A List of Plants collected in Hang-chou,
Cheh-kiang, by K. Honda.

(Continued from Vol. XXVI. p. 346.)

by

S. Matsuda.

LVI. **Amarantaceæ.**

283. **Achyranthes bidentata** Bl. ; Moq. in DC. Prodr. XIII. 2, 312 ; Hook. f. Fl. Brit. Ind. IV. 730 ; Wight Ic. Pl. Ind. Or. t. 779 ; Forb. et Hemsl. in Journ. Linn. Soc. XXVI. 322.

Ken-shan-mun (艮山門), Aug, (nos. 507,508) ; Tai-pin-mun (太平門), Sept., (no. 427) ; Ching-tai-mun (清秦門), Oct., (no. 514).

var. japonica Miq. (*nom. Jap.* Inokodzuchi) has somewhat smooth leaves, while in the type I notice the back of leaves subvillose.

284. **Alternanthera sessilis** R. Br. ; Moq. in DC. Prodr. XIII. 2, 357 ; Benth. Fl. Hongk. 286 ; Hook. f. Fl. Brit. Ind. v. 286 ; Wight. Ic. t. 727 ; Forb. et Hemsl. l. c. 322 ; Diels in Engl. Bot. Jahrb. XXIX. 317.

Tsen-tang-mun (錢塘門), Oct., (no. 144).

Nom. Jap. *Tsuru-nogeitō*.

285 **Amarantus paniculatus** L. ; Moq. in DC. Prodr. XIII. 2, p. 257 ; Hook. f. Fl. Brit. Ind. IV. 718 ; Forb. et Hemsl. l. c. 320 ; Diels l. c. 316.

Ken-shan-mun (艮山門), Sept., (no. 11) ; Oct., (no. 63).

Nom. Jap. *Fujigeito*.

Specim. no. 2 is an imperfect one.

285. **A. spinosus** L. ; Moq. in DC. Prodr. XIII. 2, 260 ;

Benth. Fl. Hongk. 284 ; Hook. f. Fl. Brit. Ind. IV. 718 ; Forb. et Hemsl. l. c. 320 ; Diels l. c. 316 ; Matsum. et Hayata, Enum. Pl. Formos. 325.

Ku-shan (孤山), Oct., (no. 38) ; Kon-yuan (貢院), Sept., (no. 584).

Nom. Jap. *Hari-biyu*.

Specim. no. 584 is an imperfect one.

286. **Celosia argentea** L., Moq. in DC. Prodr. XIII. 2, 242 ; Benth. Fl. Hongk. 284 ; Forb. et. Hemsl. l. c. 318 ; Diels l. c. 316.

Ya-feng (岳墳), Nov., (no. 830).

Nom. Jap. *Nogeito* (青箱).

LVII. **Chenopodiaceæ.**

287. **Chenopodium album** L. ; Moq. in DC. Prodr. XIII. 2. 76 ; Benth. Fl. Hongk. 282 ; Hook. f. Fl. Brit. Ind. V. 3 ; Forb. et Hemsl. in Journ. Linn. Soc. XXVI. 323 ; Diels in Engl. Bot. Jahrb. XXIX. 315.

Ken-shan-mun (艮山門), Oct., (nos. 422, 523) ; Chi-ling (葛嶺), Oct., (no. 308) ; Nov., (no. 154).

Nom. Jap. *Akaza*. (藜).

Chi-ling-specim. is too aged

288. **Ch. ficifolium** Smith ; Moq. in DC. Prodr. XIII. 2, 65 ; Fr. et Sav. Enum. Pl. Jap. I. 386 ; Forb. et Hemsl. l. c. 324.

Ken-shan-mun (艮山門), Mai., (nos. 1300, 1301).

Nom. Jap. *Ko-akaza*.

289. **Kochia Scoparia** Schrad. Moq. in DC. Prodr. XIII. 2, 130 ; Hook. f. Fl. Brit. Ind. v. II ; Fr. et Sav. Enum. Pl. Jap. I. 388 ; Horb. et Hemsl. l. c. 428 ; Diels l. c. 310.

