

THE FLORA OF TUNGSHATAO (PRATAS ISLAND)

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ABSTRACT: Tungshatao, situated among Taiwan, Hainan and Luzon, about 430 kilometers from Kaohsiung harbor, Taiwan, is 1.74 square kilometers in area. The vegetation of this island can be classified into three kinds native, secondary and artificial vegetation. The most important community is coastal thicket composed mainly of *Scaevola sericea* mixed with members of *Messerschmidia argentea*, *Suriana maritima*, *Morus australis*, *Guettarda speciosa*, *Morinda citrifolia* and *Pisonia grandis*. The grassland, occupying a smaller part in the island, is mainly composed of *Sesuvium portulacastrum*, *Thuarea involuta*, *Wedelia biflora* and *Ipomoea pes-caprae* ssp. *brasiliensis*. A total of 111 species, including 24 cultivated species and 14 naturalized species, are recorded from this island. Among the natives *Cordia subcordata*, *Pisonia grandis*, *Suriana maritima*, *Tribulus cistoides*, *Triumfetta procumbens*, and *Syngonium isoetifolium* are not recorded from Taiwan proper and its adjacent islands.

KEYWORDS: Flora, Tungshatao.

INTRODUCTION

Tungshatao Island is located at longitude 116° 43'E and latitude 20° 42'N, about 430 kilometers away from Kaohsiung Harbour, Taiwan. The island, oblong in shape, extends from the southeast to the northwest with two long arms extending toward the northwest, and forming a lagoon. It consists of 1.74 square kilometers in area with longest length about 2,800m and widest width about 865 m.

The island is a coral reef covered with sandy coral and shell. It is flat and low with elevation of no more than 50 m.

According to the data reported by the Weather Bureau of the Chinese Navy during the past 5 years (Chinese Navy Weather Center, 1989-1993), the weather conditions are as follows: The daily average temperature was 25.6°C. The highest temperature was 34.9°C while the lowest temperature was 11°C. The average wind speed was 4.9 m/s. It often blows from the south or southwest during July and September with the wind speed no more than 10 m/s or rarely reach 30 m/s for during typhoons from the eastsoutheast. It blows from the northeast or eastnortheast during October and the following April with the wind speed up to 20 m/s. The average annual humidity is 84%. It rains the year round but most heavily from April to September. The average annual precipitation is 1,357 mm with variation from 1,093 to 2,011 mm. The underground water is salty and is not potable.

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The island has been Chinese territory since the Chin Dynasty. Since then there have been no inhabitants, though fishermen visited the island occasionally. In 1907 the Japanese built an exploratory mineral plant that caused immense disturbance of the island life. Now the Taiwan army is occupying the island.

Up to now, no report on the flora of the island has been published.

In this paper, determinations have been made and distribution patterns have been obtained from the Flora of Taiwan (Li et al. 1975-1979; Huang & Ohashi, 1993), Flora of Hsishachuntao (Chen et al. 1983) and Flora of Okinawa (Walker, 1976). The plants are classified into three groups in the order of Fungi, Dicotyledons and Monocotyledons. All taxa are listed alphabetically. The field collections were made by Tseng-Chieng Huang, Shing-Fan Huang and Kuo-Cheng Yang in April 24, 1994, and Tseng-Chieng Huang, Shing-Fan Huang, Tsung-Hsing Hsieh and Chia-Ching Liu from May 20 to May 23, 1994 during separate expeditions. The specimens are deposited in TAI-Herbarium, Botany Department, National Taiwan University. The vouchers are included in the checklist to make later further examination possible.

General description of the vegetation (Fig. 1)

Tungshatao has been disturbed for so long a time that the native vegetation and secondary vegetation stands mingled with each other so that these two vegetation types are hard to distinguish. For clearer presentation, the three types of vegetation native, secondary and artificial, are described as follows:

1. Native vegetation

The native vegetation can be classified in three zones, i.e., 1) marine meadow, 2) grassland, and 3) coastal thicket, according to their physiognomy.

1) Marine meadow: This zone is formed in shallow salt water and is composed mainly of *Symigodium isoetifolium*, *Halophila ovalis*, *Thalassia hemprichii* and *Halodule uninervis*. These four species are mixed or in clumps separate from each other around the island.

2) Grassland: This vegetation occupies the area between the tidal line and coastal thicket, which can be divided into three plant communities.

a) *Sesuvium portulacastrum* community: This community is formed solely by *Sesuvium portulacastrum* above high tide line. It consists of one layer to 10 cm high with width varying from 2 to 40 m according to the island's topography, and it is rather dense with coverage of 100%. It occurs only in the western part of the island.

b) *Thaurea involuta* and *Wedelia biflora* community: This community often occurs in clumps above the *Sesuvium portulacastrum* community. It is composed mainly of *Thaurea involuta* and *Wedelia biflora* and other less important herbs such as *Chamaesyce atoto*, *Lepturus repens*, *Tridax procumbens*, *Sporobolus virginicus*, *Cassytha filiformis* and *Ipomoea*

pes-caprae ssp. *brasiliensis* or seedlings of shrubs such as *Scaevola sericea*, *Messerschmidia argentea* and *Suriana maritima*.

c) *Ipomoea pes-caprae* ssp. *brasiliensis* community: This community occurs in clumps and is mainly composed of *Ipomoea pes-caprae* ssp. *brasiliensis* and other less abundant herbs such as *Chamaesyce atoto*, *Thaurea involuta*, *Wedelia biflora*, *Crinum asiaticum*, *Lepturus repens*, *Boerhavia diffusa*, *Sesuvium portulacastrum* and *Triumfetta procumbens*.

3) Coastal thicket: This zone lies above the grassland and are occurs in most parts of the island. According to the composition, four communities can be classified in the order of a) *Suriana maritima* and *Scaevola sericea* community; b) *Scaevola sericea* and *Messerschmidia argentea* community; c) *Scaevola sericea*, *Messerschmidia argentea* and *Guettarda speciosa* community; d) *Pandanus tectorius* var. *sinensis* community. *Scaevola sericea* is a dominant species in each community except the *Pandanus* community, giving the impression that *Scaevola sericea* is everywhere and abundant on this island.

a) *Suriana maritima* and *Scaevola sericea* community: This community lies above the grassland. It consists of two stories and varies from 1 to 1.5 m in height. It is dominated by *Suriana maritima* solely or codominated by *Suriana maritima* and *Scaevola sericea*, and is accompanied by *Sesuvium portulacastrum* and *Triumfetta procumbens* on the floor.

b) *Scaevola sericea* and *Messerschmidia argentea* community: This community is composed mainly of *Scaevola sericea* and slightly less of *Messerschmidia argentea*. No other shrubs are found in it. It consists of only one story with some twining plants such as *Ipomoea tuba* and *Ipomoea nil* at the thicket margin.

