SCLEROGLOSSUM v. ALD. v. ROS.—A FERN GENUS NEW TO INDIA

R. D. DIXIT

Botanical Survey of India, Allahabad

During the course of examination of herbarium specimens of Pteridophytes in Herb. (ASSAM) for the assessment of rare/threatened occurrence of species, the author came across a few peculiar specimens kept in the folder of unidentified specimens apparently looking alike genus Vittaria J. Sm. On critical examination of the specimens, it was concluded that because of the presence of stellate hairs on the lamina and trilete spores, absence of paraphyses and confinement of coenosori in the apical part the material does not belong to Vittaria. A perusal of relevant literature together with comparison of Type material number Thwaites 3807 (CAL) revealed that the plant belongs to the genus Scleroglossum v. Ald. v. Ros. representing S. sulcatum (Kuhn) v. Ald. v. Ros. The genus Scleroglossum v. Ald. v. Ros. is allied to Tropical American genus Cochlidium Cop. but can be easily distinguished by its coenosori deeply immersed in two distinct longitudinal, oblique grooves, one on each side of the midrib either superficial or immersed in a single groove protected by the curled or conduplicate lamina and absence of stellate hairs in Cochcidium Cop.

According to Christensen (1934) S. sulcatum (Kuhn) v. Ald. v. Ros. is known to occur in Ceylon, Malaya and Polynesia. However, Holttum (1954) did not record its occurrence in Malaya, whereas Beddome (1883, 1892) reported its occurrence in Ceylon, Malaya and also New Guinea. The author also examined a few specimens of this species from Malaya in CAL, thus, its earlier report of occurrence in Malaya is duly confirmed. The genus Scleroglossum v. Ald. v. Ros. and the species S. sulcatum (Kuhn) v. Ald. v. Ros. is reported for the first time from Meghalaya in India. The detailed description, illustrations and ecological notes on S. sulcatum are furnished to facilitate its easy identification in the herbarium and field.


Small plants, 3-6 cm high. Rhizome short, suberect, ascending, clothed with a few lanceolate, thin, dull-brown, smooth scales. Fronds densely tufted, sessile, subfalcate, 3-6 cm × 2.0-3.0 mm, slightly narrowed towards base and rounded at apex, leathery, a few small stellate hairs present on the lamina, midrib not visible on the lower surface, veins hidden, simple to forked with clavate ends, not reaching the margins. Coenosori intramarginal, deeply immersed in two distinct longitudinal oblique grooves.
Scleroglossum sulcatum (Kuhn) v. Ald. v. Ros.

Figs. 1-5: 1. Habit. 2. Part of vegetative leaf showing venation. 3. Stellate hairs on the lamina. 4. Part of fertile leaf. 5. Proximal part of spore.

confined to the apical part on either side of the midrib. Spores trilete, 35-50 μm in diameter, verrucoid. (Figs. 1-5)


Type number: Central Province, Thwaites 3807 (CAL).

Ecology: Plants epiphytic on tree trunks and branches covered with moist mossy cover.

The species seems to be extremely rare in India, since no subsequent collections have been made after the year 1963.

ACKNOWLEDGEMENTS

Grateful thanks are due to the Director, Botanical Survey of India for encouragement and to the Deputy Director, Central Circle, Allahabad, for the facilities. My thanks are also due to Dr. J. Joseph, Deputy Director, Eastern Circle, Shillong and Dr. J. N. Vohra, Regional Botanist, Northern Circle, Dehra Dun for providing all help during consultation of the herbaria.

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