Hypericum of Formosa.¹⁾

By

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With 7 Figures.

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The Late Professor B. HAYATA has made public many new species of Formosan *Hypericum*. In 1911 he published all species of Formosan *Hypericum*: viz. *H. acutisepalum* HAY., *H. Ascyron* L., *H. chinense* L., *H. formosanum* MAXIM., *H. geminiflorum* HEMSL., *H. japonicum* THUNB., *H. Nagasawai* HAY., *H. patulum* THUNB., *H. randaiense* HAY., *H. Sampsoni* HANCE, *H. simplicistylum* HAY., *H. subalatum* HAY., *H. taisanense* HAY. and *H. trinervium* HEMSL. in his "Icones Plantarum Formosanarum" Vol. I, giving a key to them. In 1936 Mr. S. SUZUKI added *H. taihezanense* SUZUKI in MASAMUNE's "Short Flora of Formosa", but dropped *H. acutisepalum*, *H. geminiflorum* and *H. trinervium*. In the following year Dr. OHWI described a new species *H. nokoense* OHWI, and I proposed a new genus *Takasagويا* for *H. formosanum*, *H. subalatum*, *H. acutisepalum*, *H. geminiflorum*, *H. simplicistylum* and *H. trinervium*. Studying on the specimens of *Hypericum* being kept in the herbaria of the Tokyo and the Taihoku²⁾ Imperial Universities and which belong to four sections; Euhypericum, Rosecyna, Norysca and Brathys, I recognized eleven indigenous species and two cultivated species (Sect. Norysca; *H. patulum* and *H. salicifolium*), of which eight of them are endemic in Formosa.

Key to the sections of Formosan Hyperica.

1 {	Ovarium e carpellis tribus compositum	2
1 {	Ovarium e carpellis quinque compositum	3
2 {	Ovarium fere triloculare	Sectio Euhypericum
2 {	Ovarium uniloculare	Sectio Brathys
3 {	Petala et stamina decidua. Frutices vel suffrutices	Sectio Norysca
3 {	Petala et stamina marcescentia. Herbae perennes	Sectio Rosecyna

1) Contribution from the Laboratory of Systematic Botany (Prof. T. NAKAI) of the Botanical Institute, Faculty of Science, Tokyo Imperial University.

2) To Prof. S. HIBINO and to Prof. Y. YAMAMOTO of the Taihoku Imperial University I am indebted for the opportunity of examining the specimens of *Hypericum* kept in the Herbarium of the University.

Sectio I. *Euhypericum* BOISSIER

Fl. Orient. 1 (1867) 785.

- 1 { *Carpella* multo-gladuloso-striata Subsect. Homotaenium
 Carpella glandulis ellipticis vittata Subsect. Drosocarpium

Subsectio I. Homotaenium R. KELLER

in Engler, Pfl.-fam. ed. 1, 3-Abt. 6 (1893) 213.

Almost all Japanese *Hypericum* belongs to this section and its stem is terete and glabrous. Except *H. erectum* and *H. pseudopetiolatum* of Honsyû, the endemic Formosan species resemble each other. Their distinctive characteristics are indicated in the following key.

Key to the species.

