

PRELIMINARY NOTES ON THE VEGETATION AND  
FLORA OF MT. TA-TUN, TAIPEI.

II. Flora: Magnoliaceae to Ranunculaceae.

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Enumeration of the vascular plants.

A. Angiospermae\*

a. Dicotyledons

I. Archichlamydeae

Fam. 1 Magnoliaceae

Magnoliaceae J. St.—Hil. Expos. Famil. 2: 74, 1805.

1) *Michelia* Linn.

Key to species

1. Leaves 14-24 cm. long.....*M. alba*
2. Leaves 6-10 cm. long.....2
2. Shrub, flowers very fragrant.....*M. fuscata*
2. Tree, flowers slightly fragrant.....*M. formosana*

*Michelia alba* DC. Syst. 1: 449, 1818; Merr. Enum. Philip. Pl. 2: 152, 1923.

*Michelia longifolia* Blume Bijdr. 7, 1825.

白玉蘭 Cultivated for ornamental purposes. A native of Java. M.

*Michelia formosana* (Kaneh.) Masam. et Suzuk. in Ann. Rep. Taihoku Bot. Gard. 3: 57, 1933.

*Michelia compressa* (Maxim.) Sarg. var. *formosana* Kaneh. in Trans. Nat. Hist. Soc. Formos. 20: 384, 1930.

烏心石 Evergreen trees; flowers white. Very common in broad-leaved forests at an altitude of 200-1,800 m. throughout the Island. Formosa. M.

*Michelia fuscata* (Andr.) Blume Fl. Jav. Magnol. 8, 1828.

*Magnolia fuscata* Andr. in Bot. Reposit. t. 229, 1812.

含笑花 Cultivated for ornamental purposes. A native of China. N.

Fam. 3 Schizandraceae

Schizandraceae J. Hutchinson Fam. Fl. Pl. Dicoty. 83, 1926.

1) *Kadsura* Juss.

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\* Angiosperms are arranged by families according to the system used by J. Hutchinson.

*Kadsura japonica* (Linn.) Dunnal Monogr. Fam. Anon. 57, 1817; Mak. et Nem. Fl. Jap. ed. 2: 354, 1931.

*Uvaria japonica* Linn. Sp. Pl. 536, 1753.

南五味子, 紅骨蛇, 美男葛 Evergreen vines; fls. dioecious; fr. light purple when mature. In thickets at low altitudes throughout the Island. China, Japan, Okinawa and Formosa. N.

Fam. 6 Trochodendraceae

Trochodendraceae Prant. in Engl. et. Prant. Nat. Pfl.-fam. 3: (2) 21, 1888.

1) Trochodendron S. et Z.

Trochodendron aralioides S. et Z. Fl. Jap. 1: 84, pl. 39, 1885; Matsum. et Hay. Enum. Pl. Formos. 11, 1906; Kanehira Formos. Tr. Rev. ed. 178, 1936.

*Trochodendron aralioides* S. et Z. var. *longifolium* Maxim. in Mel. Biolog. 8: 371, 1871.

昆欄樹 A large evergreen tree, scattered in the forests at high altitudes. Southern China, Korea, Japan, Okinawa and Formosa. MM.

Fam. 8 Annonaceae

Annonaceae Benth. et Hook. f. i. 24, 1862.

Key to genera

1. Inner petals sac-like at base, leaves brownish pubescent beneath, apex round or retuse ..... *Fissistigma*

1. Inner petals not sac-like at base, leaves glabrous, apex acute ..... *Artabotrys*

1) Artabotrys R. Brown

*Artabotrys uncinatus* (Lam.) Merr. in Philip. Journ. Sci. 7: Bot. 234, 1912; Merr. Enum. Philip. Pl. 2: 173, 1923.

*Anona uncinata* Lam. Encycl. 2: 127, 1786; *Unona uncinata* Dunal Monog. Anon. 105, t. 25, 1817; *Uvaria sinensis* Blanco Fl. Filip. 465, 1837; *Artabotrys odoratissimus* R. Br. in Bot. Reg. t. 423.

