Senna alata (L.) Roxb., Fl. Ind. 2: 349 (1832). —*Cassia alata* L.

Specimen examined:—**M**: Mawa, *Watanabe et al.* 2061 (BSIP, MBK, TNS).

Distribution: Native to Central and South America.

Senna tora (L.) Roxb., Fl. Ind. 2: 340 (1832). —*Cassia tora* L.

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al.* 1916 (BSIP, MBK, TNS).

Distribution: Native to Central America.

Vigna marina (Burm.) Merr., Interpr. Herb. Amboin.: 285 (1917).

Specimen examined:—**PI**: *Watanabe et al.* 1928 (BSIP, MBK, TNS).

Distribution: Tropical and subtropical Old World; NE Australia, Fiji and Solomon Is.

FLAGELLARIACEAE

Flagellaria indica L., Sp. Pl. 1: 333 (1753).

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Tanaka et al.* 1708 (BSIP, MBK, TNS).

Distribution: E Africa to W Pacific.

Flagellaria gigantea Hook.f., Hooker's Icon. Pl. 15: t. 1429 (1883).

Specimen examined:—**TS**: Malaupaina, *Watanabe et al.* 1838 (BSIP, MBK, TNS).

Distribution: Bismarck Archipelago, Fiji, New Caledonia, Niue, Samoa, Solomon Is., and Vanuatu.

GOODENIACEAE

Scaevola taccada (Gaertn.) Roxb., Hort. Bengal.: 15 (1814).

Specimen examined:—**PI**: *Watanabe et al.* 1931 (BSIP, MBK, TNS). **TS**: Malaupaina, *Watanabe et al.* 1801 (BSIP, MBK).

Distribution: Old World tropics and subtropics to Pacific Islands, and Australia.

HELICONIACEAE

Heliconia psittacorum L.f., Suppl. Pl.: 158 (1782).

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al.* 2301 (BSIP, MBK, TNS).

Distribution: Native to South America; cultivated in Solomon Is.

HERNANDIACEAE

Hernandia nymphaeifolia (C.Presl) Kubitzki in Bot. Jahrb. Syst. 90(1): 272 (1970).

Specimen examined:—**SC**: Garapusi Sand Beach, *Watanabe et al.* 1880 (BSIP, MBK, TNS).

Distribution: Madagascar; SE Asia to Pacific Islands and Australia.

HYDROCHARITACEAE

Enhalus acoroides (L.f.) Royle, Ill. Bot. Himal. Mts. 1: 377 (1839).

Specimen examined:—**TS**: Suutata-a Village, Malaupaina, *Watanabe et al.* 1794 (BSIP, MBK, TNS).

Distribution: E Africa, Madagascar; W, S and SE Asia to Pacific Islands, and Australia.

Halophila ovalis (R.Br.) Hook.f., Bot. Antarct. Voy. III. (Fl. Tasman.) 2: 45 (1858).

Specimen examined:—**PI**: *Watanabe et al.* 1924 (BSIP, MBK, TNS).

Distribution: Africa to Pacific Islands and Australia.

ICACINACEAE

Merrilliodendron megacarpum (Hemsl.) Sleumer in Notizbl. Bot. Gart. Berlin-Dahlem 15: 243 (1940).

Specimen examined:—**SC**: Kaonasuga village, *Watanabe et al. 1903* (BSIP, MBK, TNS).

Distribution: Indonesia (Sulawesi), New Guinea, the Philippines; Pacific Islands.

LAMIACEAE

Callicarpa pentandra Roxb., Fl. Ind. 1: 409 (1820).

Specimen examined:—**M**: Kunu Gwagwa Village, *Watanabe et al. 2138* (BSIP, MBK, TNS).

Distribution: Indonesia, Malaysia, New Guinea, the Philippines, Solomon Is., and Thailand.

Clerodendrum paniculatum L., Mant. Pl. 1: 90 (1767).

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2254* (BSIP, MBK, TNS).

Distribution: Bangladesh, Cambodia, China, India, Indonesia, Laos, Malaya, Myanmar, the Philippines, Thailand, and Vietnam; Bismarck Archipelago, and Solomon Is.

Gmelina arborea Roxb. ex Sm. in A. Rees, Cycl. (London) 16: Gmelina n. 4 (1810).

Specimen examined:—**M**: Mawa, *Watanabe et al. 2076* (BSIP, MBK, TNS).

Distribution: Native to SE Asia; introduced to Solomon Is.

Hyptis capitata Jacq., Collectanea 1: 102 (1787). —*Hyptis rhomboidea* M. Martens & Galeotii

Specimen examined:—**M**: Dallar Village, *Watanabe et al. 2016* (BSIP, MBK, TNS).

Distribution: Native to southern North America and northern South America.

Plectranthus parviflorus Willd., Hort. Berol.: t. 65 (1806).

Specimen examined:—**SC**: Rawo e of Kirakira, *Tanaka et al. 2335* (BSIP, MBK, TNS).

Distribution: New Guinea; Pacific Islands and Australia.

Premna serratifolia L., Mant. Pl. Altera 253

(1771).

Specimen examined:—**TS**: Suutata-a Village, Mosquito Bay, Malaupaina, *Watanabe et al. 1802* (BSIP, MBK, TNS).

Distribution: Africa, Madagascar; Cambodia, China, India, Indonesia, Malaysia, Papua New Guinea, the Philippines, Thailand, and Vietnam; Pacific Islands and Australia.

Stachytarpheta jamaicensis (L.) Vahl, Enum. Pl. 1: 206 (1804).

Specimens examined:—**M**: Auki, *Watanabe et al. 2002* (BSIP, MBK, TNS). **SC**: Along the Magoa River, *Watanabe et al. 1729* (BSIP, MBK, TNS).

Distribution: Native to southern North America to South America; naturalized in Solomon Is.

Tectona grandis L.f., Suppl. Pl. 151 (1782).

Specimen examined:—**SC**: Between Kirakira to Kirakira Airport, *Tanaka et al. 2261* (BSIP, MBK, TNS).

Distribution: Bangladesh, Cambodia, India, Laos, Myanmar, Thailand, and Vietnam; introduced to Solomon Is.

Vitex cofassus Reinw. ex Blume, Bijdr. Fl. Ned. Ind. 14: 813 (1826).

Specimens examined:—**SC**: Kaonasuga Village, *Watanabe et al. 1919* (BSIP, MBK, TNS); Rawo, E of Kirakira, *Tanaka et al. 2340* (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku, Sulawesi), New Guinea; Micronesia (Caroline Is. and Marianas) and Solomon Is.

Vitex trifolia L., Sp. Pl. 2: 638 (1753).

Specimen examined:—**G**: Lambi Village, *Watanabe et al. 1671* (BSIP, MBK, TNS).

Distribution: E Africa, Madagascar; Asia; Australia and Pacific Islands.

Volkameria inermis L., Sp. Pl. 2: 637 (1753).

Specimen examined:—**TS**: Wai Nikishi Village, Mosquito Bay, Malaupaina Island, *Watanabe et al. 1827* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics to Australia and Pacific Islands.

LAURACEAE

Cassytha filiformis L., Sp. Pl. 1: 35 (1753).

Specimen examined:—**TS**: Suutata-a Village, Mosquito Bay, Malaupaina, *Watanabe et al. 1803* (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

Cinnamomum solomonense C.K.Allen in J. Arnold Arbor. 23: 112 (1942).

Specimen examined:—**SC**: along the Magoha River, *Watanabe et al. 1733* (BSIP, MBK, TNS).

Distribution: New Guinea to Solomon Islands.