c) *Scaevola sericea*, *Messerschmidia argentea* and *Guettarda speciosa* community: This community is similar to the *Scaevola/Messerschmidia* one but much more complicated in composition. In addition to the dominant species of *Scaevola sericea*, *Messerschmidia argentea* and *Guettarda speciosa*, *Pisonia grandis*, *Morinda citrifolia*, *Morus australis* are also rather frequent in this community. Some less abundant species such as *Colubrina asiatica*, *Sophora tomentosa*, *Ipomoea tuba* and *Ipomoea nil* are found at its margin. It consists of two stories. The first story is scattered shrubs, i.e. *Guettarda speciosa*, *Messerschmidia argentea*, *Pisonia grandis*, *Morus australis* and *Morinda citrifolia*, and is 4-5 m high. The second story is *Scaevola sericea* which is 3 m high. No floor herbs or seedlings of shrubs have been found in this community.

d) *Pandanus tectorius* community: This community is composed of *Pandanus tectorius* var. *sinensis* solely, and is 3-4 m high. It is occurs scattered in a small area of this island

2. Secondary vegetation

The secondary vegetation is the vegetation which has been disturbed by humans, and regenerates naturally by itself.

1) Grassland:

a) ***Paspalum vaginatum* and *Tridax procumbens* community:** This community is dominated by *Paspalum vaginatum* and *Tridax procumbens* accompanied by *Acalypha indica*, *Chamaesyce hirta*, *C. tashiroi*, *Tribulus cistoides*, *Malvastrum caromandelianum*, *Senna occidentalis*, *S. tora*, *Corchorus aestuans* and *Bidens pilosa*.

b) ***Panicum repens* community:** This community is dominated by *Panicum repens* and accompanied by *Trianthema portulacastrum*, *Phyllanthus uriana*, *Malvastrum caromandelianum*, *Corchorus aestuans* and *Alysicarpus vaginalis*.

2) Thicket:

a) ***Scaevola sericea* community:** The community is composed of *Scaevola sericea* solely due to the cutting of the native vegetation of coastal thicket.

b) ***Lantana camara* community:** This community is mainly composed of *Lantana camara* and occurs in disturbed land accompanied by *Acalypha indica*, *Ricinus communis*, *Chamaesyce hirta* and *Passiflora foetida* var. *hispida*.

3) Artificial vegetation:

a) ***Leucaena leucocephala* community:** *Leucaena leucocephala* was planted as fence or windbreak. Now it occurs in clumps in the central part of the island.

b) ***Casuarina equisetifolia* community:** *Casuarina equisetifolia* was planted in the northeastern part of this island recently.

c) **Other cultivated plants** such as *Agave americana*, *Pennisetum setosum*, *Nerium indicum*, *Cocos nucifera* and *Pedilanthus tithymaloides*, are less abundant but are scattered throughout the island.

Floristic composition of vascular plants

1. Immigration types of vascular plants

A total of 110 species of vascular plants and one fungus species are recorded (check list). According to the dispersal agents for vascular plants, six immigration types can roughly be classified as follows: 1) ocean current; 2) birds; 3) wind; 4) naturalized species; 5) cultivated species; 6) unknown agents.

Among 110 species of vascular plants, 35 species are dispersed by ocean currents; 1 species by birds, 1 species by wind; 14 species are naturalized plants; 24 species are cultivated plants; and 35 species have been dispersed by unknown agents.

2. Composition and habits of the vascular plants

Seventy two species, excluding naturalized and cultivated species belonging to 66 genera in 32 families are considered to be native vascular plants. Among them, 52 species belonging

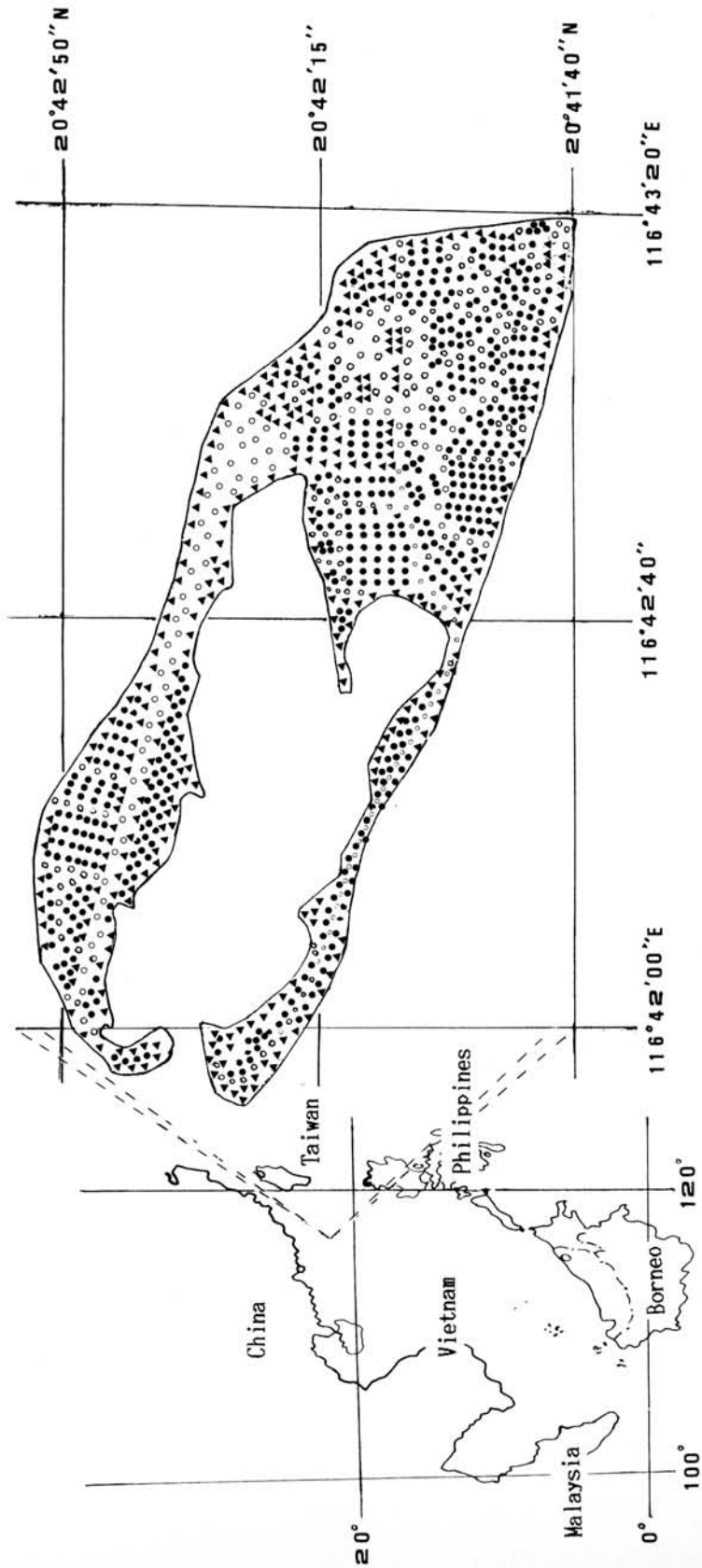


Fig. 1: Vegetation map of Tungshatao. ○ naked area; ▲ grassland; ● thicket.

to 46 genera in 25 families are Dicotyledons, and 20 species belonging to 20 genera in 7 families are Monocotyledons. Pteridophytes and Gymnosperms are not recorded (Table 1).