鶯爪花, 鶯爪桃, 香花 Pantropic in cultivation. A native of southern China. N.

2) Fissistigma Griff.

*Fissistigma Oldhami* (Hemsl.) Merr. in Philip. Journ. Sci. 15: 134, 1919; Kaneh. Formos. Tr. Rev. ed. 193, 1936.

*Melodrum Oldhami* Hemsl. in Ind. Fl. Sin. 1: 27, 1886.

毛瓜馥木, 山龍眼, 藤龍眼 A climber, in broad-leaved forests at low altitudes throughout the Island. Southern China and Formosa. N.

Fam. 11 Lauraceae

Lauraceae Lindl. Veg. Kingd. 535, 1847; Meiss. in DC. Prodr. 15: (I) 1, 1864.

Key to genera

1. Third whorl of stamens extrose.....2

1. All anthers introse.....4

2. Anthers 2-celled, fruits inclosed in perianth ..... *Cryptocarya*  
 2. Anthers 4-celled, fruits not inclosed in perianth. .3  
 3. Leaves usually 3-nerved ..... *Cinnamomum*  
 3. Leaves not 3-nerved, calyx lobes reflexed in fruit  
 ..... *Machilus*  
 4. Anthers 2-celled..... *Lindera*  
 4. Anthers 4-celled.....5  
 5. Perfect stamens 6, leaves 3-nerved ..... *Neolitsea*  
 5. Perfect stamens 9, leaves not 3-nerved .....6  
 6. Involucre early deciduous..... *Actinodaphne*  
 6. Involucre persistent ..... *Litsea*

1) *Actinodaphne* Nees

Key to species

1. Leaves lanceolate, acuminate, about 16 cm, long ... *A. nantoensis*  
 1. Leaves obovate to oblanceolate, apex obtuse, about 8 cm. long  
 ..... *A. pedicellata*

*Actinodaphne nantoensis* (Hay.) Hay. Icon. Pl. Formos. 3: 165, 1913.

*Litsea nantoensis* Hay. Mat. Fl. Formos. 251, 1911; *Actinodaphne morrisonensis* Hay. var. *nantoensis* (Hay.) Yamam. in Journ. Soc. Tro. Agr. 4: 52, 1932; *Fiwa nantoensis* (Hay.) Nakai in Journ. Bot. 14: (3) 193, 1938.

南投黃肉楠，臭屎楠 In broad-leaved forests from low to medium altitudes throughout the Island. Formosa. M.

*Actinodaphne pedicellata* Hay. in Matsum. et Hay. Enum. Pl. Formos. 351, 1906; Icon. Pl. Formos. 5: 172, f. 60, 1915; Kanehira Formos. Tr. Rev. ed. 197, 1936.

*Fiwa pedicellata* (Hay.) Nakai in Journ. Jap. Bot. 14: (3) 193, 1938.

黃肉楠，鐵屎楠 In broad-leaved forests at low altitudes throughout the Island, very common. Formosa. M.

2) *Cinnamomum* Tournefort

Key to species

1. Axils of the principal veins with glandular pits. . *C. camphora*  
 1. Axils of the principal veins without glandular pits  
 ..... *C. insulari-montanum*

*Cinnamomum camphora* (L.) Nees et Eberm. Handb. Med. Pharm. Bot. 2: 430, 1831; Kaneh. Formos. Tr. Rev. ed. 201, 1936.

*Laurus camphora* Linn. Sp. Pl. 369, 1753; *Cinnamomum camphora* (L.) Sieb. Syn. Pl. Oec. Jap. 23, 1930.

樟，本樟，香樟 An evergreen tree; fls. yellowish-green. In broad-leaved forests at low and medium altitudes throughout the Island. Southern China, Indo-China, Japan, Okinawa and Formosa. MM.