LECHYCIDACEAE

Barringtonia asiatica (L.) Kurz, Prelim. Rep. Forest Pegu A: lxx. (1875).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1723* (BSIP, MBK, TNS); Manibena Village, *Watanabe et al. 1751* (BSIP, MBK, TNS).

Distribution: Africa Madagascar; India, SE Asia; Pacific Isl. and NE Australia.

Barringtonia edulis Seem., Fl. Vit.: 82 (1866).

Specimen examined:—**G**: Honiara, *Watanabe et al. 1979* (BSIP, MBK).

Distribution: Fiji, Solomon Is. and Vanuatu.

Barringtonia procera (Miers) R.Knuth in Engler (ed.), Pflanzenz. IV. 219 (Heft 105): 25 (1939).

Specimen examined:—**SC**: Manibena Village, *Watanabe et al. 1750* (BSIP, MBK).

Distribution: Papua New Guinea, Solomon Islands, and Vanuatu.

LINDERNIACEAE

Torenia crustacea (L.) Cham. & Schltdl. in Linnaea 2(4): 570 (1827). —*Lindernia crustacea* (L.) F.Muell.

Specimens examined:—**SC**: Roadside village of Kirakira Airport, *Watanabe et al. 1757* (BSIP, MBK, TNS); Hinua Puna Village, *Watanabe et al. 1789* (BSIP, MBK, TNS); Rawo, E of Kirakira, *Tanaka et al. 2366A* (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

LOGANIACEAE

Strychnos minor Dennst., Schlüssel Hortus Malab.: 33. (1818).

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1707* (BSIP, MBK, TNS).

Distribution: Bangladesh, India, Indonesia, Malaysia, Myanmar, the Philippines, Solomon Is., Sri Lanka, Thailand, and Vietnam; NE Australia.

Utania racemosa (Jack) Sugumaran in Pl. Ecol. Evol. 147: 220 (2014). —*Fagraea racemosa* Jack

Specimen examined:—Along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2189* (BSIP, MBK, TNS).

Distribution: India (Andaman Is.), Myanmar, Malaysia, Laos, Solomon Isl., Thailand, and Vietnam.

LORANTHACEAE

Decaisnina forsteriana (Schult. & Schult.f.) Barlow in Austral. Nat. Univ. Publ. BG 3: 185 (1972).

Specimen examined:—**M**: Kunu Gwagwa Village–Auki, *Watanabe et al. 2134* (BSIP, MBK, TNS).

Distribution: Cook Is., Fiji, French Polynesia (Marquesas, Society Is.), New Guinea, Samoa, Solomon Is., Tonga, and Wallis-Futuna Is.

LYTHRACEAE

Pemphis acidula J.R.Forst. & G.Forst., Char. Gen. Pl.: 68 (1776).

Specimen examined:—**SC**: Humdu aera, *Watanabe et al. 1964* (BSIP, MBK, TNS).

Distribution: E Africa; Indian Ocean to Marshall Is.

MALPHIGIACEAE

Stigmaphyllon timoriense (DC.) C.E.Anderson in Blumea 56(1): 100 (2011).

Specimen examined:—**SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al.* 2184 (BSIP, MBK, TNS).

Distribution: Caroline Is., Indonesia, Japan, New Caledonia, Papua New Guinea, the Philippines, Solomon Is., and Taiwan; NE Australia.

MALVACEAE

Abelmoschus moschatus Medik., Malvenfam. 46 (1787).

Specimen examined:—**SC**: Hinua Puna Village, *Watanabe et al.* 1788 (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics; introduced in Solomon Is.

Commersonia bartramia (L.) Merr., Interpr. Herb. Amboin.: 362 (1917).

Specimens examined:—**M**: West Kwaoi, *Gale et al.* 24 (MBK, TNS); Mawa, *Watanabe et al.* 2058 (BSIP, MBK, TNS). **SC**: Dadahadi camp, *Tanaka et al.* 2183 (BSIP, MBK, TNS); along the logging road, from Dadahadi camp to the south, *Tanaka et al.* 2183 (BSIP, MBK, TNS).

Distribution: China, SE Asia; NE Australia, New Caledonia, Samoa, Solomon Is., Vanuatu, and Wallis-Futuna Is.

Hibiscus tiliaceus L., Sp. Pl. 2: 694 (1753).

Specimen examined:—**SC**: Garapusi Sand Beach, *Watanabe et al.* 1873 (BSIP, MBK, TNS).

Distribution: Old World tropics and subtropics.

Kleinhovia hospita L., Sp. Pl. ed. 2. 2: 1365 (1763).

Specimens examined:—**SC**: Hinua Puna village, *Watanabe et al.* 1767 (BSIP, MBK, TNS); near the Sanbiz Lodge, *Watanabe et al.* 1984 (BSIP, MBK, TNS); along the roadside between Kirakira to Kirakira Airport, *Tanaka et al.* 2287 (BSIP, MBK, TNS).

Distribution: French Polynesia (Society Is.), Japan, Malaysia, Samoa, Solomon Is., Taiwan, Tonga, Vanuatu, and Vietnam.

Melochia umbellata (Houtt.) Stapf in Bull. Misc. Inform. Kew 1913: 317 (1913).

Specimens examined:—**M**: Duku Ashi Road, *Watanabe et al.* 2009 (BSIP, MBK, TNS). **SC**: Rawo, E of Kirakira, *Tanaka et al.* 2339 (BSIP,

MBK, TNS).

Distribution: Bangladesh, Cambodia, Indonesia, Laos, Malaya, Myanmar, New Guinea, the Philippines, Solomon Is., Thailand, and Vietnam; Australia (Christmas Is.).

Muntingia calabura L., Sp. Pl. 1: 509 (1753).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al.* 1715, 1693 (BSIP, MBK, TNS).

Distribution: Native to tropical America; introduced in Solomon Is.

Sida acuta Burm.f. in Fl. Indica: 147 (1768).

Specimen examined:—**M**: Mawa, *Watanabe et al.* 2069 (BSIP, MBK, TNS).

Distribution: World tropics and subtropics.

Thespesia populnea (L.) Sol. ex Corr ea in Ann. Mus. Hist. Nat. 9: 290 (1807).

Specimen examined:—**SC**: Garapusi Sand Beach, *Watanabe et al.* 1873 (BSIP, MBK, TNS).

Distribution: Widely distributed in the world tropics.

MARANTACEAE

Donax canniformis (G.Forst.) K.Schum. in Bot. Jahrb. Syst. 15: 440 (1892).

Specimen examined:—**SC**: Rawo, E of Kirakira, *Tanaka et al.* 2359 (BSIP, MBK).

Distribution: Cambodia, India, Malaysia, Myanmar, New Guinea, the Philippines, Taiwan, Thailand, and Vietnam; Solomon Is., and Vanuatu.

MELASTOMATACEAE

Heterotis rotundifolia (Sm.) Jacq.-F el. in Adansonia s r. 2, 20(4): 417 (1981). —*Dissotis rotundifolia* (Sm.) Triana

Specimens examined:—**SC**: Kirakira to Kira Kira Airport, *Tanaka et al.* 2042 (BSIP, MBK, TNS); Ferabu Village, *Watanabe et al.* 2027 (BSIP, MBK, TNS).

Distribution: Native to tropical Africa; introduced in Solomon Is.

Miconia crenata (Vahl) Michelang. in Mabblerley, Mabblerley's Pl.-Book: 1102 (2017). —*Cli-*

demia hirta (L.) D. Don

Specimen examined:—**M**: Atori Road, East Kuwara'ae of Malaita Island, *Watanabe et al.* 2027 (BSIP, MBK, TNS).

