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Additions to the Flora of the Manua Islands

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The following species of ferns are in addition to those listed in my paper on "Plants of the Manua Islands," published in 1945 as Bulletin 184 of Bishop Museum. The specimens cited have, in each case, been identified by W. R. Maxon and C. V. Morton of the United States National Herbarium and are deposited in the Bishop Museum herbarium. These additional species raise the number of pteridophytes known to occur in the islands to 63.

FAMILY MARATTIACEAE

Genus *Angiopteris* Hoffmann

Angiopteris evecta (Forster) Hoffmann, Comm. Soc. Reg. Gott. 12:29, pl. 5, 1796.

Ofu: stem about 30 cm. long; leaves 2-3 m. long. In thicket on slope back of Ofu village, alt. 25 m., Nov. 25, 1939, *Yuncker 9452*.

Angiopteris opaca Copeland, B. P. Bishop Mus., Bull. 59:8, 1929.

Tau: leaves 4-5 m. long, twice pinnate. In moist, shady ravine on slope about two miles south of the village of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9014*; in moist, shady ravine on slope one to two miles south of village of Siufaga, alt. 100 m., Sept. 27, 1939, *Yuncker 9079*.

FAMILY CYATHEACEAE

Genus **Cyathea** Smith

Cyathea lunulata (Forster) Copeland, B. P. Bishop Mus., Bull. 59: 37, 1929. [*sensu* C. Christensen.]

Tau: stem about 1.5 m. tall. In rocky, wet ravine on slope south of village of Siufaga, alt. 60 m., Sept. 25, 1939, *Yuncker 9010*.

Ofu: stems 2-2.5 m. tall; leaves 2-2.5 m. long, stipes with whitish bloom. In thicket on slope back of Ofu village, alt. 200 m., Nov. 25, 1939, *Yuncker 9475*; stems 4-5 m. tall; leaves to 3 m. long. Common on main ridge above 300 m. alt., Nov. 27, 1939, *Yuncker 9532*.

Cyathea Vaupelii Copeland, Philippine Jour. Sci., Bot. 6: 360, 1911.

Tau: leaves up to 1.5 m. long; stipes scaly at the base. In moist, rocky ravine on slope south of village of Siufaga, alt. 60 m., Sept. 25, 1939; stems 2 m. tall; leaves 1.5-2 m. long; stipes brown, scaly. In wet, shady ravine on slope south of village of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9015*.

FAMILY POLYPODIACEAE

Genus **Dryopteris** Adanson

Dryopteris Harveyi (Mettenius) O. Kuntze, Rev. Gen. 2: 812, 1891.

Tau: in damp, rocky soil, under light forest cover, hillside, alt. 210 m., Faleulu Valley, July 27, 1938, *Wray Harris 381*.

Ofu: abundant on rocks and in plantations on slope back of Ofu village, alt. 30 m., Nov. 25, 1939, *Yuncker 9483*.

Dryopteris invisa (Forster) O. Kuntze, Rev. Gen. 2: 813, 1891.

Tau: on moist, shady bank, along trail to village of Fitiuta, Sept. 26, 1939, *Yuncker 9038, 9039*.

Dryopteris subspinosa C. Christensen, Index Filicum, 296, 1905.

Tau: leaves up to 2 m. long. In moist, rocky ravine on slope about one mile south of the village of Siufaga, alt. 60 m., Sept. 26, 1939, *Yuncker 9020*.

Genus **Asplenium** Linnaeus

Asplenium falcatum Lamarck, *Encycl. Méth.* 2: 306, 1786.

Tau: Luma, cliffs east of dispensary, on lava boulders in medium-damp open forest, alt. 8-45 m., July 24, 1938, *Wray Harris* 39, 40, 349, 350, 387; in moist rocky ravine, slope south of village of Siufaga, Sept. 25, 1939, *Yuncker* 9003.

Ofu: on rocky cliff, slope back of Ofu village, alt. 60 m., Nov. 25, 1939, *Yuncker* 9481.

Genus **Pteris** Linnaeus

Pteris pacifica Hieronymus, *Hedwigia* 55: 355, 1914.

Tau: in damp, rocky soil, under light forest cover, alt. 210 m., Faleulu Valley, July 27, 1938, *Wray Harris* 382.

Ofu: on rocky cliff, slope back of Ofu village, alt. 60 m., Nov. 25, 1939, *Yuncker* 9480.

Genus **Davallia** Smith

Davallia plumosa Baker, *Jour. Bot.* 14: 10, 1876.

Tau: Luma, cliffs east of dispensary, on lava boulders in medium-damp, open forest, alt. 39 m., July 24, 1938, *Wray Harris* 43.

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