*Cinnamomum insulari-montanum* Hay. Icon. Pl. Formos. 3: 158, 1913.

*Cinnamomum pseudo-loureirii* Hay. Icon. Pl. Formos. 4: 20, 1914; *Cinnamomum acuminatifolium* Hay. Icon. Pl. Formos. 5: 152, 1919.

臺灣肉桂 In broad-leaved primary forests at medium altitudes. Formosa. M.

3) *Lindera* Thunb.

Key to species

1. Leaves 10-20 cm. long, 6 cm. wide.....*L. Oldhami*
1. Leaves less than 8 cm. long .....2
2. Young shoots and underside of leaves silky pubescent  
.....*L. glauca* var.  
*Kawakamii*
2. Underside of leaves brownish pubescent.....*L. communis*

*Lindera communis* Hemsl. in Forbes et Hemsl. Ind. Fl. Sin. 2: 387, 1891.

*Lindera formosana* Hay. Mat. Fl. Formos. 255, 1911; *Benzoin commune* Rehd. in Journ. Arn. Arb. 1: 144, 1919; *Benzoin formosanum* (Hay.) Kamik. in Ann. Rep. Taihoku Bot. Gard. 3: 79, 1933.

香葉樹 In broad-leaved forests at low altitudes throughout the Island. Southern China, Siam, Burma, India, Okinawa and Formosa. M.

*Lindera glauca* (S. et Z.) Bl. var. *Kawakamii* Hay. Mat. Fl. Formos. 255, 1911.

*Benzoin glaucum* Sieb. et Zucc. var. *Kawakamii* (Hay.) Sasak. List Pl. Formos. 191, 1928.

川上氏山胡椒 A small deciduous shrub, in thickets at low altitudes. Formosa. N.

*Lindera Oldhami* Hemsl. in Journ. Linn. Soc. 26: 390, 1891.

*Lindera pricei* Hay. Icon. Pl. Formos. 5: 178, 1915; *Benzoin Oldhami* (Hemsl.) Rehd. in Journ. Arn. Arb. 1: 145, 1919; *Benzoin pricei* (Hay.) Kamik. in Ann. Rep. Taihoku Bot. Gard. 3: 79, 1933.

大香葉樹, 大葉釣樟 A small deciduous tree, in thickets in the northern and central parts of the Island. Southern China, Formosa. M.

4) *Litsea* Lam.

Key to species

1. Deciduous tree or shrub, leaves membranaceous...*L. cubeba*
1. Evergreen tree, leaves coriaceous.....2
2. Leaves lanceolate, about 9 cm. long.....*L. dolichocarpa*
2. Leaves obovate to broadly oblong, 15-20 cm. long  
.....*L. Hayatae*

*Litsea cubeba* (Lour.) Persoon Syn. 2: 4, 1913; Rehder in Journ. Arn. Arb. 8: 112, 1927; Kaneh. Formos. Tr. Rev. ed. 215, 1936.

*Laurus cubeba* Lour. Fl. Cochinch. 4, 1790; *Litsea citrata* Bl. Bijdr. 565, 1825; *Actinodaphne citrata* (Bl.) Hay. Icon. Pl. Formos. 3: 164, 1913.

山胡椒, 木薑子 A small deciduous tree; berry globose, black when mature.

- Very common in secondary forests and waste lands at medium and high altitudes. India to Malaya and Southern China, Formosa. M.
- Litsea dolichocarpa* Hay. Icon. Pl. Formos. 5: 166, f. 59, 1915; Kaneh. Formos. Tr. Rev. ed. 216, 1936.
- Litsea hypophaea* Hay. Icon. 5: 167; *Litsea Nakaii* Hay. l.c. 168.
- 虎皮楠, 長果木薑子, 南投楠 In forests from medium to high altitudes in the northern and central parts of the Island, very common. Formosa. MM.
- Litsea Hayatae* Kaneh. Formos. Tr. Rev. ed. 217, f. 161, 1936.
- Litsea obovata* Hay. Mat. Fl. Formos. 252, 1911; *Cylicodaphne Hayatae* (Kaneh.) Nakai in Journ. Jap. Bot. 14: (3) 192, 1938.
- 早田氏木薑子 In forests at low and medium altitudes throughout the Island. Formosa. M.