Ken-shan-mun (艮山門), Nov., (no. 44 ?).

Nom. Jap. *Hô-kigi* (地膚).

LVIII. **Phytolaccaceæ.**

290. **Phytolacca esculenta** van Houtte ; Moq. in DC.

Prodr. XIII. 2, 460 ; Walter in Engl. Pfl. Reich. Heft 39 (Phytolaccac.), 40.

Kong-yuan (貢院), Oct., (nos. 721, 815).

Nom. Jap. *Yamagobō* (商陸).

It differs from *Ph. acinosa*. Roxb. thus : peduncles and axis of inflorescence are glabrous, and sepals obtuse in *Ph. esculenta* ; sepals are acute, and peduncles and axis of inflorescence are scabrous in *Ph. acinosa*.

LIX. Polygonaceæ.

291. **Polygonum Blumei** Meisn. in Ann. Mus. Bot. Lugd. Bat. II. 57 ; Fr. et Sav. Enum. Pl. Jap. II. 473 et 479 ; *Zōtei Somoku Zusetsu* Vol. VII. Pl. 60 ; Nakai in Bot. Mag. Tokyo 1909, 394 (*in Jap.*) ; Lévl. in Bull. Soc. Bot. Fr. 1910, 449 ; = *P. Posumbu* Hamilt (Meisn). *var. Blumei* (Meisn). Herder ; Nakai l. c.

Tsen-tang-mun (錢塘門), Sept., (nos. 415, 416).

Nom. Jap. *Inu-tade*.

292. **Polygonum** (Sect. Cephalophilon) **criopolitanum** Hance in Ann. Sc. Nat. 5^{me} série, V. 238 ; Lévl. in Bull. Soc. Bot. Fr. (1910), 445. = *P. capitatum* Matsuda in Bot. Mag. Tokyo 1910, 172 non Hamilt.

Ken-shan-man (艮山門), Sept., (no. 322).

293. **P. cuspidatum** Sieb. et Zucc. Fl. Jap. Fam. Nat. n. 731 ; Meisn. in DC. Prodr. XIV. 136 ; Bot. Mag. t. 653 ; Forb. et Hemsl. in Journ. Linn. Soc. XXVI. 336 ; Diels in Engl. Bot. Jahrb. XXIX. 314.

Chi-ling. (葛嶺), Oct., (nos. 400, 498).

Nom. Jap. *Itadori*.

The present specimen has the margin of leaves crisped, and is closely allied to *P. compactum* Hook. f. in Bot. Mag. t. 6476.

294. **P. Fagopyrum** L. ; Baker et S. Moore in Journ. Linn. Soc. XVII. 385 ; DC. Orig. Pl. Cult. ed. 3, 279 ; Forb. et Hemsl. l. c. 339 ; = *Fagopyrum esculentum* Moench. ; Meisn. in DC. Prodr. XIV. 143 ; Hook. f. Fl. Brit. Ind. V. 55 ; Diels l. c. 315.

Tai-pin-mun (太平門), Oct., (nos. 690, 758, 759, 761, 762); Ching-tai-mun (清泰門), Mai., (no. 1299); Aug., (nos. 374); Ken-shan-mun (艮山門), Oct., (no. 389).

Nom. Jap. *Soba* (蕎麥).

295. **P. flaccidum** Meisn.; Hook. f. Fl. Brit. Ind. V. 39; Forb. et Hemsl. l. c. 339.

Ken-shan-man (艮山門), Oct., (no. 334); Tsen-tang-mun (錢塘門), Sept., (no. 36); Ku-shan (孤山), Nov., (no. 343).

Nom. Jap. *Bontokutade*.

This is *P. flaccidum* Meisn. in DC. Prodr. VIV. 109 *in part.* according to Hooker.

296. **P. hangchouense** n. s.