- 1 { Caulis elineatus vel non elevato-bilineatus. Petala nigro-punctata tantum vel pauce pellucido-punctata vel striata tantum. Styli ovario 1.2-plo longiores vel breviores 2
 Caulis elevato-bilineatus. Petala saepius multo-pellucido-striata rarius glandulis nigris pauce mixta vel eglandulosa. Styli ovario duplo, rarius 1-2-plo longiores (*H. Nagasawai*). Folia pellucido-punctata, rarius punctis nigris mixta (*H. Nagasawai* var. *nigrum*) vel rarissime nigro-punctata tantum (*H. nokoense*) 3
 2 { Styli ovario breviores. Petala pellucido-striata vel punctata vel eglandulosa. Folia subpetiolata *H. pseudopetiolatum* var. *taihezanense* (1)
 Styli ovario 1.2-plo longiores. Petala nigro-punctata. Folia semi-amplexicaulia *H. erectum* var. *angustifolium* (2)
 3 { Styli ovario leviter (1.2-1.3-plo) longiores. Caulis 5-17 cm usque ad 23 cm altus, foliis lanceolato-oblongis. Sepala acutiuscula vel obtusa. Petala pellucido- et raro nigro-striata *H. Nagasawai* (3)
 3a. Folia et sepala pellucido-punctata var. *typicum*
 3b. Folia et sepala pellucido- et nigro-punctata var. *nigrum*
 Styli ovario ca. duplo longiores 4
 4 { Caulis gracilis elongatus 5-20 cm altus, foliis lineari-lanceolatis copiose pellucido-punctatis. Sepala acuta margine saepius epunctata vel minutissime pellucido- et nigro-punctata. Petala pellucido-striata punctataque *H. randaiense* (4)
 Caulis saepius humilis vel raro altus, foliis oblongis lanceolato-oblongis vel ovatis. Sepala margine nigro-punctata vel ciliato-glandulifera 5
 Sepala margine ciliato-glandulosa. Inflorescentia pluri- (ca. 18)-florifera *H. taiwanianum* (5)
 5 { Sepala integra margine nigro-punctata. Inflorescentia pauci- (ca. 1-3 raro 6)-florifera 6
 Planta nana 5-10 cm alta, foliis ovatis vel oblongo-ovatis minimis ca. 4-6 mm longis nigro-punctatis. Sepala acuta vel acuminata, pellucido- et nigro-striata. Petala pellucido-striata et paucissime et brevissime nigro-striata *H. nokoense* (6)
 6 { Caulis 10-30 cm altus, foliis oblongis vel lanceolato-oblongis raro ovato-oblongis ca. 10-18 mm longis pellucido-punctatis vel fere epunctatis. Sepala obtusa vel acutiuscula 7

- 7 { Caulis humilis 10 cm. altus, latus lineis valde elevatis et subquadrangularibus. Folia crassa fere epunctata. Sepala nigro-punctata. Petala pellucido-striata et nigro-punctata *H. Hayatae* (7)
 { Caulis ca 30 cm. altus gracilis, lineis elevatis. Folia potius tenera pellucido-punctata. Sepala et petala fere epunctata *H. Suzukianum* (8)

1) ***Hypericum pseudopetiolum* KELLER**

var. ***taihezanense*** (S. SUZUKI) Y. KIMURA in Journ. Jap. Bot. **15** (1939) 298.

Hypericum taihezanense S. SUZUKI in Trans. Nat. Hist. Soc. Formos. **20** (1930) 239 et in Ann. Reports Taihoku Bot. Gard. **1** (1931) 158; SASAKI, List Pl. Formos. (1928) 295; S. SUZUKI in MASAMUNE, Short Fl. Formos. (1936) 141.

Nom. Jap. *Taiwan-azeotogiri*.

Distrib. Formosa septentrionalis et circa Arisan.

Specim. exam.: Prov. *Taihoku*, Mt. Sitisei-zan (Y. SIMADA, no. 405, 30 Jun. 1935 *P* et Maio, 1918 *T*), Mt. Daiton (Y. SIMADA, no. 5676, 28 Nov. 1937 *P*), Ratô-gun, Sikikun-sya (S. SUZUKI, 12 Jul. 1929 *F*) ibidem Mururoahu (Y. YAMAMOTO, 3 Sept. 1925 *T*; T. SUZUKI, no. 7288, 16 Jul. 1932 *F*), Inter Ugan et Pianan-ambu (S. SUZUKI, no. 5028 Jul. 1930 *F*), Mt. Taiheizan, Toganoo (S. SUZUKI, 5 Aug. 1928 *F*, et 9 Aug. 1928 *F*), Karasan (S. SUZUKI, no. 805, 24 Jul. 1929 *F* et no. 6214, no. 6251, 27 Sept. 1930 *F*), Takunan-kei (S. SUZUKI, no. 873, 25 Jul. 1929 *F*), Minamoto (S. SUZUKI, no. 3945, 29 Maio 1930 *F*), in silvis inter Saukan et Kiyanrawa (T. SUZUKI, no. 6991, 15 Jul. 1932 *F*), inter Koro et Saukan (S. SUZUKI, no. 5907, 20 Sept. 1930 *F*), inter Sankyaku et Suigen (S. SUZUKI, no. 5938, 31 Sept. 1930 *F*), Ritozan (E. MATUDA, 29 Jul. 1918 *T*). Prov. *Sintiku*, Taiko-gun, Mogiri-Tyûzaisyo (N. FUKUYAMA, no. 2518 11 Jul. 1932 *F*), in vastitate alto montis Kita-sôtenzan (T. SUZUKI, no. 6991, 16 Jul. 1931 *F*). Prov. *Tainan*, Arisan, Iwaiyama (Y. YAMAMOTO et K. MORI, 6 Nov. 1932), ibidem (Y. HASIOKA, 6 Jul. 1933 *T*; U. FAURIE, no. 535, Jun. 1714 *T*).