Table 1: The composition, immigration types and habits of vascular plants in Tungshatao.

TAXA	COMPOSITION			IMMIGRATION TYPES						HABIT			
	FAMILY	GENUS	SPECIES	S	B	W	U	N	C	Shrub	vine	herb	
DICOTYLEDONS	a	33	70	80	24	2	1	25	12	16	32	9	39
	b	25	46	52	24	2	1	25	0	0	17	8	27
MONOCOTYLEDONS	a	10	30	30	10	0	0	10	2	8	5	1	24
	b	7	20	20	10	0	0	10	0	0	1	0	19
TOTAL	a	43	99	110	34	2	1	35	14	24	37	10	63
	b	32	66	72	34	2	1	35	0	0	18	8	46

a: total species; b: indigenous species.

B: birds; C: cultivated species; N: naturalized species; S: ocean current; U: unknown agents; W: wind.

The largest family is Gramineae (Poaceae) with 13 species, the second largest Leguminosae (Fabaceae) with 7 species, and the third Euphorbiaceae with 6 species, then Compositae (Asteraceae), Convolvulaceae, and Rubiaceae with 4 species each. The habits of the plants are summarized as follows: shrubs 18 species; vines and woody vines 9 species; herbs 45 species.

Among the 72 native vascular plant species, six species, i.e. *Cordia subcordata*, *Pisonia grandis*, *Suriana maritima*, *Tribulus cistoides*, *Triumfetta procumbens*, and *Syringodium isoetifolium*, are not reported in Taiwan proper and its adjacent islands, but most of them have been reported in the Xisha Qundao (Chen et al., 1983). Therefore, both floras of Tuhgshatao (Ptatas Island) and Xisha Qundao (Paracel Island) are similar.

3. Distribution patterns of the vascular plants

The distribution patterns can be classified into 12 patterns, i.e. 1) warmer regions of the world; 2) pantropics; 3) tropical Asia, Africa, America; 4) paleotropics; 5) paleotropics and islands of Indian and Pacific ocean; 6) tropical Asia and Africa; 7) tropical Asia, Africa and islands of Pacific and Indian oceans; 8) Asia, Australia and Pacific ocean; 9) Asia, Australia, Madagascar and islands of Indian and Pacific oceans; 10) tropical Asia; 11) tropical Asia and Pacific islands; 12) South China.

The species are tropical but so widely distributed that some species may extend to less tropical regions (Table 2). The significant elements are pantropic or from tropical Asia, Australia and the Pacific islands.

Table 2: The distribution patterns of species of vascular plants in Tungshatao.

DISTRIBUTION PATTERN	TAXA AND IMMIGRATION TYPE								TOTAL
	Dicotyledons				Monocotyledons				
	S	B	W	U	S	B	W	U	
Warmer regions				12	2			5	29
Pantropics	6			11				4	21
Asia, Africa, America	1			1	2				4
Paleotropics	1			2					3
Paleotropics, islands of Pacific and Indian ocean	2			1					3
Asia, Africa			1	1					2
Asia, Africa, islands of Pacific and Indian ocean	3			1	1				5
Asia, Australia, Pacific islands	5			1	1				7
Asia, Australia, Madagascar, & oceanic islands	2			1					3
Asia	1	1		4	3				9
Asia, Pacific islands	3	1							4
South China				1				1	2
TOTAL	24	2	1	25	10			10	72

B: birds; S: ocean current; U: unknown agents; W: wind.

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CHECKLIST OF PLANTS OF TUNGSHATAO

(*, a preceding asterisk for plants of non-natives)

FUNGI**POLYPORACEAE****Trametes orientalis** (Yasuda) Imazuki 東方木栓菌.

Habitat: Epiphyte on tree trunk

Distribution: Japan, Continental China, Taiwan, Pacific islands.

Voucher: *T.C.Huang et al.* 16606.**DICOTYLEDONS****AIZOACEAE****Sesuvium portulacastrum** (L.) L., Syst. ed. 10. 1058; Liu & Chen in Fl. Taiwan **2**: 309. *pl.*
307. 1976. 海馬齒

Habit: Open beach.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16546, 16572.**Trianthema portulacastrum** L., Sp. Pl. 223. 1753; Liu & Chen in Fl. Taiwan **2**: 313. 1976.
假海馬齒

Habitat: Open place.

Distribution: Pantropics to warm temperate areas.

Voucher: *T.C.Huang et al.* 16644.**AMARANTHACEAE****Achyranthes aspera** L. var. **indica** L., Sp. Pl. 204. 1753; Liu & Kao in Fl. Taiwan **2**: 365. *pl.*
335. 1976. 印度牛膝

Habitat: Open place.

Distribution: Eastern and south eastern Asia.

Voucher: *T.C.Huang et al.* 16632.***Amaranthus viridis** L., Sp. Pl. 1405. 1753; Liu & Kao in Fl. Taiwan **2**: 374. 1976. 野苋
Habitat: Open wasteland beside building.

Distribution: Native of tropical America.
Voucher: *T.C.Huang et al.* 16669.

Celosia argentea L., Sp. Pl. 205. 1753; Liu & Kao in Fl. Taiwan **2**: 377. *pl.* 341. 1976. 青葙
Habitat: Open wasteland.
Distribution: Tropical and subtropical Africa, Asia.
Voucher: *T.C.Huang et al.* 16676.

APOCYNACEAE

- ***Adenium obesum** (Forsk.) Balf. ex Roem. & Schult., Syst. **4**: 411. 1819; Liu *et al.* Tr. Taiwan rev. ed. 709. 1988. 沙漠玫瑰
Habitat: Cultivated plants.
Voucher: *T.C.Huang et al.* 16650.
- ***Nerium indicum** Mill., Gard. Dict. ed. 8. no. 2. 1768; Liu *et al.*, Tr. Taiwan rev. ed. 713. 1988. 夾竹桃
Habitat: Cultivated as an ornamental.
Voucher: *T.C.Huang et al.* 16554, 16620.