8 dm. high, glabrous, branching; *leaves* shortly petiolate, ovato-oblong, acuminate, lamina 10×1.5 cm., glabrous above and underneath, punctated; *stipules* strigose, cilia shorter than the tube; *peduncles* slender; *racemes* 3 or 4 cm. long, subcylindrical, densely flowered; *flowers* whitish or slightly tinged purple (v. s.), fascicled in the axile of bracts, which are turbinate and furnished with short cilia; *sepals* 3 mm. long; *stamens* 8, unequal, included; *style* slightly exserted, branches 3; *nut* trigonose (mature one not seen).

This sp. has somewhat showy flowers, and is closely allied to *P. Posumbu* Hamilt. But short, densely flowered racemes, larger flowers, exserted style etc. distinguish it from the latter sp. In the present sp. perianth about 3.5 mm. long, style exserted, and stamens included; while in *P. Posumbu* I notice perianth not exceeding 2.5 mm., style short, included, and the stamens subequal to the perianth.

Tai-pin-mun (太平門), Oct., (no. 684).

297. **P. japonicum** Meisn. in DC. Prodr. XIV. 112 et 695 (*β. grandiflorum* Meisn.); Fr. et Sav. Enum. Pl. Jap. I. 396, et II. pp. 474 et 479; Forb. et Hemsl. l. c. 341; Diels 312; Nakai in Bot. Mag. Tokyo (1909) 390 (*in Jap.*); Lévl. in Bull. Soc. Boe. Fr. (1910) 448.

Tsen-tang-mun (錢塘門), Sept., (no. 702); Oct., (no. 411); Nov. (no. 371); Chi-ling (葛嶺), Oct., (no. 76); Ling-yin (靈隱), Sept., (no. 379); Ken-shan-mun (艮山門), Sept. (nos. 7,465);

Aug., (nos. 127,177); Ya-feng (岳墳), Nov., (no. 453); Ku-shan (孤山), Aug., (no. 406).

Nom. Jap. *Sakura-tade*.

I notice *styles* 2. in the specimen no. 702. In the no. 7. sepals are about 3 mm. long. Is this *P. sterile* Nakai l. c.?

298. ***P. lapathifolium*** L.; Hook. f. Fl. Brit. Ind. V. 35; Lév. in Bull. Soc. Bot. Fr. (1910) 448;

var. *incanum* Ledeb. Fl. Ross. III. 521; Matsuda in Bot. Mag. Tokyo XX. 145.

Yu-ching-mun (湧金門), Sept., (no. 147); Kong-tsen-chau (拱宸橋), Sept., (no. 540); Oct., (no. 549); Ken-shan-mun (艮山門), Oct., (nos. 779, 780).

Specim. 779 and 780 are somewhat deviating from the typical form, still they seem to be of the present sp., not of *P. Persicaria* L., which has hirsute and ciliate stipule.

299. *P. multiflorum* Thunb. Fl. Jap. 169; Meisn. in DC. Prodr. XIV. 136; Hance in Journ. Bot. 1878, 13 et 1882, 293; Fr. et Sav. Enum. Pl. Jap. I. 402, et II. 480; Diels l. c. 314.

Ching-tai-mun (清泰門), Oct., (no. 44); Ku-shan (孤山), Oct., (no. 327).

Nom. Jap. *Tsuru-dokudami* (何首烏).

300. ***P. nipponense*** Makino in Bot. Mag. Tokyo XXIII. 89; Nakai ibid. 420 (*in Jap.*); = *P. hastato-sagittatum* β . *latifolium* Makino in Bot. Mag. Tokyo XVII. 120; = *P. strigosum* R. Br. var. *latifolium* Makino in litt.; = *P. muricatum* var. Maxim. in litt.

Tsen-tang-mun (錢塘門), Sept., (nos. 30,32); Oct., (nos. 143, 337);

Ken-shan-mun (艮山門), Oct., (no. 461); Aug., (no. 409).