Distribution: Native to Mexico to South America; introduced in Solomon Is.

MELIACEAE

Aphanamixis polystachya (Wall.) R.Parker in *Indian Forester* 57: 486 (1931).

Specimens examined:—**SC**: Ngorangora Village, *Watanabe et al.* 1727 (BSIP, MBK, TNS); Hinua Puna Village, 13 m alt., *Watanabe et al.* 1773 (BSIP, MBK, TNS). **M**: Mamalade Village, Busurata Road, *Watanabe et al.* 2095 (BSIP, MBK, TNS).

Distribution: S China to tropical Asia and Solomon Is.

MORACEAE

Artocarpus altilis (Parkinson) Fosberg in *J. Wash. Acad. Sci.* 31: 95 (1941).

Specimen examined:—**SC**: Hinua Puna Village, *Watanabe et al.* 1784 (BSIP, MBK).

Distribution: Native to Indonesia, Micronesia, New Guinea, and Solomon Is.; widely cultivated in the tropics.

Broussonetia papyrifera (L.) L'Hér. ex Vent., *Tabl. Regn. Vég.* 3: 547 (1799).

Specimen examined:—**G**: Honiara, *Watanabe et al.* 1998 (BSIP, MBK).

Distribution: Bangladesh, Cambodia, China, India, Indonesia, Korea, Laos, Malaya, Myanmar, Taiwan, Thailand, Tibet, and Vietnam; introduced in Solomon Is.

Ficus septica Burm.f., *Fl. Indica*: 226 (1768).

Specimens examined:—**SC**: Kaonasuga Village, *Watanabe et al.* 1908 (BSIP, MBK, TNS); Rawo, E of Kirakira, *Tanaka et al.* 2336 (BSIP, MBK, TNS).

Distribution: Indonesia, Japan, Malaya, Papua New Guinea, the Philippines, and Taiwan; NE Australia, Solomon Is., and Vanuatu.

Ficus smithii Horne ex Baker in *J. Linn. Soc.*,

Bot. 20: 372 (1883).

Specimen examined:—**SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al.* 2164 (BSIP, MBK, TNS).

Distribution: Fiji, Solomon Is., and Vanuatu.

Ficus virgata Reinw. ex Blume, *Bijdr. Fl. Ned. Ind.*: 454 (1825)

Specimen examined:— **SC**: Magoha River, *Watanabe et al.* 1748 (BSIP, MBK, TNS).

Distribution: Indonesia, Japan, New Guinea, the Philippines, and Taiwan; Caroline Is., New Caledonia, Solomon Is., and Vanuatu.

MORINGACEAE

Moringa oleifera Lamk., *Encycl.* 1: 398 (1785).

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al.* 1890 (BSIP, MBK, TNS).

Distribution: Native to India and Pakistan; introduced in Solomon Is.

MUSACEAE

Musa maclayi F.Muell. ex Mikl.-Maclay in *Proc. Linn. Soc. New South Wales* 10: 355 (1885).

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al.* 2317 (BSIP, MBK).

Distribution: Bismarck Archipelago, New Guinea, and Solomon Is.

MYRISTICACEAE

Horsfieldia spicata (Roxb.) J.Sinclair in *Gard. Bull. Singapore* 28(1): 112 (1975).

Specimen examined:—**SC**: Tawaitara Village, *Watanabe et al.* 1778 (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku) and Solomon Is.

NYCTAGINACEAE

Boerhavia erecta L., *Sp. Pl.* 1: 3 (1753).

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al.* 1888 (BSIP, MBK, TNS).

Distribution: Native to tropical and subtropical America; introduced in Solomon Is.

OLEACEAE

Chionanthus hahlii (Rech.) Kiew in Blumea 43(2): 472 (1998).

Specimen examined:—**M**: Busurata Road, *Watanabe et al. 2122* (BSIP, MBK, TNS).

Distribution: Bismarck Archipelago, Samoa, and Solomon Is.

ONAGRACEAE

Ludwigia octovalvis (Jacq.) P.H.Raven in Kew Bull. 15: 476 (1962).

Specimen examined:—**SC**: Rawo, E of Kirakira, *Tanaka et al. 2357* (BSIP, MBK).

Distribution: Native to tropical and subtropical America; naturalized in Solomon Is.

ORCHIDACEAE

Bulbophyllum macranthum Lindl. in Edwards's Bot. Reg. 30: t. 13 (1844).

Specimen examined:—**M**: Kwalobara, *Tanaka 344* (TNS).

Distribution: Cambodia, India, Indonesia, Laos, Malaya, Myanmar, New Guinea, the Philippines, Solomon Is., Thailand, and Vietnam.

Corymborkis veratrifolia (Reinw.) Blume, Tab. Pl. Jav. Orchid. 125 (1825).

Specimens examined:—**PI**: *Watanabe et al. 1949* (BSIP, MBK, TNS). **SC**: Manganna Forest Reserve, *Tanaka et al. 2309* (BSIP, MBK, TNS).

Distribution: China, India, Sri Lanka, SE Asia; NE Australia and Pacific Islands.

Dendrobium capituliflorum Rolfe in Bull. Misc. Inform. Kew 1901: 146 (1901).

Specimen examined:—**M**: Busurata Road, *Tanaka et al. 387* (TNS).

Distribution: Bismarck Archipelago, New Guinea, and Solomon Is.

Dendrobium goldfinchii F.Muell. in S. Sci. Rec. 3: 4 (1883).

Specimens examined:—**PI**: *Watanabe et al. 1940* (BSIP, MBK, TNS). **SC**: Kaonasuga village, *Watanabe et al. 1892* (BSIP, MBK, TNS).

Distribution: Fiji, New Guinea, Samoa, Solo-

mon Is., and Vanuatu.

Dendrobium gouldii Rchb.f. in Gard. Chron. 1867: 901 (1867).

Specimens examined:—**SC**: Humdu area, *Watanabe et al. 1681* (BSIP, MBK, TNS). **TS**: Wai Nikishi village, Mosquito Bay, Malaupaina, *Watanabe et al. 1829* (BSIP, MBK, TNS); along the roadside between Kirakira to Kirakira Airport, *Tanaka 561* (TNS).

Distribution: Bismarck Archipelago, Solomon Is. and Vanuatu.

Note: Among above cited specimens, *Tanaka 561* is the white flower form of *D. gouldii*, which is quite common in San Cristobal Island (Fig. 4A). *Dendrobium imthurnii* Rolfe was described from the Solomon Islands (Rolfe, 1912), and presently synonymized of *D. gouldii*. The plant collected in this study matches the illustration of *D. imthurnii* Rolfe in the Curtis's Botanical Magazine (1912: t. 8452).

Dendrobium hispidum A.Rich. in J.C.S. Dumont d'Urville, Voy. Astrolabe 2: 13 (1834).

Specimen examined:—**SC**: Dadahadi camp, *Tanaka et al. 2202* (BSIP, MBK, TNS).

Distribution: Fiji and Solomon Is.

Dendrobium platygastrium Rchb.f. in Otia Bot. Hamburg.: 55 (1878).

Specimen examined:—**M**: Busurata Road, *Watanabe et al. 2109* (BSIP, MBK, TNS).

Distribution: Bismarck Archipelago, Fiji, New Caledonia, New Guinea, Solomon Is., Tonga, Vanuatu, and Wallis-Futuna Is.

Dendrobium spectabile (Blume) Miq., Fl. Ned. Ind. 3: 645 (1859).

Specimen examined:—**M**: Auki, *Tanaka 302* (TNS).