BOMBACACEAE

- ***Pachira macrocarpa** (Cham. & Schl.) Schl. ex L. H. Bailey, Stand. Cycl. Hort. **5**: 2423. 1916; Liu *et al.* Tr. Taiwan rev. ed. 441. 1988. 馬拉巴栗
Habitat: Cultivated plants.
Voucher: *T.C.Huang et al.* 16630.

BORAGINACEAE

- Cordia subcordata** Lam., Tab. Encycl. **1**: 421. 1791; Chen *et al.* in Acta Bot. Aust. Sinica **1**: 146. 橙花破布子.
Habitat: Open place beside a temple.
Distribution: Tropical Africa, Asia, islands of Pacific Ocean and Indian Ocean.
Voucher: *T.C.Huang et al.* 16640.
- Heliotropium ovalifolium** Forssk. var. **depressum** (Cham) Merr. in Philipp. J. Sci. Bot. **9**: 134. 1914; Merr. Enum. Philip. Flower. Pl. **3**: 377. 1926 伏毛天芹菜
Habit: Open place.

Distribution: Tropical Asia, Africa, Australia and Pacific islands.
 Voucher: *T.C.Huang et al.* 16559, 16608.

Messerschmidia argentea (L.) Johnston in J. Arn. Arb. **16**: 164. 1935; Hsiao in Fl. Taiwan **4**: 404. 1978. 白水木
 Habit: Thicket.
 Distribution: Tropical Asia, Australia, Madagascar, islands of Indian Ocean and Pacific Ocean.
 Voucher: *T.C.Huang et al.* 16529, 16614.

CAPPARACEAE

Cleome gynandra L., Sp. Pl. 671. 1753; Liu & Liao in Fl. Taiwan **2**: 673. 1976 白花菜
 Habitat: Open place.
 Distribution: Pantropics.
 Voucher: *T.C.Huang et al.* 16613, 16623.

CARICACEAE

***Carica papaya** L., Sp. Pl. 1036. 1753. 木瓜
 Habitat: Cultivated for its fruit.
 Voucher: *T.C.Huang et al.* 16672.

CASUARINACEAE

***Casuarina equisetifolia** Forst., Char. Gen. pl. 104. 1776; Liu *et al.* Tr. Taiwan rev. ed. 359. 1988. 木麻黃
 Habitat: Cultivated for windbreak.
 Voucher: *T.C.Huang et al.* 16597, 16645.

COMBRETACEAE

Terminalis catappa L., Mant. Pl. **1**: 128. 1767; Li & Lo in Fl. Taiwan 2nd. ed. **3**: 935. 1993.
 欖仁
 Habitat: Open thicket.
 Distribution: Paleotropics.
 Voucher: *T.C.Huang et al.* 16589.

COMPOSITAE (ASTERACEAE)

- ***Bidens pilosa** L., Sp. Pl. 832. 1753; Li in Fl. Taiwan 4: 804. 1978. 三葉鬼針
 Habitat: Open field.
 Distribution: Native of North America, now pantropics.
 Voucher: *T.C.Huang et al. 16541, 16661.*
- ***Bidens pilosa** L. var. **minor** (Blume) Sherff in Bot. Gaz. 80: 387 1925; Li in Fl. Taiwan 4: 806. 1978. 咸豐草
 Habitat: Open place.
 Distribution: Pantropics.
 Voucher: *T.C.Huang et al. 16595.*
- Erigeron bonariensis** L., Sp. Pl. 563. 1753; Li in Fl. Taiwan 4: 858. 1978. 野塘蒿
 Habitat: Open sandy place
 Distribution: Pantropics.
 Voucher: *T.C.Huang et al. 11602.*
- ***Tridax procumbens** L., Sp. Pl. 900. 1753; Li in Fl. Taiwan 4: 955. *pl. 1260.* 1978 長柄菊.
 Habitat: Open field.
 Distribution: Native of tropical America.
 Voucher: *T.C.Huang et al. 16542, 16583.*
- Vernonia cinerea** (L.) Less. in Linnaea 4: 291. 1829; Li in Fl. Taiwan 4: 955. *pl. 1261.* 1978.
 一枝香
 Habitat: Open field.
 Distribution: Tropical Asia, Africa.
 Voucher: *T.C.Huang et al. 16600.*
- Wedelia biflora** (L.) DC. in Wright, Contr. Bot. Ind. 18: 1834; Li in Fl. Taiwan 4: 959. 1978.
 雙花蟛蜞菊
 Habitat: Open beach.
 Distribution: Tropical Asia, Australia, Islands of Indian Ocean and Pacific Ocean.
 Voucher: *T.C.Huang et al. 16567.*

CONVOLVULACEAE

- Ipomoea nil** (L.) Roth., Cat. Bot. 1: 36. 1797; Chang in Fl. Taiwan 4: 369. 1978 牽牛花.
 Habitat: Open field.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16547.

Ipomoea obscura (L.) Ker-Gawl. in Bot. Reg. **3**: pl. 239. 1817; Chang in Fl. Taiwan **4**: 369.

1978. 姬牽牛

Habitat: Hanging on coastal thicket.

Distribution: Paleotropics.

Voucher: *T.C.Huang et al.* 16633, 16675.

Ipomoea pes-caprae (L.) Sweet subsp. ***brasiliensis*** (L.) Oostst. in Blumea **3**: 533. 1940;

Chang in Fl. Taiwan **4**: 371. pl. 1043. 1978. 馬鞍藤

Habitat: Open beach.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16594.

Ipomoea tuba (Schlecht) G. Don, Gen. Syst. **4**: 271. 1838; Chang in Fl. Taiwan **4**: 378. 1978

圓萼天茄兒

Habitat: Hanging on margin of coastal thicket.

Distribution: Tropical Asia, Africa, America, Islands of Indian and Pacific Ocean.

Voucher: *T.C.Huang et al.* 16545, 16641.

CUCURBITACEAE

****Cucumis melo*** L., Sp. Pl. 1011. 1753. 香瓜

Habitat: Escaped plants.

Voucher: *T.C.Huang* 16667.

EUPHORBIACEAE

Acalypha indica L., Sp. Pl. 1030. 1753; Hsieh *et al.* in Fl. Taiwan 2nd. ed. **3**: 421. 1993.

印度鐵莧

Habitat: Open field.

Distribution: Tropical Asia, Africa, Madagascar, Pacific islands.

Voucher: *T.C.Huang et al.* 16548, 16581.

Chamaesyce atoto (Forst. f.) Croizat in Degner, Fl. Hawaii Fam 190. 1936; Lin *et al.* in Fl.

Taiwan 2nd. ed. **3**: 436. pl. 226. 1993 濱大戟

Habitat: Open beach.

Distribution: Tropical Asia, Australia, Pacific islands.

Voucher: *T.C.Huang et al.* 16609, 16550.

