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RÉSULTATS DES EXPÉDITIONS SCIENTIFIQUES GENEVOISES AU NÉPAL
EN 1952 ET 1954 (PARTIE BOTANIQUE)

3. - Berberidaceae¹

by

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Berberis angulosa Wall. ex Hook. f. & Thoms. ex Hook. f. *Fl. brit. Ind.* **1** : III. 1872.

DISTR. : Sikkim, Nepal.

NEPAL : Between Namche Bazar (27°49', 86°43') and Tesinga (27°50', 86°44'), alt. 3430 m., May 13, 1952, fl. yellow, *Zimmermann 494* (G!) ; between Chule (27°57', 86°36') and Thāmi (27°50', 86°39'), alt. 4000 m., Oct. 11, 1954, fr. red, *Zimmermann 1619* (G!).

OBS. : Shrub 1-3 m. high ; pedicels shorter than those of the type. With this character it approaches *B. parisepala* Ahrendt in *Journ. of Bot.*, Suppl. 79 : 42. 1941, which, originally known as replacing *B. angulosa* eastwards from Bhutan to the Tibet-Assam frontier, was also found in Nepal in 1954.

Berberis asiatica Roxb. ex DC. *Syst.* **2** : 13. 1821.

DISTR. : Himalayan Assam, Nepal, Kumaon, from Garwal to Jaunsar, Bengal.

NEPAL : Below Risingo (27°37', 85°54'), alt. 2000 m., April 1, 1952, shrub 0,50-1,50 m. high, fl. yellow, *Zimmermann 133* (G! det. R. Weibel).

Berberis ceratophylla Don, *Gen. Syst. Gard. and Bot.* **1** : 115. 1831 ; Ahrendt in *Journ. roy. As. Soc. Bengal, Sc.*, **11** : 1. 1945.

DISTR. : The distribution of *B. ceratophylla*, as far as I have seen herbarium specimens of it, is Nepal (Type) and Bhutan. Eastwards, from Sikkim to W. Yunnan, it is replaced by the very closely related species *B. sikkimensis* (Schneid.) Ahrendt. Westwards,

¹ Cf., pour l'itinéraire suivi, l'article de A. ZIMMERMANN, *Candollea* **15** : 127. 1956.

there is located the closely related *B. affinis* Don, *l.c.*; Ahrendt, *l.c.*: 2, in Kumaon; and thence further westwards, the less closely connected *B. chitria* Lindl. The general distribution given in Hook. f. *Fl. brit. Ind.* 1: 110. 1872 under *B. aristata* DC. var. *floribunda* Hook. & Thoms. = *B. ceratophylla* Don possibly includes specimens of these species.

NEPAL: Below Namche Bazar (27°49', 86°43'), left side of the Dudh Kosi, exposition N.-E., alt. 2844 m., Oct. 26, 1954, shrub 3-3.50 m. high, *Zimmermann* 1835 (G!).

OBS.: Fr. dark reddish purple.

Berberis jaeschkeana Schneid. in *Bull. Herb. Boiss.*, ser. 2, 5: 399. 1905; Parker, *Forest Flora of the Punjab with Hazara and Delhi*: 14. 1918.

Var. **jaeschkeana**

DISTR.: Kumaon, Kashmir (Type), Punjab.

NEPAL: Between Namche Bazar (27°49', 86°43') and Pangboche (27°52', 86°48'), slopes S. and S.-E., half shade, alt. 3500 m., Oct. 20, 1954, shrub 1-3 m. high, fr. ovoid, red, *Zimmermann* 1758 (G!).

OBS.: Fr. bigger than those of the type. This species had not been recorded from Nepal before 1954, when it was collected in October in fruits by ZIMMERMANN (as cited), and independently by STAINTON, SYKES and WILLIAMS who gathered flowering specimens in June of that year.

Berberis khasiana Ahrendt in *Journ. of Bot. Suppl.*, 80: 100. 1942.

DISTR.: Assam, Khasia.

NEPAL: Way of Dyendrela, which is between Gārma (27°26', 86°35') and Kerung (27°24', 86°34'), to Tharā, coming down from the pass, alt. 2980 m., June 17, 1952, shrub 1-2 m. high, fl. yellow, *Zimmermann* 852 (G!).

OBS.: Different from *B. lycium* by its smaller leaves and very sulcate stems. Originally based solely on a much more easterly specimen from the Khasia hills in Assam, ZIMMERMANN'S specimen, while maintaining the character of the species as distinct from *B. lycium*, extends the known habitat of *B. khasiana* much further westwards towards that of *B. lycium* which appears from Garwal to Kashmir.

Berberis? **tsarica** Ahrendt in *Journ. of Bot.*, Suppl., 79: 48, 1941.

DISTR.: S.-E. Tibet, Tsari District, Province of Kongbo and Bhutan.

NEPAL : Alp of Pheriche ($27^{\circ}54'$, $86^{\circ}49'$), alt. 4260 m., June 2, 1952, shrub 30-50 cm. high, petals slightly reddish above, *Zimmermann* 593 (G!).

OBS. : In the absence of young twigs and fruits, the determination remains somewhat doubtful; furthermore, this species has not been recorded from Nepal.

Berberis virescens Hook. f. in *Curt. Bot. Mag.* t. 7116. 1890.

DISTR. : S. E. Tibet, Province of Kongbo and Tsari District, Sikkim, Bhutan.

NEPAL : Right side of the Kyāngshar Khola, alt. 2800 m., May 10, 1952, shrub 2-4 m. high, fl. white, calyx greenish, *Zimmermann* 480 (G!).

OBS. : This species has not previously been recorded from Nepal. Though otherwise similar it differs in flower structure and fruit from *B. paravirescens* Ahrendt in *Journ. roy. As. Soc. Bengal, Sc.*, 11 : 4. 1945, which has been recorded only from Sikkim and Bhutan.

Mahonia napaulensis DC. *Syst.* 2 : 21. 1821; *Prodr.* 1 : 109. 1824 = *Berberis nepalensis* (DC.) Spreng. *Syst. Veg.* 2 : 120. 1825.

DISTR. : Temperate Himalayas, from Bhutan to Garwal.

NEPAL : Between Manga Deorali, which is between Risingo ($27^{\circ}37'$, $85^{\circ}54'$) and Charikot ($27^{\circ}40'$, $86^{\circ}01'$) and the pass of Chyāngma-La, alt. 2230 m., April 6, 1952, shrub 1-2 m. high, fl. yellow, *Zimmermann* 187 (G!; det. R. Weibel).

Podophyllum emodi Wall. ex Royle *Ill. Bot. himal.* : 64, 379, 1839 (English description incomplete); Hook. f. & Thoms. *Fl. ind.* : 232. 1855 (latin description) = *P. hexandrum* Royle, *l. c.* : 64; Cambessèdes (non Decaisne) *Pl. rar.* in JACQUEMONT *Voyage dans l'Inde* 4 : 10. t. 9. 1844.

DISTR. : Interior ranges of the Himalayas, alt. 2900-4500 m., from Sikkim to Hazara, descending to 1950 m. in Kashmir.

NEPAL : Between Somaret ($27^{\circ}53'$, $86^{\circ}49'$) and Pangboche ($27^{\circ}52'$, $86^{\circ}48'$), alt. 3950 m., June 3, 1952, *Zimmermann* 618 (G!; det. A. Zimmermann).