Distribution: New Caledonia, New Guinea, Solomon Is., and Vanuatu.

Grammatophyllum pantherinum Rchb.f. in Gard. Chron. n.s., 9: 788 (1878). —*Grammatophyllum papuanum* J.J.Sm. [Fig. 2D]

Specimens examined:—**M**: Mawa, *Watanabe et al. 2045* (BSIP, MBK, TNS). **SC**: Manibena village-Manifuki, *Watanabe et al. 1737* (BSIP, MBK, TNS).

Distribution: Indonesia (Borneo, Maluku), Papua



Fig. 4. Noteworthy species. A. A white form of *Dendrobium gouldii* Rchb.f. B. *Nervilia* sp. having pubescent leaf photographed in San Cristobal Island.

New Guinea, and Solomon Is.

Note: Based on the molecular identification using nuclear ribosomal ITS sequence data, Yukawa *et al.* (2013) recognized *Grammatophyllum pantherinum* as a distinct species from the *G. speciosum* complex. Hancock and Henderson (1988) listed *Grammatophyllum papuanum* in their flora book, which is a synonym under *G. pantherinum* (Yukawa *et al.*, 2013).

Grammatophyllum scriptum (L.) Blume var. **boweri** (F. Muell) Schltr. in Repert. Spec. Nov. Regni Veg. Beih. 1: 951 (1914).

Specimens examined:—**M**: Auki-Dallar, Watanabe *et al.* 2045 (BSIP, MBK, TNS). **SC**: Kaonasa Village, Watanabe *et al.* 1899 (BSIP, MBK).

Distribution: New Guinea and Solomon Is.

Liparis condylobulbon Rchb.f. in Hamb. Gartenz. xviii.: 34 (1862).

Specimen examined:—**M**: Mamalade village, Watanabe *et al.* 2097 (BSIP, MBK, TNS).

Distribution: Taiwan and Indo-China to SW Pacific.

Nervilia concolor (Blume) Schltr. in Bot. Jahrb. Syst. 45(3): 404 (1911). —*Nervilia aragoana* Gaudich.

Specimen examined:—**TS**: Wai Nikishi village, Mosquito Bay, Malaupaina, Watanabe *et al.* 1846 (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics to Pacific Islands.

Nervilia sp.

Voucher:—**SC**: Manganna Forest Reserve [photographic record only, which is mounted on the sheet (TNS-01322316) (Fig. 4B)].

Note: Lewis and Cribb (1991) recorded a single species, *Nervilia aragoana* (presently accepted as *N. concolor*) from the Solomon Islands. We collected another plant of *Nervilia* in the Pio Island, and it is apparently different species from *N. concolor* by having hairy leaves. Unfortunately, as it was sterile material, the species could not be identified.

Phreatia micrantha (A.Rich.) Lindl. in J. Proc. Linn. Soc., Bot. 3: 212, 61 (1859).

Specimen examined:—**M**: West Kwaoi, along Kwaifala River, *Tanaka 806* (TNS).

Distribution: Indonesia (Maluku); NE Australia, Fiji, Micronesia, New Caledonia, Papua New Guinea, and Pacific Islands.

Rhinerrhiza moorei (Rchb.f.) M.A.Clem., B.Wallace & D.L.Jones in Austral. Orchid Res. 1: 128 (1989).

Specimen examined:—**SC**: *Tanaka 20110868* (TNS).

Distribution: New Guinea, Solomon Is. and Australia.

Spathoglottis pacifica Rchb.f. in B.Seemann, Fl. Vit.: 300 (1868).

Specimens examined:—**M**: Mamalade village, *Watanabe et al. 2096* (BSIP, MBK); Kunu Gwagwa village-old Auki City, *Watanabe et al. 2140* (BSIP, MBK, TNS).

Distribution: Fiji, Samoa, Solomon Is., Tonga, Vanuatu, and Wallis-Futuna Is.

Thrixspermum platystachys (F.M.Bailey) Schltr. in Orchis 5: 55 (1911).

Specimen examined:—**M**: Busurata Road, *Watanabe et al. 2110* (BSIP, MBK, TNS).

Distribution: New Guinea, NE Australia, and Solomon Is.

Vrydagzynea salomonensis Schltr. in K.M.Schumann & C.A.G.Lauterbach, Fl. Schutzgeb. Südsee, Nachtr.: 86 (1905).

Specimen examined:—**M**: Busurata Road, *Tanaka 396* (TNS).

Distribution: Solomon Is. and Vanuatu.

OXALIDACEAE

Averrhoa carambola L., Sp. Pl. 1: 428 (1753).

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2282* (BSIP, MBK, TNS).

Distribution: Native to Indonesia; cultivated in Solomon Is.

PANDANACEAE

Pandanus polycephalus Lam., Encycl. 1: 372 (1785).

Specimen examined:—**SC**: Garapusi Sand Beach, *Watanabe et al. 1871* (BSIP, MBK, TNS).

Distribution: French Polynesia (Caroline Is.), Indonesia, Malaya, Papua New Guinea, the Philippines, and Solomon Is.

Pandanus tectorius Parkinson & Du Roi in Naturforscher (Halle) 4: 250 (1774).

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2267* (BSIP, MBK, TNS).

Distribution: Indonesia, Philippines, New Guinea; NE Australia and Pacific Is.

PASSIFLORACEAE

Passiflora foetida L., Sp. Pl. 2: 959 (1753).

Specimen examined:—**SC**: Dadahadi camp, *Tanaka et al. 2194* (BSIP, MBK).

Distribution: Native to tropical and subtropical America.

PHYLLANTHACEAE

Bischofia javanica Blume, Bijdr. Fl. Ned. Ind.: 1168 (1827).

Specimen examined:—**SC**: Rawo, E of Kirakira, *Tanaka et al. 2333* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics to Pacific Islands.

Bridelia insulana Hance in J. Bot. 15: 337 (1877).

Specimen examined:—**TS**: Malaupaina, *Watanabe et al. 1913* (BSIP, MBK, TNS).

Distribution: SE Asia; French Polynesia (Caroline Is.), Solomon Is., and Vanuatu.

Phyllanthus lanceilimbus (Merr.) Merr. in Philipp. J. Sci. 30: 402 (1926). —*Glochidion lanceilimbus* Merr.

Specimen examined:—**SC**: Kaonasuga village, *Watanabe et al. 1914* (BSIP, MBK, TNS).

Distribution: Indonesia, Papua New Guinea and the Philippines; NE Australia and Solomon Is.

Phyllanthus malesianus Govaerts in Skvortsovia 4(3): 95 (2018). —*Glochidion angulatum* C.B.Rob.

Specimen examined:—**M**: West Kwaoi, *Gale*

et al. 24 (BSIP, MBK).

Distribution: Indonesia, the Philippines, Papua New Guinea, and Solomon Is.

PIPERACEAE

Peperomia pellucida (L.) Kunth, Nov. Gen. Sp. 1: 64 (1816).

Specimens examined:—**M**: Ferabu village, *Watanabe et al.* 2028 (BSIP, MBK, TNS). **SC**: Manganna Forest Reserve, *Tanaka et al.* 2304 (BSIP, MBK, TNS).

Distribution: Native to tropical and subtropical America and Africa; introduced in Solomon Is.

Piper bosnicanum C.DC. in L.S.Gibbs, Fl. Arfak Mts.: 207 (1917).

Specimen examined:—**G**: Honiara, *Tanaka & Hayami* 2379 (BSIP, MBK, TNS).

Distribution: New Guinea and Solomon Is.

Piper celtidiforme Opiz in C.B.Presl, Reliq. Haenk. 1: 152 (1828).