Nom. Jap. *Yanone-gusa*.

301. ***P. orientale*** L.; Meisn. in DC. Prodr. XIV. 123; Benth. Fl. Hongk. 288; Fr. et Sav. Enum. Pl. Jap. I. 397 et II. 478; Hook. f. Fl. Brit. Ind. V. 30; Bot. Mag. t. 213; Forb. et Hemsl. l. c. 343; Diels l. c. 313.

Ken-shan-mun (艮山門), Aug., (no. 496); Sept., (nos. 82, 83?); Oct., (nos. 81, 91, 500, 599); Tsen-tang-mun (錢塘門), Oct., (no. 420); Yu-ching-mun (湧金門), Nov., (no. 831).

The determination of specim. no. 831 is unsatisfactory; it seems to be a starved form of *P. orientale*.

Nom. Jap. *Ôketade* (荳草).

302. **P. perfoliatum** L.; Forb. et Hemsl. l. c. 344; Diels l. c. 314.

Tai-pin-mun (太平門), Oct., (no. 404); Ken-shan-mun (艮山門), Aug., (no. 412); Ching-tai-mun (清泰門), Oct., (no. 57).

Nom. Jap. *Ishimikawa* (杠板歸).

303. **P. Posumbu** Hamilt.; Hook. f. Fl. Brit. Ind. v. 38; Fr. et Sav. Enum. Pl. Jap. I. 394 et II. 473; Nakai in Bot. Mag. Tokyo, 1909, 394 (*in Jap.*); Lévl. in Bull. Soc. Bot. Fr. (1910). 449.

Ken-shan-mun (艮山門), Nov., (no. 356); Oct., (nos. 525, 601, 624); Sept., (no. 719); Aug., (nos. 515, 559); Swi-shing-kau (水星閣), Nov., (no. 456); Tsen-tang-mun (錢塘門), Oct., (no. 412); Ching-tai-mun (清泰門), Oct., (no.—); Tai-pin-mun (太平門), Oct., (no. 631).

Nom. Jap. *Hana-tade*.

Specim. 719 and 631 have short dense-flowered spike, and more than 1 fl. are in the axile of the bract.

304. **P. virginianum** L.; Meisn. in DC. Prodr. XIX. 112; Hook. f. Fl. Brit. Ind. v. 31; Forb. et Hemsl. l. c. 352; Diels l. c. 312.

Ken-shan-mun (艮山門), Sept., (no. 6); Ku-shan (孤山), Oct., (no. 5).

Nom. Jap. *Midzu-hiki*.

forma glabratum f. n.

Leaves glabrous, not adpressedly haired.

Ku-shan (孤山), Oct., (no. 406).

305. **Rumex acetosa** L.; Meisn. in DC. Prodr. XIX. 63; Bak. et Moore in Journ. Linn. Soc. XVII. 385; Franch. Pl. David. 253; Forb. et Hemsl. l. c. 355; Diels l. c. 311.

Tai-pin-mun (太平門), Apr., (nos. 955, 956); Ken-shan-mun (艮山門), Apr., (nos. 1063, 1064); Ku-shan (孤山), Mai., (no. 1033).

Nom. Jap. *Suiba* (酸模).

306. **R. crispus** L. ; Meisn. l. c. 44 ; Benth. Fl. Hongk. 286 ; Hance in Journ. Linn. Soc. XIII. 86 ; Fr. et Sav. Enum. Pl. Jap. I. 392 ; Forb. et Hemsl. l. c. 356 ; Diels l. c. 310 ; = *R. japonicus* Meisn. in Ann. Mus. Lugd. Bat. II. 56 ; Fr. et Sav. l. c. (sec. Hemsley).

Mo-cha-bu (茅家埠), Mai., (no. 1334).

Nom. Jap. *Gishi-gishi* (羊蹄)

307. ? **R. dentatus** L. ; Meisn. l. c. 56 ; Hook. f. Fl. Brit. Ind. V. 59 ; Forb. et Hemsl. l. c. 356 ; Diels l. c. 311.