Chamaesyce hirta (L.) Millsp. in Publ. Field Columbian Mus. Bot. ser. **2**: 303. 1909; Lin *et al.* in Fl. Taiwan 2nd ed. **3**: 448. *pl.* 235. 1993 大飛揚草.

Habitat: Open field.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16551, 16636.

Chamaesyce tashiroi (Hayata) Hara in J. Jap. Bot. **14**: 356. 1938; Lin *et al.* in Fl. Taiwan **4**: 448. *pl.* 234. 1993. 田代氏大戟

Habitat: Open place.

Distribution: Taiwan, Tungshatao.

Voucher: *T.C.Huang et al.* 16615.

***Pedilanthus tithymaloides** (L.) Poit. in Ann. Mus. Par. **19**: 390. *t.* 19. 1812; Chen *et al.* in Acta Bot. Aust. Sinica **1**: 138 1983. 銀龍

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16605.

Phyllanthus urinaria L., Sp. Pl. 982. 1753; Deng & Wang in Fl. Taiwan 2nd. ed. **3**: 498. *pl.* 260. 1993. 葉下珠

Habitat: Open field.

Distribution: Tropical Asia.

Voucher: *T.C.Huang et al.* 16553.

***Ricinus communis** L., Sp. Pl. 1007. 1753; Hsieh *et al.* in Fl. Taiwan 2nd. ed. **3**: 500. 1993 蓖麻.

Habitat: Open place beside building.

Distribution: Native of Africa, now pantropical weed.

Voucher: *T.C.Huang et al.* 16616.

GOODENIACEAE

Scaevola sericea Vahl., Symb. Bot. **2**: 37. 1791; Li in Fl. Taiwan **4**: 765. *pl.* 1194. 1978 草海桐.

Habitat: Thicket.

Distribution: Tropical Asia, Australia, Madagascar, Islands of Indian Ocean and Pacific Ocean.

Voucher: *T.C.Huang et al.* 16530, 16582, 16638.

GUTTIFERAE (CLUSIACEAE)

Calophyllum inophyllum L., Sp. Pl. 513. 1753; Robson in Fl. Taiwan **2**: 621. *pl.* 427. 1976
瓊崖海棠.

Habitat: Open place beside a temple and cultivated elsewhere.

Distribution: Paleotropic, Islands of Indian and Pacific Ocean.

Voucher: *T.C.Huang et al.* 16654.

LABIATAE (LAMIACEAE)

***Ocimum basilicum** L., Sp. Pl. 597. 1753; Huang & Cheng in Fl. Taiwan **4**: 491. *pl.* 1080.
1978. 九層塔

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16648.

LAURACEAE

Cassytha filiformis L., Sp. Pl. 35. 1753; Chang in Fl. Taiwan **2**: 409. 1976. 無根藤

Habitat: Open beach.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16557, 16571.

LEGUMINOSAE (FABACEAE)

Alysicarpus vaginalis (L.) DC., Prodr. **2**: 353. 1825; Huang & Ohashi in Fl. Taiwan 2nd. ed.
3: 196. *pl.* 87. 1993 山地豆.

Habitat: Open field.

Distribution: Paleotropic.

Voucher: *T.C.Huang et al.* 16543, 16566.

***Bauhinia purpurea** L., Sp. Pl. 375. 1753; Liu *et al.* Tr. Taiwan rev. ed. 212. 1988 洋紫荊.

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16651.

Caesalpinia bonduc (L.) Roxb., Fl. Ind. ed. 2. **2**: 362. 1832; Huang & Ohashi in Fl. Taiwan
2nd ed. **3**: 177. *pl.* 80. 1993 老虎心.

Habitat: Open grassland near beach.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16665.

- Canavalia rosea** (Sw.) DC., Prodr. **2**: 404. 1825; Huang & Ohashi in Fl. Taiwan **3**: 210. 1993.
濱刀豆.
Habitat: Open beach.
Distribution: Pantropic.
Voucher: *T.C.Huang et al.* 16558.
- Erythrina variegata** L., Stickm. Herb. Amb. 101. 1754; Huang & Ohashi in Fl. Taiwan 2nd ed. **3**: 279. pl. 138. 1993 刺桐.
Habitat: Open sandy beach.
Distribution: Tropical Asia, Pacific islands.
Voucher: *T.C.Huang et al.* 16666.
- ***Leucaena leucocephala** (Lam.) de Wit in Taxon **10**: 54. 1961; Huang & Ohashi in Fl. Taiwan **3**: 171. 1993. 銀合歡
Habitat: Open field, in clump.
Distribution: Native of tropical America.
Voucher: *T.C.Huang et al.* 16537, 16573.
- ***Mimosa pudica** L., Sp. Pl. 518. 1753; Huang & Ohashi in Fl. Taiwan 2nd ed. **3**: 172. 1993
含羞草.
Habitat: Open field.
Distribution: Native of tropical America.
Voucher: *T.C.Huang et al.* 16659.
- ***Senna occidentalis** (L.) Link, Handbuch **2**: 40. 1831; Huang & Ohashi in Fl. Taiwan **3**: 183. pl. 83. 1993 望江南.
Habitat: Open place.
Distribution: Native of South America.
Voucher: *T.C.Huang et al.* 16536, 16642.
- Senna tora** (L.) Roxb., Fl. Ind. ed. 2. **2**: 340. 1832; Huang & Ohashi in Fl. Taiwan 2nd. ed. **3**: 186. 1993. 決明
Habitat: Open place.
Distribution: Pantropic.
Voucher: *T.C.Huang et al.* 16599.
- ***Sesbania canabina** (Retz.) Poir. in Lam. Encycl. **7**: 130. 1806; Huang & Ohashi in Fl. Taiwan 2nd. ed. **3**: 362. 1993 印度田菁
Habitat: Open field.
Distribution: Tropical Asia, naturalized in Tungshatao.
Voucher: *T.C.Huang et al.* 19607.

Sophora tomentosa L., Sp. Pl. 373. 1753; Huang & Ohashi in Fl. Taiwan 2nd ed. 3: 367. *pl.* 191. 1993 毛苦蔘.

Habitat: Open thicket near beach and cultivated as fence.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16621.

Vigna marina (Burm.) Merr., Interpret. Herb. Amb. 285. 1917; Huang & Ohashi in Fl. Taiwan 2nd ed. 3: 385. *pl.* 201. 1993 濱豇豆.

Habitat: Open beach.

Distribution: Pantropic.

Voucher: *T.C.Huang et al.* 16678.

MALVACEAE

Abutilon indicum (L.) Sweet, Hort. Brit. ed. 1: 54. 1836; Yang in Fl. Taiwan 3: 739. *pl.* 372. 1993. 冬葵子

Habitat: Open wasteland.

Distribution: Tropical, subtropical Asia.