Specimen examined:—**SC**: Rawo, E of Kirakira, *Tanaka et al.* 2370 (BSIP, MBK, TNS).

Distribution: New Guinea, the Philippines, and Solomon Is.

Note: According to Gardner (2010), the leaves on the fertile shoots of *P. celtidiforme* are seldom more than 10 cm wide and have a truncate, unequal base, the two sides of the blade being offset by several millimeters. *Tanaka et al.* 2370 matches these characters well.

Piper macropiper Pennant, Outlin. Glob. 4: 242 (1800).

Specimen examined:—**M**: Auki, *Watanabe et al.* 2003 (BSIP, MBK).

Distribution: Indonesia, Malaysia, New Guinea, Philippines and Taiwan; NE Australia and Pacific Islands.

Piper sclerophloeum C.DC. in Denkschr. Kaiserl. Akad. Wiss., Wien. Math.-Naturwiss. Kl. 89: 530 (1914).

Specimens examined:—**SC**: Manifuki, *Watanabe et al.* 1742 (BSIP, MBK, TNS); between Kirakira to Kirakira Airport, *Tanaka et al.* 2257 (BSIP, MBK, TNS).

Distribution: Endemic to Solomon Is.

PLANTAGINACEAE

Mecardonia procumbens (Mill.) Small, Fl. S.E. U.S.: 1065 (1903). —*Bacopa procumbens* (Mill.) Greenm.

Specimen examined:—**SC**: between Kirakira to Kirakira Airport, *Tanaka et al.* 2257 (BSIP, MBK).

Distribution: Tropical and subtropical America; introduced in Solomon Is.

Note: Chiou *et al.* (2016) noted this species as *Mecardonia* sp. with its photography in the field guide. This publication records this species for the first time from the Solomon Islands.

POACEAE

Cenchrus echinatus L., Sp. Pl. 2: 1050 (1753).

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al.* 1891 (BSIP, MBK, TNS).

Distribution: S USA, tropical and subtropical America; naturalized in Solomon Is.

Cenchrus purpureus (Schumach.) Morrone in Ann. Bot. (Oxford) 106: 129 (2010). —*Pennisetum purpureum* Schumach.

Specimen examined:—**SC**: Kirakira Central Road, *Watanabe et al.* 1858 (BSIP, MBK, TNS).

Distribution: Native to Africa; naturalized in Solomon Is.

Coix lacryma-jobi L., Sp. Pl. 2: 972 (1753).

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al.* 1922 (BSIP, MBK).

Distribution: Bangladesh, Cambodia, China, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, the Philippines, Sri Lanka, Taiwan, Thailand, Tibet, and Vietnam; naturalized in Solomon Is.

Echinochloa crus-galli (L.) P.Beauv., Ess. Agrostogr.: 53 (1822).

Specimen examined:—**M**: Busurata Road, *Watanabe et al.* 2119 (BSIP, MBK, TNS).

Distribution: Warm-temperate and subtropical regions in the world.

Ischaemum muticum L., Sp. Pl. 2: 1049 (1753).

Specimen examined:—**M**: Atori Road, *Watanabe et al.* 2024 (BSIP, MBK, TNS).

Distribution: Asian tropics, Japan; New Caledonia, NE Australia, Solomon Is., and Vanuatu.

Miscanthus floridulus (Labill.) Warb. ex K. Schum. & Lauterb., Fl. Schutzgeb. Südsee: 166 (1900)

Specimen examined:—**SC**: Rawo, east of Kirakira, *Tanaka et al.* 2343 (BSIP, MBK, TNS).

Distribution: Indo-China to Pacific Islands.

Oplismenus undulatifolius (Ard.) P.Beauv., Ess. Agrostogr.: 54 (1812).

Specimen examined:—**SC**: Mt. Ianwarango, SW of Kirakira, *Tanaka et al.* 2222 (BSIP, MBK).

Distribution: S Europe; Africa; W. Indian Ocean; China to Japan, and tropical Asia; E Australia and Solomon Is.

Polytoca macrophylla Benth. in J. Linn. Soc. Bot. 19: 52 (1881). —*Chionachne macrophylla* (Benth.) Clayton

Specimen examined:—**M**: Alafe Village, Fulisago Road, 77 m alt., *Tanaka 0074* (TNS).

Distribution: Bismarck Archipelago, Indonesia (Maluku), New Guinea, and Solomon Is.

Stenotaphrum micranthum (Desv.) C.E.Hubb. in C.E.Hubbard & R.E.Vaughan, Grasses Mauritius: 73 (1940).

Specimen examined:—**SC**: Kaonasuga Village, *Watanabe et al.* 1915 (BSIP, MBK, TNS).

Distribution: E Africa, Madagascar; Indonesia; New Guinea and Pacific Islands.

POLYGALACEAE

Polygala paniculata L., Syst. Nat. ed. 10, 2: 1154 (1759).

Specimens examined:—**M**: Kwalobara, *Watanabe & Tofu 1607* (BSIP, MBK, TNS). **SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al.* 1720 (BSIP, MBK, TNS); Dadahadi camp, *Tanaka et al.* 2191 (BSIP, MBK, TNS).

Distribution: Native to Mexico to tropical America; naturalized in Solomon Is.

POLYGONACEAE

Persicaria barbata (L.) H.Hara, Fl. E. Himal.: 70 (1966).

Specimen examined:—**SC**: Rawo, E of Kirakira, *Tanaka et al.* 2351 (BSIP, MBK).

Distribution: W Asia; Bhutan, China, India, Indonesia, Malaysia, Myanmar, Nepal, New Guinea, the Philippines, Sri Lanka, Solomon Is., Thailand, and Vietnam

Note: This has been recorded from Arabian Peninsula, through India, China (type) to Papua New Guinea. This is the first record from Solomon Is. It is considered this record is the eastern edge of the natural distribution of this species.

PRIMULACEAE

Discocalyx latepetiolata (Mez) Sleumer in Blumea 33: 85 (1988). [Fig. 3C]

Specimen examined:—**TS**: Wai Nikishi village, Mosquito Bay, Malaupaina, *Watanabe et al.* 1842 (BSIP, MBK, TNS).

Distribution: New Guinea and Solomon Is.

Note: This is the first record from the Solomon Islands.

Maesa edulis C.T.White in J. Arnold Arbor. 31: 103 (1950).

Specimens examined:—**SC**: Magoha River, *Watanabe et al.* 1730 (BSIP, MBK, TNS); Mt. Ianwarango, SW of Kirakira, *Tanaka et al.* 2209 (BSIP, MBK, TNS). **TS**: Wai Nikishi Village, Mosquito Bay, Malaupaina, *Watanabe et al.* 1835 (BSIP, MBK, TNS).

Distribution: New Guinea and Solomon Is.

Myrsine lessertiana A.DC. in Ann. Sci. Nat., Bot., sér. 2, 16: 85 (1841).

Specimen examined:—**PI**: *Watanabe et al.* 1941 (BSIP, MBK, TNS).

Distribution: Hawaii and Solomon Is.

RANUNCULACEAE

Clematis papuasica Merr. & L.M.Perry in J. Arnold Arbor. 24: 34 (1943).

Specimen examined:—**SC**: Hinua Puna vil-

lage, *Watanabe et al. 1770* (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku); New Guinea and Solomon Is.

RHIZOPHORACEAE

Carallia brachiata (Lour.) Merr. in *Philipp. J. Sci.* 15: 249 (1919).

Specimen examined:—**G**: Honiara, *Watanabe et al. 1670* (BSIP, MBK, TNS).

