

Hideaki OHBA^{a,*} and Shinobu AKIYAMA^b: Notes on the Genus *Hortensia* (*Hydrangeaceae*)

^aDepartment of Botany, the University Museum, the University of Tokyo, 7-3-1, Hongo, Tokyo, 113-0033 JAPAN;

^bDepartment of Botany, National Museum of Nature and Science, 4-1-1, Amakubo, Tsukuba, 305-0005 JAPAN

*Corresponding author: ohba@um.u-tokyo.ac.jp

Summary: New combinations of *Hortensia*, *Hortensia hirta* f. *albiflora* and f. *laminalis*, and *Hortensia chinensis* var. *yayeyamensis* are proposed. *Hortensia formosana* Koidz. is lectotypified here.

The authors published the generic segregation of some sections and subsections of the genus *Hydrangea* sensu De Smet et al. (2015) (Ohba and Akiyama 2016). Some additional new combinations need to be published.

(1) New combinations of forms of *Hortensia hirta*

Hortensia hirta (Thunb.) H. Ohba & S. Akiyama in J. Jpn. Bot. 91: 348 (2016).

f. *albiflora* (Honda) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea hirta (Thunb.) Siebold & Zucc. var. *albiflora* Honda in Bot. Mag. (Tokyo) 46: 676 (1932).

Hydrangea hirta (Thunb.) Siebold & Zucc. f. *albiflora* (Honda) Okuyama [Handb. Pl. Coll.: 208 (1953), nom. nud.] in J. Jap. Bot. 30: 42 (1955).

Japanese name: Shirobana-koajisai (Honda 1932).

f. *laminalis* (Seriz.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea hirta (Thunb.) Siebold & Zucc. f. *laminalis* Seriz. in J. Jap. Bot. 56: 298, f. 1 (1981).

Japanese name: Midori-koajisai (Serizawa 1981).

(2) Treatment of *Hydrangea yayeyamensis* Koidz. and *H. formosana* Koidz.

Hydrangea yayeyamensis and *H. formosana* were simultaneously published by Koidzumi (1929). In the protologue of *H. yayeyamensis* Koidzumi (1929) wrote “Hab. Loochoo: insula Yayeyama. Formosa: prope Tamsuy (Oldham no. 110. pro parte in ann[sic] 1864.) Herb. Kew.” Though McClintock (1957) wrote that Oldham 110 (“pro parte”) is the only specimen cited of *H. yayeyamensis*, Koidzumi cited also “Loochoo: insula Yayeyama.” “Loochoo: insula Yayeyama” is recognized as a citation of a specimen. Masamune (1958) recognized plants in Yaeyama islands to be distinguished from those in Taiwan and made a new combination, *H. chinensis* f. *yayeyamensis* (Koidz.) Masam. It is considered that Masamune excluded Oldham 110 from *H. yayeyamensis* itself and *H. yayeyamensis* was lectotypified, but he cited no specimen.

In the Herbarium, University Museum, University of Tokyo there is a specimen (Tashiro no. 3, July 1887) collected in Yaeyama (Yayeyama)-jima and annotated “*Hydrangea yayeyamensis* Koidz.” by Koidzumi. Ohba and Akiyama (1990) selected this specimen as the lectotype of *H. yayeyamensis*.

Later Ohba (2001) wrote that Oldham 110 pro parte (Kew) should be the lectotype of *Hydrangea yayeyamensis*. He considered that *H. yayeyamensis* found in Taiwan is a synonym of *H. chinensis* var. *chinensis* and gave a new name for the plants in Yaeyama islands, *H. chinensis* Maxim. var. *koidzumiana* H. Ohba & S. Akiyama (Ohba 2001). But this treatment

is not acceptable because as mentioned above Ohba and Akiyama (1990) already selected the specimen from Yaeyama-jima (Tashiro no. 3, July 1887, TI) as the lectotype of *H. yayeyamensis*. So Oldham 110 pro parte (Kew) is a syntype of *H. yayeyamensis*. We recognize that the plants in Yaeyama islands should be distinguished from those in Taiwan and the mainland of China as a variety as done by Ohba (2001). *Hydrangea yayeyamensis* occurring in Yaeyama islands (Isl. Ishigaki-jima and Isl. Iriomote-jima) is regarded as a variety of *Hortensia chinensis* in Taiwan and the mainland of China and *H. chinensis* var. *koidzumiana* is regarded as a synonym of *H. yayeyamensis*.

