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# PLANTS OF THE MANUA ISLANDS

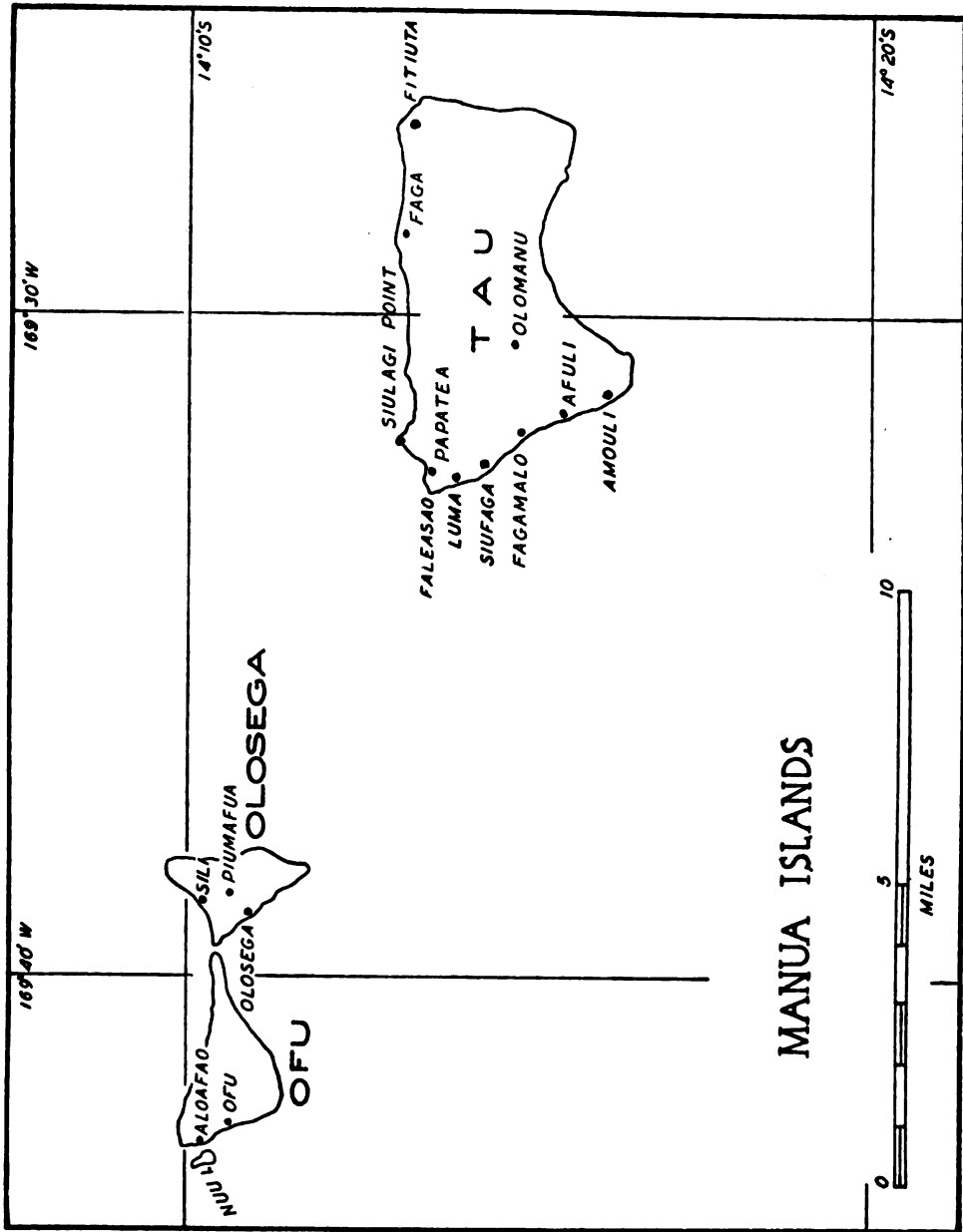
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# Plants of the Manua Islands

By T. G. YUNCKER

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## INTRODUCTION

The volcanic islands of Ofu, Olosega, and Tau are known collectively as Manua, now part of American (Eastern) Samoa. They are situated between 169 and 170 degrees west longitude and 14 and 15 degrees south latitude and are about 67 miles east of Pago Pago on the island of Tutuila. Tau, containing about 14 square miles, is the largest and attains an altitude of over 900 meters. It is more or less dome shaped with precipitous coasts on the northern and western sides. Ofu and Olosega, only a few miles distant, are rugged and picturesque and are separated from each other by a narrow and shallow strait.

The islands lie outside the regular trade routes and are rarely visited by ships other than occasional small trading vessels or those making official governmental visits. The only white persons residing there are a few connected with the United States Navy Department, which has jurisdiction over the islands, and occasional transient visitors. There are about 2,500 natives living on the three islands, who subsist principally on sea food, bananas, taro, breadfruit, and coconuts. Breadfruit trees grow in large numbers in and about every village. Taro, bananas, and coconuts are extensively cultivated in plantations. Tinned foods are also used to some extent, salmon being a favorite.

The original vegetation has now been exterminated to a large extent on the lowlands and lower hillsides to provide for coconut and banana plantations. It still persists, however, at the higher altitudes and in ravines and other areas too rough for cultivation. The vegetation in these regions, especially on Tau, is exceedingly dense and travel off the trails is difficult.

A number of botanists have made collections on the islands. Among the older collections are those made by Reinecke, Powell, Brackenridge, and McMullen. More recently, collections have been made by D. W. Garber, between 1921 and 1925; by Anna and Wray Harris, mostly during 1938; and by me. I spent several weeks on the islands of Tau and Ofu during October and November of 1939. Christophersen in his Flowering Plants of Samoa (B. P. Bishop Mus., Bulls. 128 and 154, 1935 and 1938) cites the collections made by Garber. Aside from this, no attempt at a complete listing of the plants has been made. The Garber and the Harris collections included in the present list, as well as most of the other scattered citations, are in the Bernice P. Bishop Museum herbarium and have been examined by me. I have not seen collections

made by earlier visitors to the islands. They are now mostly in European herbaria and, with a few exceptions, are not included. During the summer of 1939, Paul L. Guest of Honolulu made a survey of the economic trees of American Samoa, including those of Manua. His manuscript report in the Bishop Museum library is not, unfortunately, supported by herbarium materials. However, it has been checked against this list and his observations have been included wherever they extend the range or report a species overlooked by other botanists.

The present list includes 37 species of mosses, 53 species of pteridophytes, 95 species of monocotyledons, and 236 species of dicotyledons, or a total of 421 species. More careful botanizing, particularly at high altitudes on Tau, will probably bring to light several species hitherto overlooked.

The spelling of native names, obtained from natives or from the publications of Christophersen and of Setchell (*Vegetation of Tutuila Island*, Carnegie Inst., Pub. 20, 1924), have been checked by Dr. Peter H. Buck.

The islands were visited and the collections made while I was on an appointment as Bishop Museum Fellow in Yale University. I am deeply indebted to Dr. Peter H. Buck, Director of Bishop Museum, for placing the facilities of the Museum at my disposal and for assistance in arranging the itinerary; to Captain E. W. Hanson, then Governor of American Samoa, and the other officers and men of the United States Navy stationed in the islands for transportation to Manua from Pago Pago and for the many kindnesses and courtesies which were shown me while in Samoa; and to Chiefs Tufele and Lafite of Tau who placed a guest house at my disposal during my stay on the island and who assisted in my work in every way possible.

I am also indebted to a number of specialists who have cooperated in the identifications of the specimens and have contributed bibliographic data. Miss Marie Neal, botanist at Bishop Museum, assisted in the preliminary identification of much of the material and helped in making comparisons with specimens in the Museum herbarium; Mr. E. B. Bartram contributed the list of mosses; Dr. E. B. Copeland named the ferns, except those collected by Garber and Harris and identified by Dr. Carl Christensen; Dr. F. R. Fosberg identified a number of specimens, particularly those in the Rubiaceae and Ebenaceae, and in addition made a number of nomenclatorial suggestions; Mrs. Agnes Chase named the grasses; Dr. L. O. Williams identified the orchids; Mr. Hugh O'Neill identified the sedges; Dr. E. D. Merrill and Dr. A. C. Smith named a number of sterile or otherwise obscure specimens; Dr. Leon Croizat supplied the description of a new species of *Securinega*; and Dr. H. W. Rickett and Mr. C. V. Morton contributed nomenclatorial data. To all who have assisted in any way I wish to express my thanks.

## BRYOPHYTA

MUSCI<sup>1</sup>

This list of species from the Manua islands represents a substantial and interesting addition to the moss flora of Samoa. With two minor exceptions, the collections are all from the larger island of Tau and no doubt give a fairly complete outline of the mosses of this outlying region. At least nine species are new to Samoa, as far as I know; and four reductions to synonymy are proposed based on the information at hand.

One cannot fail to be impressed with the strong west to east course of geographical distribution shown in the list of species. This is especially true of *Calymperes*, a genus with marked insular tendencies, and may indicate a continuous land connection from Malaysia through Polynesia at no very remote period.

## FAMILY FISSIDENTACEAE

Genus *Fissidens* Hedwig

***Fissidens mangarevensis*** Montagne, Voy. au Pôle Sud, Crypt., 344, 1845.

Tau: on tree trunk in forest, alt. about 150 m., Oct. 1, 1939, *Yuncker 9154*; Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream on trunks of tree fern and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 54b*.

New to Samoa. Distribution: Mangareva, Austral Islands, Rapa, Fiji, Solomon Islands.

## FAMILY LEUCOBRYACEAE

Genus *Leucophanes* Hampe

***Leucophanes candidum*** (Hornschuch) Lindberg, Oefvers. Vet. Akad. Förh., 602, 1854.

Tau: north slope of Lepue, near summit of cone, under cover of forest, on lava boulder, one third mile from shore, alt. 285 m., *W. Harris 1759*.

Distribution: Ceylon, Malaysia, New Guinea, Philippines, Fiji.

***Leucophanes pungens*** Fleischer, unpublished manuscript.

Tau: Tunoa Peak, summit, ridge, medium damp, one eighth mile from shore, alt. 189 m., growing on dead logs in forest, *W. Harris*.

Distribution: Fiji.

Genus *Exodictyon* Cardot

***Exodictyon scabrum*** (Mitten) Cardot, Rev. Bryol., 7, 1899.

Tau: Faleulu draw, hillside, in native forest on living tree trunks, damp, 1 mile from shore, alt. 480 m., *W. Harris*.

<sup>1</sup> Contributed by Edwin B. Bartram.

**Exodictyon dentatum** (Mitten) Cardot, Rev. Bryol., 7, 1899.

Tau: Faleulu Valley, south of Muao's house, on damp dead wood, light forest, hillside, moderate slope, 0.75 mile to shore, alt. 210 m., *W. Harris 404*; Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of a dry stream, on trunks of tree ferns and other trees 1.5 miles from shore, alt. 270-300 m., *W. Harris 53*.

Distribution: Tahiti, New Hebrides, New Caledonia.

#### FAMILY CALYMPERACEAE

##### Genus *Calymperes* Swartz

**Calymperes hyophylaceum** C. Müller, in Besch. Essai Calymp. Sci. Nat., Ann. VIII, Bot. 1: 287, 1895.

Tau: Papatea, South Cove, lower edge of forest, steep hillside, crater rim, 5-30 feet from shore, alt. 1.5-6 m., growing on lower trunks of coconut tree and exposed foot of forest tree, *A. Harris 418*; Papatea, South Cove, on tuff at shore, under lower edge of strand forest, damp crater rim, steep hillside, 5-30 feet from shore, *A. Harris 464*; upper Luma plantation, east of pig fence, along Vaosa trail, plantation in amphitheater plateau, moderate slope, damp, 2-10 feet above ground on trunks of coconut and breadfruit trees, 0.75 mile from shore, alt. 90 m., *W. Harris 444a*.

New to Samoa. Distribution: Sumatra, Java, Philippines.

**Calymperes samoanum** Beschereille, Essai Calymp. Sci. Nat., Ann. VIII, Bot. 1: 302, 1895.

Tau: Judds Crater, northwest rim, on trunks and limbs of trees, in damp, rather open forest, 0.75 mile to shore, alt. 150 m., *W. Harris 413, 414*; on coconut tree, alt. 250-300 m., *Yuncker 9243*.

Endemic.

**Calymperes strictifolium** (Mitten) Roth, Hedwigia 51: 127, 1911.

*Syrhopodon tuberculosus* Dixon and Theriot, Linn. Soc. Bot., Jour. 43: 303, 1916.

Tau: Tavalogi Ridge, west end, ridge summit, under light forest cover, moss taken from north face of tuff capping, medium damp, one eighth mile from sea, alt. 143 m., *W. Harris*; Tavalogi Ridge, west end, north face, summit of ridge, cliff face, under forest, medium dry, on tuff rock, one eighth mile from shore, alt. 100 m., *W. Harris*; Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *Harris 436b*.

Upon examination of part of the type collection of this species, the highly characteristic tuberculate costa and leaf margins at once suggested a close relationship with *S. tuberculosus* Dixon and Theriot. Further comparisons failed



to reveal any noteworthy distinctions. Dixon has compared the type material of his species with *C. strictifolium* and agrees that they are conspecific. Under the circumstances, *S. tuberculosus* safely can be reduced to synonymy. It is odd that Mitten failed to mention the striking character that at once distinguishes this very individual species.

Distribution: Borneo, Philippines, Fiji.

**Calymperes porrectum** Mitten, Linn. Soc. Bot., Jour., 172, 1869.

*Calymperes salakense* Bescherelle, Essai Calymp. Sci. Nat., Ann. VIII, Bot. 1: 302, 1895.

Tau: on coconut tree trunk, along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9140*; Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *W. Harris 436a*.

As far as I can see, the Samoan collections agree perfectly with *C. salakense* Bescherelle. Fleischer evidently recognized this agreement (*Laubmoosflora v. Java*, p. 252) but he erroneously cites *C. porrectum* Bescherelle instead of *C. porrectum* Mitten. As Mitten's name was published in 1869, it has unquestioned priority and *C. salakense* Bescherelle should be reduced to synonymy.

Distribution: Malacca, Java, New Guinea, Philippines.

**Calymperes Dozyanum** Mitten, Linn. Soc., Jour., Suppl. 1 (Musc. Ind. Or.): 42, 1859.

Tau: on coconut tree trunk, along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9140a*.

New to Samoa. Distribution: Ceylon, Sumatra, Java, Borneo, Philippines.

**Calymperes moluccense** Schwaegrichen, Suppl. 2(2): 99, pl. 127, 1824.

Tau: upper Luma plateau, east of pig fence, along Vaosa trail, plantation in amphitheater plateau, moderate slope, damp, 2-10 feet above ground on trunks of coconut and breadfruit trees, 0.75 mile to shore, alt. 90 m., *W. Harris 444*.

New to Samoa. Distribution: Moluccas, Fiji.

**Calymperes Vreisii** Bescherelle, Essai Calymp. Sci. Nat., Ann. VIII, Bot. 1: 307, 1895.

Tau: just south of Falemai, on face of cliffs, 6 m. below top, Fitiuta trail, on surface of massive lava boulders, 800 feet from beach, alt. 36 m., *W. Harris 682b*.

New to Samoa. Distribution: Celebes, Marquesas Islands.

**Calymperes tahitense** (Sullivant) Mitten, Linn. Soc. Bot., Jour. 10: 172, 1869.

Tau: Judds Crater, northwest rim, on trunks and limbs of trees in damp, rather open forest, 0.75 mile to shore, alt. 168 m., *Harris 413a*; Faleulu Valley,

one eighth mile south of Muao's house, 0.75 mile from shore, alt. 204 m., growing on trunks of live trees, 1-8 feet above ground in medium damp, open forest, on gentle slope, foot of mountains, *W. Harris 423*; Faleulu Valley, woodland south of Muao's plantation, 0.75 mile from shore, alt. 204 m., growing on damp lava rock bed of small intermittent stream, on hillside in damp, rather open forest, moderate slope, *W. Harris 439*; upper Luma plantation, east of pig fence, along Vaosa trail, plantation in amphitheater plateau, moderate slope, damp, 2-10 feet above ground, on trunks of coconut and breadfruit trees, 0.75 mile from shore, *W. Harris 444b*.

Distribution: Java, Borneo, Philippines, Fiji, Tahiti.

***Calymperes serratum*** A. Braun, in C. Müller, Syn. 1: 527, 1849.

Tau: Palapala gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 58*.

Distribution: Malaysia, East China, Philippines, New Caledonia, Fiji.

#### FAMILY POTTIACEAE

##### Genus *Hyophila* Bridel

***Hyophila involuta*** (Hooker) Jaeger, Adumb. 1: 202, 1871-1872.

*Hyophila samoana* Mitten, Sam. M., 193, 1871.

Tau: Faleasao, old beach flats, middle section behind Falepopo, growing on tuff at lower edge of talus, under plantation trees, damp, 450 feet from shore, alt. 4-5 m., *W. Harris*.

I have not seen the original of *H. samoana* Mitten, but the present collection is apparently typical and differs in no important particulars from *H. involuta*. I have expressed the thought (Mosses of the Philippines, Philip. Jour. Sci. 68: 114, 1939) that *H. involuta* in a broad sense probably has a wide distribution and an extensive synonymy.

Distribution: India, eastern China, Philippines, and probably wider.

#### FAMILY DREPANOPHYLLACEAE

##### Genus *Mniomalia* C. Müller

***Mniomalia semilimbata*** (Mitten) C. Müller, Mus. Godeffroy, Jour. 5: 60, 1873-1874.

Tau: Luma, cliffs east of dispensary, open forest, medium damp, 1,500 feet from shore, alt. 39 m., *W. Harris 51*; Judds Crater, midway between bottom of pit and northwest rim, under forest and plantation cover, on talus below cliff, on rotten log, damp, alt. 135 m., *W. Harris*.

Distribution: Sumatra, Borneo, Philippines, New Guinea.

## FAMILY SPIRIDENTACEAE

Genus *Spiridens* Nees

*Spiridens aristifolius* Mitten, Linn. Soc. Bot., Jour. 10: 193, 1869.

Tau: on tree in moist forest, west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9258*; Faleulu Valley, one eighth mile south of Muao's house, on dead logs and sticks lying on moist soil, gentle slope, hillside, 0.75 mile from shore, alt. 216 m., *W. Harris 114*; Faleulu Draw, damp shallow draw on steep mountainside, in forest, growing on tree trunks 1-8 feet above ground, 1.5 miles from shore, alt. 540 m., *W. Harris*.

Distribution: Fiji.

## FAMILY ORTHOTRICHACEAE

Genus *Macromitrium* Bridel

*Macromitrium semipellucidum* Dozy and Molkenboer, Sci. Nat., Ann. 2: 311, 1844.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 56*; Faleulu Valley, one eighth mile south of Muao's house, growing on trunks of living trees in light forest, damp situation, hillside, gentle slope, 1.5 miles from shore, alt. 210 m., *A. Harris 182*.

Distribution: Sumatra, Borneo, Philippines, New Guinea.

## FAMILY PTEROBRYACEAE

Genus *Garovaglia* Endlicher

*Garovaglia Powellii* Mitten, Linn. Soc. Bot., Jour. 10: 169, 1869.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 54a*; Faleulu Valley, one eighth mile south of Muao's house, growing on trunks of living trees in light forest, damp situation, hillside, gentle slope, one to one eighth mile from shore, alt. 210 m., *A. Harris 181*.

The spines on the back of the leaf are confined to the edges of the plicae and easily overlooked. The best way to view them is to put part of the stem under a cover glass when some of the leaves will show the edges of the folds in profile.

Endemic.

## FAMILY METEORIACEAE

Genus *Floribundaria* C. Müller

*Floribundaria aeruginosa* (Mitten) Fleischer, *Hedwigia* 44: 302, 1905.

Tau: trail to peak back of Luma, at side of gulch, on damp rocks, alt. 300 m., *Garber 715a*; Luma cliffs, east of dispensary, on large lava boulders,

partly shaded, medium damp, south side of trail under open forest, 1,500 feet from shore, alt. 39 m., *W. Harris 128*.

Olosega: Olosegauta-Piunafua Ridge, on mossy tree trunk, alt. 510 m., *Garber 1080a*.

Distribution: Fiji, Tahiti.

#### FAMILY NECKERACEAE

##### Genus *Himantocladium* (Mitten) Fleischer

*Himantocladium implanum* (Mitten) Fleischer, *Laubmfl. Java 3: 886, 1907*.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 57*.

Distribution: Fiji, Rapa.

##### Genus *Pinnatella* (C. Müller) Fleischer

*Pinnatella Kuhliana* (Bryol. Jav.) Fleischer, *Hedwigia 45: 80, 1906*.

Tau: Afuli, Fagamalo beach trail, forest cover is strand trees (mostly *fau* and *futu*), moss from lava boulders in talus below shore cliffs, 30 feet from upper beach line, alt. 6 m., *W. Harris*.

Distribution: Sumatra, Java, Celebes, Ceram, New Guinea, Tahiti.

