A new fossil wood belonging to the genus Artocarpus is recorded here from the Tipam sandstones, exposed in a stream cutting near Kartikcherra about 50 kms south of Hailakandi, District Cachar, Assam. It shows the following anatomical characters.

Growth rings indistinct. Vessels medium to large in size, t. d. $105\text{-}315~\mu$, r. d. $120\text{-}330\mu$, mostly solitary (Fig. 1), sometimes in radial rows of 2-4, round in cross-section, 2-3 per sq. mm and heavily occluded with tyloses; vessel members $165\text{-}450~\mu$ long with truncate or tailed ends; perforations simple; intervessel pit-pairs bordered, alternate, large, $10\text{-}12~\mu$ in diameter, orbicular in shape with linear to lenticular apertures (Fig. 3). Parenchyma paratracheal, vasicentric to mostly aliform, rarely aliform-confluent joining two adjacent vessels (Fig. 1). Xylem rays 1-6 (mostly 3-5) seriate (Fig. 2), occasionally with latex tubes, 3-4 per mm; ray tissue heterogeneous, formed of heterocellular rays consisting of procumbent cells in the middle portion and 1-3 rows of upright cells at one or both the ends; sheath cells sometimes present on the flanks of the rays. Fibres non-libriform, slightly thick-walled with big lumen, non-septate, and oval to polygonal in cross-section.

A detailed comparison with the modern woods indicate that the present fossil wood closely resembles the extant species Artocarpus chaplasha Roxb. and A. incisa Linn. of the family Moraceae (Pearson & Brown, 1932; Metcalfe & Chalk, 1950; Kribs, 1959).

Although a rich flora is known from the Tipam sandstones of Assam (Prakash, 1972; Prakash & Tripathi, 1975, 1976, 1977), this is the first record of the fossil wood of Artocarpus from India and abroad. The present fossil wood is described here as Artocarpoxylon kartikcherraensis gen. et sp. nov.

Holotype—B.S.I.P. Museum No. 35317.

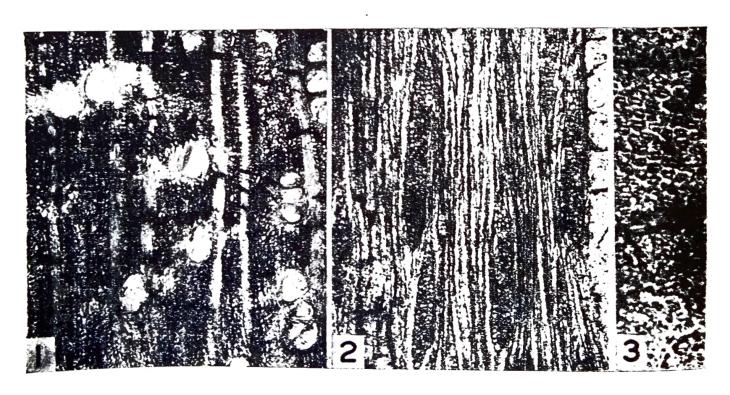


Fig. 1. Artocarpoxylon kartickcherraensis gen. et sp. nov.—Cross-section showing the distribution of vessels and parenchyma, ×25. Sl. No. 5890. Fig. 2. Tangential longitudinal section showing the xylem rays, ×45. Sl. No. 5889. Fig. 3. Intervessel pit-pairs, ×250. Sl. No. 5889.

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U. PRAKASH AND C. LALITHA

Birbal Sahni Institute of Palaeobotany, Lucknow

CEPHALOZIA KASHYAPII UDAR NOM. NOV. IROM EASTERN HIMALAYAS

In a study of the genus Cephalozia in eastern Himalayas Udar and Kumar (1976) described a new species, C. laxifolia from Darjeeling, eastern Himalayas. Since it is a pre-occupied specific epithet (personal communication: Drs. J. Lal and R. Grolle), the following nomenclatural change is proposed:

Cephalozia kashyapii Udar nom. nov.

Syn: C. laxifolia Udar & Kumar, Geophytology 6(1): 35-45, 1976; non C. laxifolia Lindb., Musc. Scand., p. 3, 1879.

REFERENCE

UDAR, R. & KUMAR, D. (1976). Genus Cephalozia in eastern Himalayas. Geophytology 6(1): 35-45.

RAM UDAR

Department of Botany, Lucknow University, Lucknow