Distribution: Bhutan, Cambodia, China, India, Indonesia, Laos, Malaysia, Myanmar, Nepal, the Philippines, Sri Lanka, Thailand, and Vietnam; N Australia and Pacific islands; Madagascar.

ROSACEAE

Rubus moluccanus L., *Sp. Pl.* 2: 1197 (1753).

Specimen examined:—**M**: Busurata Road, *Watanabe et al. 2111* (BSIP, MBK, TNS).

Distribution: Tropical Asia to E Australia.

RUBIACEAE

Eumachia leptothyrsa (Miq.) Barrabé, C.M.Taylor & Razafim. in *Candollea* 72: 311 (2017). —*Psychotria beccarii* (K.Schum.) K.Schum.

Specimen examined:—**SC**: Mt. Ianwarango, *Tanaka et al. 2232* (BSIP, MBK, TNS).

Distribution: Indonesia, Papua New Guinea, the Philippines and Solomon Is.

Exallage auricularia (L.) Bremek. in *Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Sect. 2*, 48(2): 142 (1952).

Specimens examined:—**M**: Auki, *Watanabe et al. 2001* (BSIP, MBK, TNS); along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2201* (BSIP, MBK, TNS). **SC**: Manifuki Village to Airport, *Watanabe et al. 1754* (BSIP, MBK, TNS); Hinua Puna Village, *Watanabe et al. 1763* (BSIP, MBK, TNS).

Distribution: Bangladesh, China, India, Indonesia, Malaya, Myanmar, Nepal, the Philippines, Sri Lanka, Thailand, and Vietnam; Solomon Is.

Gardenia vernicosa Merr. & L.M.Perry in *J. Arnold Arbor.* 25: 204 (1944).

Specimen examined:—**SC**: Hinua Puna Village, *Watanabe et al. 1769* (BSIP, MBK, TNS).

Distribution: Endemic to Solomon Is.

Guettarda speciosa L., *Sp. Pl.* 2: 991 (1753).

Specimen examined:—**TS**: Malaupaina, *Watanabe et al. 1934* (BSIP, MBK, TNS).

Distribution: Africa, tropical and subtropical Asia to Pacific Islands.

Hydnophytum formicarum Jack in *Trans. Linn. Soc. London* 14: 124 (1823).

Specimens examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Watanabe et al. 1680* (BSIP, MBK, TNS); along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2170* (BSIP, MBK, TNS); Tawaitara Village, *Watanabe et al. 2279* (BSIP, MBK, TNS).

Distribution: Cambodia, Indonesia, Malaysia, Myanmar, New Guinea, the Philippines, Solomon Is., Thailand, and Vietnam.

Leptopetalum biflorum (L.) Neupane & N.Wikstr. in *Taxon* 64: 317 (2015). —*Hedyotis biflora* (L.) Lam.

Specimen examined:—**SC**: Humdu aera, *Watanabe et al. 1680, 1685* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics to Pacific Islands.

Note: Ohi-Toma *et al.* (2020) indicated that *L. biflorum* is not monophyletic. The plants in the Solomon Islands may be treated as a different species in the future.

Leptopetalum strigulosum (DC.) Neupane & N.Wikstr. in *Taxon* 64: 317 (2015). —*Hedyotis strigulosa* (DC.) Fosberg

Specimen examined:—**SC**: *Akai et al. 11695* (BSIP, Okinawa Churashima Foundation).

Distribution: Pacific Islands.

Note: Ohi-Toma *et al.* (2020) updated a phylogenetic relationship of *Leptopetalum*, which involved this material, and it was suggested that *L. strigulosum* was distributed widely in the Pacific Islands and not in SE Asia. The plant in the Solomon Islands should be attributed to *L. strigulosum*.

Morinda citrifolia L., *Sp. Pl.* 1: 176 (1753).

Specimens examined:—**SC**: Humdu area,

Watanabe et al. 1688 (BSIP, MBK, TNS); Tawaitara village, *Watanabe et al. 1783* (BSIP, MBK, TNS). **TS**: Suutata-a village, Mosquito Bay, Malaupaina, *Watanabe et al. 1799* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics to Pacific Islands, and Australia.

Mussaenda cylindrocarpa Burck in Ann. Jard. Bot. Buitenzorg 3: 112 (1883).

Specimen examined:—**M**: Atori Road, *Watanabe et al. 2019* (BSIP, MBK, TNS).

Distribution: Bismarck Archipelago, New Guinea, Solomon Is., and Vanuatu.

Oldenlandia corymbosa L., Sp. Pl. 1: 119 (1753). — *Hedyotis corymbosa* (L.) Lam.

Specimen examined:—**SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2236* (BSIP, MBK, TNS).

Distribution: Old World tropics and subtropics. **Psychotria waimamurensis** Merr. & L.M.Perry in J. Arnold Arbor. 27: 216 (1946).

Specimens examined:—**SC**: Mt. Ianwarango, *Tanaka et al. 2218* (BSIP, MBK, TNS). **TS**: Wai Nikishi village, Mosquito Bay, Malaupaina, *Watanabe et al. 1837* (BSIP, MBK, TNS).

Distribution: Endemic to Solomon Is.

Timonius timon (Spreng.) Merr. in J. Arnold Arbor. 18: 131 (1937).

Specimen examined:—**M**: Duku Ashi Road, *Watanabe et al. 2007* (BSIP, MBK, TNS).

Distribution: Indonesia, Papua New Guinea; Australia, and Solomon Is.

Uncaria acida (W.Hunter) Roxb., Fl. Ind. 2: 129 (1824).

Specimens examined:—**M**: Ferabu Village, *Watanabe et al. 2035* (BSIP, MBK, TNS). **SC**: Along the logging road, from Dadahadi camp to the south, *Tanaka et al. 2166* (BSIP, MBK, TNS).

Distribution: Bangladesh, Indonesia, Malaysia, Myanmar, New Guinea, the Philippines, Solomon Is., and Vietnam.

RUTACEAE

Euodia hortensis J.R.Forst. & G.Forst., Char. Gen. Pl.: 14 (1776).

Specimen examined:—**SC**: Along the roadside between Kirakira to Kirakira Airport, *Tanaka et al. 2274* (BSIP, MBK, TNS).

Distribution: Bismarck Archipelago, New Guinea, Solomon Is., and Vanuatu.

Melicope elleryana (F.Muell.) T.G.Hartley in Telopea 4: 34 (1990). — *Euodia altissima* E. G. Baker

Specimen examined:—**TS**: Suutata-a village, Malaupaina, *Watanabe et al. 1811* (BSIP, MBK, TNS).

Distribution: New Guinea, NW Australia and Solomon Is.

SAPINDACEAE

Allophylus cobbe (L.) Forsyth f., Bot. Nomencl.: 226 (1794).

Specimen examined:—**SC**: Kaonasuga village, *Watanabe et al. 1905* (BSIP, MBK).

Distribution: Bangladesh, Cambodia, India, Laos, Malaysia, Myanmar, the Philippines, Solomon Is., Sri Lanka, and Vietnam.

Dodonaea viscosa Jacq., Enum. Syst. Pl.: 19 (1760).

Specimen examined:—**TS**: Wai Nikishi Village, Mosquito Bay, Malaupaina, *Watanabe et al. 1834* (BSIP, MBK).

Distribution: Widely distributed in world tropics.

Planchonella thyrsoidea C.T.White in J. Arnold Arbor. 31: 109 (1950).

Specimen examined:—**M**: Auki, *Watanabe et al. 2144* (BSIP, MBK, TNS).

Distribution: Bismarck Archipelago, New Guinea, and Solomon Is.