#### FAMILY HOOKERIAACEAE

##### Genus *Callicostella* (C. Müller) Mitten

*Callicostella papillata* (Montagne) Mitten, *Linn. Soc. Jour., Suppl. 1 (Musc. Ind. Or.): 136, 1859*.

Tau: Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *W. Harris 436d*.

Distribution: India, Sumatra, Java, Borneo, Philippines, Pacific islands.

#### FAMILY THUIDIACEAE

##### Genus *Pelekium* Mitten

*Pelekium velatum* Mitten, *Linn. Soc. Bot., Jour. 10: 176, 1869*.

Tau: Tavalogi Ridge, west end, ridge summit, under light forest cover, moss taken from north face of tuff capping, medium damp, one eighth mile from sea, alt. 143 m., *W. Harris*.

Distribution: Malay Peninsula, Siam, Malaysia, Philippines.

##### Genus *Thuidium* Bruch and Schimper

*Thuidium samoanum* Mitten, *Linn. Soc. Bot., Jour. 10: 186, 1869*.

Tau: Afuli-Fagamalo beach trail, talus on steep hillside below shore cliffs,

strand forest mainly *fau* and *futu* trees, 30 feet from shore, alt. 6 m., *W. Harris 684a*; Afuli-Fagamalo beach trail, forest cover is strand trees (mostly *fau* and *futu*), moss from lava boulders in talus below shore cliffs, 30 feet from upper beach line, alt. 6 m., *W. Harris*; Faleulu Valley, woodland, south of Muao's plantation, 0.75 mile from shore, alt. 204 m., growing on damp lava bed of small intermittent stream, on hillside in damp rather open forest, moderate slope, *W. Harris 438*.

Distribution: Solomon Islands, Fiji.

***Thuidium cymbifolium*** (Dozy and Molkenboer) Bryol. Java, Bryol. Java 2: 115, 1865.

Tau: Palapala stream above Palapala Hill, gulch on north slope of Vaoaimanu Mt., below Olomanu, on rock on stream bank under native forest cover, 1.5 miles to shore, alt. 270-300 m., *W. Harris 395*.

Distribution: Malaysia, Philippines, Formosa, Lord Howe Island, New Guinea, China, Japan.

#### FAMILY BRACHYTHECIACEAE

##### Genus *Rhynchostegium* Bruch and Schimper

***Rhynchostegium vitianum*** Bartram and Dixon, B. P. Bishop Mus., Occ. Papers 11(20): 18, 1936.

Tau: Faleulu Valley, woodland south of Muao's plantation, 0.75 mile from shore, alt. 204 m., growing on damp lava rock bed of intermittent stream, on hillside in damp rather open forest, moderate slope, *W. Harris 437a*.

New to Samoa. Distribution: Fiji, Austral Islands.

#### FAMILY SEMATOPHYLLACEAE

##### Genus *Acroporium* Mitten

***Acroporium sigmatodontium*** (C. Müller) Fleischer, Laubmfl. Java 4: 1281, 1918.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 54*.

Apart from the relatively shorter setae there are apparently no other characters distinguishing *A. brevisetulum* (C. Müller) Jaeger from *A. sigmatodontium*. The variety *brachypodium* (Dixon) Bartram is a parallel form, so I think that *A. brevisetulum* may be safely dropped.

Distribution: Ceylon, Sumatra, Java, New Guinea, Philippines, Tahiti.

Genus *Taxithelium* Spruce

***Taxithelium samoanum*** (Mitten) Brotherus, Engler and Prantl, Nat. Pflanzenfam. I, 3: 1091, 1908.

Tau: Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *A. Harris 176a*.

Endemic.

***Taxithelium tenuisetum*** (Sullivant) Mitten, Fl. Vit., 397, 1871.

Tau: Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *W. Harris 436c*.

Ofu: on rotten log, along southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker 9517*.

Distribution: Fiji, Niue Island.

## FAMILY HYPNACEAE

Genus *Ectropothecium* Mitten

***Ectropothecium sodale*** (Sullivant) Mitten, Linn. Soc. Bot., Jour. 10: 180, 1869.

Tau: Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *W. Harris 156, 436, 403; A. Harris 176*.

Distribution: Fiji, Tahiti.

***Ectropothecium incubans*** (Reinwardt and Hornschuch) Jaeger var. *scaberulum* (Brotherus) Fleischer, Laubmfl. Java 4: 1410, 1922.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 feet, *W. Harris 55*.

New to Samoa. Distribution: Java, Fiji.

***Ectropothecium adnatum*** Brotherus, unpublished manuscript.

Tau: Faleulu Valley, Muao's plantation, south of house, in rocky soil under coconut, breadfruit, and banana trees, medium damp soil, hillside, moderate slope, 0.5 mile from shore, alt. 195 m., *W. Harris 375*; Faleulu Valley, one eighth mile south of Muao's house, 0.75 mile from shore, alt. 204 m., growing on trunks of live trees, 1-8 feet above ground, in medium damp open forest, on gentle slope, foot of mountains, *W. Harris 422*; Faleulu Valley, one eighth mile south of Muao's house, growing on trunks of living trees in light forest, damp situation, hillside, gentle slope, one eighth mile from shore, alt. 210 m.,

*A. Harris 180*; Papatea, South Cove, alt. 1.5-6 m., taken on tuff, damp lower edge of strand forest, 5-30 feet from shore, *W. Harris 407*; on old log in forest south of Siufaga, alt. 300 m., Oct. 4, 1939, *Yuncker 9236, 9244*.

New to Samoa. Distribution: Solomon Islands, Fiji, Niue Island.

**Ectropothecium cyathothecium** (C. Müller) Brotherus, Engler and Prantl, *Nat. Pflanzenfam. I, 3: 1066, 1908*.

Tau: Faleulu Valley, one eighth mile south of Muao's house, on dead logs and sticks lying on moist soil, gentle slope, hillside, 0.75 mile from shore, alt. 216 m., *W. Harris 116*.

Distribution: Fiji.

**Ectropothecium malacoblastum** (C. Müller) Jaeger, *Adumb. 2: 526, 1877-1878*.

Tau: Faleulu Valley, woodland south of Muao's plantation, 0.75 mile from shore, alt. 204 m., growing on damp lava rock bed of small intermittent stream on hillside in damp rather open forest, moderate slope, *W. Harris 437, 138*; Faleulu, Muao's plantation, alt. 168 m., growing on rock wall under cover of plantation, 0.5 mile from shore, *A. Harris 160*; Palapala stream above Palapala Hill, gulch on north slope of Mt. Vaoaimanu below Olomanu, on rock on stream bank under native forest cover, 0.5 mile to shore, alt. 270-300 m., *W. Harris 394*.

Distribution: Fiji.

#### Genus **Vesicularia** C. Müller

**Vesicularia tahitensis** (Ångström) Brotherus, Engler and Prantl, *Nat. Pflanzenfam. I, 3: 1094, 1908*.

Tau: Judds Crater, northwest rim, spur rim, south exposure, under light forest cover of tree ferns and other trees, cliff face, growing on volcanic cinders, 0.5 mile from shore, alt. 165 m., *W. Harris 1764b*.

New to Samoa. Distribution: Tahiti, Rapa, Pitcairn Island.

**Vesicularia inflectens** (Bridel) C. Müller, *Engl. Bot. Jahrb. 23: 330, 1892*.

Tau: south side of South Cove, Papatea, rocky point, foot of hill, lower edge of strand forest at beach, growing on tuff rock, 5-20 feet from shore, alt. 3-4.5 m., *W. Harris 313*; just south of Falemai, on face of cliffs, 20 feet below top, Fitiuta trail, on surface of massive lava boulders, 800 feet from beach, alt. 36 m., *W. Harris 682c*; Judds Crater, bottom of pit, on lava boulders, under cover of shrubs, fern and mixed plantation and forest trees, 0.5 mile from shore, alt. 114 m., *W. Harris*; Afuli-Fagamalo beach trail, forest cover is strand trees (mostly *fau* and *futu*), moss from lava boulders in talus below shore cliffs, 30 feet from upper beach line, alt. 6 m., *W. Harris*.

Distribution: Hong Kong, Borneo to Rapa and Austral Islands.

## PTERIDOPHYTA

## PSILOPHYTINAE

## FAMILY PSILOACEAE

Genus *Psilotum* Swartz

***Psilotum complanatum* Swartz**, Syn. Fil., 118, 414, pl. 4, 1806.

Tau: epiphytic on tree fern, in moist ravine, alt. 200 m., Sept. 25, 1939, *Yuncker 9016*; alt. 250 m., Sept. 27, 1939, *Yuncker 9075*; Amouli trail, alt. 180 m., Sept. 16, 1921, *Garber 626*; trail to peak back of Tau, alt. 360 m., Jan. 28, 1922, *Garber 716*; Faleulu Valley, in light forest, alt. 210 m., July 27, 1938, *W. Harris 158*.

## LYCOPODINAE

## FAMILY LYCOPODIACEAE

Genus *Lycopodium* Linnaeus

***Lycopodium carinatum* Desvaux**, in Poiret, Encycl. Méth., Suppl. 3: 555, 1814.

Tau: pendent from tree branches in damp ravine south of Siufaga, alt. 350 m., Sept. 27, 1939, *Yuncker 9073*.

***Lycopodium Phlegmaria* Linnaeus**, Sp. Pl., ed. 2, 1564, 1763.

Tau: epiphytic on rotten tree trunk in damp ravine, alt. 200 m., Sept. 27, 1939, *Yuncker 9071, 9074*. Native name, *la'au fai pale*.

***Lycopodium squarrosum* Forster f.**, Fl. Ins. Austr. Prodr. 86, no. 479, 1786.

Tau: epiphytic on tree branch in damp ravine, alt. 250 m., Sept. 27, 1939, *Yuncker 9072*; on rotten log in forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9247*. Native name, *lau talatala*.

## FAMILY SELAGINELLACEAE

Genus *Selaginella* Spring

?***Selaginella Reinecke* Hieronymus**, in Engler and Prantl, Nat. Pflanzenfam. I, 4: 678, 1902.

Tau: in moist, shady ravine on slope south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9069*; in deep forest, slope south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9159*; in deep, moist forest 2 miles south of Siufaga, alt. 300 m., Oct. 1, 1939, *Yuncker 9151*; in deep moist ravine on south slope of Siufaga, alt. 150 m., Sept. 25, 1939, *Yuncker 9030*; Amouli trail, alt. 165 m., Sept. 16, 1921, *Garber 618*; trail back of Luma, alt. 240 m., Jan. 28, 1922, *Garber 713*.

Ofu: on moist forest floor, main ridge, alt. 250 m., Nov. 27, 1939, *Yuncker 9537*. Native name, *la'au vao*.



**Selaginella Whitmeei** Baker, Jour. Bot. 23: 24, 1885.

Tau: Powell 38; Amouli trail, alt. 180 m., Sept. 16, 1921, Garber 625.

## FILICINAE

### FAMILY OPHIOGLOSSACEAE

#### Genus *Ophioglossum* Linnaeus

**Ophioglossum pendulum** Linnaeus, Sp. Pl., ed. 2, 2: 1518, 1763.

Tau: epiphyte in moist ravine on mountain slope south of Siufaga, alt. 200 m., Sept. 27, 1939, Yuncker 9078; epiphyte, Amouli trail, alt. 135-150 m., Sept. 16, 1921, Garber 616; 632. Native name, *laugapapa* (also used for *Asplenium nidus* L.).

### FAMILY MARATTIACEAE

#### Genus *Angiopteris* Hoffmann

**Angiopteris evecta** (Forster) Hoffmann var. **Vaupellii** Hieronymus, Hedwigia 61: 250, 1919.

Tau: plateau back of Faleasao, alt. 180 m., Aug. 4, 1921, Garber 579. Abundant on all islands, Guest. Native name, *oli oli*.

#### Genus *Marattia* Swartz

**Marattia Smithii** Mettenius, Kuhn, Ferh. zool. bot. Fes. 19: 584, 1869.

Olosega: top of Piumafua mountain, alt. 600 m., June 17, 1925, Garber 1053.

### FAMILY GLEICHENIACEAE

#### Genus *Dicranopteris* Bernhardt

**Dicranopteris linearis** (Burman) Underwood, Torrey Bot. Club, Bull. 34: 250, 1907.

Ofu: trailing over edge of cliff, slope back of Ofu village, alt. 240 m., Nov. 25, 1939, Yuncker 9450.

Olosega: Olosegauta-Piumafua ridge, alt. 480 m., June 17, 1925, Garber 1078. Native names, *vaomu*, *vao taumanamana*.

### FAMILY SCHIZAEACEAE

#### Genus *Schizaea* Smith

**Schizaea dichotoma** (Linnaeus) Smith, Ac. Turin, Mém. 5: 422, pl. 9, fig. 9, 1793.

Tau: in deep forest on western slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, Yuncker 9262; Amouli trail, alt. 180 m., Sept. 16, 1921, Garber 626a.

Ofu: on moist forest floor on main ridge, alt. 350 m., Nov. 27, 1939, *Yuncker 9525*; Feaia Point, alt. 90 m., May 25, 1925, *Garber 974*.

Olosega: Olosegauta-Piunafua ridge, alt. 420 m., June 17, 1925, *Garber 1083*.

FAMILY HYMENOPHYLLACEAE

Genus *Trichomanes* Linnaeus

***Trichomanes apiifolium*** Presl, Hym., 16, 44, 1843.

Tau: on decayed tree trunk, below peak back of Tau, alt. 525 m., Jan. 28, 1922, *Garber 722*; on tree trunk, alt. 630 m., Jan. 28, 1922, *Garber 740*; on the ground, alt. 630 m., Jan. 28, 1922, *Garber 743*; at alt. 600 m., Jan. 28, 1922, *Garber 757*.

Olosega: Olosegauta-Piunafua ridge, alt. 540 m., June 17, 1925, *Garber 1042*.

***Trichomanes assimile*** Mettenius, Kuhn, *Linnaea* 35: 386, 1868.

Tau: in damp moss on tree trunk, trail to peak back of Tau, alt. 420 m., Jan. 28, 1922, *Garber 718*.

***Trichomanes bipunctatum*** Poiret, in Lamarck, *Encycl. Méth.* 8: 69, 1808.

Tau: on mossy tree trunk, below peak back of Tau, alt. 630 m., Jan. 28, 1922, *Garber 741*.

***Trichomanes Boryanum*** Kunze, *Farrnkr.* 1: 237, pl. 97, 1847.

Tau: on wet rocks in shady ravine on slope two miles south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9017*; Amouli trail, alt. 165 m., Sept. 16, 1921, *Garber 621*; trail to peak back of Luma, alt. 300 m., Jan. 28, 1922, *Garber 715*.

***Trichomanes dentatum*** van den Bosch, *Nederl. Kruidk. Arch.* 51: 182, 1861.

Olosega: *Reinecke 66*; on mossy tree trunk, top of Piunafua mountain, alt. 630 m., June 17, 1925, *Garber 1052*; on mossy tree trunk, Piunafua ridge, alt. 570 m., June 17, 1925, *Garber 1057*.

***Trichomanes Endlicherianum*** Presl, *Epim. Bot.*, 10, pl. 5A, 1849-51.

Tau: *Powell 155*.

Ofu: *Reinecke 43d*.

***Trichomanes humile*** Forster f., *Fl. Ins. Austr. Prodr.*, 12, 1786.

Tau: on moist rocks and tree trunks along Fitiuta trail, Sept. 26, 1939, *Yuncker 9057*; on rotten log in moist, shady ravine, alt. 45 m., Sept. 25, 1939, *Yuncker 9001*; on volcanic cinders, northwest rim of Judds Crater, alt. 165 m., June 17, 1937, *W. Harris 1764a*; northwest rim of Judds Crater, on trunks of trees, alt. 170 m., July 27, 1938, *W. Harris*; on face of cliffs just south of Falemai, Fitiuta trail, alt. 36 m., April 3, 1937, *W. Harris 682a*; gulch above Pala-

pala Hill, alt. 270-300 m., July 10, 1938, *W. Harris*; on face of lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris*; on damp mossy rock at base of tree along rocky stream bed, Amouli trail, alt. 180 m., Sept. 16, 1921, *Garber 628*.

Olosega: Olosegauta-Piunafua ridge, on mossy tree trunk, alt. 510 m., June 17, 1925, *Garber 1081*.

**Trichomanes intermedium** van den Bosch, *Nederl. Kruidk. Arch.* 5: 179, 1861.

Tau: below peak back of Tau, alt. 585 m., Jan. 28, 1922, *Garber 729*; gulch above Palapala Hill, on tree trunks, alt. 270-300 m., July 10, 1938, *W. Harris*.

Olosega: Olosegauta-Piunafua ridge, alt. 570 m., June 17, 1925, *Garber 1063*.

**Trichomanes pallidum** Blume, *Enum.*, 225, 1828.

Manua: *Nightingale* (type of *T. glaucofuscum* Hooker, *Night. Ocean. Sketch.*, App. 131, 1835, in Kew).

**Trichomanes saxifragoides** Presl, *Hym.* 16, 39, 1843.

Tau: in damp moss on tree fern trunk, slope back of Tau, alt. 645 m., Jan. 28, 1922, *Garber 744*.

Manua: *Powell 181*.

#### Genus *Hymenophyllum* Smith

**Hymenophyllum formosum** Brackenridge, *U. S. Expl. Exped., Bot.* 16: 268, pl. 32, fig. 3, 1854.

Tau: below the peak back of Tau, alt. 570 m., Jan. 28, 1922, *Garber 759*.

Olosega: on mossy tree trunk near top of Piunafua mountain, June 17, 1925, *Garber 1060*.

**Hymenophyllum polyanthos** Swartz, *Jour. Bot. Schrad.* 2: 100 (1800) 1801.

Tau: epiphytic, in dense, wet forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9256*; on damp tree trunk below peak back of Tau, alt. 585 m., Jan. 28, 1922, *Garber 727*; also at 615 m., *Garber 737*; Faleulu draw, on hillside on trees, alt. 480 m., Sept. 24, 1936, *W. Harris*.

Manua: *Reinecke 175*.

**Hymenophyllum praetervisum** Christ, *Bot. Jahrb.* 23: 338, 1896.

Manua: *Reinecke 88c*.

#### FAMILY CYATHEACEAE

#### Genus *Alsophila* R. Brown

?**Alsophila extensa** (Forster) R. Brown, *Prodr. Fl. Nov. Holl.* 1: 158, 1810.

Abundant on all islands as reported by Guest in 1939. Native name, *oli oli*.

## FAMILY POLYPODIACEAE

Genus *Dryopteris* Adanson

***Dryopteris dissecta*** (Forster) O. Kuntze, Rev. Gen. 2: 812, 1891.

Tau: on moist bank along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9137*; in damp, rocky soil, hillside, Faleulu valley, alt. 210 m., July 27, 1938, *W. Harris 383*; on lava rock, open forest, cliffs behind Luma village, alt. 39 m., July 24, 1938, *W. Harris 48*; on lava rock in talus at foot of cliff behind Luma village, alt. 8 m., July 13, 1938, *W. Harris 347*.

Ofu: on rocky cliff, slope back of Ofu village, alt. 30 m., Nov. 25, 1939, *Yuncker 9478*.

***Dryopteris gongylodes*** (Schkuhr) O. Kuntze, Rev. Gen. 2: 811, 1891.

Tau: in low, marshy area, alt. 5 m., Oct. 7, 1939, *Yuncker 9297*.

***Dryopteris setigera*** (Blume) O. Kuntze, Rev. Gen. 2: 813, 1891.

Tau: on old lava outcropping, slope south of Siufaga village, alt. 250 m., Oct. 4, 1939, *Yuncker 9239*; on face of lava cliff, behind Luma village, alt. 45 m., July 24, 1938, *W. Harris 386*.

Ofu: in thicket along southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker 9498*.

Genus *Tectaria* Cavanilles

***Tectaria Stearnsii*** Maxon, Biol. Soc. Washington, Proc. 36: 175, pl. 17, fig. a, 1923.

Ofu: on dry bank along trail on slope back of Ofu village, alt. 240 m., Nov. 25, 1939, *Yuncker 9455*. Native names, *vao tuaniu*, *la'au fai pale*.

Genus *Athyrium* Roth

***Athyrium accedens*** (Blume) Milde, Bot. Zeit., 353, 1870.

Tau: on lava outcropping on slope 1-1.5 mile south of Siufaga, alt. 240 m., Oct. 4, 1939, *Yuncker 9237*; in coconut, breadfruit and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 147*.

Genus *Blechnum* Linnaeus

***Blechnum orientale*** Linnaeus, Sp. Pl., 1077, 1753.

Tau: in open area along trail on slope south of Siufaga, alt. 60 m., Sept. 25, 1939, *Yuncker 9011*.

Ofu: on clay bank along trail on slope back of Ofu village, alt. 240 m., Nov. 25, 1939, *Yuncker 9454*. Native name, *lau magamaga*.

Genus *Asplenium* Linnaeus

***Asplenium laserpitiifolium*** Lamarck, Encycl. Méth. 2: 310, 1786.

Tau: in dark, wet, cavern-like depression in old lava out-cropping, alt. 250 m., Oct. 4, 1939, *Yuncker 9240*; on lava rocks, cliffs behind Luma village, alt. 39 m., July 24, 1938, *W. Harris 41*. Native name, *vao tuaniu*.