5) *Machilus* Nees

## Key to species

1. Uppersurface of leaf dull.....*M. zuihoensis*
  1. Uppersurface of leaf shiny.....2
  2. Calyx glabrous.....*M. arisanensis*
  2. Calyx pubescent or at least slightly pubescent....3
  3. Leaves 15-20 cm. long, lateral veins 13-15 pairs...*M. Kusanoi*
  3. Leaves 8-10 cm. long, lateral veins about 8 pairs...*M. Thunbergii*
- Machilus arisanensis* (Hay.) Hay. Icon. Pl. Formos. 5: 160, f. 57, 1915; Kaneh. Formos. Tr. Rev. ed. 219, 1936.
- Machilus macrophylla* Hemsl. var. *arisanensis* Hay. Mat. Fl. Formos. 243, 1911; *Cinnamomum caudatifolium* Hay. l.c. 155, f. 54, b.
- 阿里山楠木 In broad-leaved forest at medium altitudes, most abundant in Arisan. Formosa. MM.
- Machilus Kusanoi* Hay. Mat. Fl. Formos. 241, 1911; Kaneh. Formos. Tr. Rev. ed. 220, 1936.
- 大葉楠, 楠仔 Occurring in broad-leaved forests at low altitudes throughout the Island. Formosa. MM.
- Machilus Thunbergii* Sieb. et Zucc. in Abh. Bayer. Akad. Wiss. Math. Phys. 4: (3) 202, 1846; Kaneh. Formos. Tr. Rev. ed. 222, 1936.
- Machilus kwashotensis* Hay. Icon. Pl. Formos. 5: 160, 1915; *Machilus Thunbergii* S. et. Z. var. *kwashotensis* (Hay.) Yamam. in Journ. Soc. Trop. Agr. 4: 53, 1932; *Machilus arisanensis* Hay. var. *nanshoensis* (Kaneh.) Yamam. l.c. 54.
- 紅楠, 豬脚楠 In forests and thickets at low altitudes throughout the Island. China, Korea, Japan, Okinawa and Formosa. M.
- Machilus zuihoensis* Hay. Mat. Fl. Formos. 244, 1911; Icon. Pl. Formos. 5: 162, 1915; Kaneh. Formos. Tr. Rev. ed. 224, 1936.

*Machilus longipaniculata* Hay. Icon. Pl. Formos. 3: 161, t. 30, 1913; *Machilus longise-pala* Hay. l.c. 3: 162, 1913; l.c. 5: 160, f. 56, 1915.

香楠，瑞香楠 A fairly large tree with straight trunk, in forests at low altitudes throughout the Island but more abundant in the north. Formosa. MM.

6) *Neolitsea* Merr.

*Neolitsea variabilissima* (Hay.) Kaneh. et Sasak. in Trans. Nat. Hist. Soc. Formos. 20: 381, 1930.

*Tetradenia variabilissima* Hay. Icon. Pl. Formos. 5: 176, f. 61, e, 1915.  
In forests from medium to high altitudes. Formosa. M.

變葉新木薑子

Fam. 15 Ranunculaceae

Ranunculaceae Juss. Gen. Pl. 231, 1789.

Key to genera

1. Vines often wood, leaves opposite.....*Clematis*
1. Erect herbs .....2
2. Petals present, flowers yellow showy.....*Ranunculus*
2. Petals lacking, flowers small white and numerous  
.....*Thalictrum*

1) *Clematis* Linn.