Pometia pinnata J.R.Forst. & G.Forst., Char. Gen. Pl.: 110 (1776).

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1710* (BSIP, MBK, TNS).

Distribution: SE Asia to Pacific Islands.

SIMAROUBACEAE

Soulamea amara Lam., Encycl. 1: 449 (1785).

Specimen examined:—**TS**: Wai Nikishi Village, Mosquito Bay, Malaupaina, *Watanabe et al.* 1834 (BSIP, MBK, TNS).

Distribution: New Guinea, Solomon Is., and Vanuatu.

SMILACACEAE

Smilax vitiensis (Seem.) A.DC. in A.DC. & C.DC, Monogr. Phan. 1: 204 (1878). [Fig. 3D]

Specimen examined:—**M**: Mawa, *Watanabe et al.* 2063 (BSIP, MBK, TNS).

Distribution: Fiji, Solomon Is., Tonga, and Vanuatu.

Note: Thus far *Smilax vitiensis* has been known from Fiji, Tonga and Vanuatu. This is the first record from the Solomon Islands.

SOLANACEAE

Physalis angulata L., Sp. Pl. 1: 183 (1753).

Specimens examined:—**SC**: Manibena Village, *Watanabe et al.* 1749 (BSIP, MBK, TNS); along the logging road, from Dadahadi camp to the south, *Tanaka et al.* 2142 (BSIP, MBK, TNS).

Distribution: Native to tropical and subtropical America.

STEMONURACEAE

Gomphandra montana (G.Schellenb.) Sleumer in Notizbl. Bot. Gart. Berlin-Dahlem 15: 238 (1940).

Specimen examined:—**M**: Busurata Road, *Watanabe et al.* 2123 (BSIP, MBK, TNS).

Distribution: Bismarck Archipelago, New Guinea, and Solomon Is.

TACCACEAE

Tacca leontopetaloides (L.) Kuntze, Revis. Gen. Pl. 2: 704 (1891).

Specimens examined:—**PI**: *Watanabe et al.* 1929 (BSIP, MBK, TNS). **TS**: Wai Nikishi village, Malaupaina, *Watanabe et al.* 1844 (BSIP, MBK, TNS).

Distribution: Old world tropics and Pacific Islands.

ULMACEAE

Gironniera celtidifolia Gaudich., Voy. Bonite, Bot. 3: t. 85 (1844).

Specimens examined:—**M**: Ferabu Village, *Watanabe et al.* 2372 (BSIP, MBK, TNS). **SC**: Rawo, E of Kirakira, *Watanabe et al.* 1844 (BSIP, MBK, TNS); Mt. Ianwarango, *Tanaka et al.* 2216 (BSIP, MBK, TNS).

Distribution: Fiji, Indonesia, Kiribati, Papua New Guinea, the Philippines, Samoa, and Solomon Is.

URTICACEAE

Pilea microphylla (L.) Liebm. in Kongel. Danske Vidensk. Selsk. Skr., Naturvidensk. Math. Afd. ser. 5, 2: 296, 302 (1851).

Specimen examined:—**SC**: Garapusi Sand Beach, *Watanabe et al.* 1803 (BSIP, MBK, TNS).

Distribution: S USA to South America; naturalized in Solomon Is.

Pipturus argenteus (G.Forst.) Wedd. in A.DC, Prodr. 16(1): 235(19) (1869).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al.* 1713 (BSIP, MBK, TNS); along the Kirakira Central Road, *Watanabe et al.* 1862 (BSIP, MBK, TNS); Mt. Ianwarango, *Tanaka et al.* 2207 (BSIP, MBK); along the roadside between Kirakira to Kira Kira Airport, *Tanaka et al.* 2280 (BSIP, MBK, TNS). **TS**: Suutata-a Village, Mosquito Bay, Malaupaina, *Watanabe et al.* 1803 (BSIP, MBK); loc. sit., *Watanabe et al.* 1809 (BSIP, MBK, TNS).

Distribution: Andaman Is. to Pacific Is.

Leucosyke capitellata (Poir.) Wedd. in A.DC, Prodr. 16(1): 235(27) (1869).

Specimen examined:—**SC**: Dadahadi camp, *Tanaka et al.* 2196 (BSIP, MBK, TNS).

Distribution: Indonesia (Lesser Sunda), New Guinea, Solomon Is., and Vanuatu.

VITACEAE

Causonis trifolia (L.) Mabb. & J.Wen in Maberley's Pl.-Book, ed. 4: 1101 (2017). —*Cissus trifolia* (L.) Schumm

Specimen examined:—**SC**: Rawo, E of Kirakira, *Tanaka et al. 2196* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics to New Caledonia and Australia.

Cissus aristata Blume, Bijdr. Fl. Ned. Ind.: 183 (1825).

Specimen examined:—**M**: Atori Road, *Watanabe et al. 2026* (BSIP, MBK, TNS).

Distribution: Bangladesh, China, India, Indonesia, Malaysia, Myanmar, New Guinea, the Philippines, Sri Lanka, Thailand, and Vietnam; NE Australia and Solomon Is.

Leea indica (Burm.f.) Merr. in Philipp. J. Sci. 14: 245 (1919).

Specimen examined:—**M**: Kwaifala River, *Watanabe et al. 2079* (BSIP, MBK, TNS).

Distribution: Asian tropics and subtropics.

Leea guineensis G.Don, Gen. Hist. 1: 712 (1831).

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1716* (BSIP, MBK, TNS).

Distribution: Old world tropics and subtropics.

ZINIGIBERACEAE

Alpinia pulchra (Warb.) K.Schum. in Engler (ed.), Pflanzenr., IV, 46: 348 (1904).

Specimen examined:—**SC**: Mt. Ianwarango, *Tanaka et al. 2227* (BSIP, MBK, TNS).

Distribution: Papua New Guinea and Solomon Is.

Alpinia purpurata (Vieill.) K.Schum. in Engler (ed.), Pflanzenr., IV, 46: 323 (1904).

Specimens examined:—**SC**: Hinua Puna Village, *Watanabe et al. 1775* (BSIP, MBK, TNS); Tawaitara Village, *Watanabe et al. 1781* (BSIP, MBK, TNS).

Distribution: Maluku, New Caledonia, Papua New Guinea, Solomon Is., and Vanuatu.

Alpinia oceanica Burkill in Proc. Cambridge Philos. Soc. 9(2): 93 (1896).

Specimens examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1719* (BSIP, MBK, TNS); loc. cit., *Watanabe et al. 1725* (BSIP, MBK, TNS).

Distribution: Bismarck Archipelago and Solomon Is.

Alpinia zerumbet (Pers.) B.L.Burt & R.M.Sm. in Notes Roy. Bot. Gard. Edinburgh 31: 204 (1972).

Voucher:—**SC**: Manganna Forest Reserve [photographic record only, which is mounted on the sheet (TNS-01322315) (Fig. 3E)].

Distribution: Native to China, Japan to Malay Peninsula.

Note: *Alpinia zerumbet* has been already introduced to Fiji and New Caledonia. Probably this is introduced to the Solomon Islands, and escaped, which is the first record from Solomon Is.

Curcuma longa L., Sp. Pl.: 2 (1753).

Specimen examined:—**SC**: Manganna Forest Reserve, *Tanaka et al. 2323* (BSIP, MBK, TNS).

Distribution: Native to India; cultivated and sometimes escaped in Solomon Is.

Hedychium coronarium J.Koenig in A.J.Retzius, Observ. Bot. 3: 73 (1783).