**Asplenium Nidus** Linnaeus, Sp. Pl., 1079, 1753.

Tau: on lava cliff behind Luma, alt. 45 m., July 24, 1938, *Wray Harris 123*.

Ofu: on rocky cliff, slope back of Ofu village, alt. 45 m., Nov. 25, 1939, *Yuncker 9474*. Native name, *launapapa*.

Genus **Lomagramma** J. Smith

**Lomagramma cordipinna** Holttum, Gard. Bull. Straits Settlem. 9(2):202, 1937.

Tau: in damp forest, Faleulu valley, alt. 210 m., July 27, 1938, *W. Harris 209*.

Genus **Nephrolepis** Schott

**Nephrolepis biserrata** (Swartz) Schott, Gen. Fil., ad. pl. 3, 1834.

Tau: epiphytic on tree in thicket about two miles south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9156*.

**Nephrolepis hirsutula** (Forster) Presl, Tent. Pterid., 79, 1836.

Tau: on moist shady bank along Fitiuta trail, Sept. 26, 1939, *Yuncker 9044*; in moist, rocky ravine on slope about two miles south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9019*; on lava rock, cliffs back of Luma village, alt. 39 m., July 24, 1938, *W. Harris 127*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 146*.

Genus **Microlepia** Presl

?**Microlepia** species.

Tau: on lava cliff, behind Luma village, alt. 45 m., July 24, 1938, *W. Harris 384*.

Genus **Lindsaya** Dryander

**Lindsaya decomposita** Willdenow, Sp. Pl. 5:425, 1810.

Tau: in rich soil of wet, dense forest on west slope of Mt. Vaoaimanu, alt. 500 m., Oct. 5, 1939, *Yuncker 9259, 9257*; epiphytic on tree in wet forest on slope about two miles south of Siufaga, alt. 300 m., Oct. 1, 1939, *Yuncker 9152*.

Genus **Pteris** Linnaeus

**Pteris comans** Forster, Fl. Ins. Austr. Prodr., 79, 1786.

Tau: in low wet area south of Siufaga, alt. 3 m., Sept. 29, 1939, *Yuncker 9093*; south side of South Cove, Papatea, on tuff, alt. 3-5 m., July 1938, *W. Harris 315*.

**Pteris ensiformis** Burman f., Fl. Ind., 230, 1768.

Tau: on face of lava cliff, back of Luma village, alt. 45 m., July 24, 1938, *W. Harris 28*.

Ofu: on rocky cliff, slope back of Ofu village, alt. 45 m., Nov. 25, 1939, *Yuncker 9479*. Native name, *lau manamana*.

**Pteris tripartita** Swartz, Jour. Bot. Schrad. 2: 67 (1800) 1801.

Tau: in coconut plantation, Faleulu valley, alt. 16 m., July 27, 1938, *A. Harris* 144.

Ofu: *Garber* 998; in thicket along southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker* 9501. Native names, *oli oli*, *lagasese*.

Genus **Acrostichum** Linnaeus

**Acrostichum aureum** Linnaeus, Sp. Pl., 1069, 1753.

Tau: within a few feet of the sea on a rocky point in Luma, Nov. 5, 1922, *Garber* 782.

Ofu: in soil pocket in lava rocks near the sea along the northwestern shore, alt. 5 m., Nov. 28, 1939, *Yuncker* 9561. Native names, *lau taputa*, *sa'ato*.

Genus **Humata** Cavanilles

**Humata heterophylla** (Smith) Desvaux, Prodr. fam. foug., 323, 1825.

Tau: epiphytic on trees in shady, damp ravine, south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker* 9068. Native name, *vao sosolo*.

Genus **Davallia** Smith

**Davallia solida** (Forster) Swartz, Jour. Bot. Schrad. 2: 87 (1800) 1801.

Tau: clinging to tree along Fitiuta trail, Sept. 26, 1939, *Yuncker* 9050.

Ofu: clinging to coconut trees, slope behind Ofu village, alt. 150 m., Nov. 25, 1939, *Yuncker* 9456, 9457. Native name, *vao sosolo i le niu*.

Genus **Arthropteris** J. Smith

**Arthropteris obliterated** (R. Brown) J. Smith, Cat. Cult. Ferns, 62, 1827.

Tau: clinging on trees and rocks, alt. 5 m., Oct. 7, 1939, *Yuncker* 9292; open woodland, on trunks of living trees, alt. 210 m., July 27, 1938, *A. Harris* 388; on damp mossy rocks, in bed of intermittent stream, Faleulu Valley, alt. 204 m., July 27, 1938, *W. Harris* 231; on lava rock, talus at foot of cliff behind Luma village, alt. 8 m., July 13, 1938, *W. Harris* 348; on lava cliff behind Luma village, alt. 45 m., July 24, 1938, *W. Harris* 44.

Genus **Cyclophorus** Desvaux

**Cyclophorus lanceolatus** (Linnaeus) Alston, Jour. Bot. 69: 102, 1931.

Tau: epiphytic on trees along Fitiuta trail, Sept. 26, 1939, *Yuncker* 9055.

Ofu: clinging to coconut tree, slope back of Ofu village, alt. 150 m., Nov. 25, 1939, *Yuncker* 9458.

Genus **Polypodium** Linnaeus

**Polypodium blechnoides** (Greville) Hooker, Sp. Fil. 4: 180, 1862.

Tau: epiphytic on trees in moist ravine on slope south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker* 9077.

**Polypodium Scolopendria** Burman f., Fl. Ind., 232, 1768.

Tau: terrestrial and epiphytic, near shore, alt. 5 m., Sept. 25, 1939, *Yuncker 9023*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 126*.

Ofu: on trees and rocks, slope back of Ofu village, alt. 20 m., Nov. 25, 1939, *Yuncker 9471*. Native name, *fiso vao*.

**Polypodium vitiense** Baker, Jour. Bot. 17: 298, 1879.

Tau: on old lava rock wall, slope south of Siufaga, alt. 150 m., Oct. 4, 1939, *Yuncker 9238*.

Genus **Prosaptia** Presl**Prosaptia contigua** (Forster) Presl, Tent. Pterid., 166, 1836.

Tau: epiphytic on trees in dense, wet forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9260*.

Genus **Antrophyum** Kaulfuss**Antrophyum alatum** Brackenridge, U. S. Expl. Exped., Bot. 16: 64, 1854.

Tau: on rotten log in thicket near Siufaga, alt. 5 m., Oct. 7, 1939, *Yuncker 9290*; epiphytic on trees in moist ravine along Fitiuta trail, Sept. 26, 1939, *Yuncker 9056*; in damp, rocky soil under light forest cover, hillside, Faleulu valley, alt. 210 m., July 27, 1938, *W. Harris 262, 382X*.

**Antrophyum angustatum** Brackenridge, U. S. Expl. Exped., Bot. 16: 63, 1854.

Ofu: on rocks in damp forest on central ridge, alt. 300 m., Nov. 27, 1939, *Yuncker 9539*. Native name, *lau talotalo*.

Genus **Vaginularia** Fée**Vaginularia paradoxa** (Fée) Mettenius, Mus. Bot. Lugd.-Bat., Ann. 4: 174, 1868-69.

Tau: epiphytic on trees in moist ravine south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9070*; on damp, dead wood, in woodland, Faleulu valley, alt. 210 m., July 27, 1938, *W. Harris 405*; on trunks of living trees, light forest, Faleulu valley, alt. 210 m., July 27, 1938, *A. Harris 188*; on lava rock, cliffs back of Luma village, alt. 39 m., July 24, 1938, *W. Harris 133*.

## SPERMATOPHYTA

## MONOCOTYLEDONEAE

## FAMILY PANDANACEAE

Genus **Freycinetia** Gaudichaud**Freycinetia Hombronii** Martelli, in Reching, Wiss. Forschungsreise nach Samoa, 56, 1910.

Tau: on lava boulder in talus at foot of cliff, cliffs behind Luma village,

July 13, 1938, *W. Harris 259*. This specimen is sterile but it agrees well with specimens of this species in the Bishop Museum herbarium.

***Freycinetia Reinecke*** Warburg, in Reinecke, Fl. Samoa-Inseln, 578, pl. 8, fig. B, 1898.

Tau: climbing in trees in ravine on slope south of Siufaga, alt. 200 m., Sept. 27, 1939, *Yuncker 9092*; near top of peak back of Tau, alt. 660 m., fruit, Jan. 28, 1922, *Garber 750*. Native names, 'ie'ie, lau 'ie'ie.<sup>2</sup>

#### Genus **Pandanus** Linnaeus

***Pandanus calostigma*** Martelli f. *samoana* Martelli, B. P. Bishop Mus., Occ. Papers 10(13): 9, pl. 2, figs. 1-2, 1934.

Ofu: in old coconut grove, old village site of Mafafa, alt. 4-5 m., May 26, 1925, *Garber 984*.

***Pandanus tauensis*** Martelli, B. P. Bishop Mus., Occ. Papers 10(13): 14, pls. 3, 4, 9, 1934.

Tau: on sandy beach at Faga, alt. 3-4 m., Sept. 11, 1921, *Garber 665*.

Guest reports it as scarce on Ofu. Native name, lau paogo.

***Pandanus tectorius*** Parkinson var. *laevis* (Kunth) Warburg, Pflanzenr. 3 (IV.9): 48, 1900.

Tau: near dwelling, Luma, cultivated, Dec. 15, 1921, *Garber 662* (apparently this is the specimen cited by Martelli as *Garber 665*). Native names, 'ie toga, lau fala.

#### FAMILY GRAMINEAE

##### Genus **Schizostachyum** Nees

***Schizostachyum glaucifolium*** (Ruprecht) Munro, Linn. Soc., Trans. 26: 137, 1868.

Tau: small clump near the trail on west slope of Mt. Vaoaimanu, alt. 120 m., Oct. 5, 1939, *Yuncker 9268*.

Ofu: small clump in ridge forest above Ofu village, alt. 360 m., Nov. 27, 1939, *Yuncker 9521*.

Olosega: Piumafua Ridge, alt. 500 m., June 17, 1925, *Garber 1041*. Native names, 'ofe, 'ofe samoa.

##### Genus **Eragrostis** Beauvois

***Eragrostis amabilis*** (Linnaeus) Wight and Arnott, in Hooker and Arnott, Bot. Beechey Voy., 251, 1841.

Tau: on old coral rock about dwellings, Oct. 2, 1939, *Yuncker 9169*; Luma, near swampy area, Aug. 5, 1938, *W. Harris 3*; Luma, in sandy soil near the beach, July 20, 1938, *W. Harris 339*. Native name, *fali funa*.

<sup>2</sup> Lau (leaf) is now often used before the specific name of a plant.



Genus *Centotheca* Desvaux

***Centotheca latifolia*** (Linnaeus) Trinius, Fund. Agrost., 141, 1820.

Tau: in marshy area south of Siufaga, alt. 3 m., Sept. 29, 1939, *Yuncker 9100*; along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9135*; Sani Ridge, back of Fitiuta, alt. 125 m., Aug. 9, 1921, *Garber 589*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 120*; Faleulu Valley, open woods, alt. 204 m., July 27, 1938, *W. Harris 213, 220*.

Olosega: trail back of Olosegauta, alt. 300 m., June 17, 1925, *Garber 1035*.  
Native names, *sefa, vao fali, lau 'ofe'ofe*.

Genus *Lepturus* R. Brown

***Lepturus repens*** (Forster) R. Brown, Prodr. Fl. Nov. Holl., 207, 1810.

Ofu: in soil pockets, basaltic rocks along northwestern shore, alt. 5 m., Nov. 28, 1939, *Yuncker 9548*.

Genus *Eleusine* Gaertner

***Eleusine indica*** (Linnaeus) Gaertner, Fruct. et Semin. 1: 8, 1788.

Tau: in sandy soil near the beach, Sept. 29, 1939, *Yuncker 9115*; along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9136*; sandy soil along trail behind Luma, Aug. 5, 1938, *W. Harris 2*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1939, *W. Harris 251*; on calcareous beach, Papatea, July 15, 1938, *A. Harris 72*.

Ofu: in sandy soil near the beach, Nov. 25, 1939, *Yuncker 9487*; in sandy soil along southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker 9499*.  
Native names, *sefa, ta'ata'a*.

Genus *Cynodon* L. Richard

***Cynodon Dactylon*** (Linnaeus) Persoon, Syn. Pl. 1: 85, 1805.

Tau: under coconut trees in loose, medium-dry beach sand, Luma, July 20, 1938, *W. Harris 336*.

Genus *Digitaria* Heister

***Digitaria chinensis*** Hornemann, Hort. Hafn., Suppl., 8, 1819.

Tau: along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9125*; Luma, on lava cliff, alt. 45 m., July 24, 1938, *W. Harris 30*; in talus, foot of cliff, alt. 7-8 m., July 13, 1938, *W. Harris 353*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 317*.

Ofu: in sandy soil near the beach, alt. 2 m., Nov. 25, 1939, *Yuncker 9488*.

***Digitaria Henryi*** Rendle, Linn. Soc. Bot., Jour. 36: 323, 1904.

Tau: Papatea, in sand near the beach, July 15, 1938, *W. Harris 71*.

Ofu: along rocky shore, northwestern side of island, alt. 5 m., Nov. 28, 1939, *Yuncker 9550*.

Genus *Stenotaphrum* Trinius

*Stenotaphrum subulatum* Trinius, Acad. Pétersb., Mém. VI, 3(2) : 190, 1835.

Tau: in low marshy area south of Siufaga, Sept. 29, 1939, *Yuncker 9109*.

Genus *Paspalum* Linnaeus

*Paspalum conjugatum* Bergius, Helvet. Phys. Math., Act. 7 : 129, pl. 8, 1762.

Tau: weed in banana plantation on mountain slope south of Siufaga, alt. 300 m., Oct. 4, 1939, *Yuncker 9233*; Papatea, sandy soil near the beach, July 15, 1938, *W. Harris 95*; Luma, in talus, foot of cliff, alt. 7-8 m., July 13, 1938, *W. Harris 354*.

Ofu: in sandy soil near the beach, Nov. 25, 1939, *Yuncker 9489*. Native names, *vailima*, *vailima matafao*.

*Paspalum vaginatum* Swartz, Prodr. Veg. Ind. Occ., 21, 1788.

Tau: Luma, in sandy soil near the beach, July 20, 1938, *W. Harris 305*; Papatea, in sandy soil near the beach, July 15, 1938, *A. Harris 73*.

Genus *Panicum* Linnaeus

*Panicum ambiguum* Trinius, Acad. Pétersb., Mém. VI, 3(2) : 243, 1835.

Tau: in sandy soil near the beach south of Siufaga, Sept. 29, 1939, *Yuncker 9114*; sandy soil, Luma, July 20, 1938, *W. Harris 334*.

Ofu: in sandy soil near the beach back of Ofu village, Nov. 25, 1939, *Yuncker 9486*.

*Panicum pilipes* Nees and Arnott, Hook. Jour. Bot. Kew Miscel. 2 : 97, 1850.

Tau: Faleulu, weed in coconut plantation, alt. 180 m., July 27, 1938, *W. Harris 166*.

Ofu: plantation, Feaia Point, alt. 90 m., May 25, 1925, *Garber 975*.

Genus *Oplismenus* Beauvois

*Oplismenus compositus* (Linnaeus) Beauvois, Ess. Agrost., 54, 1812.

Tau: Luma, on lava cliff, alt. 45 m., July 24, 1938, *W. Harris 31*.

*Oplismenus undulatifolius* (Arduino) Roemer and Schultes var. *imbecillus* (R. Brown) Hackel, Govern. Labor. Manila, Pub. 35 : 81, 1906.

Ofu: in sandy soil along the southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker 9501A*.

Genus *Pennisetum* L. Richard

*Pennisetum macrostachyum* (Brongniart) Trinius, Acad. Pétersb., Mém. VI, 3(2) : 177, 1835.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9214*.

Genus *Cenchrus* Linnaeus

*Cenchrus echinatus* Linnaeus, Sp. Pl., 1050, 1753.

Tau: in sandy soil near the shore, Sept. 29, 1939, *Yuncker 9110*; on cal-

careous beach, Papatea, July 15, 1938, *A. Harris 70*; under coconut trees in loose, medium-dry beach sand, Luma, July 20, 1938, *W. Harris 307, 335*.

Ofu: in sandy soil near the beach back of Ofu village, Nov. 25, 1939, *Yuncker 9485*. Native names, *vao tuitui*, *vao papalagi*.

#### Genus *Thuarea* Persoon

*Thuarea involuta* (Forster) Roemer and Schultes, *Syst. 2: 808, 1817*.

Ofu: in sandy soil near the beach, Nov. 25, 1939, *Yuncker 9491*.

#### Genus *Miscanthus* Andersson

*Miscanthus japonicus* (Thunberg) Andersson, *Oefvers. Vet. Akad. Förh. 12: 166, 1856*.

Tau: along trail, Luma, January 11, 1922, *Garber 705*. Native names, *u*, *fiso*.

#### Genus *Saccharum* Linnaeus

*Saccharum officinarum* Linnaeus, *Sp. Pl., 54, 1753*.

Tau: small patch noted near Luma, but not collected (Yuncker). Native name, *tolo*.

#### Genus *Coix* Linnaeus

*Coix lachryma-jobi* Linnaeus, *Sp. Pl., 972, 1753*.

Tau: in marshy area near Luma, Oct. 6, 1939, *Yuncker 9283*. Native name, *sagisagi*.

### FAMILY CYPERACEAE

#### Genus *Cyperus* Linnaeus

*Cyperus brevifolius* (Rottboell) Hasskarl, *Cat. Hort. Bogor. Alt., 24, 1844*.

Tau: weed in taro patch, Luma, Oct. 6, 1939, *Yuncker 9276*; in moist soil on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9186*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 91*. Native name, *tuse*.

*Cyperus compressus* Linnaeus, *Sp. Pl., 46, 1753*.

Tau: plateau back of Luma, alt. 100 m., Dec. 15, 1921, *Garber 659*; in sand along trail behind Luma, Aug. 5, 1938, *W. Harris 4*.

Ofu: in sandy soil near the beach, Nov. 28, 1939, *Yuncker 9546*.

*Cyperus cyperoides* (Linnaeus) O. Kuntze, *Rev. Gen. 3(2): 333, 1898*.

Tau: along the Luma-Faleasao trail, alt. 50 m., Sept. 20, 1939, *Yuncker 9132*; plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 647*. Native name, *ta'ata'a*.

*Cyperus cyperoides* (Linnaeus) O. Kuntze subsp. *cyperinus* (Retzius) Kuenthal, *Engl. Bot. Jahrb. 59: 46, 1924*.

Tau: plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 649*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938,

*W. Harris 121*; on lava cliffs behind Luma, alt. 45 m., July 24, 1938, *W. Harris 32*.

**Cyperus javanicus** Houttuyn, Nat. Hist. II, 13: Aawyz. Plaat. [1], pl. 88, fig. 1, 1782.

Tau: in low marshy area, Oct. 6, 1939, *Yuncker 9285*.

Ofu: on talus slope along the northwest shore, Nov. 28, 1939, *Yuncker 9549*; in low ground near the beach, Nov. 25, 1939, *Yuncker 9484*. Native name, *selesele*.

**Cyperus Kyllingia** Endlicher, Cat. Hort. Acad. Vindob. 1: 94, 1842.

Tau: south side of South Cove, Papatea, on tuff rock at lower edge of strand forest near the shore, July 15, 1938, *W. Harris 318*.

**Cyperus Seemannianus** Boeckeler var. *altus* Kükenthal, B. P. Bishop Mus., Bull. 128: 18, 1935.

Tau: Faleulu Valley, rocky soil on hillside, alt. 195 m., July 27, 1938, *W. Harris 199*.

**Cyperus Seemannianus** Boeckeler var. *monostachys* (Boeckeler) Kükenthal, B. P. Bishop Mus., Bull. 128: 18, 1935.

Tau: Sani Ridge back of Fitiuta, alt. 125 m., Sept. 8, 1921, *Garber 590*; plateau back of Luma, alt. 150 m., Dec. 15, 1921, *Garber 657*.

**Cyperus Seemannianus** Boeckeler aff. var. *perdensus* Kükenthal, B. P. Bishop Mus., Bull. 128: 18, fig. 2, 1935.

Tau: south side of South Cove, Papatea, on tuff at lower edge of strand forest, July 15, 1938, *W. Harris 319*.

#### Genus *Eleocharis* R. Brown

**Eleocharis dulcis** (Burman f.) Trinius, ex Henschel, Vita Rumph., 186, 1833.

Tau: in low marshy area near Siufaga, Oct. 7, 1939, *Yuncker 9296*. Native name, *utuutu*.

#### Genus *Fimbristylis* Vahl

**Fimbristylis annua** (Allioni) Roemer and Schultes, Syst. 2: 95, 1817.

Tau: in low, marshy area south of Siufaga, Sept. 29, 1939, *Yuncker 9103*; in swamp near Siufaga, Oct. 7, 1939, *Yuncker 9295*.