2) ***Hypericum erectum* THUNBERG** jap. mspt. ex MURRAY, Syst. Veg. ed. 14 (1784) 702 et Fl. Jap. (1784) 296.

var. ***angustifolium*** Y. KIMURA in Bot. Mag. Tokyo **52** (1938) 194.

Hypericum taisanense HAYATA, Mater. Fl. Formos. (1911) 41, Icon. Pl. Formos. **1** (1911) 80; SASAKI, List. Pl. Formos. (1928) 296; S. SUZUKI in MASAMUNE, Short Fl. Formos. (1936) 141, *syn. nov.*

Nom. Jap. *Hosoba-otogiri*.

Distrib. Honsyû, Kyûsyû, Formosa.

Specim. exam. Formos.: Prov. *Sintiku*, Mt. Rokuzyô-taizan (T. KAWAKAMI—Typus *H. taisanensis*).

B. HAYATA noted after his description "Near *H. erectum* THUNB.: but differs from it in having elongated ovate leaves." This form of the leaves is that of *H. erectum* var. *angustifolium*, and the latter has also small flower as HAYATA's species. The type of *H. taihezanense* is the specimen from

Taisan collected T. KAWAKAMI and nobody found this species thereafter.

3) **Hypericum Nagasawai** HAYATA, Mater. Fl. Formosa (1911) 38, Icon. Pl. Formos. 1 (1911) 81, Pl. 18; SASAKI, List Pl. Formos. (1928) 295; S. SUZUKI in MASAMUNE, Short Fl. Formos. (1936) 141.

Hypericum attenuatum CHOISY sensu HAYATA, Fl. Mont. Formos. (1908) 59 pro parte.

Rhizoma repens. Caulis caespitosus humilis, 6–17 cm usque ad 23 cm altus 0.8 (0.5–1) mm latus ascendens simplex vel ramosus, bilineis elevatis. Folia anguste oblonga 10–15 mm longa 5–6 mm lata rarius usque ad 20 mm longa 8 mm lata, apice et basi obtusa, sessilia vel leviter semi-amplexicaulia, copiose pellucido-punctata et rarissime (var. *nigrum*) apicem et marginem versus pauce nigro-punctata margine nigro-punctata, saepius gemmifera, crassiora. Cyma una pauci-(1–3)-florifera. Sepala lanceolata vel lanceolato-oblonga, 4–5 mm longa 1.6–2 mm lata, apice obtusa vel acutiuscula, pellucido-striata vel punctata rarius lineas nigras mixta (var. *nigrum*) margine pluro vel pauce nigro-punctata. Stamina plura ca. 70, 8–9 mm longa. Ovarium 3–5 mm longum, stylis 3.5–6 mm longis. Capsula conico-ovoidea, ca. 5 mm longa.

var. **typicum** Y. KIMURA, *nom. nov.*

Folia pellucido-punctata. Sepala pellucido-punctata striataque. Petala pellucido-punctata.

Nom. Jap. *Niitaka-otogiri*.

Distrib. Formosa, in jugis montium altissimorum.

