9 : 1084. 1927 et in Engler & Prantl, Pflanzenfam. ed. 2, 17b : 586. 1936.

Erect herbs, 15-30 cm long, glabrous. All leaves entire. Basal leaves long-petioled, ovate to elliptic-ovate or suborbicular, blade 5-20 mm long ; cauline leaves 12-25 mm × 3-7 mm, oblong lanceolate, the lower short petioled, upper subsessile. Racemes upto 10 cm long in fruit, pedicels 3-7 mm long, slender, ascending. Silicula 6-12 mm × 1.5-2.0 mm, narrowly oblong, slightly narrowed to the base, laterally compressed, apex truncate or slightly emarginate ; style 0.5 mm long. Seeds 4-6 in each cell, 1.5 mm long, ellipsoid, dark brown.

Fls. : Not seen. *Frts.* : Sept.

Distribution : INDIA : Jammu & Kashmir. Rare. Burzil Pass, 13,000', Kashmir, *J. F. Duthie* 14030, 14.9.1893 (CAL). C. ASIA.

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REFERENCES

GHOSH, R. B. Sixth list of genera and species of angiosperms not included in the Flora of British India. *Bull. Bot. Soc. Bengal* 31 : 84-89. 1977 (1978).

—— Seventh list of angiosperms not included in Flora of British India. *Ibid.* 33 : 87-93. 1979 (1980).

—— AND S. C. DUTTA. Angiosperms not included in the Flora of British India. List. V. *Ibid.* 30 : 129-133. 1976 (1978).

JAFRI, S. M. H. In Nasir & Ali, Flora of West Pakistan No. 55. Brassicaceae. Karachi. 1973.

KACHROO, P., B. L. SAPRU AND U. DHAR. Flora of Ladakh. Bishen Singh Mahendra Pal Singh. Dehradun. 1977.

NAYAR, M. P. AND S. KARTIKEYAN. Fourth list of species and genera of Indian Phanerogams not included in J. D. Hooker's "The Flora of British India" (excluding Bangladesh, Burma, Sri lanka, Malaya Peninsula and Pakistan). *Rec. bot. Surv. India.* 21 : 131-152. 1981.

—— AND K. RAMAMURTHY. Third list of species and genera of Indian Phanerogams not included in J. D. Hooker's Flora of British India (excluding Bangladesh, Burma, Ceylon, Malay Peninsula and Pakistan). *Bull. bot. Surv. India.* 15 : 204-234. 1973 (1976).

RAZI, B. A. A second list of species and genera of Indian Phanerogams not included in J. D. Hooker's Flora of British India. *Rec. bot. Surv. India.* 18 : 1-56. 1959.

SCHULZ, O. E. Beitrage zur kenntnis der Cruciferen des Nordwestlichen Himalaya-Gebirge. *Notizblatt. Bot. Gart.* Berlin 9 : 1057-1095. 1927.

SINGH, G. AND P. KACHROO. Forest Flora of Srinagar. Bishen Singh Mahendra Pal Singh. Dehradun. 1976.

STEWART, J. L. Flora of West Pakistan. Karachi. 1972.

REDISCOVERY OF *CAREX BORII* NELMES (CYPERACEAE) FROM LAHUL VALLEY (H. P.)*

During the course of systematic studies on the flora of Lahul valley (H. P.) by one of us (BSA), special attention was paid to relocate the rare plants of this area. In this attempt *Carex borii* Nelmes has been rediscovered and collected from the type locality for the first time after its type collections.

The species is described herewith photograph. The data on its rarity, phenology, ecology, distribution and specimens examined are also given to facilitate its identification.

Carex borii Nelmes in Kew Bull. 1949 : 38. 1949 ; Stewart in Bull. Bot. Surv. Ind. 9 : 152. 1967 ; *et* Anno. Cat. Vas. Pl. W. Pak. 74. 1972.

Densely tufted sedges. Rhizomes thick, woody, shortly creeping. Stems erect, obscurely trigonous, smooth. Leaves basal,

*C. D. R. I. Communication No. 3221.

equal or exceeding the stems, involute, canaliculate, erect or sometimes subcurved, 10-15 mm wide ; sheaths light brown, shining, membranous. Inflorescence consisting of solitary or paired spikelets, terminal, androgynaeceous or wholly female, oblong, erect, 7-10 mm long, female part becoming 6 mm thick ; male part much shorter, slender, both few flowered. Female glumes ovate, base slightly curved, flattish above, apex obtuse, 2.0-2.5 mm long, 1.0-1.5 mm wide,



Carex borii from Lahul valley

purplish brown or blackish brown, margins sometimes erose, nerveless or so except for the midrib ; midrib pale yellow, hardly reaching up to the apex. Utricles ellipsoid, inflated, trigonous, faces flattish to concave, 2.5-3.0 mm long, 0.75-1.00 mm broad, nerveless, glabrous, straight, punctulate in the upper half, pale yellow below, base cuneate or sometimes rotund, hardly stipitate, abruptly beaked ; beak shortly bifid, glabrous, mouth not oblique. Achenes ellipsoid, trigonous, faces flattish to concave, 2 mm long, 1 mm broad, straight, yellowish, hardly stipitate, apex obtuse. Stigmas 3.

The species is based on the two collections made by N. L. Bor from Lingti (Laddakh) and Baralacha La (Lahul) which are housed in Kew (K) and Dehra Dun herbarium (DD). Subsequently, there has been no report of its collection from India. Stewart (l. c.) mentioned its presence in Baltistan and Karakoram (Pakistan). The recollection of this alpine sedge from its type locality after about four decades now indicates its rarity and represents the only recent collection from the North-West Himalayas. Further, a perusal of the literature shows that the species is endemic to the North-West Himalayas.

Fls. & Frts. : June-August.

Ecology : Occasional in association with characteristic dry alpine herbs. *viz. Nepeta longibracteata, Pleurospermum candollei, Saxifraga flagellaris* and *Thylacospermum caespitosum.*

Distribution : INDIA : Jammu and Kashmir, Himachal Pradesh ; PAKISTAN.

Specimens examined : Jammu and Kashmir, Laddakh, Lingti, close to water, 3000 m, 29.6.1941, *N. L. Bor* 15019 (Isotype, DD). Himachal Pradesh, Lahul, Baralacha La, 4800 m, 26.8.1938, *N. L. Bor's Collector* 231 (DD) ; 17.8.1982, *B. S. Aswal* 11001 (DD, BSD and CDRI).

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