**Fimbristylis cymosa** R. Brown var. *pycnocephala* (Hillebrand) Kükenthal, B. P. Bishop Mus., Bull. 128: 20, 1935.

Tau: lava rock along the sea, Fitiuta, Aug. 10, 1921, *Garber 608*.

Ofu: on spray-swept rocks near the sea, Nov. 28, 1939, *Yuncker 9557*. Native name, *mutia*.

**Fimbristylis diphylla** (Retzius) Vahl, Enum. 2: 289, 1806.

Tau: plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 648*.

Genus *Rynchospora* Vahl

***Rynchospora corymbosa*** (Linnaeus) Britton, New York Acad. Sci., Trans. 11: 84, 1892.

Tau: in low marshy area, Oct. 6, 1939, *Yuncker 9286*; in low marshy area south of Siufaga, Sept. 29, 1939, *Yuncker 9102*.

Olosega: taro swamp, back of Olosega village, June 23, 1925, *Garber 1090*. Native names, *lau selesele*, *vao selesele*.

Genus *Mapania* Aublet

***Mapania longifolia*** (Boeckeler) C. B. Clarke, Kew Bull., add. ser. 8: 54, 1908.

Tau: below peak back of Tau, alt. 600 m., Jan. 28, 1922, *Garber 739*. Native name, *lau fala vao*.

***Mapania macrocephala*** (Gaudichaud) K. Schumann, Engl. Bot. Jahrb. 13: 265, 1891.

Tau: in moist ravine south of Siufaga, alt. 100 m., Sept. 27, 1939, *Yuncker 9084*.

Genus *Scleria* Bergius

***Scleria lithosperma*** (Linnaeus) Swartz, Prodr. Veg. Ind. Occ., 18, 1788.

Tau: in moist shady ravine on slope about two miles south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9080*; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 690*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 214*.

Ofu: along the ridge trail back of Ofu village, alt. 150 m., Nov. 25, 1939, *Yuncker 9470*. Native name, *popo vao*.

***Scleria scrobiculata*** Nees, Wight, Contrib., 117, 1834.

Tau: in low marshy area south of Siufaga, Sept. 29, 1939, *Yuncker 9106*; along the trail near the shore south of Siufaga, Sept. 25, 1939, *Yuncker 9004*; plateau back of Luma, alt. 100 m., Dec. 15, 1921, *Garber 644*.

Ofu: on rocky slope behind Ofu village, alt. 180 m., Nov. 25, 1939, *Yuncker 9465*. Native name, *tafa tolu*.

## FAMILY PALMAE

Genus *Eupritchardia* O. Kuntze

***Eupritchardia pacifica*** (Seemann and Wendland) O. Kuntze, Rev. Gen. 3(2): 323, 1898.

Ofu: cultivated, Aloafao, alt. 8 m., June 6, 1925, *Garber 1012*. Native name, *niu piu*.

Genus *Cocos* Linnaeus

***Cocos nucifera*** Linnaeus, Sp. Pl., 1188, 1753.

Tau: cultivated, Luma, Jan. 10, 1922, *Garber 703*. Extensively cultivated in several varieties on all islands (Yuncker). Native name, *niu*.

## FAMILY ARACEAE

Genus *Epipremnum* Schott

?*Epipremnum pinnatum* (Linnaeus) Engler, Pflanzenr. 37(IV.23 Ba): 60, fig. 25, 1908.

Tau: climbing in trees in thicket near the shore south of Siufaga (specimen sterile), Oct. 7, 1939, *Yuncker 9288*; on the ground and scrambling over rocks, Fagamalo beach, Jan. 7, 1922, *Garber 677*. Native name, *lau manamana*.

Genus *Amorphophallus* Blume

*Amorphophallus campanulatus* (Roxburgh) Blume, Mus. Hist. Nat. Paris, Ann. 3: 366, 1834.

Tau: in bush near Siufaga, alt. 3 m., Sept. 21, 1922, *Garber 774*. Native name, *teve*.

Genus *Colocasia* Schott

*Colocasia esculenta* (Linnaeus) Schott, Melet. Bot. 1: 18, 1832.

Ofu: cultivated, Ofu village, alt. 8 m., June 22, 1925, *Garber 1100*; cultivated on all the islands in a number of varieties (*Yuncker*). Native name, *talo*.

## FAMILY BROMELIACEAE

Genus *Ananas* Adanson

*Ananas comosus* (Linnaeus) Merrill, Interpret. Herb. Amboin., 133, 1917.

Large plantations on Tau, *Guest*. Native name, *fala 'aina*.

## FAMILY COMMELINACEAE

Genus *Commelina* Plumier

*Commelina diffusa* Burman f., Fl. Ind., 18, pl. 7, fig. 2, 1768.

Tau: in moist soil, along trail on west slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, *Yuncker 9273*.

Olosega: wet talo plantation, June 23, 1925, *Garber 1088*. Native name, *ma'u'u toga*.

Genus *Aneilema* R. Brown

*Aneilema vitiense* Seemann, Fl. Vit., 314, pl. 96, 1868.

Tau: along the trail in moist soil, west slope of Mt. Vaoaimanu, Oct. 5, 1939, *Yuncker 9274*; on old lava wall, south of Siufaga, alt. 300 m., Oct. 4, 1939, *Yuncker 9230*; Sani Ridge back of Fitiuta, alt. 100 m., Aug. 9, 1921, *Garber 588*. Native name, *ma'u'u toga*.

## FAMILY LILIACEAE

Genus *Cordyline* Commerson

*Cordyline terminalis* (Linnaeus) Kunth, Berl. Akad., Abh. 30, 1820.

Tau: in thicket along the trail near Fitiuta, alt. 50 m., Sept. 26, 1939, *Yuncker 9047*; along the Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939,

*Yuncker 9128*; Fitiuta trail, alt. 80 m., Aug. 4, 1921, *Garber 554*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 136*. Native name, *ti*.

Genus **Asparagus** Linnaeus

**Asparagus plumosus** Baker, Linn. Soc. Bot., Jour. 14: 613, 1875.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9221*. Native name, *lau lil'i*.

FAMILY AMARYLLIDACEAE

Genus **Zephyranthes** Herbert

**Zephyranthes rosea** (Sprengel) Lindley, Bot. Reg. 10: 821, 1824.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9220*. Also observed occasionally as an escape.

Genus **Crinum** Linnaeus

**Crinum asiaticum** Linnaeus, Sp. Pl., 292, 1753.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9219*. Native name, *lau talotalo*.

FAMILY TACCACEAE

Genus **Tacca** Forster

**Tacca pinnatifida** Forster, Charact. Gen., Pl. 70, pl. 35, 1776.

Tau: in sandy soil near the shore, Sept. 25, 1939, *Yuncker 9027*; plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 653*.

Ofu: in sandy soil near the shore, along southeastern trail, Nov. 26, 1939, *Yuncker 9505*. Native name, *masoa, pia*.

FAMILY DIOSCOREACEAE

Genus **Dioscorea** Plumier

**Dioscorea bulbifera** Linnaeus, Sp. Pl., 1033, 1753.

Tau: climbing in thicket on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9181*.

Ofu: climbing in thicket on main ridge, alt. 300 m., Nov. 27, 1939, *Yuncker 9526*. Native name, *soi*.

**Dioscorea pentaphylla** Linnaeus, Sp. Pl. 1032, 1753.

Tau: climbing in thicket two miles south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9155*. Native name, *pilita*.

FAMILY MUSACEAE

Genus **Musa** Linnaeus

**Musa paradisiaca** Linnaeus, Sp. Pl., 1043, 1753.

The banana is extensively cultivated on all of the islands in a number of varieties as an important item of food. Native name, *fa'i*.

## FAMILY ZINGIBERACEAE

Genus *Alpinia* Roxburgh

***Alpinia purpurata*** (Vieillard) K. Schumann, Pflanzenr. 20(IV.46): 323, 1904.

Tau: on plateau near Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9177*.

Ofu: weed in coconut plantation near Ofu village, alt. 100 m., Nov. 25, 1939, *Yuncker 9460*. Native name, *teuila*.

Genus *Curcuma* Linnaeus

?***Curcuma longa*** Linnaeus, Sp. Pl., 2, 1753.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9218*.

Ofu: Aloafao, alt. 8 m., June 6, 1921, *Garber 1009*. Native name, *ago*.

Genus *Zingiber* Adanson

***Zingiber Zerumbet*** (Linnaeus) Smith, Exot. Bot. 2: 103, pl. 112, 1804.

Tau: Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 689*.

Ofu: along ridge trail above Ofu village, alt. 300 m., Nov. 27, 1939, *Yuncker 9544*. Native name, *'avapai*.

## FAMILY CANNACEAE

Genus *Canna* Linnaeus

***Canna humilis*** Bouché, Linnaea 8: 153, 1833.

Tau: plateau back of Siufaga, alt. 100 m., Sept. 27, 1922, *Garber 781*; margin of wet taro patch near Siufaga, Oct. 6, 1939, *Yuncker 9282*. Native name, *fagamanu*.

## FAMILY ORCHIDACEAE

Genus *Habenaria* Willdenow

***Habenaria tradescantifolia*** Reichenbach f., in Seemann, Fl. Vit., 293, 1868.

Tau: terrestrial, in dense wet forest on slope two miles south of Siufaga, alt. 300 m., Oct. 1, 1939, *Yuncker 9150*; in deep, shady ravine about one mile south of Siufaga, alt. 50 m., Sept. 27, 1939, *Yuncker 9000A*.

Genus *Platylepis* Blume

***Platylepis heteromorpha*** Reichenbach f., Otia Bot. Hamb. 1: 52, 1878.

Olosega: terrestrial herb, Olosegauta-Piumafua ridge, alt. 550 m., June 17, 1925, *Garber 1073*.

Genus *Erythroides* Blume

***Erythroides*** species.

Tau: terrestrial herb, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 500 m., Oct. 5, 1939, *Yuncker 9269*.



Genus **Cheirostylis** Blume**Cheirostylis** species.

Tau: terrestrial herb, in dense rain forest on western slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9265*.

Genus **Vrydagzynea** Blume**Vrydagzynea** species.

Tau: herb, on mossy rock, Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber 630*.

Genus **Malaxis** Solander

**Malaxis resupinata** (Forster) O. Kuntze, *Rev. Gen.*, 673, 1891.

Ofu: in rich soil, forest floor on ridge back of Ofu village, alt. 400 m., Nov. 27, 1939, *Yuncker 9522*.

Genus **Microstylis** Nuttall**Microstylis** species.

Tau: epiphyte, top of peak back of Tau, alt. 700 m., Jan. 28, 1922, *Garber 753*.

Genus **Liparis** L. C. Richard**Liparis** species.

Tau: terrestrial herb, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 500 m., Oct. 5, 1939, *Yuncker 9266*.

Genus **Agrostophyllum** Blume

**Agrostophyllum megalurum** Reichenbach f., in Seemann, *Fl. Vit.*, 296, 1868.

Tau: epiphyte, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9246*.

Genus **Appendicula** Blume

**Appendicula bracteosa** Reichenbach f., in Seemann, *Fl. Vit.*, 299, 1868.

Tau: epiphyte, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 500 m., Oct. 5, 1939, *Yuncker 9267*; epiphyte, on damp tree trunk, below peak back of Tau, alt. 600 m., Jan. 28, 1922, *Garber 730*; epiphyte on trunk of tree fern in gulch, trail to peak back of Luma, alt. 300 m., Jan. 28, 1922, *Garber 714*.

Genus **Glomera** Blume

**Glomera Reineckeana** (Kraenzlin) Schlechter, in Fedde, *Repert. Nov. Spec.* 9: 96, 1910.

Tau: epiphyte, top of peak back of Tau, on fallen tree trunk, alt. 650 m., Jan. 28, 1922, *Garber 748*.

Genus **Phaius** Loureiro

**Phaius Tankervilleae** (Banks) Blume, *Mus. Bot. Lugd.-Bat.* 2: 177, 1856.

Tau: terrestrial, in dense rain forest on western slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, *Yuncker 9261*.

Genus *Calanthe* R. Brown

***Calanthe furcata*** Bateman, Bot. Reg. 24: Misc. 28, 1838.

Tau: terrestrial, in dense, wet forest on slope two miles south of Siufaga, alt. 300 m., Oct. 30, 1939, *Yuncker 9149*.

***Calanthe triplicata*** (Willemet f.) Ames, Philip. Jour. Sci., Bot. 2: 326, 1907.

Olosega: Olosegauta-Piumafua ridge, alt. 500 m., June 17, 1925, *Garber 1036, 1077*.

***Calanthe*** species.

Tau: terrestrial, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 600 m., Oct. 5, 1939, *Yuncker 9248*.

Genus *Spathoglottis* Blume

***Spathoglottis plicata*** Blume, Bijdr. Fl. Jav., 401, fig. 76, 1825.

Tau: terrestrial, in thicket one mile south of Siufaga, alt. 5 m., Sept. 25, 1939, *Yuncker 9007A*; in open grassy area south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9007*; bush trail back of Luma, alt. 200 m., Jan. 28, 1922, *Garber 710, 712*.

Ofu: in open grassy area on ridge back of Ofu village, alt. 400 m., Nov. 27, 1939, *Yuncker 9527*.

Olosega: Olosegauta-Piumafua ridge, alt. 500-600 m., June 17, 1925, *Garber 1054*. Native name, *niu vao*.

Genus *Dendrobium* Swartz

***Dendrobium biflorum*** (Forster) Swartz, Nova Acta Soc. Sci. Upsal. II, 6: 84, 1799.

Tau: on fallen tree trunk, plateau back of Faleasao, alt. 150 m., Aug. 4, 1921, *Garber 575*.

***Dendrobium tipuliferum*** Reichenbach f., Gard. Chron. 1: 72, 1877.

Tau: epiphyte, in dense rain forest on western slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9264*.

***Dendrobium Tokai*** Reichenbach f., Hamb. Gardenz. 21: 293, 1865.

Tau: epiphytic, dark damp ravine two miles south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9066*; on dead tree, Amouli trail, alt. 150 m., Sept. 16, 1921, *Garber 619*. Native name, *laumafafia*.

***Dendrobium Vaupelianum*** Kraenzlin, Notizbl. Bot. Gart. Berlin 5: 109, 1909.

Tau: epiphyte, in dense forest on slope about two miles south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9067, 9160*; on branch of tree in dark damp ravine on slope between one and two miles south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9067*; on breadfruit tree, Fitiuta trail, Aug. 4, 1921, *Garber 557*; on breadfruit tree, plateau back of Luma, alt. 150 m., Dec. 15, 1921, *Garber 655*. Native name, *laumafafia*.

Genus **Pseuderia** Schlechter

**Pseuderia ramosa** L. Williams, Harvard Univ., Bot. Mus. Leaflet 7: 140, 1939.

Tau: epiphyte, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, *Yuncker 9251*.

**Pseuderia** species.

Tau: epiphyte, trail to peak back of Tau, alt. 400 m., Jan. 28, 1922, *Garber 717*.

Genus **Bulbophyllum** Thouars

**Bulbophyllum Christophersenii** L. Williams, Harvard Univ., Bot. Mus. Leaflet 7: 143, 1939.

Tau: epiphyte, in deep wet forest on slope two miles south of Siufaga, alt. 300 m., Oct. 1, 1939, *Yuncker 9153*; epiphyte, in damp forest on west slope of Mt. Vaoaimanu, alt. 360 m., Oct. 5, 1939, *Yuncker 9249*.

**Bulbophyllum longiscapum** Rolfe, Kew Bull., 45, 1896.

Tau: epiphyte, in dark damp ravine two miles south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9076*.

**Bulbophyllum** species.

Tau: epiphyte, in dense moist forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9272*.

**Bulbophyllum** species.

Tau: epiphyte, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9250*.

Genus **Phreatia** Lindley

**Phreatia Reineckeii** Schlechter, in Fedde, Repert. Nov. Spec. 9: 109, 1911.

Tau: epiphyte, on dead limb of tree, Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber 629*.

**Phreatia samoensis** (Kraenzlin) Schlechter, in Fedde, Repert. Nov. Spec. 3: 320, 1907.

Tau: epiphyte, on tree trunk, slope of peak back of Tau, alt. 650 m., Jan. 28, 1922, *Garber 745*.

**Phreatia upoluensis** Schlechter, in Fedde, Repert. Nov. Spec. 3: 319, 1907.

Tau: epiphyte, in open forest along the trail one mile south of Siufaga, alt. 10 m., Sept. 25, 1939, *Yuncker 9000*.

Genus **Thrixspermum** Loureiro

**Thrixspermum** species.

Tau: epiphyte, in dense moist forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9271*.

Genus *Taeniophyllum* Blume**Taeniophyllum** species.

Tau: epiphyte, near South Point, Fitiuta trail, alt. 150 m., Oct. 12, 1921, *Garber 641*.

## DICOTYLEDONEAE

## FAMILY CASUARINACEAE

Genus *Casuarina* Linnaeus

**Casuarina equisetifolia** Linnaeus, *Amoen. Acad.* 4: 143, 1759.

A few trees on Tau and Ofu, Guest. Native name, *toa*.

## FAMILY PIPERACEAE

Genus *Piper* Linnaeus

**Piper Graeffei** Warburg, *Engl. Bot. Jahrb.* 25: 610, 1898.

Tau: climbing on trees along Fitiuta trail, Sept. 26, 1939, *Yuncker 9040, 9042, 9048*.

Ofu: clinging to tree along southeastern shore trail, Nov. 26, 1939, *Yuncker 9510*. Native name, *fue manogi*.

**Piper Graeffei** Warburg var. *cordatum* Warburg, *Engl. Bot. Jahrb.* 25: 610, 1898.

Tau: clinging on tree in rocky ravine on slope south of Siufaga, alt. 100 m., Sept. 25, 1939, *Yuncker 9013*; clinging on trees along bush trail back of Luma village, alt. 225 m., Jan. 28, 1922, *Garber 711* (?). Native name, *'ava'ava aitu*.

**Piper Graeffei** Warburg var. (?).

Ofu: clinging on trees, leaves broadly ovate, glabrous, 7-9-nerved, slope back of Ofu village, alt. 180 m., Nov. 25, 1939, *Yuncker 9447*.

**Piper Macgillivrayi** C. DeCandolle var. (?) *subrotundifolium* C. DeCandolle, *Akad. Wiss. Wien, Denkschr.* 85: 264, 1910.

Tau: clinging on tree south of Siufaga, Sept. 29, 1939, *Yuncker 9118*; along Amouli trail, Sept. 16, 1921, *Garber 638*. Native names, *'avasa, 'ava'ava aitu*.

**Piper methysticum** Forster f., *De Plant Esculent.*, 76, 1786.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9205*; plateau back of Luma village, alt. 150 m., Dec. 15, 1921, *Garber 654*.

Ofu: edge of plantation on ridge behind Ofu village, alt. 20 m., Nov. 27, 1939, *Yuncker 9538*. Native names, *'ava, 'ava inu*.

Genus *Peperomia* Ruiz and Pavon

*Peperomia tutuilana* Yuncker, B. P. Bishop Mus., Bull. 143: 33, fig. 18, 1937.

Tau: on rocks along the Fitiuta trail, Sept. 26, 1939, *Yuncker 9031*. Native name, *la'au sosolo i le ma'a*.

## FAMILY ULMACEAE

Genus *Trema* Loureiro

*Trema orientalis* (Linnaeus) Blume var. *viridis* Lauterbach, Engl. Bot. Jahrb. 50: 321, fig. 2-D, 1913.

Tau: along Fitiuta trail, Sept. 26, 1939, *Yuncker 9046*; Fitiuta trail back of Luma, alt. 100 m., Dec. 16, 1921, *Garber 670*.

Ofu: in forest on main ridge, alt. 100 m., Nov. 25, 1939, *Yuncker 9461*. Abundant on all islands, Guest. Native name, *magele*.

## FAMILY MORACEAE

Genus *Broussonetia* L'Heritier

*Broussonetia papyrifera* (Linnaeus) Ventenat, Tabl. Regn. Veg. 3: 547, 1794.

Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9204*.

Olosega: plantation back of Olosegauta, alt. 350 m., *Garber 1071*. Cultivated on all the islands, Guest. Native names, *u'a*, *siapo*.

Genus *Artocarpus* Forster

*Artocarpus altilis* (Parkinson) Fosberg, Washington Acad. Sci., Jour. 31: 95, 1941.

Ofu: cultivated, June 1925, *Garber 1003, 1004, 1005, 1006, 1007, 1016, 1017, 1018*. The breadfruit is cultivated in all of the villages. The natives recognize a number of varieties on the basis of the shape and size of the leaves or shape and quality of the fruit. Native name, *'ulu*.

Genus *Ficus* Linnaeus

*Ficus ciliata* Warburg, in Engl. Bot. Jahrb. 25: 615, 1898.

Tau: in thicket near the beach south of Siufaga, Oct. 4, 1939, *Yuncker 9242*; along trail near Fitiuta, Sept. 26, 1939, *Yuncker 9033*; in thicket on slope two miles south of Siufaga, Oct. 1, 1939, *Yuncker 9145*.

