NOTE

Comments on the Typification of *Bauhinia ornata* var. *kerrii* (Leguminosae: Caesalpinioideae)

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ABSTRACT: The lectotypification of *Bauhinia ornata* Kurz var. *kerrii* (Gagnep.) K. Larsen & S.S. Larsen based on *Kerr* 1740 (K) presently stands good though there is a collection of *Kerr* 1740 at P where Francois Gagnepain's types are supposed to be present.

KEY WORDS: Leguminosae, Caesalpinioideae, *Bauhinia ornata* var. *kerrii*, typification.

TAXONOMIC TREATMENT

Typification of *Bauhinia ornata* var. *kerrii*

In the present communication, a thorough review of the typification of *Bauhinia ornata* Kurz var. *kerrii* (Gagnep.) K. Larsen & S.S. Larsen is presented as follows.

Larsen and Larsen (1980: 208) treated *Bauhinia kerrii* Gagnep. as a variety of *B. ornata* Kurz, i.e. *B. ornata* Kurz var. *kerrii* (Gagnep.) K. Larsen & S.S. Larsen and cited 'TYPE: *Kerr* 1740, Thaïlande, K'. Larsen and Larsen (1980a: 41) gave the type details of *B. kerrii* as '*Kerr 1740*. Thailand: Chiang Mai, Doi Suthep (Lecto- K)' but from Stafleu and Cowan, TL2 1: 904. 1976, I came to know that Francois Gagnepain's types are at P. Through 'colhelper' I requested for the relevant specimens at P because there might be a specimen that qualifies as holotype or there might be syntypes which are to be given priority for designating a lectotype under Art. 9.10 (McNeill *et al*., 2006).

I received the image of a specimen at P (bar code no. P00752516):'SIAM: Chiengmai. Doi Sootep, 840 m., 1.iv.11 / 1.4.11, large woody climber, flowers white, anthers pink; in evergreen jungle by a stream, A.F.G. KERR 1740' and found that the herbarium label has printed on it 'EX HERBARIO KEWENSI'. The herbarium sheet bears a det. slip attached by Kai Larsen and Supee S. Larsen in 1973 with the name *Bauhinia ornata* Kurz in Prof. K. Larsen's handwriting. Dr. J.-N. Labat, after receiving my request for the image of the type, wrote on a label '*Bauhinia ornata* var. *kerrii* Det. J. N. Labat, 2010' and labeled it as the holotype of '*Bauhinia kerrii* Gagnep.'

Gagnepain (1912: 173) while describing *B. kerrii* Gagnep. cited 'Siam: Doi-sootep, 840 m. alt.; grande liane ligneuse, à fleurs blanches et anthères roses, dans la jungle verte près d'un cours d'eau, n° 1740 [*Kerr*]' along with the morphological description. The collection data 'SIAM: Chiengmai. Doi Sootep, 840 m., 1.iv.11 / 1.4.11, large woody climber, flowers white, anthers pink; in evergreen jungle by a stream, A.F.G. KERR 1740' of the specimen available at P (Fig. 1) matches with the protologue. However, I have noticed that the measurement of the leaves, inflorescence, petals, stamens and style of the P specimen do not fully match with those given in the protologue. In the protologue (Gagnepain, 1912: 173), the relevant measurement is given as follows: Folia 9-13 cm. longa, 8-12 cm. lata; petiolo 4-9 cm. longo; inflorescentia tota 13 cm. longa; petala 2 cm. longa, 7-10 mm'cm.' lata; stylus 14 mm. longus whereas in the P specimen the leaves are 6.2-13.4 × 5.5-11.7 cm; petiole 3-8.8 cm long; inflorescence 8.5-16 cm long (the longest is *c*. 13 cm if the curved axis of the inflorescence is not followed); petals 1.4 -2 × 0.5-1 cm and the style ranges from 0.8-1.4 cm in length. I referred to Gagnepain (1913: 128, PL.III, B) and further found that the description of *B. kerrii* given therein is almost the same as that of the protologue. So also the place of occurrence and the name of the collector which have been cited as 'SIAM: Xieng-may' and *Kerr*, respectively but the illustration does not match with the specimen at P.