Specim. exam.: summis montis Rokuzyôtaizan (N. FUKUYAMA, no. 196, 8 Jul. 1932 *F*), summis montis Taiha (S. SUZUKI, 5 Jul. 1934 *F*), Mt. Taiheizan, summis montis Geiro (S. SUZUKI, no. 465, 16 Jul. 1929 *F*), ibidem Toganoo (S. SUZUKI, no. 491, 17 Jul. 1929 *F*), Mt. Tugitaka (K. MORI, 24 Oct. 1936; S. ONUMA, no. 12, 19 Aug. 1930 *F*; Y. SIMADA, no. 2530, 8 Oct. 1925 *P*), Mt. Nankotaizan, Kirittoi-Bunakkei (J. OHWI, no. 3978, 18 Jul. 1933 *K*; Y. HASHIOKA, 28 Jul. 1934 *T*), ibidem circa summum (J. OHWI, no. 4095, 19–20 Jul. 1933 *K*), Piyanan-goe (Y. HASHIOKA, 30 Jun. 1936, *T*), in scopulis, ca. 3300 m. alt. monte Tyûôsenzan (N. FUKUYAMA et T. SUZUKI, no. 15092, 29 Jul. 1936 *F*), Mt. Nôkôzan (E. MATUDA, 7 Aug. 1919 *T.F.*), in silvis *Tsugae chinense* (Y. KUDO et K. MORI, no. 83, 14 Jul. 1930 *F*), Mt. Kiraisyu-Nanpô (S. SUZUKI, no. 2380, 24 Aug. 1929 *F*) 3200 mt. (Y. SIMADA, no. 5639, 9 Aug. 1918 *P*, 3033 m (Y. SIMADA, no. 2212A, Oct. 1918 *P* no. 2212B, *K*), Mt. Niitaka, summis (NAGASAWA, 3 Nov. 1905, *T*-Typus; no. 754 *K*) ibidem 3000 m alt. (T. KAWAKAMI et U. MORI, 20 Oct. 1906, no. 2260 *T*) ibidem 3930 m alt. (S. OHASHI, no. 5638B, Jun. 1918 *K*) ibidem (T. ITO, no. 3501, 30 Sept. 1926 *P*; Y. HASHIOKA, 9 Jul. 1933 *T*), Daisuikutuzan (J. OHWI, no. 3773, 7 Jul. 1933 *K*); Prov. *Taityû*, Banti, Onoe (S. SUZUKI, 3 Aug. 1926 *F*), Prov. *Karenkô*, inter Tabito et Korapao (J. OHWI, 23 Apr. 1933 *K*).

var. **nigrum** Y. KIMURA, *var. nov.*

Folia pellucido-punctata et apicem marginemque versus nigro-punctata. Sepala nigro- et pellucido-striata. Petala pellucido- et pauce nigro-striata.

Fig. 1-6. Petals and sepals of endemic species of Formosan *Hyperica*.1: *H. nokoense*. 2: *H. randaiense*. 3: *H. taiwanianum*. 4: *H. nokoense*. 5: *H. Hayatae*. 6: *H. Suzukiianum*.a: Petal $\times 5$. b: Sepal $\times 10$. 1c: Sepal of *H. nokoense* var. *nigrum* $\times 10$.

Nom. Jap. *Niitaka-kuro-otogiri*.

Specim. exam.: Prov. *Taiyû*. Inter Nôkô et Boarun (Y. KUDO et K. MORI, 16 Jul. 1930 *F*—Typus).

4) ***Hypericum randaiense*** HAYATA, Mater. Fl. Formos. (1911) 39, Icon. Pl. Formos. 1 (1911) 81, pl. 18; SASAKI, List. Pl. Formos. (1928) 295; S. SUZUKI in MASAMUNE, Short Fl. Formos. (1936) 141.

Rhizoma repens. Caulis caespitosus, humilis, 5–20 cm altus, raro usque ad 35 cm altus, ascendens simplex vel rarius ramosus gracilis, bilineis elevatis. Folia linearia lineari-lanceolata, lineari-oblongata vel anguste oblonga 10–17 mm longa 2–3 mm lata apice et basi obtusa sessilia vel leviter semi-amplexicaulia distincte pellucido-punctata margine nigro-punctata. Cyma saepius una pauci-(1–5)-florifera, pedicellis 1–2 cm longis, bracteis foliaceis. Sepala ovato-oblonga, 5 mm longa, 1.5–2 mm lata apice acuta 3–5-nervata pellucido-punctata striataque, margine minutissime et paucissime pellucido-punctata. Petala oblonga 9–12 mm longa 5–6 mm lata valde inaequilateralia multi-(ca. 10)-nervata, nervis ramosis, pellucido-punctata striataque, margine epunctata vel paucissime nigro-punctata. Stamina plura (60–75) pistillo aequilonga, 8–12 mm longa. Ovarium ovato-oblongum 2.5–3 mm longum, stylis ovario ca. duplo longioribus ca. 5.7–6.2 mm longis.