*Ficus Godeffroyi* Warburg, in Engl. Bot. Jahrb. 25: 613, 1898.

Olosega: Olosegauta-Piunafua ridge, alt. 500-600 m., June 17, 1925, *Garber 1055, 1058, 1064*. Moderate on Tau, Ofu, and Olosega, Guest. Native name, *aoa*.

*Ficus obliqua* Forster f., Fl. Ins. Austr. Prodr., 77, 1786.

Ofu: in forest on ridge behind Ofu village, alt. 360 m., Nov. 27, 1939, *Yuncker 9543*; Nuu Islet, June 4, 1925, *Garber 992*.

**Ficus prolixa** Forster f., Fl. Ins. Austr. Prodr., 77, 1786.

Tau: in thicket on plateau above Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9180*. Moderate on Tau, Ofu and Olosega, Guest.

?**Ficus scabra** Forster f., Fl. Ins. Austr. Prodr., 76, 1786.

Ofu: in thicket on slope behind Ofu village, Nov. 25, 1939, *Yuncker 9473*. Native name, *mati*.

**Ficus tinctoria** Forster f., Fl. Ins. Austr. Prodr., 76, 1786.

Tau: in open forest along trail near Fitiuta, Sept. 29, 1939, *Yuncker 9052*; trail back of Luma, alt. 30 m., Aug. 21, 1921, *Garber 544*.

Ofu: Alaufau [Aloafao], June 5, 1925, *Garber 996*. Abundant on all the islands, Guest. Native name, *mati*.

#### FAMILY URTICACEAE

##### Genus *Fleurya* Gaudichaud

**Fleurya interrupta** (Linnaeus) Gaudichaud, Bot. Freyc. Voy., 497, 1826.

Tau: plateau back of Faleasao, alt. 150 m., Aug. 4, 1921, *Garber 576*; south side of South Cove, Papatea, on tuff near the beach, July 15, 1938, *W. Harris 320*; Papatea, in sand near the beach, July 15, 1938, *W. Harris 261*.

Ofu: at plantation house, Tua, June 5, 1925, *Garber 1001*; Aloafao, June 6, 1925, *Garber 1013*. Native names, *ogogo*, *vao mageso*.

##### Genus *Elatostema* Forster

**Elatostema basiandrum** Reinecke, in Engl. Bot. Jahrb. 25: 622, 1898.

Tau: in stream bed, gulch on side of Palapala Hill, damp forest, alt. 300 m., July 10, 1938, *W. Harris 190*.

**Elatostema strictum** Reinecke, in Engl. Bot. Jahrb. 25: 625, 1898.

Tau: on rocks in moist ravine, alt. 200 m., Sept. 27, 1939, *Yuncker 9081*.

##### Genus *Procris* Commerson

**Procris pedunculata** (Forster) Weddell, DC Prodr. 16(1): 191, 1869.

Tau: in moist thicket along Fitiuta trail, Sept. 26, 1939, *Yuncker 9051*; Fitiuta trail, Aug. 10, 1921, *Garber 607*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 389*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 320*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 261*. Native names, *fua lole*, *lole vao*, *fua feti'iti'i*.

##### Genus *Pipturus* Weddell

**Pipturus aff. argenteus** (Forster) Weddell, DC Prodr. 16(1): 235, 19, 1869.

Tau: in thicket on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9185*; beach at Fitiuta, Aug. 8, 1921, *Garber 585*; Faleasao, Jan. 8, 1922, *Garber 696*.

Ofu: in thicket along northwest shore, Nov. 28, 1939, *Yuncker 9547*; in thicket on ridge back of Ofu village, alt. 120 m., Nov. 25, 1939, *Yuncker 9472*;

in sandy soil along the northwest shore, alt. 5 m., Nov. 28, 1939, *Yuncker 9564, 9567*; Nuu Islet, July 4, 1925, *Garber 1110*. Abundant on all the islands, Guest. Native name, *soga*.

Genus **Maoutia** Weddell

**Maoutia australis** Weddell, Nouv. Arch. Mus. Hist. Nat. Paris 9: 480, 1856.

Ofu: in thicket on ridge above Ofu village, alt. 360 m., Nov. 27, 1939, *Yuncker 9530*. Native name, *ole tau'uta*.

FAMILY AMARANTHACEAE

Genus **Amaranthus** Linnaeus

**Amaranthus viridis** Linnaeus, Sp. Pl. ed. 2, 1405, 1763.

Tau: weed in taro patch near Siufaga, Oct. 3, 1939, *Yuncker 9197*; along trail behind Luma, Aug. 5, 1938, *W. Harris 9*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 262*.

Olosega: Olosega-Olosegauta trail, June 17, 1925, *Garber 1069*. Native name, *autasi*.

Genus **Cyathula** Loureiro

**Cyathula prostrata** (Linnaeus) Blume, Bijdr. Fl. Jav., 549, 1825.

Tau: weed, common in sandy soil, Siufaga, Oct. 2, 1939, *Yuncker 9170*; Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 592*; Fitiuta trail, alt. 100 m., Dec. 16, 1921, *Garber 669*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 215*. Native names, *manutoga, lau talatala*.

Genus **Achyranthes** Linnaeus

**Achyranthes aspera** Linnaeus, Sp. Pl., 204, 1753.

Tau: Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber 563, 568*; south side of South Cove, Papatea, on tuff near beach, July 15, 1938, *W. Harris 322*. Native names, *lau tamatama, la'au talatala*.

Genus **Alternanthera** Forskål

**Alternanthera sessilis** (Linnaeus) R. Brown, ex Roemer and Schultes, Syst. 5: 554, 1819.

Tau: weed in sandy soil, Siufaga, Oct. 2, 1939, *Yuncker 9172*; in shallow water of taro patch near Siufaga, Oct. 6, 1939, *Yuncker 9275*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 321*; along trail behind Luma, Aug. 5, 1938, *W. Harris 8*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1939, *W. Harris 236*.

Ofu: Aloafao, June 6, 1925, *Garber 1010*. Native name, *vao sosolo*.

Genus **Gomphrena** Linnaeus

**Gomphrena globosa** Linnaeus, Sp. Pl., 224, 1753.

Tau: dooryard ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9206*. Native name, *malila*.

## FAMILY NYCTAGINACEAE

Genus *Boerhaavia* Linnaeus

***Boerhaavia diffusa*** Linnaeus, Sp. Pl., 3, 1753.

Tau: in sandy soil, Siufaga, Oct. 6, 1939, *Yuncker 9281*; roadside, Fitiuta, Aug. 8, 1921, *Garber 586*; in sand along trail behind Luma, Aug. 1938, *W. Harris 10*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 76, 96*.

Ofu: on old lava along northwestern shore, Nov. 28, 1939, *Yuncker 9551*.

Genus *Pisonia* Linnaeus

***Pisonia grandis*** R. Brown, Prodr. Fl. Nov. Holl. 1: 422, 1810.

Ofu: on rocky talus slope at base of cliff along northwestern shore, Nov. 28, 1939, *Yuncker 9556*. Abundant on all the islands, Guest. Native name, *pu'a vai*.

***Pisonia umbellifera*** (Forster) Seemann, Bonplandia 10: 154, 1862.

Tau: in moist ravine south of Siufaga, alt. 100 m., Sept. 25, 1939, *Yuncker 9002*; between one and two miles south of Siufaga, in dark ravine, alt. 100 m., Sept. 27, 1939, *Yuncker 9064*; plateau back of Faleasao, alt. 150 m., Aug. 4, 1921, *Garber 574*; Faleasao-Fitiuta trail, April 19, 1922, *Garber 761*.

## FAMILY AIZOACEAE

Genus *Sesuvium* Linnaeus

***Sesuvium Portulacastrum*** Linnaeus, Syst., 10th ed., 1058, 1759.

Ofu: on spray-swept lava rocks along the northwestern shore, Nov. 28, 1939, *Yuncker 9558*; rock crevices on spray-swept cliff, Ofu-Samoi trail, June 7, 1925, *Garber 1024*.

## FAMILY PORTULACACEAE

Genus *Portulaca* Linnaeus

***Portulaca lutea*** Solander, Forster f., De Pl. Esc., 72, 1786.

Ofu: on old lava along the shore, Nov. 28, 1939, *Yuncker 9559* (this specimen is sterile but agrees well with this species in its vegetative characters); rocky cliff, Feaia Point, June 7, 1925, *Garber 1023*. Native name, *tamole*.

***Portulaca oleracea*** Linnaeus, Sp. Pl., 445, 1753.

Tau: weed in taro patch, near Luma, Oct. 6, 1939, *Yuncker 9279*; Papatea, in sand near the beach, July 15, 1938, *W. Harris 79, 99*. Native name, *tamole*.

***Portulaca samoensis*** von Poellnitz, in Fedde, Repert. Nov. Spec. 33: 163, 1933.

Tau: on lava rocks near the shore along the Luma-Faleasao trail, Sept. 20, 1939, *Yuncker 9122*; Faasamene Spring near Faleasao, Jan. 8, 1922, *Garber 697*; Papatea, in sandy soil near the beach, July 15, 1938, *W. Harris 77, 78, 80, 97, 98*.



Ofu: in sandy soil near the beach along the southeastern shore, Nov. 26, 1939, *Yuncker 9518*; along the Ofu-Samoi trail on exposed wind-swept rocky cliffs, June 7, 1925, *Garber 1025*. Native name, *tamole*.

## FAMILY ANNONACEAE

Genus *Cananga* Hooker f. and Thomson

*Cananga odorata* (Lamarck) Hooker f. and Thomson, Fl. Ind. 1: 130, 1855.

Tau: in thicket on plateau above Luma, alt. 45 m., Oct. 2, 1939, *Yuncker 9178*; on plateau back of Lumā, alt. 125 m., *Garber 650*. Abundant on all the islands, Guest. Native name, *moso'oi*.

## FAMILY MYRISTICACEAE

Genus *Myristica* Linnaeus

*Myristica inutilis* Rich, ex A. Gray, U. S. Expl. Exped., Bot. 15(1): 33, 1854.

Tau: in thicket on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9182*; in forest on slope two miles south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9161*; Fitiuta trail back of Faleasao, Aug. 11, 1921, *Garber 609*.

Ofu: in forest on main ridge, Nov. 27, 1939, *Yuncker 9541*. Abundant on all the islands, Guest. Native name, *atone*.

## FAMILY MONIMIACEAE

Genus *Hedycarya* Forster

*Hedycarya denticulata* (A. Gray) Perkins and Gilg, Pflanzenr. 49(IV.101): 19, 1901.

Ofu: on central ridge, alt. 250 m., Nov. 27, 1939, *Yuncker 9523*. Native name, *la'au fai vaitusi*.

## FAMILY LAURACEAE

Genus *Cinnamomum* Linnaeus

*Cinnamomum pallidum* Gillespie, B. P. Bishop Mus., Bull. 91: 6, fig. 5, 1932.

Tau: a few trees at Fitiuta, Guest. Native name, *tigamoni*.

Genus *Litsea* Lamarck

?*Litsea magnifolia* Gillespie var. *samoensis* Christophersen, B. P. Bishop Mus., Bull. 128: 89, fig. 10, 1935.

Tau: abundant at Fitiuta, Guest. Native name, *papaono*.

## FAMILY HERNANDIACEAE

Genus *Gyrocarpus* Jacquin

*Gyrocarpus americanus* Jacquin, Stirp. Am., 282, pl. 178, 1763.

Ofu: Nuu Islet, July 4, 1925, *Garber 1108*.

Genus **Hernandia** Plumier**Hernandia Moerenhoutiana** Guillemain, Sci. Nat., Ann. II, 7: 189, 1837.Tau: abundant, Guest. Native name, *pipi*.**Hernandia ovigera** Linnaeus, in Stickman Herb. Amb., 14, 1754.Tau: Amouli beach trail, Jan. 7, 1922, *Garber 676*.Ofu: in thicket along southeastern shore, Nov. 26, 1939, *Yuncker 9511*.Abundant on all islands, Guest. Native name, *pu'a*.

## FAMILY CRUCIFERAE

Genus **Nasturtium** R. Brown**Nasturtium sarmentosum** (Solander) O. E. Schulz, Engl. Bot. Jahrb. 32: 595, 1902.Tau: weed in sandy soil, Siufaga, Oct. 2, 1939, *Yuncker 9171*; on beach, Faleasao-Fanga [Faga] trail, Apr. 19, 1922, *Garber 762*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 325*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 81, 100*.Olosega: taro patch, back of Olosega village, June 23, 1925, *Garber 1089*. Native name, *lau taliga*.

## FAMILY CAPPARIDACEAE

Genus **Crataeva** Linnaeus**Crataeva religiosa** Forster f., Fl. Ins. Austr. Prodr., 35, 1786.Ofu: exposed coast near Mafafa, alt. 40 m., May 26, 1925, *Garber 983*.

## FAMILY CUNONIACEAE

Genus **Weinmannia** Linnaeus**Weinmannia manuana** Christophersen, B. P. Bishop Mus., Bull. 154: 10, fig. 2, 1938.Tau: old taro clearing on trail to peak, alt. 530 m., Jan. 28, 1922, *Garber 720*.Olosega: top of Piumafua mountain, alt. 630 m., June 17, 1925, *Garber 1027, 1031*; Piumafua ridge, alt. 480 m., June 17, 1925, *Garber 1066*. Native name, *laga'ali*.

## FAMILY ROSACEAE

Genus **Parinarium** Aublet**Parinarium glaberrimum** Hasskarl, Flora 27: 583, 1844.

Tau: abundant at Fitiuta, Guest.

Ofu: scarce, Guest. Native name, *ififi*.**Parinarium insularum** A. Gray, U. S. Expl. Exped., Bot. 15(1): 488, pl. 54, 1854.Scarce on Tau and Olosega, Guest. Native name, *sea*.

## FAMILY LEGUMINOSAE

Genus *Leucaena* Bentham

***Leucaena glauca*** (Linnaeus) Bentham, Hook. Jour. Bot. 4: 416, 1842.

Tau: in thicket near the sea, south of Siufaga, Sept. 29, 1939, *Yuncker 9108*. Native name, *lopa samoa*.

Genus *Adenanthera* Royen

***Adenanthera pavonina*** Linnaeus, Sp. Pl., 384, 1753.

Abundant on all of the islands, Guest. Native name, *lopa*.

Genus *Caesalpinia* Linnaeus

***Caesalpinia jayabo*** Maza, Soc. Esp. Hist. Nat., Anal. 19: 234, 1890.

Ofu: at Aofa, alt. 275 m., Sept. 3, 1925, *Garber 1115*. Native name, *anaoso*.

***Caesalpinia pulcherrima*** (Linnaeus) Swartz, Observ. Bot., 166, 1791.

Ofu: cultivated ornamental, village of Ofu, June 1925, *Garber 1087*. Native name, *lau pa*.

Genus *Sophora* Linnaeus

***Sophora tomentosa*** Linnaeus, Sp. Pl., 373, 1753.

Ofu: along southeastern shore near the beach, Nov. 26, 1939, *Yuncker 9496*; beach at Muliulu, May 26, 1925, *Garber 985*. Native name, *fua feti'itii*.

Genus *Indigofera* Linnaeus

***Indigofera suffruticosa*** Miller, Gard. Dict., 8th ed., no. 2, 1768.

Tau: along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9127*; along trail near Fitiuta village, Sept. 26, 1939, *Yuncker 9053*; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber 550*; plateau back of Luma, alt. 105 m., May 28, 1937, *W. Harris 271*.

Genus *Tephrosia* Persoon

***Tephrosia purpurea*** (Linnaeus) Persoon, Syn. Pl. 2: 329, 1807.

Tau: in sandy soil near the shore south of Siufaga, Oct. 4, 1939, *Yuncker 9229*.

Ofu: in sandy soil near the shore, Ofu village, Nov. 25, 1939, *Yuncker 9490*; Aloafao, June 4, 1925, *Garber 988*. Native name, *'avasa*.

Genus *Desmodium* Desvaux

***Desmodium heterocarpum*** (Linnaeus) DeCandolle, Prodr. 2: 337, 1825.

Tau: in thicket along trail south of Siufaga, Sept. 27, 1939, *Yuncker 9083*; Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 603*; Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber 634*; plateau back of Luma, alt. 100 m., Dec. 15, 1921, *Garber 645a*.

Ofu: in coconut grove near the village of Ofu, alt. 150 m., Nov. 25, 1939, *Yuncker 9469*; back of Ofu village, alt. 40 m., May 25, 1925, *Garber 979*.

**Desmodium umbellatum** (Linnaeus) DeCandolle, Prodr. 2: 325, 1825.

Tau: in thicket along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9139*; on lava cliff near the sea, Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9121*; Luma-Faleasao trail, Jan. 8, 1922, *Garber 692*. Native names, *lala*, *lau lala*.

Genus **Urania** Desvaux

**Urania lagopodioides** (Linnaeus) Desvaux, Soc. Linn. Paris, Mém. 4: 309, 1826.

Tau: plateau back of Luma, alt. 100 m., Dec. 15, 1921, *Garber 645b*. Native name, *lala*.

Genus **Lourea** Necker

**Lourea vespertilionis** (Linnaeus f.) Desvaux, Jour. Bot. 1: 122, pl. 5, fig. 18, 1813.

Tau: cultivated ornamental, Luma, Oct. 3, 1939, *Yuncker 9207*.

Genus **Inocarpus** Forster

**Inocarpus fagiferus** (Parkinson) Fosberg, Washington Acad. Sci., Jour. 31: 95, 1941.

Tau: in open woods along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9130*; Luma, Dec. 15, 1921, *Garber 661*. Abundant on all of the islands, Guest. Native name, *ifi*.

Genus **Abrus** Linnaeus

**Abrus precatorius** Linnaeus, Syst., ed. 12, 472, 1767.

Ofu: Nuu Islet, July 4, 1925, *Garber 1111*. Native name, *fuefue laulili'i*.

Genus **Erythrina** Linnaeus

**Erythrina variegata** Linnaeus var. **orientalis** (Linnaeus) Merrill, Interpret. Herb. Amb., 276, 1917.

Tau: in thicket near the shore two miles south of Siufaga, Oct. 1, 1939, *Yuncker 9143*; plateau back of Luma, alt. 100-125 m., Aug. 4, 1921, *Garber 581*.

Ofu: along the southeastern shore, Nov. 26, 1939, *Yuncker 9502*; at water's edge, Toanga [Toaga], June 23, 1925, *Garber 1094*. Moderate on Olosega, Guest. Native name, *gatae*.

Genus **Mucuna** Adanson

**Mucuna gigantea** (Willdenow) DeCandolle, Prodr. 2: 405, 1825.

Ofu: climbing in trees along the southeastern shore, Nov. 26, 1939, *Yuncker 9512*. Native name, *fuefue*.

Genus **Pueraria** DeCandolle

**Pueraria Thunbergiana** (Siebold and Zuccarini) Bentham, Linn. Soc. Bot., Jour. 9: 122, 1865.

Tau: plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 651*.

Genus *Canavalia* DeCandolle

*Canavalia rosea* (Swartz) DeCandolle, Prodr. 2: 404, 1825.

Tau: sandy beach, Faga-Faleasao, Apr. 19, 1922, *Garber 763*.

Ofu: plantation, June 5, 1925, *Garber 1000*; beach, Aloafao, July 5, 1925, *Garber 1114*. Native names, *va'a, fuefue fai va'a*.

Genus *Vigna* Savi

*Vigna marina* (Burman) Merrill, Interpret. Herb. Amb., 285, 1917.

Tau: in sandy soil near the beach south of Siufaga, Sept. 29, 1939, *Yuncker 9101*; sandy beach, Fangamalo [Fagamalo], Jan. 7, 1922, *Garber 684*; Faleasao-Fitiuta trail, alt. 20 m., Jan. 8, 1922, *Garber 700*.

Ofu: beach, Aloafao, July 5, 1925, *Garber 1113*. Native names, *lau fuefue, fuefue*.

## FAMILY OXALIDACEAE

Genus *Oxalis* Linnaeus

*Oxalis corniculata* Linnaeus var. *repens* (Thunberg) Zuccarini, Akad. Muench., Abh. 1: 230, 1829-30.

Tau: in sand near the beach, Papatea, July 15, 1938, *W. Harris 82*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 34*.

Ofu: on rocks about the water reservoir near Ofu village, alt. 15 m., Nov. 25, 1939, *Yuncker 9482*.

Olosega: plantation above Olosegauta, alt. 330 m., June 17, 1925, *Garber 1082*. Native name, *a'aa'a*.

## FAMILY RUTACEAE

Genus *Evodia* Forster

*Evodia hortensis* Forster f. *simplicifolia* (Rechinger) K. Schumann, Engl. Bot. Jahrb. 55: 232, 1918.

Ofu: cultivated ornamental, Ofu village, Nov. 25, 1939, *Yuncker 9446*. Abundant on all the islands, Guest. Native name, *usi*.

*Evodia samoensis* Christophersen, B. P. Bishop Mus., Bull. 154: 12, 1938.