Voucher: *T.C.Huang et al.* 16649.

***Hibiscus rosa-sinensis** L., Sp. Pl. 694. 1753; Liu *et al.* Tr. Taiwan 444. 1988. 朱槿.

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16679.

***Malvastrum coromandelianum** (L.) Garcke in Bonplandia 5: 297. 1857; Chang in Fl. Taiwan 2nd ed. 3: 745. *pl.* 374. 1993. 賽葵

Habitat: Open field.

Distribution: Native of tropical America.

Voucher: *T.C.Huang et al.* 16532, 16617.

Sida acuta Burm. f., Fl. Ind. 147. 1768; Chang in Fl. Taiwan 2nd ed. 3: 748. 1993.

細葉金五時花

Habitat: Open field.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16593.

MORACEAE

Ficus microcarpa L. f., Suppl. Sp. Pl. 442. 1781; Liu & Liao in Fl. Taiwan **2**: 139. 1976.

榕樹.

Habitat: Open place beside building, and cultivated.

Distribution: Tropical Asia, Australia, New Caledonia.

Voucher: *T.C.Huang et al.* 16596.

***Ficus septica** Burm. f., Fl. Ind. 226. 1768; Liu & Liao in Fl. Taiwan **2**: 148. *pl.* 244. 1976.

稜果榕

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16646.

Morus australis Poir. in Lam., Encycl. meth. Bot. **4**: 380. 1797; Liu & Liao in Fl. Taiwan **2**: 160. *pl.* 249. 1976 小葉桑

Habitat: In thicket.

Distribution: Eastern Asia to Indonesia.

Voucher: *T.C.Huang et al.* 16535, 16575.

MYRSINACEAE

***Ardisia squamulosa** Presl, Rel. Haenk. **2**: 65. 1835; Li in Fl. Taiwan **4**: 56. 1978 春不老.

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16660.

MYRTACEAE

***Psidium guajava** L., Sp. Pl. 470. 1753; Liu *et al.*, Tr. Taiwan 545. 1988. 蕃石榴.

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16653.

***Syzygium samarangense** (Blume) Merr. & Perry in J. Arn. Arb. **19**: 115. 1938; Liu *et al.* Tr. Taiwan 550. 1988. 蓮霧

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16652.

NYCTAGINACEAE

Boerhavia diffusa L., Sp. Pl. 3. 1753; Liu in Fl. Taiwan 2: 297. *pl.* 301. 1976. 黃細心.
 Habitat: Open field.
 Distribution: Tropical Asia, Australia, Pacific islands.
 Voucher: *T.C.Huang et al.* 16528, 16574.

Pisonia grandis R.Br., Prodr. 1: 422. 1810; Chen *et al.* in Acta Bot. Austro Sinica 1: 134.
 1983. 白避霜花
 Habitat: Thicket.
 Distribution: Tropical Asia, Pacific islands.
 Voucher: *T.C.Huang et al.* 16592, 16670.

PASSIFLORACEAE

***Passiflora foetida** L. var. **hispida** (DC.) Killip in Bull. Torrey Bot. Club. 58: 408. 1931;
 Kao in Fl. Taiwan 2nd ed. 3: 839. 1993. 毛西蕃蓮.
 Habitat: Open wasteland.
 Distribution: Native of tropical America.
 Voucher: *T.C.Huang et al.* 16539, 16610.

PORTULACACEAE

Portulaca oleracea L., Sp. Pl. 445. 1753; Liu & Chen in Fl. Taiwan 2: 316. *pl.* 310. 1976.
 馬齒莧
 Habitat: Open place.
 Distribution: All warmer areas.
 Voucher: *T.C.Huang et al.* 16525, 16625.

Portulaca quadrifida L., Mant. Pl. 1: 73. 1767; Liu & Chen in Fl. Taiwan 2: 318. 1976.
 四瓣馬齒莧
 Habitat: Open field.
 Distribution: Tropical Asia, Africa, Pacific islands.
 Voucher: *T.C.Huang et al.* 16533.

RHAMNACEAE

Colubrina asiatica (L.) Brongn. in Ann. Sci. Nat. 1(10): 369. 1827; Liu *et al.* in Fl. Taiwan
 2nd ed. 3: 684. *pl.* 353. 1993. 亞洲濱棗
 Habitat: Open thicket.
 Distribution: Paleotropics, Pacific islands.

Voucher: *T.C.Huang et al. 16618.*

RUBIACEAE

Guettarda speciosa L. Sp. Pl. 991. 1753; Chao in Fl. Taiwan **4**: 269. *pl. 996.* 1978 葛塔德木.

Habitat: Thicket.

Distribution: Tropical Asia, Australia, Pacific islands.

Voucher: *T.C.Huang et al. 16556, 16622.*

Hedyotis corymbosa (L.) Lam., Tabl. Encycl. **1**: 27. 1791; Chao in Fl. Taiwan **4**: 272. 1978.

繖花龍吐珠.

Habitat: Open place.

Distribution: Tropical Asia, Africa and America.

Voucher: *T.C.Huang et al. 16570.*

Hedyotis paniculata (L.) Lam., Tabl. Encycl. **3**: 79. 1789; Chao in Fl. Taiwan **4**: 276. *pl. 999.*

1978. 大葉珠仔草.

Habitat: Open place near beach.

Distribution: Tropical Asia.

Voucher: *T.C.Huang et al. 16560, 16598.*

Morinda citrifolia L., Sp. Pl. 176. 1753; Chao in Fl. Taiwan **4**: 307. 1978. 檄樹.

Habitat: Thicket.

Distribution: Tropical Asia, Australia, Pacific islands.

Voucher: *T.C.Huang et al. 16577.*

SAPINDACEAE

Allophylus timorensis (DC.) Blume, Rumphia **3**: 130. 1847; Chen in Fl. Taiwan 2nd ed. **3**:

599. *pl. 309.* 1993. 止宮樹

Habitat: Thicket.

Distribution: Tropical Asia, Pacific islands.

Voucher: *T.C.Huang et al. 16531, 16578.*

SIMABACEAE (SURIANACEAE)

Suriana maritima L., Sp. Pl. 284. 1753; Chen *et al.* Acta Bot. Austro Sinica **1**: 143. 1983.

海人樹.

Habitat: Open beach.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16534, 16647.

SOLANACEAE

***Datura metel** L., Sp. Pl. 179. 1953; Liu & Ou in Fl. Taiwan **4**: 531. *pl.* 1093. 1978. 曼陀羅.

Habitat: Open place.

Distribution: Native of India.

Voucher: *T.C.Huang* 16552, 16643.

Physalis angulata L., Sp. Pl. 183. 1753; Liu & Ou in Fl. Taiwan **4**: 535. 1978. 燈籠草.

Habitat: Open field.