Key to species

1. Stems and leaves glabrous .....2
1. Stems and leaves densely tomentose .....4
2. Inflorescence in axillary open panicle .....3
2. Flowers solitary, in axils of leaves.....*C. Tashiroi*
3. Leaflets 5-7 .....*C. floribunda*
3. Leaflets 3.....*C. Meyeniana*
4. Leaflets 7-11 cm. long, hairs on underside of leaf, golden yellow  
.....*C. Leschenaultiana*
4. Leaflets 3-5 cm. long, hairs not golden yellow....*C. Gouriana*

*Clematis floribunda* (Hay.) Yaman. in Journ. Soc. Trop. Agric. 4: 188, 1932.

*Clematis uncinata* Champ. var. *floribunda* Hay. Mat. Fl. Formos. 18, 1911.

臺灣女萎 At low altitudes throughout the Island. Formosa. Ch.

*Clematis Gouriana* Roxb. Hort. Beng. 43, 1814; Merr. Enum. Philip. Pl. 2: 141, 1923.

*Clematis vitalba* Linn. subsp. *cumingii* O. Kuntze in Verg. Bot. Verein. Prov. Brandenb. 26: 100, 1885.

In thickets and forests at low and medium altitudes. Philippines, India, Malaya, Java and Formosa. Ch.

*Clematis Leschenaultiana* DC. Syst. 1: 151, 1818; Prodr. 1: 6, 1824; Merr. in

Philip. Journ. Sci. 5: Bot. 348, 1910.

*Clematis acuminata* DC. var. *Leschenaultiana* (DC.) O. Kuntze in Verg.  
Bot. Verein. Prov. Brandenb. 26: 167, 1885.

串鼻龍 In thickets at medium altitudes. Philippines, Java, and Formosa. Ch.  
*Clematis Meyeniana* Walp. in Nov. Act. Acad. Nat. Cur. 19: Suppl. 1, 297, 1843; -  
Merr. Philip. Pl. 142, 1923.

邁氏鐵線蓮 In thickets, borders of forests at low and medium altitudes.  
Burma, central and southern China to Okinawa, Indo-China and  
Formosa. Ch.

*Clematis Tashiroi* Maxim. in Bull. Acad. Sci. St. Petersburg. 32: 477, 1888.

琉球鐵線蓮 At low altitudes, in northern part of the Island. Ch.

2) *Ranunculus* Tournefort

Key to species

1. Plants pubescent.....2
1. Plants entirely glabrous.....*R. scleratus*
2. Plants hispid, 30-70 cm. high.....*R. Vernyii*
2. Plants slightly pubescent, 15-20 cm. high.....*R. Zuccarini*

*Ranunculus scleratus* Linn. Sp. Pl. 551, 1753; Hay. Icon. Pl. Formos. 3: 8, 1913.

石龍芮 In or near water. Eurasia and North America. H.

*Ranunculus Vernyii* Fr. et Sav. Enum. Pl. Jap. 2: 266, 1876; Yamamoto Supp.  
Icon. 3: 32, 1927.

*Ranunculus ternatus* (non Thunb.) DC. Prodr. 1: 31, 1824; *Ranunculus*  
*japonicus* (non Thunb.) Lagsd. et Fisch. in DC. Prodr. 1: 38, 1824.

毛茛 Near the sea level, in wet lands especially in rice fields. Japan, Korea,  
Okinawa, Formosa. H.

*Ranunculus Zuccarini* Miq. in Ann. Lugd. Bat. 3: 5, 1869.

*Ranunculus ternatus* Thunb. Nakai in B. M. T. 42: 22.

小金鳳花 In wet lands at low altitudes. Japan, Okinawa, Formosa. H.

3) *Thalictrum* Tournefort

*Thalictrum Urbaini* Hay. Icon. Pl. Formos. 1: 25, 1911; Masamune Trop. Ag.  
3: 21.

臺灣鐵大烏 In marshy ground at medium altitudes. Formosa. H.

(To be continued)