Tau: in thicket on plateau behind Siufaga, Oct. 2, 1939, *Yuncker 9193*; Amouli trail, alt. 200 m., Sept. 16, 1921, *Garber 617*.

Ofu: in open forest on central ridge, alt. 180-200 m., Nov. 25, 1939, *Yuncker 9448*.

Olosega: top of Piumafua mountain, June 17, 1925, *Garber 1026*. Native name, *so'opini*.

Genus *Micromelum* Blume

*Micromelum minutum* (Forster f.) Seemann, Viti, Govt. Mission, 434, 1862.

Tau: Fitiuta trail, Dec. 16, 1921, *Garber 668*.

Ofu: Nuu Islet, June 4, 1925, *Garber 990*. On all the islands, Guest. Native name, *talafalu*.

Genus **Citrus** Linnaeus

**Citrus aurantifolia** (Christman) Swingle, Washington Acad. Sci., Jour. 3: 465, 1913.

Ofu: Aloafao, alt. 5 m., June 6, 1925, *Garber 1015*. Found in all villages in the islands, Guest. Native name, *moli tipolo*.

**Citrus Aurantium** Linnaeus, Sp. Pl., 782, 1753.

A few seedling trees are found around every village, Guest. Native name, *moli aina*.

**Citrus Hystrix** DeCandolle, Cat. Hort. Monsp., 97, 1813.

Tau: Fitiuta trail, Aug. 4, 1921, *Garber 569*. Found in or around almost every village, Guest. Native name, *moli u'u*.

**Citrus maxima** (Burman) Merrill, Interpret. Herb. Amb., 296, 1917.

Tau: a few trees at Fitiuta, Guest. Native name, *moli si-suka*.

**Citrus Medica** Linnaeus, Sp. Pl., 782, 1753.

A few trees in almost every village, Guest. Native names, *moli patupatu*, *tipolo*.

## FAMILY BURSERACEAE

Genus **Canarium** Linnaeus

**Canarium samoense** Engler, DC Monog. Phanerog. 4: 134, 1883.

On all of the islands, Guest. Native name, *ma'ali*.

**Canarium** species.

Tau: abundant at village of Tau, Guest. Native name, *a'amati'e*.

## FAMILY MELIACEAE

Genus **Dysoxylum** Blume

**Dysoxylum Richii** (A. Gray) DeCandolle, Monog. Phanerog. 1: 511, 1878.

Tau: in open forest on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9183*. Native name, *maota*.

Genus **Aglaia** Loureiro

**Aglaia samoensis** A. Gray, U. S. Expl. Exped., Bot. 15(1): 236, 1854.

Ofu: plantation at Toaga, June 22, 1925, *Garber 1098*. Abundant on all of the islands, Guest. Native name, *laga'ali*.

## FAMILY POLYGALACEAE

Genus **Polygala** Linnaeus

**Polygala paniculata** Linnaeus, Amoen. Acad. 5: 402, 1759.

Tau: along trail on plateau behind Siufaga, Oct. 2, 1939, *Yuncker 9175*. Native names, *fua paepae*, *fua lili'i*.

## FAMILY EUPHORBIACEAE

Genus *Glochidion* Forster

***Glochidion ramiflorum*** Forster var. ***samoanum*** (Mueller-Argau) Pax, Reinecke, Engl. Bot. Jahrb. 25: 645, 1898.

Ofu: in forest on central ridge, alt. 200 m., Nov. 25, 1939, *Yuncker 9463*; in forest on ridge back of Ofu village, alt. 150 m., Nov. 25, 1939, *Yuncker 9459*; in forest on ridge above Ofu village, alt. 350 m., Nov. 27, 1939, *Yuncker 9519*.

Olosega: top of Piumafua mountain, alt. 625 m., June 17, 1925, *Garber 1038*. Abundant on all of the islands, Guest. Native name, *masame*.

Genus *Breynia* Forster

***Breynia nivosa*** (Bull) Small, Torrey Bot. Club, Bull. 37: 516, 1910.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9195*.

Genus *Phyllanthus* Linnaeus

***Phyllanthus Niruri*** Linnaeus, Sp. Pl., 981, 1753.

Tau: weed in plantation, plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9188*; in sand, Luma, July 19, 1938, *W. Harris 24, 343*; side of trail behind Luma, Aug. 5, 1938, *W. Harris 15*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 87, 104*.

Ofu: weed near the shore, Nov. 28, 1939, *Yuncker 9552*. Native names, *lau lili'i, fua lili'i*.

***Phyllanthus simplex*** Retzius, Obs. 5: 29, 1789.

Tau: among ferns on moist bank along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9133*; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 693*.

Olosega: along the trail at Olosegauta, alt. 250 m., June 17, 1925, *Garber 1074*.

Genus *Securinega* A. L. deJussieu

***Securinega samoana*** Croizat, new species.

*Securinega* (§ *Flueggea*) species, Christophersen, B. P. Bishop Mus., Bull. 128: 120, 1935.

Arbor parva, ligno durissimo insignis, innovationibus flexuosis. Foliis cum petiolis glaberrimis, more generis distichis 9-18 cm. longis, 3-7 cm. latis, tenuissime chartaceis, in sicco olivaceis subconcoloribus, oblanceolato-cuspidatis vel oblanceolato-ellipticis, margine integerrimis, venis ca. 6-7-jugis, petiolo canaliculato vix 5-8 mm. longo. Floribus in glomerulis axillaribus congestis ♂ aut ♀, pulvinulum vix 1-2 cm. longum efformantibus. Perianthio ♂ ca. 2 mm. longo, latoque, lobis ovato-rotundatis 5; staminibus 5 oppositilobis, cum glandulis magnitudine formaque variis alternantibus, filamentis ca. 1 mm. longo, antheris ca. 0.25 mm. longis, pedicello ca. 3 mm. longo, gracili; pistillodio carnoso 2-partito. Perianthio ♀ illi ♂ subsimili, ovario globuloso-truncato glaberrimo ca. 1-1.5 mm. magno, stylis 3 e basi liberis apice retuse bifidis, semine brunneo leviusculo ad 1.5 mm. longo.

Tau: Siufaga, Oct. 3, 1939, "Tree 6 m. tall, 20 cm. diam." *Yuncker 9196*.

Savaii: Tufutafoe-Falelima, "Edge of forest, alt. about 25 m., tree 5 m. high, female, fr. black", Sept. 1931, *Christophersen 2765*. Type in herbarium of New York Botanical Garden.

Upolu: Vailima "Slopes and rocky woods alt. 100 m. Tree 10-25 m. high, diam. 14-20 cm.", Feb. 1921, *A. J. Eames 85*; Falealupo, 1931, *Christophersen 2794*; Saluafata, "Poumouli, fruit blue black", 1929, *Christophersen 943*.

Without locality, *Y. Powell 1880*.

Christophersen doubts that this plant is native to Samoa and it must be admitted that its characters bring it close to *S. flexuosa* Mueller-Argau, endemic to the Philippine Islands. As a matter of fact, it would prove impossible to separate the Samoan plant specifically from that of the Philippines if the ranges were in common. A careful comparison of representative sets of *S. flexuosa* and *S. samoana* of both sexes and in every stage of growth shows, however, that (1) the Samoan plant has foliage which tends to be more broadly oblong and short-cuspidate than that of the Philippines; (2) the pedicel of the female flower near the young fruit stage reaches 6-8 mm. in *S. flexuosa*, while it does not exceed 4-5 mm. in *S. samoana*; (3) the style of *S. flexuosa* is more or less stipitate, instead of sessile, as in *S. samoana*; (4) the seed is slightly longer and manifestly more voluminous in *S. flexuosa* than it is in *S. samoana*. All these differences, taken severally, would be trifling, but together, with the different ranges, suggest that the description of a new species is advisable. The specific characters of *Securinega* are seldom strongly marked among species of the same affinity.

With the final addition of *S. samoana*, *Securinega* becomes one of the most widespread genera, its range including Oceania, Australasia, Asia proper, Africa, Europe, and America. Native name, *poumuli*.

#### Genus *Bischofia* Blume

***Bischofia javanica*** Blume, Bijdr. Fl. Jav., 1168, 1826.

Tau: plantation back of Luma, Sept. 13, 1921, *Garber 613*; plateau back of Luma, alt. 105 m., May 29, 1937, *W. Harris 289*. Abundant on all of the islands, Guest. Native name, *'o'a*.

#### Genus *Aleurites* Forster

***Aleurites moluccana*** (Linnaeus) Willdenow, Sp. Pl. 4: 590, 1805.

Tau: plateau back of Luma, alt. 100 m., Sept. 21, 1922, *Garber 777*.

Ofu: on ridge back of Ofu village, alt. 100 m., Nov. 27, 1939, *Yuncker 9540*.

Olosega: abundant, Guest. Native name, *lama*.

#### Genus *Macaranga* Thouars

***Macaranga Harveyana*** Mueller-Argau, DC Prodr. 15(2): 998, 1866.

Tau: along the Fitiuta trail, alt. 50 m., Sept. 26, 1939, *Yuncker 9037*; Amouli trail, alt. 75 m., Sept. 16, 1921, *Garber 614*.



Ofu: in forest on main ridge, alt. 150 m., Nov. 25, 1939, *Yuncker 9467*; Feaia Point, alt. 75 m., May 25, 1925, *Garber 978*. Native names, *pata*, *pata laititi*.

**Macaranga stipulosa** Mueller-Argau, DC Prodr. 15(2): 1001, 1866.

Tau: Amouli trail, alt. 200 m., Sept. 16, 1921, *Garber 636*.

Olosega: Olosegauta-Piumafua Ridge, alt. 500 m., June 17, 1925, *Garber 1072*. Abundant on all of the islands, Guest. Native name, *pata*.

#### Genus *Acalypha* Linnaeus

**Acalypha boehmerioides** Miquel, Fl. Ind. Bat. Suppl., 459, 1861-62.

Tau: dooryard weed, Siufaga, Oct. 6, 1939, *Yuncker 9280*; along the trail behind Luma, Aug. 5, 1938, *W. Harris 7*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 74*.

Ofu: Aloafao, June 6, 1925, *Garber 1014*. Native name, *ogoogo*.

**Acalypha grandis** Bentham, Hook. Lond. Jour. Bot. 2: 232, 1843.

Olosega: at beach, Asanga [Asaga] Pass, June 23, 1925, *Garber 1093*. Native name, *lala*.

**Acalypha hispida** Burman f., Fl. Ind., 303, pl. 61, fig. 1, 1768.

Tau: cultivated ornamental, Siufaga, Oct. 2, 1939, *Yuncker 9168*.

**Acalypha Wilkesiana** Mueller-Argau, DC Prodr. 15(2): 817, 1866.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9223*.

#### Genus *Codiaeum* (Rumphius) Jussieu

**Codiaeum variegatum** (Linnaeus) Blume var. **pictum** (Loddiges) Mueller-Argau, DC Prodr. 15(2): 1119, 1866.

Tau: on plateau back of Luma, alt. 105 m., Aug. 4, 1922, *Garber 769* (form *appendiculatum* Celakovsky). A number of different forms cultivated for ornament about dwellings on the islands of Tau and Ofu were noted but not collected. Native name, *motu*.

#### Genus *Manihot* Miller

**Manihot esculenta** Crantz, Inst. Rei Herb. 1: 167, 1766.

Tau: about dwellings, Luma, Sept. 30, 1939, *Yuncker 9138*. Native names, *ufi maniota*, *manioka*, *tapioka*.

#### Genus *Homalanthus* Jussieu

**Homalanthus acuminatus** (Mueller-Argau) Pax, Reinecke, Engl. Bot. Jahrb. 25: 648, 1898.

Abundant on all of the islands, Guest. Native name, *mamala*.

**Homalanthus nutans** (Forster) Pax, in Engler and Prantl, Nat. Pflanzenfam. 3(5): 96, 1890.

Tau: in thicket along Fitiuta trail, alt. 50 m., Sept. 26, 1939, *Yuncker 9045*; Fitiuta trail back of Luma, alt. 60 m., Aug. 4, 1921, *Garber 553*.

Ofu: in thicket on ridge back of Ofu village, alt. 300 m., Nov. 27, 1939, *Yuncker 9534*.

Olosega: Olosegauta-Piumafua Ridge, alt. 475 m., June 17, 1925, *Garber 1029*. Native names, *mamala*, *fanuamamala*.

#### Genus *Euphorbia* Linnaeus

***Euphorbia Atoto*** Forster f., Fl. Ins. Austr. Prodr., 207, 1786.

Tau: in sandy soil near the shore, Sept. 29, 1939, *Yuncker 9112*; in sandy soil, Luma, July 20, 1938, *W. Harris 340*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 84*.

Ofu: coral beach, Muliulu, May 26, 1925, *Garber 986*. Native names, *pulutai*, *a'atasi*.

***Euphorbia hirta*** Linnaeus, Sp. Pl., 454, 1753.

Tau: weed along Luma-Faleasao trail, Sept. 30, 1939, *Yuncker 9120*; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 691*; Luma, in sand near the beach, July 20, 1938, *W. Harris 13, 14, 23, 341*; Papatea, in sand near the beach, July 15, 1938, *W. Harris 83, 85, 103*; Faleulu, in plantation, alt. 180 m., July 27, 1938, *W. Harris 237*. Native name, *la'au fai moti*.

***Euphorbia prostrata*** Aiton, Hort. Kew. 2: 136, 1789.

Tau: in sandy soil near the beach, Oct. 2, 1939, *Yuncker 9116*; Luma, in sand near the beach, July 20, 1938, *W. Harris 342*; Papatea, in sand near the beach, July 15, 1938, *W. Harris 86*. Native name, *lau lili'i*.

#### FAMILY ANACARDIACEAE

#### Genus *Buchanania* Roxburgh

***Buchanania Merrillii*** Christophersen, B. P. Bishop Mus., Bull. 154: 14, 1938.

Tau: abundant in the mountains and at Fitiuta, Guest. Native name, *nasu*.

#### Genus *Mangifera* Linnaeus

***Mangifera indica*** Linnaeus, Sp. Pl., 200, 1753.

Tau: Siufaga, Oct. 1, 1939, *Yuncker 9158*. Seedling trees found about almost every village on the islands, Guest. Native name, *mago*.

#### Genus *Spondias* Linnaeus

***Spondias dulcis*** Parkinson, Jour. Voy. Endeavour, 39, 1773.

Tau: cultivated, Siufaga, Jan. 11, 1922, *Garber 706*. Common on all of the islands, Guest. Native name, *vi*.

#### Genus *Rhus* Linnaeus

***Rhus taitensis*** Guillemain, Sci. Nat. Bot., Ann. II, 7: 361, 1837.

Tau: in forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9245*.

Ofu: in forest on central ridge, alt. 300 m., Nov. 27, 1939, *Yuncker 9533*. Abundant on all of the islands, Guest. This is a common forest tree. The above cited specimens agree well with those from Upolu and Savaii as reported by Christophersen, which he doubtfully refers to this species. Native name, *tavai*.

## FAMILY ICACINACEAE

Genus *Chariessa* Miquel

*Chariessa samoensis* (A. Gray) Engler, in Engler and Prantl, Nat. Pflanzenfam. III, 5: 245, 1893.

Abundant on all of the islands, Guest. Native names, *ala'a*, *aloalo vao*.

## FAMILY SAPINDACEAE

Genus *Pometia* Forster

*Pometia pinnata* Forster, Charact. Gen. Pl., 110, pl. 55, 1776.

Abundant on all of the islands, Guest. Native name, *tava*.

Genus *Alectryon* Gaertner

*Alectryon samoensis* Christophersen, B. P. Bishop Mus., Bull. 128: 130, fig. 16, 1935.

Moderate on all of the islands, Guest. Native name, *taputo'i*.

## FAMILY RHAMNACEAE

Genus *Colubrina* L. C. Richard

*Colubrina asiatica* (Linnaeus) Brongniart, Sci. Nat., Ann. 10: 369, 1827.

Tau: in thicket along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9126*; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 687*.

Ofu: Nuu Islet, June 4, 1925, *Garber 993*. Native name, *fisoa*.

Genus *Alphitonia* Reissek

*Alphitonia zizyphoides* (Sprengel) A. Gray, U. S. Expl. Exped., Bot. 15(1): 278, 1854.

Tau: Fitiuta trail, alt. 100 m., Aug. 4, 1921, *Garber 559*.

Ofu: Nuu Islet, alt. 75 m., July 4, 1925, *Garber 1104*. Abundant on all of the islands, Guest. Native name, *toi*.

## FAMILY TILIACEAE

Genus *Trichospermum* Blume

*Trichospermum Richii* (A. Gray) Seemann, Bonplandia 9: 254, 1861.

Tau: in forest on slope south of Siufaga, alt. 300 m., Oct. 4, 1939, *Yuncker 9231*.

Genus *Grewia* Linnaeus

**Grewia crenata** (J. R. and G. Forster) Setchell, Dept. Marine Biol. Carnegie Inst. Washington 20: 72, 1924.

Abundant on all of the islands, Guest. Native name, *fau'ui*.

Genus *Triumfetta* Linnaeus

**Triumfetta Bartramia** Linnaeus, Syst., ed. 10, 1044, 1759.

Tau: Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 602*.

Olosega: Olosegauta, alt. 250 m., June 17, 1925, *Garber 1076*. Native name, *mautofu vao*.

**Triumfetta procumbens** Forster f., Prodr., 35, 1786.

Tau: in sandy soil, coconut grove near the shore, Sept. 25, 1939, *Yuncker 9022*; beach at Fitiuta, Aug. 8, 1921, *Garber 582*; sandy beach, Faga, April 20, 1922, *Garber 764*.

Ofu: in sandy soil along southeastern shore, Nov. 26, 1939, *Yuncker 9497*. Native name, *fuatala*.

## FAMILY MALVACEAE

Genus *Sida* Linnaeus

**Sida rhombifolia** Linnaeus, Sp. Pl., 684, 1753.

Tau: in sandy soil near the shore, Oct. 1, 1939, *Yuncker 9144*; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber 548*; along the trail behind Luma, Aug. 5, 1938, *W. Harris 16*; in sand along the beach, Papatea, July 15, 1938, *W. Harris 88*; in coconut, breadfruit and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 195*.

Ofu: Tua, June 7, 1925, *Garber 1020*.

Olosega: Olosegauta-Piumafua Ridge, alt. 525 m., June 17, 1925, *Garber 1075*. Native name, *mautofu*.

**Sida samoensis** Rechinger, in Fedde, Repert. Nov. Spec. 4: 228, 1907.

Tau: in sand near the beach, Oct. 2, 1939, *Yuncker 9167*.

Genus *Urena* Linnaeus

**Urena lobata** Linnaeus, Sp. Pl., 692, 1753.

Tau: in sandy soil near the shore two miles south of Siufaga, Oct. 1, 1939, *Yuncker 9142*; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber 545*.

Ofu: weed in plantation near the village of Ofu, Nov. 25, 1939, *Yuncker 9492*. Native name, *mautofu*.

Genus *Hibiscus* Linnaeus

**Hibiscus Abelmoschus** Linnaeus, Sp. Pl., 696, 1753.

Tau: in swampy area back of Siufaga, Oct. 7, 1939, *Yuncker 9298*; in clearing along trail to Fitiuta, Sept. 26, 1939, *Yuncker 9035*; Sani Ridge above

Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 601*; Luma-Faleasao trail, Oct. 1930, *Judd*.

Olosega: taro plantation back of Olosegauta, alt. 350 m., June 17, 1925, *Garber 1085*. Native names, *fau tagaloo*, *fua samasama*, *vavae samoa*.

**Hibiscus Rosa-sinensis** Linnaeus, Sp. Pl., 694, 1753.

Ofu: near the beach, village of Ofu, Nov. 28, 1939, *Yuncker 9565*. A number of hybrid varieties of *Hibiscus* are in cultivation as ornamentals in the various villages about the islands. Native name, *aute*.

**Hibiscus Sabdariffa** Linnaeus, Sp. Pl., 695, 1753.

Ofu: cultivated, Aloafao, June 4, 1925, *Garber 989*. Native name, *uaina*.

**Hibiscus tiliaceus** Linnaeus, Sp. Pl., 694, 1753.

Tau: near the shore south of Siufaga, Sept. 29, 1939, *Yuncker 9094*; at the beach, Fitiuta, Aug. 8, 1921, *Garber 583*.

Ofu: near the shore along the southeastern shore, Nov. 26, 1939, *Yuncker 9495*. Abundant on all of the islands, Guest. Native name, *fau*.

#### Genus *Thespesia* Solander

**Thespesia populnea** (Linnaeus) Solander, ex. Correa, Mus. Hist. Nat. Paris, Ann. 9: 290, 1807.

Tau: beach at Fagamalo, Jan. 7, 1922, *Garber 683*.

Ofu: near the shore on the northwestern shore, Nov. 28, 1939, *Yuncker 9570*; rocky coast near Tuafanua, May 26, 1925, *Garber 982*. Moderate to abundant on all of the islands, Guest. Native name, *miio*.

#### Genus *Gossypium* Linnaeus

**Gossypium brasiliense** Macfayden, Fl. Jam. 1: 72, 1837.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9217*.

Ofu: Nuu Islet, July 4, 1925, *Garber 1105*. Native name, *vavae samoa*.