Specimen examined:—**SC**: Forestry Branch Office of Kirakira to Hagataro Ridge Top, *Watanabe et al. 1724* (BSIP, MBK, TNS).

Distribution: Native to China, India, Myanmar, Nepal, Taiwan, Thailand, and Vietnam; cultivated and escaped in Solomon Islands.

Hornstedtia scottiana (F.Muell.) K.Schum. in Engler (ed.), Pflanzenr., IV, 46: 194 (1904).

Specimen examined:—**SC**: Mt. Ianwarango, *Tanaka et al. 2229* (BSIP, MBK, TNS).

Distribution: Indonesia (Maluku) to Vanuatu and NE Australia.

Pleuranthodium cf. **peekelii** (Valeton) R.M.Sm. in Edinburgh J. Bot. 48: 68 (1991).

Specimens examined:—**SC**: Magoha River, *Watanabe et al. 1732* (BSIP, MBK, TNS); Hinua Puna Village, *Watanabe et al. 1772* (BSIP, MBK, TNS); Kaonasuga village, *Watanabe et al. 1906* (BSIP, MBK).

Note: This *Pleuranthodium* plant is similar to

P. peekelii, distributed in Bismarck Archipelago, but has orange flowers and fruits. It is also unusual that anther does not protrude. Further materials are required for its rigorous identification.

Zingiber officinale Roscoe in Trans. Linn. Soc. London 8: 348 (1807).

Specimen examined:—SC: Mt. Ianwarango, Tanaka *et al.* 2228 (BSIP, MBK, TNS).

Distribution: Native to China, Himalaya and India; cultivated and escaped in Solomon Is.

Zingiber zerumbet (L.) Roscoe ex Sm. in Exot. Bot. 2: 105 (1806).

Specimen examined:—SC: Rawo, Tanaka *et al.* 2369 (BSIP, MBK, TNS).

Distribution: Native to Bangladesh, Cambodia, China, India, Laos, Malaysia, Myanmar, the Philippines, Taiwan, Thailand, and Vietnam; cultivated and escaped in Solomon Islands.

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References

- CBOL Plant Working Group. 2009. A DNA barcode for land plants. *Proceedings of the National Academy of Sciences of the United States of America* 106: 12794–12797.
- Chen, C. W., Perrier, L., Glenney, D. and Chiou, W. L. 2017. Sol amazing: lycophytes and ferns of the Solomon Islands. National Museum of Natural Science, Taichung.
- Chiou, W.-L., Hu, J.-M., Chen, C.-H., Chen, C.-F., Huang, H.-C. and Aleck Yang, T. Y. (ed.). 2016. *Field Guide to the Plants of Solomon Islands*. The National Museum of Natural Science, Taiwan.
- Gardner, R. O. 2010. *Piper* (Piperaceae) in the Solomon Islands: the climbing species *Blumea* 55: 4–13.
- Hancock, I. R. and Henderson, C. P. 1988. *Flora of the Solomon Islands*. Research Bulletin no.7, Dodo Creek Research Station, Ministry of Agriculture and Land.
- Hassler, M. 2019. *World Plants: Synonymic Checklists of the Vascular Plants of the World* (version November 2018). In: *Species 2000 & ITIS Catalogue of Life, 2019 Annual Checklist* (Roskov, Y., Ower, G., Orrell, T., Nicolson, D., Bailly, N., Kirk, P. M., Bourgoin, T., DeWalt, R. E., Decock, W., Nieukerken, E. van, Zarucchi, J. and Penev, L., eds.). *Species 2000: Naturalis, Leiden, the Netherlands*. <http://www.catalogueoflife.org/annual-checklist/2019> (Accessed: 14 August 2020).
- Hassler, M. 2020. *World Ferns: Checklist of Ferns and Lycophytes of the World* (version Nov 2018). In: *Species 2000 & ITIS Catalogue of Life, 2020-04-16 Beta* (Roskov, Y., Ower, G., Orrell, T., Nicolson, D., Bailly, N., Kirk, P. M., Bourgoin, T., DeWalt R. E., Decock, W., Nieukerken, E. van and Penev, L., eds.).
- Henderson, C. P. and Hancock, I. R. 1988. *A Guide on the Useful Plants of Solomon Islands*. Research Division, Ministry of Agriculture and Lands, Honiara, Solomon Islands.
- Hsu, T.-C., Aleck Yang, T.-Y., Pitisopa, F., Fanerii, M. and Li, C.-W. 2016. New Records and Name Changes for the Orchids in the Solomon Islands. *Taiwania* 61: 21–26.
- Hunt, P. F. 1969. Orchids of the Solomon Islands. *Philosophical Transactions of the Royal Society of London Series B, Biological Sciences* 255: 581–587.
- Kajewski, S. F. 1946. Plant collecting in the Solomon Islands. *Journal of the Arnold Arboretum* 27: 292–304.
- Lewis, B. A. and Cribb, P. J. 1991. Orchids of the Solo-

- mon Islands and Bougainville. Royal Botanic Gardens, Kew.
- Mill, R. R. and Whiting, M. 2012. *Podocarpus orarius* (Podocarpaceae), a new species from the Solomon Islands and a taxonomic clarification of *Podocarpus spathoides* from Malaysia. Gardens' Bulletin Singapore 64: 171–193.
- Mueller-Dombois, D. and Fosberg, F. R. 1998. Vegetation of the Tropical Pacific Islands. Springer-Verlag, New York.
- Ohi-Toma, T., Naiki, A., Waddell, S., Kato, H., Dang, V.-S. and Murata, J. 2020. An updated Phylogeny of *Leptopetalum* (Rubiaceae) and taxonomic treatment of herbaceous species in East Asia. Journal of Japanese Botany 95: 141–153.
- Ormerod, P. 2017. Checklist of Papuasian Orchids: 1–494. Nature & Travel Books, Australia.
- Rolfe, R. A. 1912. New orchids: Decade 38. Bulletin of Miscellaneous Information, Royal Gardens, Kew 1912(3): 131–135.
- Smith, A. C. 1991. Flora Vitiensis Nova: A New Flora of Fiji (vol. 5). National Tropical Botanical Garden, Kauai, Hawaii.
- Staples, G. W., Simoes, A. R. and Austin, D. F. 2020. A monograph of *Operculina* (Convolvulaceae). Annals of the Missouri Botanical Garden 105: 64–138.
- Szlachetko, D. L. and H. B. Margonska. 2000. New *Crepidium* (Orchidaceae, Malaxidinae) species from Solomon Islands and Bismarck Archipelago. Annales Botanici Fennici 37: 303–307.
- Thaman, R. R., Fosberg, F. R., Manner, H. I. and Hassall, D. C. 1994. The Flora of Nauru. Atoll Research Bulletin 392: 1–223.
- Thiers, B. 2016. Index Herbariorum: A Global Directory of Public Herbaria and Associated Staff. New York Botanical Garden's Virtual Herbarium. <http://sweetgum.nybg.org/science/ih/> (Accessed: 14 August 2020).
- Yukawa, T., Kinoshita, A. and Tanaka, N. 2013. Molecular identification resolves taxonomic confusion in *Grammatophyllum speciosum* Complex (Orchidaceae). Bulletin of the National Museum of Nature and Science, Series B 39: 137–145.
- Whitmore, T. C. 1966. Guide to the forests of the British Solomon Islands. Oxford University Press, Oxford.
- Whitmore, T. C. 1969. The Vegetation of the Solomon Islands. Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences 255: 259–270.
- Wu, Z. and Raven, P. H. (eds.) 1994–. Flora of China Vol. 1–25. Beijing and St. Louis, MO: Science Press and Missouri Botanical Garden.