NOTES ON PHOTINIA

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IN PREPARING the final copy of *Photinia* for the Flora of Fukien, it was found necessary to describe one new species, two new varieties, and to make a single reduction. In accordance with the usual practice it was thought best to publish these before the publication of the Flora.

I wish to take this opportunity to thank Professor H. H. Humbert, Director of the Paris Natural History Museum, for sending me four merotypes for this study and Dr. E. D. Merrill, Director, and Professor Alfred Rehder, Curator of the Arnold Arboretum for the free access to all library, reference, and herbarium facilities of the Arnold Arboretum. Notes and descriptions follow.

***Photinia Beauverdiana* Schneid. var. *lohfauiensis* Metcalf, var. nov.**

A forma typica differt foliis subtus dense tomentosis et inflorescentiis distincte paniculato-corymbosis.

Differs from the species and var. *notabilis* (Schneider) Rehder & Wilson primarily in the sparsely to densely tomentose indumentum of the lower surface of the browner subcoriaceous leaves and the more pronounced paniculate-corymbose inflorescence. The specimens were formerly determined as *P. villosa* and *P. variabilis*.

FUKIEN: no locality, *Chung* 6399 (CCC¹). KWANTUNG: Loh-fau, CCC 1377 (*Levine*), (CCC, type; AA²); also same locality, CCC 1381 (*Levine*) (CCC, AA) and 1553 (CCC).

LU 12503 and 12432 (*To & Tsang*) (CCC) from Lung-tau Shan and *Chun* 20832 from Lokchang (AA) represent a slightly different form of the same variety but the leaves are larger and more tomentose beneath.

***Photinia Cardotii* Metcalf, sp. nov.**

Photinia subumbellata Rehder & Wilson var. *villosa* Cardot in *Notulae Syst. Paris* 3: 379 (1918); in *Bull. Mus. Nat. Hist. Paris* 26: 571 (1920).

Frutex; foliis subsessilibus, late ellipticis (4–5 cm. longis et 1.5–2.5 cm. latis), abrupte acutis ad breviter acuminatis, basi cuneatis ad subobtusis, glabris, supra impresso-reticulatis, sparse villosis ad subglabris, venis

¹CCC: Botanical Survey, Lingnan University (formerly Canton Christian College).

²AA: Arnold Arboretum, Harvard University.

subtus 3–5-jugis, margine serrulatis, distincte calloso-incurvo-dentatis. Ramis novellis, petiolis, pedunculis, pedicellis atque calycibus distincte patenter vel adpresse villosa-tomentosis; inflorescentiis subumbellatis, 3–7-floris. Fructibus circiter 6 mm. longis, basi breviter villosis, calycibus villosa-tomentosis.

Shrub; leaves subsessile, broadly elliptical, (4–5 cm. long and 1.5–2.5 cm. wide), abruptly acute or with short acuminate apex, base cuneate to sub-obtuse, glabrous, impressed reticulate above, sparsely villous to subglabrous beneath and with 3–6 pairs of veins, serrulate with distinct callose slightly curved points. Young branches, petioles, peduncles, pedicels, and calyx with distinctly spreading or appressed long villous tomentum. Inflorescence subumbellate, 3–7-flowered. Fruit about 6 mm. long, at base short villous, calyx villous-tomentose.

Distinguished primarily from *Ph. parvifolia* (Pritz.) Schneid. (*Ph. subumbellata* Rehd. & Wils.) by its pubescent pedicels and from *Ph. villosa* var. *sinica* Rehd. & Wils. by its smaller fruit.

FUKIEN: Fu-tschan³ [possible mistake for Ku-shan], *Popow* in 1883, "Fu-tschau," *Cardot* (l. c.); Ku-shan, *Fukien Christ. Univ.* 3668 (CCC); Foochow Hills, *Chung* 8393 (CCC) and 8278 (AA). All these specimens are either topotypes of the variety or from localities very close to the original collection by Popow! Additional specimens from Fukien are:—Baek-liang, *Fukien Christ. Univ.* 18565; Yuen Fu, *Dunn* 200 = *Hongkong Herb.* 2600 (Hongkong, AA); Enghok, *Chung* 1370 (Amoy, AA) and 4052 (AA).

CHEKIANG: East Tien-mu, June 19, 1927, *Chung* 1597 (AA).

Photinia amphidoxa (Schneider) Rehder & Wilson in Sargent, Pl. Wilson. 1: 190 (1912); Rehder in Jour. Arnold Arb. 13: 306 (1932); Chun in Sunyatsenia 2: 65 (1924).

Stranvaesia amphidoxa Schneider in Bull. Herb. Boiss. ser. 2, 6: 319 (1906).

Photinia amphidoxa Rehd. & Wils. var. *stylosa* Cardot in Notulae Syst. Paris 3: 377 (1918), **syn. nov.**

The variety of Cardot was characterized by "Stylis tota longitudine vel fere usque ad apicem coadunatis a forma typica differt." Through the kindness of Professor Humbert of the Paris Museum, I have received merotypes of three numbers cited by Cardot, namely, *Cavalerie* 3107, 3291, and *Cavalerie & Fortunat* 2361. In making a study of *Henry* 5565A, at least a topotype (*Henry* 5565 is the type), I find that this

³This spelling has been checked for me at Paris by Professor Humbert. He also kindly sent me a leaf merotype for the Arnold Arboretum.

number contains flowers that have free styles and also in some cases have the styles connate almost to the top. This is also true in *Wilson* 465 from Hupeh. This difference has been overestimated by Cardot; the degree of connation in some of the Rosaceae is quite variable and cannot be depended upon. No other differences were observable. The pedicels are quite pubescent, as well as the calyx when in flower, but elongate and subglabrous when in fruit.

Handel-Mazzetti (Symb. Sin. 7: 481. 1933) has described a variety *amphileia*, characterized by glabrous pedicels and calyx, and with the fruit in subumbellate clusters. The styles in this variety, iso-syntype, *Handel-Mazzetti* 11205 (AA), are also connate nearly to the top or half way, so again the degree of connation of the styles is of little value. This variety is quite a distinct one and may represent a good species. *Steward & Cheo* 1011 from Kwangsi distributed as *P. amphidoxa* (Schneider) Rehder & Wilson is quite different and apparently undescribed.

***Photinia amphidoxa* var. *kwangsiensis* Metcalf, var. nov.**

A forma typica differt inflorescentiis subumbellatis, pedicellis dense verrucosis.

This variety differs from the species by the subumbellate inflorescence and the noticeably warty pedicels, and slightly larger fruits. It resembles the var. *amphileia* Hand.-Mazz., in the subumbellate inflorescence, shortness of the pedicels in fruit, but is easily distinguished from it by the abundant warty pedicels and the pronounced carnose serrate margin of the leaves.

KWANGSI: Ling-wang-shan, *Steward & Cheo* 1011 (type, AA).

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