#### FAMILY BOMBACACEAE

##### Genus *Ceiba* Medikus

**Ceiba pentandra** (Linnaeus) Gaertner, Fruct. et Semin. 2: 224, pl. 133, fig. 1, 1791.

Tau: in clearing on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9189*.

Ofu: cultivated, Aloafao, June 26, 1925, *Garber 1056*. In every village on the islands, Guest. Native names, *vavae*, *vavae papalagi*.

#### FAMILY STERCULIACEAE

##### Genus *Melochia* Linnaeus

**Melochia odorata** Linnaeus f., Suppl., 302, 1781.

Abundant on all of the islands, Guest. Native name, *ma'o*.

Genus **Theobroma** Linnaeus**Theobroma Cacao** Linnaeus, Sp. Pl., 782, 1753.A few trees near the village of Tau on the island of Tau and also on Ofu, Guest. Native name, *koko* [*toto*].Genus **Kleinhovia** Linnaeus**Kleinhovia hospita** Linnaeus, Sp. Pl., ed. 2, 1365, 1763.Tau: Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber 565*. Abundant on all of the islands, Guest. Native name, *fu'afu'a*.Genus **Sterculia** Linnaeus**Sterculia fanaiho** Setchell, Dept. Marine Biol. Carnegie Inst. Washington 20: 69, 1924.Tau: plateau back of Luma, alt. 100 m., Sept. 21, 1921, *Garber 775*.Ofu: in open woods along the southeastern shore, Nov. 26, 1939, *Yuncker 9513*; Nuu Islet, July 4, 1925, *Garber 1112*. Abundant on all of the islands, Guest. Native name, *fana'io*.

## FAMILY GUTTIFERAE

Genus **Calophyllum** Linnaeus**Calophyllum inophyllum** Linnaeus, Sp. Pl., 513, 1753.Tau: near the beach, Siufaga, Oct. 2, 1939, *Yuncker 9194*; in forest back of Luma, alt. 3 m., Jan. 11, 1922, *Garber 704*.Ofu: in forest on the main ridge, alt. 250 m., Nov. 25, 1939, *Yuncker 9468*. Native name, *fetau*.**Calophyllum samoense** Christophersen, B. P. Bishop Mus., Bull. 128: 147, fig. 20, 1935.Abundant on all of the islands, Guest. Native name, *tamanu*.

## FAMILY BIXACEAE

Genus **Bixa** Linnaeus**Bixa Orellana** Linnaeus, Sp. Pl., 512, 1753.Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9224*. Moderate on all of the islands, Guest. Native name, *loa*.

## FAMILY FLACOURTIACEAE

Genus **Flacourtia** L'Héritier**Flacourtia Rukam** Zollinger and Morren, Syst. Verz., 33, 1854.Tau: in forest on mountain slope south of Siufaga, alt. 200 m., Sept. 27, 1939, *Yuncker 9063*; same locality, alt. 150 m., Sept. 27, 1939, *Yuncker 9062*; in forest two miles south of Siufaga, alt. 180 m., Oct. 1, 1939, *Yuncker 9163*;

plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 646*; plateau back of Luma, alt. 100 m., Sept. 21, 1922, *Garber 776*.

Ofu: in open forest along ridge trail, alt. 200 m., Nov. 27, 1939, *Yuncker 9520*; in open forest on ridge back of Ofu village, alt. 100 m., Nov. 25, 1939, *Yuncker 9464*. Abundant on all of the islands, Guest. Native name, *filimoto*.

## FAMILY CARICACEAE

Genus *Carica* Linnaeus

*Carica Papaya* Linnaeus, Sp. Pl., 1036, 1753.

Occurs on all of the islands both cultivated and spontaneously. Native name, *esi*.

## FAMILY BEGONIACEAE

Genus *Begonia* Linnaeus

*Begonia* species.

Tau: dooryard ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9216*.

## FAMILY THYMELAEACEAE

Genus *Phaleria* Jack

*Phaleria acuminata* (A. Gray) Gilg, in Engler and Prantl, Nat. Pflanzenfam. III, 6a: 225, 1894.

Abundant on all of the islands, Guest. Native name, *sumi*.

*Phaleria Burnettiana* (Bentham) Knuth, Handb. Blütenbiol. III, 1: 522, 1904.

Tau: exposed cliff, Siulagi Point, alt. 75 m., Aug. 26, 1922, *Garber 772*. Abundant on all of the islands, Guest. Native name, *sumi*.

## FAMILY LYTHRACEAE

Genus *Lagerstroemia* Linnaeus

*Lagerstroemia indica* Linnaeus, Syst. ed. 10, 1076, 1759.

Tau: near dwelling, cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9201*.

## FAMILY LECYTHIDACEAE

Genus *Barringtonia* Forster

*Barringtonia asiatica* (Linnaeus) Kurz, Asiatic Soc. Beng., Jour. 45(2): 131, 1876.

Tau: abundant along the shore south of Siufaga, Sept. 29, 1939, *Yuncker 9098*; Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber 564*. Abundant along the seacoast around all the islands, Guest. Native name, *futu*.

**Barringtonia samoensis** A. Gray, U. S. Expl. Exped., Bot. 15(1) : 508, 1854.

Tau: near the shore, Sept. 27, 1939, *Yuncker 9082*; edge of thicket on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9173*; along trail back of Luma, alt. 30 m., Aug. 8, 1921, *Garber 543*. Moderate to abundant on all of the islands, Guest. Native name, *falaga*.

FAMILY COMBRETACEAE

Genus **Terminalia** Linnaeus

**Terminalia Catappa** Linnaeus, Mant., 128, 1767.

Ofu: slope of mountain at Aaofa, alt. 15 m., May 26, 1925, *Garber 980*. Abundant on all of the islands, Guest. Native name, *talie*.

FAMILY MYRTACEAE

Genus **Psidium** Linnaeus

**Psidium Guajava** Linnaeus, Sp. Pl., 470, 1753.

Tau: in thicket near Siufaga, Oct. 7, 1939, *Yuncker 9293*. Native name, *kuava [tuava]*.

Genus **Decaspermum** Forster

**Decaspermum fruticosum** Forster, Charact. Gen. Pl., 74, pl. 37, 1776.

Abundant on the island of Olosega, Guest. Native name, *nu'anua*.

Genus **Eugenia** Micheli

**Eugenia corynocarpum** A. Gray, U. S. Expl. Exped., Bot. 15(1) : 528, 1854, Atlas, pl. 65, 1857.

Tau: plateau back of Luma, alt. 150 m., Dec. 15, 1921, *Garber 652, 658*. Native name, *seasea*.

**Eugenia inophylloides** A. Gray, U. S. Expl. Exped., Bot. 15(1) : 521, 1854.

Tau: Amouli trail, alt. 200 m., Sept. 16, 1921, *Garber 637*. Abundant on all of the islands, Guest. Native names, *asi, asi vao*.

**Eugenia malaccensis** Linnaeus, Sp. Pl., 470, 1753.

Found in and around most every village, Guest. Native name, *nonu fiafia*.

**Eugenia neurocalyx** A. Gray, U. S. Expl. Exped., Bot. 15(1) : 512, 1854, Atlas pl. 59, 1857.

On all of the islands, Guest. Native name, *fena*.

**Eugenia Richii** A. Gray, U. S. Expl. Exped., Bot. 15(1) : 510, 1854.

Olosega: Olosegauta-Piunafua ridge, alt. 500 m., June 17, 1925, *Garber 1030*; top of Piunafua mountain, alt. 655 m., June 17, 1925, *Garber 1028*.



## FAMILY MELASTOMACEAE

Genus *Melastoma* Linnaeus

**Melastoma denticulatum** Labillardière, Sert. Austro-Caled. 2: 65, pl. 64, 1825.

Tau: in thicket along trail near Fitiuta, alt. 50 m., Sept. 26, 1939, *Yuncker 9058*; edge of forest on slope south of Siufaga, alt. 240 m., Oct. 4, 1939, *Yuncker 9232*; Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber 635*.

Olosega: Olosegauta-Piumafua ridge, alt. 500 m., June 17, 1925, *Garber 1037*. Native names, *fua lole*, *moegalo*, *olive vao*.

Genus *Astronidium* A. Gray

**Astronidium Pickeringii** (A. Gray) var. **samoense** (A. Gray) Christophersen, B. P. Bishop Mus., Bull. 154: 32, 1938.

Tau: in forest on west slope of Mt. Vaoaimanu, alt. 360 m., Oct. 5, 1939, *Yuncker 9252*; on slopes of peak back of Siufaga, alt. 670 m., Jan. 28, 1922, *Garber 746*; in old taro clearing, below peak at back of Siufaga, alt. 530 m., Jan. 28, 1922, *Garber 721*.

Olosega: Olosegauta-Piumafua ridge, alt. 550 m., June 17, 1925, *Garber 1032*. Native name, *matoi*.

## FAMILY ONAGRACEAE

Genus *Jussiaea* Linnaeus

**Jussiaea erecta** Linnaeus, Sp. Pl., 388, 1753.

Tau: in swampy area behind Siufaga, Oct. 7, 1939, *Yuncker 9294*.

Olosega: taro swamp back of Olosega village, June 23, 1925, *Garber 1091*. Native names, *la'avai*, *fua samasama*, *mautofu vao*.

## FAMILY ARALIACEAE

Genus *Reynoldsia* A. Gray

**Reynoldsia** species.

Tau: top of peak back of Tau village, alt. 600-700 m., Jan. 28, 1922, *Garber 752*. Abundant on all of the islands, Guest. Native name, *vi vao*.

Genus *Meryta* Forster

**Meryta capitata** Christophersen, B. P. Bishop Mus., Bull. 128: 161, fig. 23, 1935.

Tau: in ravine on slope two miles south of Siufaga, alt. 100 m., Oct. 1, 1939, *Yuncker 9162*.

Ofu: in forest on ridge above Ofu village, alt. 300 m., Nov. 27, 1939, *Yuncker 9545*. Native name, *fagufagu*.

**Meryta aff. macrophylla** (Rich) Seemann, *Bonplandia* 10: 294, 1862.

Tau: Amouli trail, alt. 180 m., Sept. 16, 1921, *Garber 622*.

Olosega: Olosegauta-Piunafua Ridge, alt. 510 m., June 17, 1925, *Garber 1079*. Native name, *fagufagu*.

Genus **Polyscias** Forster

**Polyscias Guilfoylei** (Bull) L. H. Bailey, *Rhodora* 18: 153, 1916, var. (?).

Tau: ornamental shrub with coarsely toothed, rounded leaflets, Siufaga village, Oct. 3, 1939, *Yuncker 9212*. Native name, *tanitani*.

**Polyscias Reineckei** Harms, *Engl. Bot. Jahrb.* 25: 663, 1898.

Abundant at high elevations on Tau, Guest. Native name, *afia*.

FAMILY UMBELLIFERAE

Genus **Centella** Linnaeus

**Centella asiatica** (Linnaeus) Urban, in *Mart. Fl. Bras.* 11(1): 287, 1879.

Tau: in sandy soil near the shore south of Siufaga, Sept. 29, 1939, *Yuncker 9113*; in sandy soil, Luma, July 20, 1938, *W. Harris 344*.

Ofu: sandy soil along the southeastern shore, Nov. 26, 1939, *Yuncker 9504*. Native name, *togo*.

FAMILY MYRSINACEAE

Genus **Maesa** Forskål

**Maesa samoana** Mez, *Pflanzenr.* 9(IV. 236): 53, 1902.

Tau: in thicket south of Siufaga, alt. 10 m., Sept. 29, 1939, *Yuncker 9105*; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 686*.

Ofu: beach at Vaoto, June 23, 1925, *Garber 1097*.

FAMILY PLUMBAGINACEAE

Genus **Plumbago** Linnaeus

**Plumbago zeylanica** Linnaeus, *Sp. Pl.*, 151, 1753.

Olosega: along rocky shore, Lotufaga by Sili, May 29, 1925, *Garber 987*. Native name, *lau tafifi*.

FAMILY SAPOTACEAE

Genus **Planchonella** Pierre

**Planchonella Garberi** Christophersen, *B. P. Bishop Mus., Bull.* 128: 170, fig. 25, 1935.

Tau: top of Nuu Islet, alt. 75 m., July 4, 1925, *Garber 1101*. Native name, *ala'a*.

**Planchonella samoensis** (Reinecke) H. J. Lam, *Jard. Bot. Buit., Bull.* III, 7: 218, fig. 10, 1925.

Scarce on the islands of Tau and Ofu, Guest. Native name, *mamalava*.

## FAMILY EBENACEAE

Genus *Diospyros* Linnaeus

***Diospyros ellipticifolia*** (Stokes) Bakhuizen, Gard. Bull. Straits Settlements. 7: 162, 1933.

Tau: top of bluff, north side, Siufaga Point, Aug. 26, 1922, *Garber 773*.

Ofu: top of Nuu Islet, alt. 75 m., July 4, 1925, *Garber 1102*. Native name, *anume*.

***Diospyros samoensis*** A. Gray, Am. Acad., Proc. 5: 326, 1862.

Ofu: in thicket along southeastern shore, Nov. 26, 1939, *Yuncker 9514, 9516*; along beach at Toaga, June 23, 1925, *Garber 1095*; Nuu Islet, July 4, 1925, *Garber 1103*. Abundant on all of the islands, Guest. Native name, *aw'aule*.

## FAMILY OLEACEAE

Genus *Jasminum* Linnaeus

***Jasminum didymum*** Forster f., Fl. Ins. Austr. Prodr., 3, 1786.

Ofu: Nuu Islet, July 4, 1925, *Garber 1107*. Native name, *fuefue*.

***Jasminum pubescens*** Willdenow, Sp. Pl. 1: 37, 1792.

Tau: near dwelling in Siufaga, Oct. 3, 1939, *Yuncker 9200*.

***Jasminum Sambac*** (Linnaeus) Aiton, Hort. Kew 1: 8, 1789.

Tau: in thicket near the sea two miles south of Siufaga (as escape?), Oct. 1, 1939, *Yuncker 9141*. Native name, *pua sosolo*.

## FAMILY LOGANIACEAE

Genus *Geniostoma* Forster

***Geniostoma rupestre*** Forster, Charact. Gen. Pl., 24, pl. 12, 1776.

Tau: in thicket on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9192*; in thicket, ravine south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9005*; peak back of Siufaga, alt. 650 m., Jan. 29, 1922, *Garber 755*.

Ofu: in thicket on slope behind Ofu village, alt. 45 m., Nov. 25, 1939, *Yuncker 9477*; in thicket on ridge back of Ofu village, alt. 200 m., Nov. 25, 1939, *Yuncker 9453*. Native name, *taitai ipu*.

Genus *Fagraea* Thunberg

***Fagraea Berteriana*** A. Gray, Linn. Soc., Jour. 1: 98, 1857.

Tau: in open woods on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9176*; on west slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, *Yuncker 9263*; on plateau back of Luma, alt. 125 m., Aug. 4, 1921, *Garber 580*.

Ofu: in open forest on ridge above Ofu village, alt. 200 m., Nov. 27, 1939, *Yuncker 9535*. Moderate on all of the islands, Guest. Native name, *pua lulu*.

## FAMILY APOCYNACEAE

Genus *Plumeria* Linnaeus

***Plumeria acuminata*** Aiton, Hort. Kew, ed. 2, 2: 70, 1811.

Cultivated as an ornamental in most villages. Native name *pua fiti*.

***Lochnera rosea*** (Linnaeus) Reichenbach, Conspect., 134, 1828.

Tau: Siufaga village, Oct. 3, 1939, *Yuncker 9208*.

Genus *Alyxia* R. Brown

***Alyxia bracteolosa*** Rich, ex Gray, Am. Acad., Proc. 5: 332, 1862.

Tau: climbing in trees in ravine on slope south of Siufaga, alt. 100 m., Sept. 25, 1939, *Yuncker 9021*; plateau back of Faleasao, alt. 200 m., Aug. 4, 1921, *Garber 577*.

Ofu: climbing in trees on ridge back of Ofu village, alt. 300 m., Nov. 27, 1939, *Yuncker 9536*. Native names, *gau, lau maile, maile*.

?***Alyxia stellata*** (Forster) Roemer and Schultes, Syst. Veg. 4: 439, 1819.

Tau: climbing in trees near Siufaga, Oct. 3, 1939, *Yuncker 9199*; near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9227*.

Ofu: Feaiia Point, alt. 90 m., May 25, 1925, *Garber 977*. Native names, *gau, gau lili'i, lava, lau maile, maile*.

Genus *Cerbera* Linnaeus

***Cerbera manghas*** Linnaeus, Sp. Pl., 208, 1753.

Tau: in open forest along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9134*; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber 546*. Native name, *leva*.

## FAMILY ASCLEPIADACEAE

Genus *Hoya* R. Brown

***Hoya bicarinata*** A. Gray, Am. Acad., Proc. 5: 335, 1862.

Tau: climbing in thicket in ravine on slope south of Siufaga, alt. 150 m., Sept. 25, 1939, *Yuncker 9012*; Fitiuta trail, alt. 100-125 m., Aug. 4, 1921, *Garber 556, 566*; Amouli trail, alt. 100 m., Sept. 16, 1921, *Garber 615*.

Ofu: climbing in trees in thicket on ridge back of Ofu village, alt. 250 m., Nov. 25, 1939, *Yuncker 9449*; climbing in trees along the southeastern shore, Nov. 26, 1939, *Yuncker 9509*. Native names, *fue se le la, olive vao*.

***Hoya chlorantha*** Rechinger, in Fedde, Repert. Nov. Sp. 5: 131, 1908.

Ofu: climbing in thicket on ridge behind Ofu village, alt. 350 m., Nov. 27, 1939, *Yuncker 9528*.

***Hoya samoensis*** Seemann, Fl. Vit., 163, 1866.

Ofu: top of Tumu mountain, alt. 450 m., Sept. 3, 1925, *Garber 1116*.

## FAMILY CONVULVULACEAE

Genus *Ipomoea* Linnaeus

***Ipomoea campanulata*** Linnaeus, Sp. Pl., 160, 1753.

Ofu: Tua, in plantation, June 5, 1925, *Garber 999*. Native name, *tanamimi*.

***Ipomoea gracilis*** R. Brown, Prodr. Fl. Nov. Holl., 484, 1810.

Tau: climbing in thicket south of Siufaga, Sept. 25, 1939, *Yuncker 9006*; weed in banana plantation above Siufaga, alt. 50 m., Oct. 4, 1939, *Yuncker 9234*; Luma-Faleasao trail, alt. 50 m., Jan. 8, 1922, *Garber 688*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 327*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 35, 108*.

Ofu: climbing in thicket near the northwestern shore, Nov. 28, 1939, *Yuncker 9563*; in thicket along the southeastern shore, Nov. 26, 1939, *Yuncker 9508*. Native names, *tanamimi vao*, *fue tanamimi*.

***Ipomoea pes-caprae*** (Linnaeus) Sweet, Hort. Suburb. Lond., 35, 1818.

Tau: in sandy soil near the beach, south of Siufaga, Sept. 25, 1939, *Yuncker 9024*; sandy beach at Faga, April 20, 1922, *Garber 765*. Native names, *fuefue tai*, *fue moa*, *fuefue tutupatu*.

***Ipomoea Quamoclit*** Linnaeus, Sp. Pl., 159, 1753.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9198*; on lava rock soil, Fitiuta, alt. 30 m., Oct. 12, 1921, *Garber 642*.

***Ipomoea Turpethum*** (Linnaeus) R. Brown, Prodr. Fl. Nov. Holl., 485, 1810.

Tau: in thicket, low marshy area near Siufaga, Oct. 7, 1939, *Yuncker 9289*; climbing in thicket near the shore, south of Siufaga, Sept. 29, 1939, *Yuncker 9097*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 135*.

Ofu: Toaga, climbing on tree at Muaava, alt. 5 m., June 22, 1925, *Garber 1099*. Native name, *fue vao*.

## FAMILY BORAGINACEAE

Genus *Cordia* Linnaeus

***Cordia subcordata*** Lamarck, Tabl. Encycl. 1: 421, 1791.

Moderate on the islands of Tau and Olosega. None on Ofu, Guest. Native name, *tauagave*.

Genus *Messerschmidia* Hebenstreit

***Messerschmidia argentea*** (Linnaeus f.) Johnston, Arnold Arb., Jour. 16: 164, 1935.

Tau: rocky shore at Amouli, Sept. 16, 1921, *Garber 639*.

Ofu: in thicket near the shore along the southeastern trail, Nov. 26, 1939, *Yuncker 9507*. Abundant on all of the islands, Guest. Native name, *tausuni*.

## FAMILY VERBENACEAE

Genus *Stachytarpheta* Vahl

*Stachytarpheta urticaefolia* (Salisbury) Sims, Curtis, Bot. Mag. 43: pl. 1848, as *S. urticifolia*, 1816.

Tau: in sandy soil near the beach south of Siufaga, Sept. 25, 1939, *Yuncker 9026\**; plateau back of Luma, alt. 150 m., Dec. 15, 1921, *Garber 656*. Native names, *mautofu vao*, *mautofu tala*.