Distribution: Native of tropical America.

Voucher: *T.C.Huang et al.* 16544, 16655.

Solanum nigrum L., Sp. Pl. 186. 1753; Liu & Ou in Fl. Taiwan **4**: 544. 1978 龍葵.

Habitat: Open place.

Distribution: All warmer areas.

Voucher: *T.C.Huang et al.* 16538, 16584.

TILIACEAE

Corchorus aestuans L., Syst. ed. 10. 1079. 1774; Chang in Fl. Taiwan 2nd ed. **3**: 724. 1993.

繩黃麻.

Habitat: Open field, grassland.

Distribution: Pantropic.

Voucher: *T.C.Huang et al.* 16677.

Triumfetta procumbens Forst. f., Fl. Ins. Austr. Prodr. 35. 1786; Chen *et al.* in Acta Bot.

Austro sinica **1**: 136. 1983. 葡萄垂椏草

Habitat: Open field near beach, under open thicket.

Distribution: Tropical Asia, Pacific islands.

Voucher: *T.C.Huang et al.* 16561, 16568.

VERBENACEAE

Clerodendrum inerme (L.) Gaertn., *Fruct.* **1**: 271. *pl.* 57. 1788; Hsiao in *Fl. Taiwan* **4**: 421. *pl.* 1058. 1978. 苦林盤

Habitat: Margin of thicket.

Distribution: Tropical Asia, Australia, Pacific islands.

Voucher: *T.C.Huang et al.* 16590.

***Lantana camara** L. var. **aculeata** (L.) Moldenke in *Torreya* **34**: 9. 1934; Hsiao in *Fl. Taiwan* **4**: 426. 1978. 馬櫻丹.

Habitat: Open field.

Distribution: Native of South America.

Voucher: *T.C.Huang et al.* 16624.

***Stachytarpheta urticaefolia** (Salisb.) Sims. in *Bot. Mag.* *pl.* 1848. 1916. 藍蝶木

Habitat: Open place.

Distribution: Native of tropical Asia, now pantropic.

Voucher: *T.C.Huang et al.* 16555, 16619, 16671.

ZYGOPHYLLACEAE

***Tribulus cistoides** L., *Sp. Pl.* **1**: 387. 1753 大花疾藜.

Habitat: Open field.

Distribution: Native of Madagascar, now pantropic.

Voucher: *T.C.Huang et al.* 16522, 16628.

MONOCOTYLEDONS

AGAVACEAE

***Agave americana** L., *Sp. Pl.* 323. 1753; Liu *et al.* *Tr. Taiwan.* 823. 1988. 龍舌蘭

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16626.

AMARYLLIDACEAE

Crinum asiaticum L., *Sp. Pl.* 292. 1753; Hsieh in *Fl. Taiwan* **5**: 91. *pl.* 1288. 1978. 文珠蘭.

Habitat: Open beach, and cultivated.

Distribution: Eastern Asia.

Voucher: *T.C.Huang et al.* 16603.

***Hymenocallis speciosa** (L. f. *ex* Salisb.) Salisb. in Trans. Hort Soc. **1**: 340. 1812. 螯蟹花.

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16609.

ARACEAE

***Epipremnum pinnatum** (L.) Engl. in Pflanzenr. **37**: 60. *f.* 25. 1908; Liu & Huang in Fl.

Taiwan **5**: 807. 1978. 拾樹藤

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al.* 16631.

CYMBODOEACEAE

Halodule uninervis (Forsk.) Aschers. in Boiss., Fl. Orient. **5**: 24. 1882; Yang in Fl. Taiwan **5**: 34. 1978. 單脈二藥藻.

Habitat: Submerged in shallow sea water.

Distribution: Tropical Asia, Africa, Australia and islands of Indian and Pacific Oceans.

Voucher: *T.C.Huang et al.* 16562, 16680.

Syringodium isoetifolium (Aschers.) Dandy in J. Bot. Brit. & For. **77**: 116. 1939.

水韭葉絲粉藻.

Habitat: Submerged in shallow sea water.

Distribution: Eurasia, Africa, Australia and Islands of Indian and Pacific Oceans.

Voucher: *T.C.Huang et al.* 16563, 16588.

CYPERACEAE

Cyperus rotundus L., Sp. Pl. 45. 1753; Koyama in Fl. Taiwan **5**: 269. 1978. 香附子

Habitat: Open place.

Distribution: All warmer areas.

Voucher: *T.C.Huang et al.* 16580.

GRAMINEAE (POACEAE)

- Brachiaria subquadripara** (Trin.) Hitchc. in Lign. Sci. J. **7**: 214. 1931; Hsu in Fl. Taiwan **5**: 533. 1978. 四生臂形草
Habitat: Open place.
Distribution: Pantropic.
Voucher: *T.C.Huang et al. 16585, 16663.*
- ***Cenchrus echinatus** L., Sp. Pl. 1050. 1753; Hsu in Fl. Taiwan **5**: 535. *pl. 1424.* 1978.
疾藜草.
Habitat: Open field.
Distribution: Native of tropical America.
Voucher: *T.C.Huang et al. 16607.*
- Chloris barbata** Sw., Fl. Ind. Occ. **1**: 200. 1797; Hsu in Fl. Taiwan **5**: 462. *pl. 1396.* 1978.
孟仁草.
Habitat: open wasteland.
Distribution: Pantropic.
Voucher: *T.C.Huang et al. 16634.*
- Cynodon dactylon** (L.) Pers., Syn. Pl. **1**: 85. 1805; Hsu in Fl. Taiwan **5**: 466. *pl. 1397.* 1978.
狗牙根.
Habitat: Open field.
Distribution: All warmer areas.
Voucher: *T.C.Huang et al. 16639, 16674.*
- Dactyloctenium aegyptium** (L.) Beauv., Ess. Agrost. 15. 1812; Hsu in Fl. Taiwan **5**: 471. *pl. 1399.* 1978. 龍爪茅
Habitat: Open wasteland.
Distribution: Pantropics.
Voucher: *T.C.Huang et al. 16658.*
- Digitaria henryi** Rendle in J. Linn. Soc. **36**: 323; Hsu in Fl. Taiwan **5**: 542. *pl. 1426.* 1978.
亨利馬唐.
Habitat: Open place.
Distribution: Vietnam, southern China, Taiwan.
Voucher: *T.C.Huang et al. 16664.*
- Eleusine indica** (L.) Gaertn., Fruct. **1**: 8. 1789; Hsu in Fl. Taiwan **5**: 475. *pl. 1401.* 1978.
牛筋草.
Habitat: Open field.
Distribution: Tropical and subtropical parts of the world.

Voucher: *T.C.Huang et al.* 16549, 16657.

Eragrostis amabilis (L.) Wight & Arn. *ex* Nees in Hook. & Arn., Bot. Beechey Voy. 251.