Bon-chan-mun (望江門), Apr., (no. 115).

Fr. immature ; determination unsatisfactory.

308. **R. maritimus** L. ; Ledeb. Fl. Ross. III. 500 ; Meisn. l. c. 56 ; Sow. Eng. Bot. VIII. 42. t. 1212 ; Hook. f. l. c. 50 ; Thomé, Fl. Deutschl. II. 56, t. 193 A ; Forb. et Hemsl. l. c. 357 ; Diels l. c. 311 ; Makino in Bot. Mag. Tokyo (1905), 67.

Tai-pin-mun (太平門), Oct., (nos. 685, 686).

Nom. Jap. *Kogane-gishigishi*, *Hama-gishigishi*.

LIX. **Aristolochiaceæ.**

309. **Asarum**. sp.

Rhizome with short internodes, root fibrous, thick, *leaf* single, long petiolate (about 10 cm), lamina cordato-reniform, obtuse or subacute (6–7 mm. broad) peduncle about 1 cm. with membranaceous bract at base ; flowers campanulate (12–15 mm. high, 6 mm. across), dark-purple ?, smooth outside, elevatedly reticulate inside, 3-lobed, lobes ovate ; *filament* short, anthers twice as long, anther-process very short ; *ovary* half-superior ; styles or style-branches 6, entire ?, obtuse, 2,5 mm. long.

Mo-cha-bu (茅家埠), Apr., (nos. 1091, 1092).

Among the species in the key to the genus by Lévêillé (Bull. Soc. Bot. Fr. Tom. 56, 609) the present sp. is not found.

LX. **Piperaceæ.**

310. **Houttuynia cordata** Thunb. ; Fl. Jap. 234 t. 26 ; DC. Prodr. XVI. 1. 238 ; Benth. Fl. Hongk. 334 ; Hook. f. Fl. Brit.

Ind. V. 78; Bot. Mag. t. 2731; Forb. et Hemsl. in Journ. Linn. Soc. XXXI. 364; Diels in Engl. Bot. Jahrb. XXIX. 272.

Lu-po (二堡), Mai., (no. 1342-1344).

Nom. Jap. *Dokudami* (葳菜).

311. **Saururus Laureiri** Decne.; C. DC. in DC. Prodr. XVI. 1, 239; Benth. et Hook. Gen. Pl. III. 128; Forb. et Hemsl. l. c. 363; Diels l. c. 272.

Chi-wang-shan (玉皇山), Jul., (no. 1357).

Nom. Jap. *Hangeshō* (三白草).

LXI. Chloranthaceæ.

312. **Chloranthus Fortunei** (A. Gr.) Solms in DC. Prodr. XVI. 1, 476; Forb. et Hemsl. in Journ. Linn. Soc. XXVI. 367; Diels in Engl. Bot. Jahrb. XXIX. 273.

Tsu-yan-dong (紫雲洞), Apr., (no. 1013-1017, 1030.)

This sp. is distinct from *Ch. japonicus* Sieb.:

Median stamen fertile, connective 10 mm. long or longer. . . . .

. . . . . *Ch. Fortunei* Solms.

Median stamen sterile, connective 4 or 5 mm. long. . . . .

. . . . . *Ch. japonicus* Sieb.

Forbes's plant no. 1416 (from Feng-wang-shan) named *Ch. japonicus* seems to be *Ch. Fortunei*.

LXII. Lauraceæ.

313. **Cinnamomun Camphora** Nees et Eberm.; Meisn. in DC. Prodr. XVI. 1, 24; Fr. et Sav. Enum. Pl. Jap. I. 411; Forb. et Hemsl. in Journ. Linn. Soc. XXVI. 371.

Tsen-tang-mun (錢塘門), Oct., (nos. 752, 753); Ken-shan-mun (艮山門), Oct., (no. 851); Ku-shan (孤山), Mai., (nos. 1304?, 1369).