Genus *Tectona* Linnaeus f.

*Tectona grandis* Linnaeus f., Suppl., 151, 1781.

A few introduced specimens on Tau, Guest. Native name, *tiki*.

Genus *Premna* Linnaeus

*Premna taitensis* Schauer, DC Prodr. 11: 638, 1847.

Tau: in thicket on slope south of Siufaga, alt. 150 m., Sept. 29, 1939, *Yuncker 9117*; Fitiuta trail, alt. 150 m., Jan. 24, 1922, *Garber 708*.

Ofu: in thicket on slope back of Ofu village, alt. 100 m., Nov. 25, 1939, *Yuncker 9462*. Abundant on all of the islands, Guest. Native name, *aloalo*.

Genus *Vitex* Linnaeus

*Vitex trifolia* Linnaeus var. *bicolor* (Willdenow) Moldenke, Known Geogr.

Distrib. Verb., 79, 1942.

Tau: in thicket near the shore, Sept. 29, 1939, *Yuncker 9104\**; Luma, Sept. 6, 1921, *Garber 611*.

Ofu: in thicket near the shore, Nov. 28, 1939, *Yuncker 9566\**; Aloafao, June 5, 1925, *Garber 995*. Moderate on all of the islands, Guest. Native name, *namulega*.

Genus *Faradaya* F. Mueller

*Faradaya Powellii* Seemann, Powell, Seem. Jour. Bot. 6: 342, 1868.

Tau: climbing in trees on the plateau behind Siufaga, Oct. 2, 1939, *Yuncker 9174*; Fitiuta trail above Luma, alt. 60 m., Aug. 4, 1921, *Garber 552*; Fitiuta trail back of Luma, alt. 100 m., Dec. 16, 1921, *Garber 671*; Faleulu valley, in light forest, alt. 210 m., July 27, 1938, *W. Harris 200*.

Ofu: climbing in trees on ridge back of Ofu village, alt. 250 m., Nov. 25, 1939, *Yuncker 9445*. Native name, *mamalupe*.

Genus *Clerodendrum* Linnaeus

*Clerodendrum speciosissimum* Van Geert ex Morren, Hort. Belg. 3: 322-323, pl. 68 [as "*Clerodendron*"], 1836.

Tau: in coconut plantation along Fitiuta trail, Sept. 26, 1939, *Yuncker 9059\**; pig yard, Faleasao-Fitiuta trail, Jan. 8, 1922, *Garber 699\**.

Ofu: in open weedy area along southeastern shore, Nov. 26, 1939, *Yuncker 9494*.

\* Identified by Dr. H. N. Moldenke.

**Clerodendrum inerme** (Linnaeus) Gaertner, *Fruct. et Semin.* 1: 271, 1788.

Tau: in thicket near the shore, Sept. 29, 1939, *Yuncker 9096*; beach at Fitiuta, Aug. 8, 1921, *Garber 584*; Luma-Faleasao trail, alt. 30 m., Jan. 8, 1922, *Garber 694*.

Ofu: in thicket near the shore, Nov. 28, 1939, *Yuncker 9562*. Native name, *aloalo tai*.

**Clerodendrum nutans** Wallich, *Num. List Dried Spec., etc.*, no. 1793, 1828.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9228*.

#### FAMILY LABIATAE

##### Genus *Leucas* R. Brown

**Leucas flaccida** R. Brown, *Prodr. Fl. Nov. Holl.*, 505, 1810.

Tau: weed in sandy soil near the beach, Sept. 25, 1939, *Yuncker 9028*; on lava cliff, Luma, alt. 45 m., July 24, 1938, *W. Harris 378*; Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 594*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 36, 93*.

##### Genus *Coleus* Loureiro

**Coleus Blumei** Bentham, *Lab. Gen. et Sp.*, 56, 1832, var. ?

Tau: along the beach trail south of Siufaga, Sept. 29, 1939, *Yuncker 9099*; coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 239*. Native name, *la'au fai sei*.

##### Genus *Ocimum* Linnaeus

**Ocimum sanctum** Linnaeus, *Mant.*, 85, 1767.

Tau: dooryard, Siufaga, Oct. 4, 1939, *Yuncker 9213*. Native name, *la'au sauga*.

#### FAMILY SOLANACEAE

##### Genus *Capsicum* Linnaeus

**Capsicum annuum** Linnaeus, *Sp. Pl.*, 188, 1753.

Ofu: cultivated, Aloafao, alt. 7 to 8 m., June 6, 1925, *Garber 1011*. Native name, *polo papalagi*.

**Capsicum frutescens** Linnaeus, *Sp. Pl.*, 189, 1753.

Tau: Siufaga, Oct. 3, 1939, *Yuncker 9201, 9226*; plateau back of Faleasao, alt. 125 m., Aug. 4, 1921, *Garber 571*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 196*.

Ofu: in sandy soil near the shore, Nov. 28, 1939, *Yuncker 9568*; cultivated, Aloafao, June 5, 1925, *Garber 981, 994*. Native names, *polo vao, polo papalagi, polo uli*.

Genus *Solanum* Linnaeus***Solanum nigrum*** Linnaeus, Sp. Pl., 186, 1753.Tau: Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 597*.Ofu: Feaia Point, alt. 75 to 100 m., May 25, 1925, *Garber 976*. Native names, *magalogalo, magalo, polo vao*.Genus *Cestrum* Linnaeus***Cestrum diurnum*** Linnaeus, Sp. Pl., 191, 1753.Tau: cultivated, Siufaga, Oct. 6, 1939, *Yuncker 9277*.***Cestrum nocturnum*** Linnaeus, Sp. Pl., 191, 1753.Tau: cultivated, Siufaga, Oct. 2, 1939, *Yuncker 9191*.

## FAMILY SCROPHULARIACEAE

Genus *Russelia* Jacquin***Russelia equisetiformis*** Schlechtendal and Chamisso, *Linnaea* 6: 377, 1831.Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9209*.Genus *Angelonia* Humboldt and Bonpland***Angelonia grandiflora*** C. Morren, Soc. Hort. Gand., *Ann.* 3: 93, pl. 119, 1847.Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9225*.Genus *Lindernia* Allioni***Lindernia crustacea*** (Linnaeus) F. Mueller, *Census*, 97, 1882.Tau: in wet soil along the trail two miles south of Siufaga, alt. 50 m., Oct. 1, 1939, *Yuncker 9147*; Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 600*; wet rocks, Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber 623*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 324*. Native names, *lau tafifi, fua lanumoana*.

## FAMILY GESNERIACEAE

Genus *Cyrtandra* Forster**?*Cyrtandra compressa*** C. B. Clarke, DC Monogr. Phanerog. 5(1): 279, 1883.Olosega: Olosegauta-Piumafua ridge, alt. 450 m., June 17, 1925, *Garber 1040*. Native name, *lau taputa*.**?*Cyrtandra Godeffroyi*** Reinecke, Engl. Bot. Jahrb. 25: 677, 1898.Olosega: Olosegauta-Piumafua ridge, alt. 450 m., June 17, 1925, *Garber 1067*. Native names, *fua taulou, atiu vao*.***Cyrtandra pulchella*** Rich, Gray, Am. Acad. Arts. Sci., Proc. 6: 38, 1862.Tau: in forest on the west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9253*; Amouli trail by a stream, alt. 180 m., Sept. 16, 1921, *Garber 633*.Olosega: Olosegauta-Piumafua ridge, alt. 550 m., June 17, 1925, *Garber 1059*. Native names, *ma'a, pua fafafa, pua lulu vao*.



**Cyrtandra samoensis** A. Gray, Am. Acad. Arts Sci., Proc. 6: 39, 1862.

Tau: in thicket, dark ravine, lower slope of mountain south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9018*; trail to plateau at back of Luma, alt. 50 m., Aug. 2, 1921, *Garber 551*.

Olosega: Olosegauta-Piunafua ridge, alt. 530 m., June 17, 1925, *Garber 1034*. Native name, *mafia*.

Genus **Gloxinia** L'Héritier

**Gloxinia maculata** L'Héritier, Stirp. Nov., 149, 1784-85.

Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9202*.

FAMILY ACANTHACEAE

Genus **Thunbergia** Linnaeus

**Thunbergia erecta** (Bentham) T. Anderson, Linn. Soc. Bot., Jour. 7: 18, 1864.

Tau: cultivated, near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9203*.

Genus **Hemigraphis** Nees

**Hemigraphis colorata** (Blume) Hallier f., Acad. Nat. Cur., Nov. Act. 70: 199, pl. 9, fig. 1, 1897.

Tau: near dwellings, Siufaga, Oct. 3, 1939, *Yuncker 9215*.

Genus **Pseuderanthemum** Radlkofer

**Pseuderanthemum** species.

Tau: naturalized on slope south of Siufaga, alt. 240 m., Oct. 4, 1939, *Yuncker 9241*; Fitiuta, Aug. 9, 1921, *Garber 606*.

FAMILY RUBIACEAE

Genus **Hedyotis** Linnaeus

**Hedyotis biflora** (Linnaeus) Lamarck, Tabl. Encycl. 1: 272, 1791.

Tau: in sand near the beach south of Siufaga, Sept. 29, 1939, *Yuncker 9119*; cliff crevices near Faleasao, Jan. 8, 1922, *Garber 698*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 328*.

Ofu: on old lava flow along northwest shore, Nov. 28, 1939, *Yuncker 9555*; at beach, Tua, June 7, 1925, *Garber 1019*.

Olosega: taro plantation, back of Olosegauta, alt. 350 m., June 17, 1925, *Garber 1084*.

**Hedyotis foetida** (Forster) J. E. Smith, in Rees Cyclop. 17(2), 1811.

Tau: cliff crevices, Faleasao-Fitiuta trail, alt. 15 m., Jan. 8, 1922, *Garber 701*.

Ofu: on broken lava near the shore, Nov. 27, 1939, *Yuncker 9553*; on exposed cliff by the sea, Ofu-Samoi, June 7, 1925, *Garber 1022*.

Genus **Neonauclea** Merrill

**Neonauclea Forsteri** (Seemann) Merrill, Washington Acad. Sci., Jour. 5: 540, 1915.

Tau: in thicket on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9179*; back of Luma, alt. 75 m., Dec. 17, 1921, *Garber 672*.

Ofu: along southeastern shore trail, Nov. 26, 1939, *Yuncker 9506*; Sina, Aloafao, alt. 15 m., June 5, 1925, *Garber 997*. Abundant on all of the islands, Guest. Native name, *ofa*.

Genus **Mussaenda** Linnaeus

**Mussaenda frondosa** Linnaeus, Sp. Pl., 177, 1753.

Tau: in thicket along Fitiuta trail, Sept. 26, 1939, *Yuncker 9043*; Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber 562*; Fitiuta trail back of Luma, alt. 175 m., Aug. 11, 1921, *Garber 610*.

Ofu: along southeastern shore trail, Nov. 26, 1939, *Yuncker 9515*. Native name, *aloalo vao*.

Genus **Tarenna** Gaertner

**Tarenna sambucina** (Forster f.) Durand, in Drake, Ill. Fl. Mar. Pac. 6: 190, 1890.

Tau: on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9184*; Amouli forest trail, alt. 150 m., Sept. 22, 1922, *Garber 778*.

Ofu: in forest on ridge back of Ofu village, alt. 240 m., Nov. 25, 1939, *Yuncker 9451*; in thicket on central ridge, alt. 300 m., Nov. 27, 1939, *Yuncker 9542*. Moderate to abundant on all of the islands, Guest. Native name, *ma'anunu*.

Genus **Canthium** Lamarck

?**Canthium Merrillii** (Setchell) Christophersen, B. P. Bishop Mus., Bull. 128: 201, 1935.

Moderate to abundant on all of the islands, Guest. Native names, *ola, ola sina*.

Genus **Guettarda** Linnaeus

**Guettarda speciosa** Linnaeus, Sp. Pl., 991, 1753.

Ofu: in thicket along southeastern shore trail, Nov. 26, 1939, *Yuncker 9493*; beach, Nuu Islet, June 4, 1925, *Garber 991*; beach, Nuu Islet, July 4, 1925, *Garber 1109*. Moderate on all of the islands, Guest. Native name, *puapua*.

Genus **Ixora** Linnaeus

**Ixora coccinea** Linnaeus, Sp. Pl., 110, 1753.

Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9222*.

**Ixora** species.

Small to medium-sized tree with very hard wood. Moderate on all of the islands, Guest. Native name, *filofiloa*.

Genus *Psychotria* Linnaeus

**Psychotria Garberiana** Christophersen, B. P. Bishop Mus., Bull. 154: 51, fig. 12, 1938.

Tau: below top of peak, alt. 680 m., Jan. 28, 1922, *Garber 754*.

Olosega: Olosegauta-Piumafua ridge, alt. 500 m., June 17, 1925, *Garber 1062*.

**Psychotria insularum** A. Gray, Am. Acad. Arts Sci., Proc. 4: 45, 1860.

Tau: Fitiuta trail, in thicket, Sept. 26, 1939, *Yuncker 9060*; in thicket along trail south of Siufaga, alt. 20 m., Sept. 25, 1939, *Yuncker 9008*; Fitiuta trail, alt. 75 m., Aug. 4, 1921, *Garber 555*; along stream bed on plateau back of Faleasao, alt. 140 m., Aug. 4, 1921, *Garber 573*; old village site near Laufuti, alt. 45 m., May 4, 1922, *Garber 768*.

Ofu: in thicket on slope back of Ofu village, alt. 60 m., Nov. 25, 1939, *Yuncker 9475*; alt. 250 m., *Yuncker 9444*. Abundant on Olosega, Guest. Native name, *matalafi*.

Genus *Geophila* D. Don

**Geophila herbacea** (Jacquin) O. Kuntze, Rev. Gen., 300, 1891.

Tau: on moist soil along trail, two miles south of Siufaga, alt. 50 m., Oct. 1, 1939, *Yuncker 9148*; on moist soil near Siufaga, Oct. 7, 1939, *Yuncker 9291*; Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber 567*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 252*. Native names, *olia'a'a*, *lafifi*.

Genus *Morinda* Linnaeus

**Morinda citrifolia** Linnaeus, Sp. Pl., 176, 1753.

Tau: in thicket along Fitiuta trail, Sept. 26, 1939, *Yuncker 9032*; plateau back of Luma, alt. 90 m., Aug. 4, 1922, *Garber 771*.

Ofu: in thicket on ridge near Ofu village, alt. 100 m., Nov. 25, 1939, *Yuncker 9466*. Abundant on all of the islands, Guest. Native names, *nonu*, *nonu vao*.

Genus *Sarcopygme* Setchell and Christophersen

**Sarcopygme pacifica** (Reinecke) Setchell and Christophersen, B. P. Bishop Mus., Occ. Papers 11(5): 4, pl. 2, *A, B*, fig. 20, 1935.

Tau: in forest on west slope of Mt. Vaoaimanu, alt. 350 m., Oct. 5, 1939, *Yuncker 9254*; trail back of Luma, alt. 450 m., Jan. 28, 1922, *Garber 760*. Native names, *u'unu*, *'ulu vao*, *fagufagu*.

## FAMILY CUCURBITACEAE

Genus *Melothria* Linnaeus

**Melothria samoensis** A. Gray, U. S. Expl. Exped., Bot. 15(1): 641, 1854.

Tau: climbing in thicket near Siufaga, Oct. 7, 1939, *Yuncker 9287*; in thicket near the beach, Sept. 29, 1939, *Yuncker 9095*; south side of South Cove,

Papatea, lower edge of strand forest at beach, on tuff, July 15, 1938, *W. Harris* 329. Native name, *meleni vao*.

Genus *Luffa* Tournefort

*Luffa cylindrica* (Linnaeus) M. Roemer var. *insularum* (A. Gray) Cogniaux, DC Monog. Phanerog. 3: 459, 1881.

Ofu: in waste area near the shore, Nov. 28, 1939, *Yuncker* 9560; along the beach at north end of Aloafao, Sept. 1925, *Garber* 1119. Native name, *meleni vao*.

Genus *Citrullus* Forskål

*Citrullus vulgaris* Schrader, *Linnaea* 12: 412, 1838.

Ofu: in sandy soil near the beach, Nov. 28, 1939, *Yuncker* 9569. Native name, *meleni*.

Genus *Cucumis* Linnaeus

*Cucumis Melo* Linnaeus, Sp. Pl., 1011, 1753.

Tau: in low, waste area near Siufaga, Oct. 6, 1939, *Yuncker* 9284; at Faasamene Spring, Faleasao, alt. 4-5 m., Jan. 8, 1922, *Garber* 702. Native names, *atiu*, *meleni*.

FAMILY GOODENIACEAE

Genus *Scaevola* Linnaeus

*Scaevola frutescens* (Miller) Krause, Engler Pflanzenr. 54(IV.277): 125, fig. 25, 1912.

Tau: forming a thicket along the strand south of Siufaga, Sept. 25, 1939, *Yuncker* 9025.

Ofu: in thicket near the shore, Nov. 26, 1939, *Yuncker* 9503. Abundant on all of the islands, Guest. Native name, *to'ito'i*.

FAMILY COMPOSITAE

Genus *Vernonia* Schreber

*Vernonia cinerea* (Linnaeus) Lessing, *Linnaea* 4: 291, 1829.

Tau: in sandy soil near the shore south of Siufaga, Sept. 29, 1939, *Yuncker* 9116; in sand, Luma, July 19, 1938, *W. Harris* 26, 345; along the trail behind Luma, Aug. 5, 1938, *W. Harris* 17; in sand near the beach, Papatea, July 15, 1938, *W. Harris* 89, 105; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 235; on lava cliff, behind Luma, alt. 45 m., July 27, 1938, *W. Harris* 122.

Ofu: on volcanic rocks along the northwestern shore, Nov. 28, 1939, *Yuncker* 9554; along trail, Toaga, June 23, 1925, *Garber* 1096.

Genus *Adenostemma* Forster

*Adenostemma Lavenia* (Linnaeus) O. Kuntze, Rev. Gen. 1: 304, 1891.

Tau: Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber* 593.

Genus *Ageratum* Linnaeus

***Ageratum conyzoides*** Linnaeus, Sp. Pl., 839, 1753.

Tau: in open ground along Siufaga-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9124*; south side of South Cove, Papatea, near the beach, July 15, 1938, *W. Harris 330*; Luma, face of lava cliff, July 24, 1938, *W. Harris 379*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 194*.

Ofu: along trail at beach, June 7, 1925, *Garber 1021*. Native name, *lau taioti*.

Genus *Zinnia* Linnaeus

***Zinnia elegans*** Jacquin, Coll. 3: 152, 1789.

Tau: cultivated, Luma, *Yuncker*; Luma, in sand near the beach, July 20, 1938, *W. Harris 346*.

Genus *Siegesbeckia* Linnaeus

***Siegesbeckia orientalis*** Linnaeus, Sp. Pl., 900, 1753.

Tau: Sani Ridge, back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 604*.

Genus *Wedelia* Jacquin

***Wedelia biflora*** (Linnaeus) DeCandolle, in Wight, Contrib. Bot. Ind., 18, 1834.

Tau: weed in coconut plantation, along trail to village of Fitiuta, Sept. 26, 1939, *Yuncker 9054*; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber 547*. Native name, *ateate*.

Genus *Synedrella* Gaertner

***Synedrella nodiflora*** (Linnaeus) Gaertner, Fruct. et Semin. 2: 456, pl. 171, fig. 7, 1791.

Tau: in sandy soil near the shore south of Siufaga, Sept. 29, 1939, *Yuncker 9111*; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber 549*; in sand, Luma, July 19, 1938, *W. Harris 27*; south side of South Cove, Papatea, on tuff near the shore, July 15, 1938, *W. Harris 331*; along trail behind Luma, Aug. 5, 1938, *W. Harris 18*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 106*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 241*; on lava cliff behind Luma, alt. 45 m., July 27, 1938, *W. Harris 37*. Native names, *taioti*, *lau otioti*.

Genus *Bidens* Linnaeus

***Bidens pilosa*** Linnaeus, Sp. Pl., 832, 1753.

Tau: weed in taro patch, near Siufaga, Oct. 6, 1939, *Yuncker 9278*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 198*.

Genus **Erechtites** Rafinesque

**Erechtites valerianaefolia** (Wolf) DeCandolle, Prodr. 6: 295, 1837.

Tau: in sandy soil near the beach, south of Siufaga, Sept. 25, 1939, *Yuncker 9029*; weed in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 197*. Native name, *fua lele*.

Genus **Emilia** Cassini

**Emilia sonchifolia** (Linnaeus) DeCandolle, Prodr. 6: 302, 1837.

Tau: on old lava flow near the sea, along Luma-Faleasao trail, alt. 40-45 m., Sept. 30, 1939, *Yuncker 9123*; along trail south of Siufaga, Sept. 9, 1939, *Yuncker 9107*; weed in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 242*.

Ofu: in clearing on main ridge, alt. 250 m., Nov. 27, 1939, *Yuncker 9529*. Native name, *fua lele lili'i*.

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