Nom. Jap. *Randai-otogiri*.

Distrib. Formosa in jugis montium altissimorum.

Specim. exam. Formos.: Mt. Randaisan (T. KAWAKAMI et B. HAYATA, 8 Aug. 1908 *T*—Typus), Arisan (T. SATOW, no. 356, 15 Oct. 1935 *T*) ibidem Taikosan ca. 2400 m alt. (H. ITO, 30 Mai. 1936 *T*) ibidem inter Takata et Numanohira, Prov. Tainan (M. TAGAWA, no. 386, 15 Aug. 1934 *K*, *T* et no. 394, 15 Aug. 1934 *K*) ibidem 2500 m (U. FAURIE, no. 536, Jun. 1914 *K*) ibidem Iwaiyama (J. OHWI, no. 3428, 9 Jul. 1933 *K*) ibidem Tôzan (Y. YAMAMOTO et K. MORI, 6 Nov. 1938 *F*) ibidem Suizan (T. SOMA, 31 Feb. 1914), Mt. Niitakayama (T. KAWAKAMI et U. MORI, 18 Oct. 1906 *F*) ibidem Iwaiyama (T. NAGAI, 31 Oct. 1905 *K*) ibidem 13000 ft. (S. OHASHI, no. 5638A, Jun. 1918 *P*).

5) ***Hypericum taiwanianum*** Y. KIMURA, sp. nov.

Caulis caespitosus ? ascendens 12 cm altus 1 mm latus, ramosissimus, ramis brevibus sed saepius 1–3-floriferis, lineis elevatis. Folia oblonga vel ovato-oblonga 15–18 mm longa 6–8 mm lata, apice obtusa vel obtusiuscula, basi rotundata semiamplexicaulia, epunctata ? margine nigro-punctata crassa in sicco recurvata. Inflorescentia cymoso-paniculata ca. 18-florifera, bracteis foliaceis sed bracteolis minoribus 3–4 mm longis angustioribus pellucido-punctatis (semper?). Sepala subaequalia, late lanceolata vel oblongo-lanceolata, apice acuta vel acutiuscula pellucido-punctata ? margine ciliato-glandulosa. Petala oblongo-obovata 11.5 mm longa pellucido-striata margine nigro-papillosa. Stamina plura ca. 65, 8–9.5 mm longa antheris 0.38 mm

longis. Ovarium ovoideum 3.2 mm longum, stylis 5.8 mm longis.

Nom. Jap. *Tugitaka-otogiri*.

Distrib. Endemica.

Typus: Mt. Tugitakayama (S. OHASI, 13 Jul. 1924 *T*).

The sepals are thick and their glands are obscure, but the pellucid dots can be found in some leaves. The existence of stipitate glands on the margine of the sepals are characteristics of this species.

6) ***Hypericum nokoense*** OHWI in Acta Phytotaxonom. et Geobot. 6 (1937) 48.

Caulis caespitosus humilis 5–10 cm. altus ascendens, simplex gracilis, bilineis leviter elevatis. Folia ovata vel oblongo-ovata, 4–6 mm longa 2–2.5 mm lata apice obtusa basi rotundata sessilia nigro-punctata margine epunctata crassa. Inflorescentia 1–5 florifera, bracteis lineari-lanceolatis 3–3.5 mm longis acuminatis, nigro-punctatis et striatis margine nigro-punctatis. Sepala lanceolata 3.5–4 mm longa 1.2 mm lata acuminata, pellucido- et nigro-punctata, margine nigro-punctata. Petala oblongo-ovata basi cuneata 9.5–10 mm longa 4.5 mm lata pellucido-striata et paucissime nigro-striata. Stamina 5–8 mm longa, ca. 40. Ovarium 2 mm longum, stylis 5.4 mm longis.