The specimen at K has printed on its label as 'FLORA OF SIAM'. Other field data are Doi Sutep, 2,800 ft., April 1st 1911, Large woody climber; flowers white, anthers pink; evergreen jungle by streams, *A.F.G. Kerr* 1740. This specimen though unannotated

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Fig. 1. Photograph of the specimen of *Bauhinia ornata* Kurz var. *kerrii* (Gagnep.) K. Larsen & S.S. Larsen at P. [© MNHN-Paris. Reproduced with permission]

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by the Larsens is undoubtedly the lectotype designated by them because there is no other specimen besides this at K.

The specimen at BM (bar code no. BM000839672) has on its label exactly the same data as in the Kew sheet. The herbarium sheet bears a Det. slip attached by K. and S. S. Larsen in 1978 with the name *Bauhinia ornata* Kurz var. *kerrii* (Gagnep.) K. & S.S. Larsen written partly in typescript and partly in Ms. S.S. Larsen's handwriting. Someone has also annotated it as a 'Co-type' on the herbarium label by pencil.

After carefully going through the data on the label of the herbarium sheets it may appear that the collection at P is not a duplicate of the specimens at K and BM though they have the same field number of *Kerr* i.e. 1740 because the altitude of 840 m given in the herbarium label at P comes to 2,756 ft. which is not the equivalent of 2,800 ft. given on the herbarium label at K and BM but a more likely explanation for the discrepancy in altitude is that the P duplicate, was distributed from K (ex Herbario Kewensi on the label) and the label for the P duplicate was prepared at Kew in the knowledge that the metric system was already in use in France, and the 2,800 ft. was converted slightly inaccurately to 840 m. instead of 853 m. whilst the duplicates deposited in the UK herbaria retained the original 2,800 ft. measurement according to the imperial system.

The variations in the spelling of the name of the locality on the herbarium labels like 'Doi Sutep' at K and BM and 'Doi Sootep' at P seems to have occurred while writing on the duplicate sheets. Thus the specimens at K, BM and P are likely to be of the same gathering.

From the protologue of *B. kerrii* it can be said that Gagnepain (1912: 173) based the morphological description of *B. kerrii* on herbarium sheet(s) whose label had inscribed on it the locality as 'Doi Sootep' and altitude as '840 m'. The locality and altitude on the sheets at K and BM had been inscribed as 'Doi Sutep' and '2800 ft.' So the specimens deposited at K and BM were definitely not used by Gagnepain for describing *B. kerrii.* However, as regards the P specimen it may be so that Gagnepain (1912) used this specimen but the measurements of its leaves, inflorescence and floral parts are not fully matching with those given in the protologue because he might have excluded the measurements of the smaller leaves, smaller inflorescence, etc. and gave the upper range of the variations or the maximum size of the leaves, inflorescence and floral parts and as a result of which the measurements given in the protologue are closely matching only with the upper range of the variations or the maximum size of the plant parts. However, until and unless it can be proved with evidence that Gagnepain really excluded the measurements of the smaller leaves, inflorescence, etc. the specimens at K, BM and P are to be considered as duplicate of the type specimen(s) used by Gagnepain.

So under these circumstances the citation of 'TYPE' by Larsen and Larsen (1980) has to be considered as an effective lectotypification as the choice has been made prior to 1 January 2001(see Art. 9.21 in McNeill *et al*., 2006) and the sequence of choice given under Art. 9.10 (McNeill *et al*., 2006) has also been followed.

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豆科蘇木亞科褐毛羊蹄甲（*Bauhinia ornata* var. *kerrii*）模式的補註

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摘要：褐毛羊蹄甲（*Bauhinia ornata* Kurz var. *kerrii* (Gagnep.) K. Larsen & S.S. Larsen）該變種發表時適當地以 *Kerr* 1740 (K)為選定模式。然而，尚有一份收藏於 P 的 *Kerr* 1740 標本也同時存在。

關鍵詞：豆科、蘇木亞科、褐毛羊蹄甲、模式。

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