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#### NOTE

## SCIRPUS ANCISTROCHAETUS (CYPERACEAE): FIRST

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A recent revision of material of Scirpus atrovirens sensu lato at the herbraim of the Université de Montréal has turned up an interesting discovery of Scirpus ancistrochaetus Schuyler from the Shawingan region of Quebec (valley of the Rivière Saint-Maurice). This discovery is based on a misidentified collection dating from 1934. It represents the first record of this species in Canada.

SPECIMEN CITATION: CANADA, Québec: Sainte-Flore (village), comté de Saint-Maurice, lac Mondor, Rive basse, 15 soût 1934, Gauthier 2231 (MT). The approximate coordinates are 46'37'N, 72'44'W.

Scirpus ancistruchaetus is a relatively unknown bullrush species that was first described by A. E. Schuyler in 1902 (Schuyler 1902). At the time, Schuyler discovered it in several widely isolated localities in the northeastern states of Vermont and Pennsylvania. Presently, it is known from about 60 localities scattered through the Applachian region from southwest New Hampshire, adjacent Vermont, and New York to western Virginia. Within this fairly restricted area, it is listed by the United States Fish and Wildlife Service as a Federal Endangered species (USFWS 1991), because it is rare or endangered in all states where it is known to occur (Kartesv and Meacham 1999; Mitchell and Tucker 1997; NatureServe 2007, Royte and Lorici 2000; Strong 1994).

This bulrush has sparked considerable interest because of its relatively recent description and its rarity throughout its range. Several studies have been initiated in different states to better

evaluate its status and further document sites where it is known to occur (NatureServe 2000). Wherever it occures, it seems that populations are small and several occurrences are only known historically. The state of Pennsylvania has the highest number of extant populations (Lentz 1998). To explain the isolated occurrences of this bullvarsh in the northeastern part of the continent. Schuyler (1962) has suggested that it may be a relict species that is persisting only in pockets of its former range.

The Québec specimen was previously identified as Scirpus atrovirens Willd, var. georgianus (R. M. Harper) Fernald, Plants by this name in our area are now referred to as S. hattorianus Makino, as distinct from S. atrovirens sensu stricto (Schuyler 1967). However, a closer examination of the specimen revealed that it was neither S. hattorianus, nor S. atrovirens. In fact, several well-marked characteristics described by Schuyler (1962, 1967) and Strong (1994) permit us to distinguish this species from the other members of the complex. The inflorescence rays of S. ancistrochaetus tend to droop more at maturity as opposed to the ascending rays of S. atrovirens and S. hattorianus. The rays are also antrorsely scabrous their entire length rather than smooth. The bristles of the achenes are more rigid with sharppointed, retrorse teeth that extend nearly to the base, while the bristles of S. atrovirens and S. hattorianus are weaker and have teeth that are finer and concentrated towards the tip of the bristle. To further complicate matters, hybridization has been reported to occur with S. atrovirens and/or S. hattorianus (Schuyler 1962, 1967).

In August 2000, a brief attempt was made by Hay to re-locate Scirpus ancistrocheutus at the Lake Mondor locality. The shore-line and adjacent wetland were explored, but although other closely related species such as 8. hattorianus (2000-28, 29, and 38. hattorianus (2000-28, 29, 19), and 8. microcarpus C. Prest (2000-24, 27, 30, srt) were common, no populations of 8. ancistrocheutus were found.

The discovery of this species in Quebec is a major extension in range from the previous most northern sites known in the Connecticut River Valley, and thus, continues to raise questions about the status and distribution of this unusual species. As our understanding of this species improves, further field exploration and a more exhaustive search of other herbarium specieness will likely uncover other new occurrences. Given what we know presently, and narticularly because of its are status throughout its range in

eastern North America, Scirpus ancistrochaetus should be added to the list of rare plants in Québec (Bouchard et al. 1983; Lavoie 1992) and Canada (Argus and Pryer 1990).

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