Nom. Jap. *Komeba-otogiri*.

Distrib. Endemica.

Typus: Formosa, Nôkôgoe (J. OHWI, no. 2915—*KT*).

This very small plant has also very small leaves. It allies to *H. randaiense*, but differs in form and the black dots on the sepal. It also resembles to *H. Nagasawai*, when the latter becomes small in size and black glands appear, but it may easily be distinguished from *H. Nagasawai* which has oblong leaves and obtuse sepals.

7) ***Hypericum Hayatae*** Y. KIMURA sp. nov.

Caulis caespitosus, humilis ca. 10 cm altus ramosus crassus et latus basi 2.5 mm latus lignosus, distincte bilineis elevatis vel fere alatis. Folia oblonga vel anguste oblonga ca. 11–13 mm longa 5–6 mm lata, apice et basi obtusa sessilia vel leviter semi-amplexicaulia, fere epunctata margine tantum nigro-punctulata crassiora. Inflorescentia 1–5-florifera. Sepala 3–3.2 mm longa 1.3–1.8 mm lata, apice acutiora nigro-punctata margine nigro-punctata crassiora. Petala 10 mm longa 4.2 mm lata multi-nervata, pellucido-striata et pauce nigro-punctata, margine paucissime nigro-punctata. Stamina ca. 80, 8 mm longa. Ovarium 2 mm longum, stylis 5.2 mm longis.

Nom. Jap. *Atuba-yamaotogiri*.

Distrib. Endemica.

Typus: Hakku-taizan (U. MORI, 1 Sept., 1910 *T*)

This species has most rigid stem within the groupe. The decurrent lines of the stem are so prominent that it looks almost square. Except its very long styles the flower resembles to that of *H. Nagasawai*. var *nigrum*.

8) ***Hypericum Suzukianum*** Y. KIMURA sp. nov.

Caulis 30 cm altus ascendens, ramis brevissimis, bilineis elevatis. Folia anguste oblonga vel lanceolato-oblonga 15 mm longa 4 mm lata, in ramulis minora 5 mm longa 1.8 mm lata, apice obtusa sessilia vel leviter semiamplexicaulia, pellucido-punctata margine nigro-punctata crassiora. Cyma dichotoma terminalis pauci-(5-7)-flora, axillaris uniflora, bracteis foliaceis. Sepala 3 mm longa 1 mm lata crassa apice tantum margine pauce nigro-punctata. Petala 8 mm longa eglandulosa oblonga margine tantum paucissime nigro-papillosa. Stamina plura ca. 40, 6-7 mm longa, antheris minoribus. Ovarium 2.2 mm longum, stylis fere ovario duplo longioribus 4.5 mm longis.

Nom. Jap. *Taiwan-yamaotogiri*.

Distrib. Endemica.

Typus: Prov. *Taiyû*, Kunugigaoka (S. SUZUKI, 27 Jul. 1936 *F*).

The leaves have pellucido-dots, of which some dots are distinct and clear, and others are small and obscure.

Subsection II. *Drosocarpium* (SPACH) R. KELLER

in ENGLER, *Pfl.-fam.* ed. 1, 3-Abt. 6 (1893) 358.

9) ***Hypericum Sampsoni***

HANCE in SEEMANN, *Journ. Bot.* **3** (1865) 378; etc.; HENRY, *List Pl. Formos.* (1896) 19; MATSUMURA et HAYATA, *Enum. Pl. Formos.* (1906) 43; HAYATA, *Icon. Pl. Formos.* **1** (1911) 80; SASAKI, *List Pl. Formos.* (1928) 295; S. SUZUKI in MASAMUNE, *Short Fl. Formos.* (1936) 141.

Nom. Jap. *Tukinuki-otogiri*.

Distrib. Kyûsyû, Sikkoku, Formosa (Prov. *Taihoku*, Prov. *Sintiku*), China australis, Cochinchina,

Fig. 7. *Hypericum Sampsoni*.
a: Petal $\times 5$, b: Sepals $\times 10$.

India (Khasia).

