

A synopsis of Mniaceae (Bryophyta). IX. Taxonomy, habitats, substrates and ranges of the species on *Rhizomnium*

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When described in 1968, the genus *Rhizomnium* (Broth.) T.J. Kop. had seven species and one variety. Since then six species have been added to the genus now numbering 13 species. These are dealt with synoptically with short discussions of their morphological diagnostic characters such as the size of plants, shape of leaves and cells, color and sexuality. Rhizoid topography is one of the most useful characters and divides the taxa into two groups: four of the species have both macronemata born at leaf axils and micronemata along the stems and nine species have only macronemata. A key to the species of *Rhizomnium* is provided and their habitat ecology and ranges are described. Illustrations useful to their identification as well as range maps are cited. A number of voucher specimens of the species of *Rhizomnium* in KUN, MO and PE are reidentified. *R. nudum* and *R. pseudopunctatum* are excluded from the Chinese bryoflora for certain, and *R. punctatum* tentatively. The records of *R. pseudopunctatum* from Himalayan area are based on the synoicous race of *R. magnifolium*. Six species of *Rhizomnium* are confirmed to occur in China.

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