Nom. Jap. *Kusunoki* (樟).

314. **Machilus Thunbergii** Sieb. et Zucc. Fl. Jap. Fam. Nat. II. no. 704; Meisn. in DC. Prodr. XVI, 42; Miq. in Ann. Mus. Bot. Lugd.-Bat. II. 195; Fr. et Sav. Enum. Pl. Jap. I. 411; Forb. et Hemsl. l. c. 377; Banks, Icon. Kæmpf. t. 50 (fruct).

Pon-shan (半山), Mai., (nos. 1335, 1336).

Nom. Jap. *Inugusu*.

LXIII. **Thymelæaceæ.**

315. **Daphne Genkwa** Sieb. et Zucc. Fl. Jap. I. 137, t. 75; Meisn. in DC. Prodr. XIV. 531; Fr. et Sav. Enum. Pl. Jap. I. 404; Forb. et Hemsl. in Jouru. Linn. Soc. XXVI. 395.

Tsu-yun-dong (紫雲洞), Apr., (no. 874); Chi-ling (葛嶺), Apr., (nos. 905, 907).

Nom. Jap. *Fuji-modoki* (芫花).

LXIV. **Elæagnaceæ.**

316. ? **Elæagnus multiflora** Thunb. Fl. Jap. 66; Schlecht. in DC. Prodr. XIV. 614; Bot. Mag. t. 7341; Forb. et Hemsl. in Journ. Linn. Soc. XXVI. 404; Servettaz in Beih. Bot. Centralb. XXV. Abt. II. 58; = *E. longipes* A. Gr. Max. in Mél. Biol. VII. 560.

Ku-shan (孤山), Mai., (no. 1164).

Nom. Jap. *Natsu-gumi*?

Sterile specimen, determination unsatisfactory.

317. **E. pungens** Thunb. Fl. Jap. 68; Schlecht. in DC. Prodr. XIV. 614; Max. in Mél. Biol. VII. 559; Fr. et Sav. Enum. Pl. Jap. I. 409; Forb. et Hemsl. in Journ. Linn. Soc. XXVI. 404; Servettaz l. c. 77.

Ku-shan (孤山), Nov., (no. 345); Hwang-lung-dong (黃龍洞) Apr., (nos. 1082, 1084, 1090; fr).

Nom. Jap. *Nawashiro-gumi*.

318. **E.** sp.

Shrub; branches fuscous, more or less curving, *leaves* permanent, chartaceous, elliptic, obtuse, subapiculate, subcuneate at base, discolored, ashy-green and villose above, spotted with ferruginous dots underneath, (lamina 20–40 × 8–17 mm.); *petiole* 3–5 mm., canaliculate; *flowers* (not fully opened) autumnal, axillary, solitary, cernuous, ferruginous, fasciculate on the very short branches, perianth 9 mm. long, densely haired both within without, tubular portion of the limb (3–4 mm.), subprismatic, constricted below the lobes, attenuated towards the base and constricted there, lobes deltoid?, style smooth, disc not cons-

picuous, pedicel 3–4 mm. ferruginous.

This sp. seems to be allied to *E. tonkinensis* Servettaz, but differs from it in the leaves villose above. It may prove a new sp.

Ku-shan (孤山), Oct., (nos. 723, 724, 726).

LXV. **Santalaceæ.**

319. **Thesium chinense** Turcz. ; DC. Prodr. XIV. 649 ; Hançé in Journ. Bot. (1869) 42 ; Forb. et Hemsl. in Journ. Linn. Soc. XXVI. 408 ; Diels in Engl. Bot. Jahrb. XXIX. 306 ; = *Th. decurrens* Bl. ; Fr. et Sav. Enum. Pl. Jap. I. 407.

Chi-ling (葛嶺), Apr., (no. 972).

Nom. Jap. *Kanabikisō*.

(to be continued.)