Specim. exam. Formos.: Prov. *Taihoku*, Inter Kandô et Tansui (T. SUZUKI, no. 6946, 12 Jun. 1932 *F*), *Pede montis Oyayubi-yama* (T. SUZUKI, no. 4216, 10 Maio. 1931 *F*), *Taihoku* (S. YANO, no. 399, 12 Maio 1897 *H*, no. 410, 22 Maio 1897 *TH*; T. KAWAKAMI, 26 Jun. 1909 *F*), *Taihokusi*, *Senzyôzân* (SUZUKI, 4 Apr. 1928 *F*), *Kiirun Dandan* (G. MASAMUNE no. 617 et S. SUZUKI, no. 4469, 17 Maio 1930 *F*), *Tansui* (S. SUZUKI, 28 Maio 1926 *F*), *Kurubehama* (T. SUZUKI, no. 4213, 30 Apr. 1931 *F*), *Kwannon* (S. SUZUKI, no. 11927, 28 Oct. 1932 *F*), *Pianan* (S. SUZUKI, 21 Jul. 1922). Prov. *Sintiku*, *Tôen* et *Nankan* (Y. YAMAMOTO, 5 Maio 1929 *F*), *Nansyô* (Y. SIMADA, no. 1215 Jul. 1929 *KP*).

Sectio II. *Roscyna* (SPACH) ENDLICHER

Gen. Pl. 2 (1840) 1033.

10) ***Hypericum Ascyron*** L., Sp. Pl. ed. 1, (1753) 783; etc.; MATSUMURA et HAYATA, Enum. Pl. Formos. (1906) 40; SASAKI, List Pl. Formos. (1928) 295; S. SUZUKI in MASAMUNE, Short Fl. Formos. (1936) 141.

var. ***genuinum*** MAXIMOWICZ, Prim. Fl. Amur. (1859) 64.

Nom. Jap. *Tomoeshô*.

Distrib. *Honsyû*, *Sikoku*, *Kyûsyû*, *Formosa* (Prov. *Sintiku*), *Korea*, *Manshuria*, *China*.

Specim. exam. Formos.: Prov. *Sintiku*, *Sintiku-si* (Y. SIMADA, no. 1209A, 18 Maio 1923), *Sintiku-si*, *Zyûhassenzan* (Y. SIMADA, no. 1210A, 17 Oct. 1923 *P*).

According to the letter of Mr. Y. SIMADA, this plant grows in *Formosa* only in the neighbourhood of the city of *Sintiku*.

Sectio III. *Brathys* (MUTIS ex L. f.) CHOISY

in DC. Prodr. 1 (1824) 553.

11) ***Hypericum japonicum*** THUNBERG, jap. mspt. ex MURRAY, Syst. Veg. ed. 14 (1784) 702 et Fl. Jap. (1784) 295 except. tab.; etc.; MATSUMURA et HAYATA, Enum. Pl. Formos. (1906) 41; SASAKI, List Pl. Formos. (1928) 295; S. SUZUKI in MASAMUNE, Short Fl. Formos. (1936) 141.

var. ***typicum*** HOCHREUTINER in Candollea 2 (1925) 435.

Folia ovata vel oblongo-ovata vel rotundata.

Nom. Jap. *Himeotogiri*.

Distrib. *Honsyû australis*, *Sikoku*, *Kyûsyû*, *Ryûkyû*, *Formosa*, *Korea*, *China*, *Cochinchina*, *Malay*, *Philippine*, *Java*, *Australia*, *Tasmania*, *New Zeyland*.

Specim. exam. Formos.: Prov. *Taihoku*, *Taihoku* (S. SUZUKI, 26 Oct. 1922 et 17 Jun. 1927, no. 4429, 14 Mart. 1930, no. 6326, 28 Sept. 1930 *F*), *Taihoku Daigaku* (S. SUZUKI, no. 4813, 11 Jun. 1930 *F*), *Rato-gun inter Doba et Ekizyû-kei* (M. TAGAWA, no. 15, 26 Jul. 1934 *T*), *Doba* (S. SUZUKI, no. 6326, 28 Sept. 1930 *F*), *Senzyôsan* (S. SUZUKI, 7 Jun. 1922; T. SUZUKI no. 4478, 16 Jul. 1931 *F*), *Ratô* (S. SUZUKI no. 3692, 25 Mart.

