on well developed individuals: rhizoids yellowish to reddish: leaves imbricated, obliquely inserted, widely spreading, very broadly orbicular, 1.9 mm. long, 3 mm. wide, antical lobe often a little smaller than the postical, broadly ovate, slightly decurrent, antical margin rounded, apex rounded to subacute, usually terminating in an apiculum consisting of a row of from one to four cells; sinus (in explanate leaves) varying from obtuse to broadly and shallowly lunulate or truncate; postical lobe orbicular, postical margin rounded, sometimes subcordate at base, more rarely short-decurrent, apex rounded to obtuse, sometimes apiculate; margin repand, indistinctly crenulate from projecting cells, sometimes bearing one or two short teeth at about the middle of the antical lobe or near the postical base; leaf-cells at the edge of leaf 0.025 x 0.021 mm., in the middle isodiametric, averaging 0.031 mm., slightly elongated at the base, trigones slightly bulging into cell-cavities; verruculæ of cuticle densely crowded, oval or circular in outline: underleaves with lanceolate or subulate long-attenuate divisions, each 1.4 mm. long, 0.17 mm. wide; marginal cilia six to fifteen on each division, mostly two to twenty cells long and one to five cells wide at base; cells of underleaf with more uniformly thickened walls than in leaf, trigones indistinct, cuticle verruculose: inflorescence dioicous; Q bracts alternate in about three pairs, the innermost quadrate, 2 mm. long, with sharper lobes than in the leaves, both antical and postical commonly apiculate, marginal teeth more usual than on ordinary leaves: innermost bracteole often torn in two and carried down by the developing perigynium; perianth ovate in outline, 2 7 mm. long, 1.4 mm. in diameter, one cell thick, irregularly lobed at the contracted mouth, the lobes short-ciliate on their margins with cilia from one to four cells long and one cell broad throughout; perigynium cylindrical, hollow, rounded at the apex, 3 mm. long, 1.4 mm. in diameter, the wall about ten cells thick (0.25 mm.), somewhat thinner toward junction with perianth: calyptra about five cells thick (0.15 mm.) over capsule, thicker in lower part; archegonia usually ten to sixteen: antheridia few in the axil of each & bract. (Plate I.)