1838; Hsu in Fl. Taiwan **5**: 478. *pl.* 1402. 1978. 鯽魚草

Habitat: open place.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16540, 16576, 16673.

Imperata cylindrica (L.) Beauv. var. **major** (Nees) Hubb. *ex* Hubb & Vaughan, Grass Maur.

96. 1940; Hsu in Fl. Taiwan **5**: 661. 1978. 白茅

Habitat: Open place.

Distribution: Warmer areas of Old World.

Voucher: *T.C.Huang et al.* 16635.

Lepturus repens (G. Forst.) R. Br., Prodr. Fl. Nov. Holl. 207. 1810; Hsu in Fl. Taiwan **5**: 494.

pl. 1047. 1978. 細穗草.

Habitat: Open beach.

Distribution: Tropical Asia, Africa, islands of Pacific and Indian Ocean.

Voucher: *T.C.Huang et al.* 16524, 16591.

Panicum repens L., Sp. Pl. ed. 2. 87. 1762; Hsu in Fl. Taiwan **5**: 577. 1978. 鋪地黍

Habitat: Open place.

Distribution: Pantropics.

Voucher: *T.C.Huang et al.* 16257, 16579, 16656, 16662.

Paspalum vaginatum Sw., Prodr. Veg. Ind. Occ. 21. 1788; Hsu in Fl. Taiwan **5**: 588. 1978.

海雀稗.

Habitat: Open beach.

Distribution: Pantropics and subtropics.

Voucher: *T.C.Huang et al.* 16627.

***Pennisetum setosum** (Sw.) L. C. Rich. in Pers., Syn. Pl. **1**: 72. 1805; Hsu in Fl. Taiwan **5**:

592. 1978. 牧地狼尾草

Habitat: Open field.

Distribution: Native of tropical America and Africa.

Voucher: *T.C.Huang et al.* 16256.

Sporobolus virginicus (L.) Kunth, Rev. Gram. **1**: 67. 1829; Hsu in Fl. Taiwan **5**: 504. *pl.*

1412. 1978. 鹽地鼠尾粟.

Habitat: Open beach.

Distribution: Tropical Asia, Africa, America.

Voucher: *T.C.Huang et al. 16569, 16637.*

Thuarea involuta (Forst.) R. Br. *ex* Roem. & Schult., *Syst. Veg* **2**: 808. 1817; Hsu in Fl.

Taiwan **5**: 612. 1978. 芻薔草.

Habitat: Open beach.

Distribution: Tropical Asia, Australia, Madagascar, islands of Pacific and Indian Ocean.

Voucher: *T.C.Huang et al. 16523, 16612.*

***Zoysia tenuifolia** Willd. *ex* Trin. in *Mem. Acad. Sci. Petersb. ser. 6.* **4**: 96. 1836; Hsu in Fl.

Taiwan **5**: 508. 1978. 高麗芝.

Habitat: Cultivated plants in Garden.

Voucher: *T.C.Huang et al. 16668.*

HYDROCHARITACEAE

Halophila ovalis (R. Br.) Hook. f., *Fl. Tasm.* **2**: 45. 1858; Yang in Fl. Taiwan **5**: 17. 1978.

卵葉鹽藻

Habitat: Submerged in shallow sea water.

Distribution: Tropical Asia, Africa, Australia, islands of Indian and Pacific Oceans.

Voucher: *T.C.Huang et al. 16587.*

Thalassia hemprichii (Ehrenb.) Aschers. in *Permann's Mitt.* **17**: 242. 1871; Yang in Fl.

Taiwan **5**: 22. 1978. 泰萊藻.

Habitat: Submerged in shallow sea water.

Distribution: Tropical Asia, Africa, Australia and Pacific and Indian Ocean islands.

Voucher: *T.C.Huang et al. 16586.*

PALMAE (ARECACEAE)

***Chrysalidocarpus lutescens** Wendl. in *Bot. Zeitg.* **36**: 171. 1878; Liu *et al.* Tr. Taiwan 836.

rev. ed. 1988. 黃椰子.

Habitat: Cultivated plants.

Voucher: *T.C.Huang et al. 16681.*

Cocos nucifera L, *Sp. Pl.* 1188. 1723; Lin *et al.*, Tr. Taiwan rev. ed. 836. 1988. 可口椰子

Habitat: Cultivated plants.

Voucher: Photo.

***Phoenix hanceana** Naudin var. **formosana** Beccari in Philip. J. Sci. Bot. **3**: 339. *pl.* 1524, 1525. 1978. 台灣海棗
Habitat: Cultivated plants.
Voucher: *T.C.Huang et al.* 16682.

***Washingtonia filifera** (Lind. *ex* Andre) Wendl. in Bot. Zeitg. **37**: 68. 1879; Liu *et al.* Tr. Taiwan rev. ed. 852. 1988 華盛頓椰子.
Habitat: Cultivated plants.
Voucher: *T.C.Huang et al.* 16629.

PANDANACEAE

Pandanus odoratissimus L. f. Suppl. Pl. 424. 1782; Stone, Bot. Bull. Acad. Sin. **35**: 129-132. 1944. 林投
Habitat: Thicket.
Distribution: Tropical Asia to Australia.
Voucher: *T.C.Huang et al.* 16611.

東沙島之植物相

黃增泉, 黃星凡, 謝宗欣

摘 要

本文係國內外植物界首次報導東沙島植物相。東沙島屬於東沙群島, 位於台灣, 海南島及呂宋島之間, 距高雄港約430公里, 面積1.74平方公里。本島植被可分原生植被, 次生植被及人工植被, 植被帶以海岸灌叢為主, 最顯要植物為草海桐(*Scaevola sericea*), 伴生植物有白水木(*Messerschmidia argentea*), 海人樹(*Suriana maritima*), 葛塔德木(*Guettardia speciosa*), 小葉桑(*Morus australis*), 檄樹(*Morinda citrifolia*)及量較少的白避霜花(*Pisonia grandis*)。另有草本植被帶, 以海馬齒(*Sesuvium portulacastrum*), 芻蓄草(*Thuarea involuta*), 雙花蟛蜞菊(*Wedelia biflora*)及馬鞍藤(*Ipomoea pes-caprae* ssp. *brasiliensis*)為主。本島共登錄111種植物名錄, 24種為栽培種, 14種為馴化種。本島植物中有橙花破布子(*Cordia subcordata*), 白避霜花, 海人樹, 葡萄垂椏草(*Triumfetta procumbens*), 大花疾黎 (*Tribulus cistoides*) 及水韭葉絲粉藻(*Syringodium isoetifolium*)等6種不見於台灣及其附近小島。東沙島與西沙群島之植物相極為類似。感謝行政院農委會漁業處之經費及交通支援而完成本文。