1930 *F*), Kiirun (T. MAKINO, 17 Nov. 1896 *T*; NAGASAWA no. 647, 5 Jun. 1906 *T*), Kiirun Dandan (S. SUZUKI, no. 4468, 17 Maio 1930 *F*), Sinten (Y. YAMAMOTO, 21 Apr. 1929 *F*), Taiheizan (S. SUZUKI, 1 Aug. 1928 *F*), Hokutô (G. NAKAHARA, Oct. 1906 *T*), Kin-yan et Piyahau (S. SUZUKI, no. 6376, 24 Sept. 1930 *F*), Ins. Kizan (G. MASAMUNE et S. SUZUKI, 3 Jul. 1932 *F*), Suigenti (S. SUZUKI, 13 Apr. 1929 *F*) circa Uraisya (H. ITO, 23 Maio 1936 *T*), Sizangan (T. NONAKA, et K. MORI, 2 Apr. 1933 *F*), Giran (S. SUZUKI, no. 2603, 23 Mart. 1930 *F*), Sitisei (S. SUZUKI, 3 Sept. 1926 *F*) Daitôzan (H. ITO, 27 Maio 1936 *T*). Prov. *Sintiku*, Tôen et Nankan (Y. YAMAMOTO, 5 Maio 1929 *F*), Tôen (S. SUZUKI, 25 Oct. 1932 *F*), Byôritu (B. HAYATA, T. KAWAKAMI et U. MORI, no. 40, 1 Aug. 1908 *T*; T. KAWAKAMI, 30 Jul. 1908). Prov. *Taityû*, Mukaiyama-Rinryû, ad Gettan (Y. KUDO et S. SASAKI, no. 15676, 23 Sept. 1929 *F*) in silvis pedum montis Baran ad Zitugetutan (Y. KUDO et S. SASAKI no. 15461, 17 Sept. 1920), in litore orientale ad Gettan (Y. KUDO et S. SASAKI no. 15146, 17 Sept. 1929 *F*), Zitugetutan, Rengeti Nakayama et Mukaiyama (K. MORI, 8 Jul. 1936 *F*), Zitugetutan (T. SATOW, 13 Oct. 1935 *T*). Prov. *Takao*, Buizan (E. MATUDA, 6 Jun. 1919 *F*). Prov. *Taitô*, Pokupoku-sya (T. KAWAKAMI et Y. KOBAYASI, 3 Maio 1906 *T*).

var. **lanceolatum** Y. KIMURA var. nov.

Folia lanceolata. Caulis ramosus, foliis lanceolatis 10 mm longis 3 mm latis apice acutis. Flores minores, sepalis 3-4 mm longis. Capsula 3.5 mm longa.

Nom. Jap. *Hosoba-himeotogiri*.

Typus: Formosa, Prov. *Sintiku*, Senkyakuseki (Y. SIMADA no. 4116, 24 Maio 1, 1931 *T, P*).

Sectio IV. *Norysca* (SPACH) ENDLICHER

Gen. Pl. 2 (1840) 1033.

12) ***Hypericum patulum*** THUNBERG mspt. ex MURRAY, Syst. Veget. ed. 14 (1784) 700, Fl. Jap. (1784) 295 et Icon. Pl. Jap. (1800) t7.; etc.

Komana patula Y. KIMURA in Honda, Nom. Pl. Jap. (1939) 509, *nom. altern.*

Nom. Jap. *Kinsibai*. Cult. in Formosa.

13) ***Hypericum salicifolium*** SIEBOLD et ZUCCARINI in Abh. Akad. Münch. 4-2, Sect. 1 (1939) 509.

Hypericum chinense L. sensu MATSUMURA et HAYATA, Enum. Pl. Formos. (1906) 40; etc.

Komana salicifolia (SIEB. et ZUCC.) Y. KIMURA in Honda, Nomina Pl. Jap. (1939) 222 *nom. nud.*; *nom. altern.*

Nom. Jap. *Byôyanagi*. Cult. in Formosa.