The specimen, Oldham 110 in Kew, consists of two branches and one inflorescence with two leaves. The left-hand branch is labeled K000396880, the right-hand branch K000396881, and the lower left-hand inflorescence with two leaves having no Kew's registration number (<http://specimens.kew.org/herbarium/K000396880> and <http://specimens.kew.org/herbarium/K000396881>). Koidzumi did not annotate which of the specimens was *Hydrangea yayeyamensis* or *H. formosana*. According to the protologue that mentions as always umbellate to the top of the branches it is clear that the right-hand branch (K000396881) is *H. yayeyamensis* though there is no annotation by Koidzumi, but with annotation "*Hydrangea yayeyamensis* Koidz. Bot. Mag. Tok. [Sic] 43. p. 394" by anonymous. It is concluded that the left-hand branch (K000396880) is *H. formosana* though there is also no annotation by Koidzumi. The annotation "*Hydrangea formosana* Koidz. Bot. Mag. Tok. [Sic] 43. p. 394" is anonymous. The lower left-hand inflorescence is uncertain whether *H. yayeyamensis* or *H. formosana*.

Hydrangea formosana was described based on five specimens from Taiwan (Formosa) (Koidzumi 1929). All are deposited in Kew (K000396880, K000396885, K000396886, K000396887, K000396888). In the recent

Flora of Taiwan this species is not treated (Kao 1993). We recognize *Hydrangea formosana* is conspecific with *Hortensia chinensis* (var. *chinensis*) and designate here Price 272 (K000396886) (with flowers) as the lectotype of *Hydrangea formosana*.

Hortensia chinensis (Maxim.) H. Ohba & S. Akiyama in J. Jpn. Bot. **91**: 347 (2016).

var. ***chinensis***

Hydrangea formosana Koidz. in Bot. Mag. (Tokyo) **43**: 394 (1929). **Lectotype** (designated here): TAIWAN [FORMOSA]. Shinko, N. foothill (Price 272 on 27 March 1914, K000396886). Syntypes: TAIWAN. Tansui [Tamsuy] (Oldham 110 in 1864, K000396880). Kelung (Ford s.n. in June 1884, K000396885). Shirin, N Taihoku (Price 377 on 28 April 1912, K000396887). Bokusekikaku (Price 473 on 14 May 1912, K000396888).

var. ***yayeyamensis*** (Koidz.) H. Ohba & S. Akiyama, **comb. nov.**

Hydrangea yayeyamensis Koidz. in Bot. Mag. (Tokyo) **43**: 394 (1929). Types: JAPAN. Ryukyu [Loochoo]. Okinawa. Yaeyama-jima [Insula Yayeyama] (Tashiro 3 in July 1887, TI, lectotype (Ohba and Akiyama 1990)). TAIWAN [Formosa]. Tansui [Tamsuy] (Oldham 110 in 1864, K000396881, syntype [This is *Hortensia chinensis* var. *chinensis*]).

Hydrangea chinensis Maxim. f. *yayeyamensis* (Koidz.) Masam. in J. Geobot. (Hokuriku) **7**: 5 (1958), as '*yaeyamensis*'.

Hydrangea chinensis Maxim. var. *koidzumiana* H. Ohba & S. Akiyama in K. Iwats. & al. (eds.), Fl. Jap. **2b**: 93 (2001). Types: JAPAN. Okinawa Pref., Isl. Iriomote-jima, along Urauchi-gawa River, alt. 20–160 m (T. Yahara & al. 873002, TI, holotype, isotype).

Hortensia chinensis (Maxim.) H. Ohba & S. Akiyama var. *koidzumiana* (H. Ohba & S. Akiyama) H. Ohba & S. Akiyama in J. Jpn. Bot. **91**: 347 (2016).

Japanese name: Yaeyama-konterigi.

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大場秀章^a, 秋山 忍^b: アジサイ属 (アジサイ科) についての覚書

著者ら (Ohba and Akiyama 2016) は旧アジサイ属の再分類と学名提唱を行ったが、コアジサイの2品種 (シロバナコアジサイとミドリコアジサイ) とカラコンテリギの1変種 (ヤエヤマコンテリギ) の新組合せを提唱する。また、ヤエヤマコンテリギのレクトタイプを再確

認し、ヤエヤマコンテリギと同時に発表された台湾産の *Hydrangea formosana* Koidz. のレクトタイプの選定を行った。

(^a東京大学総合研究博物館,
^b国立科学博物館植物研究部)