

**Drepanocladus trifarius** (Web. & Mohr.) Broth.

From pond on Chantry island, Dolphin and Union strait, Northwest Territories, June 17, 1916.

Pond in swamp at Bernard harbour, Northwest Territories, June 16, 1915.

**Drepanocladus scorpioides** (L.) Warnst.

Barter island, arctic coast of Alaska, summer, 1918, J. Hadley. Pond at Bernard harbour, Northwest Territories, July 3, 1916. Shore of big lake at Bernard harbour, July 19, 1915. Pond at Bernard harbour, Aug. 16, 1915. Attached to stones in creek-bed, Bernard harbour, Aug. 16, 1915.

Genus **Calliergon** (Sull.) Kindb.**Calliergon giganteum** (Sch.) Kindb.

Tundra at cape Bathurst, Northwest Territories, July 26, 1916. Attached to stones in creek at Bernard harbour, Northwest Territories, Aug. 16, 1915.

**Calliergon sarmentosum** (Wahlenb.) Kindb.

Probably this but with more distant leaves and the leaf-cells with walls thinner and less pitted than is usual. Shore of big lake at Konganevik, Camden bay, Alaska, June 26, 1914.

Genus **Chrysohypnum** Hampe.**Chrysohypnum stellatum** (Schreb.) Loeske.

From bottom of ice covered pond on tundra at Collinson point, Alaska, October 9, 1913. Cliffs on "Ptarmigan creek," Sadlerochit river, Camden bay, Alaska, Nov. 13, 1913. Barter island, arctic coast of Alaska, summer, 1918, J. Hadley. Pond on Chantry island, Northwest Territories, June 17, 1916. From shore of big lake at Bernard harbour, Northwest Territories, July 19, 1915.

**Chrysohypnum arcticum**, n.sp.

Flores et fructus ignoti; caulis brevis (1-2 cm.), pallide lutescens, ramis paucis; folia caulina e basi appressa, concava, late ovata vel suborbicularia subito in acumen reflexum producta, margine erecto vel involuto, integerrimo; cellulis elongatis, pellucidis non incrassatis, latis 7-8  $\mu$ , basi majusculis, laxis plus minus lutescentibus subincrassatis, alaribus variis ventricose fasciculatis.

*Chrysohypnum stellato* (Schreb.) Loeske proximum sed folia et cellulae latiorae.

Sterile, no flowers found; the pale, yellowish stems without radicles and with few, irregular branches, in cross-section roundish, about 175  $\mu$  in diameter, with small central strand and mostly two outer layers of cells with thickened walls; stem-leaves very concave, not decurrent, up to 1.4 mm. wide and 1.7-2 mm. long, the more or less rounded lower part appressed imbricate, with an acute, widely spreading point, the margins entire all round and flat or incurved; costa mostly short and double or rarely single and usually slightly forking above.