



Bathymetric Surveys 2020

In part of reporting for FES Project 19-035
Recreational Fisheries Enhancement and Youth
Angling Opportunities in the North Parkland

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Background Information

SVSFE has been conducting bathymetric surveys and distributing contour data to anglers since 2009. Bathymetric data is not only used for public distribution and angler utilization, but also for research purposes. In total, SVSFE has surveyed 77 different high traffic and backcountry angling lakes in the Porcupine and Duck Mountains. Each of these maps are available for public use on the SVSFE website and the data is presented in multiple formats (.gpx, .kmz, .pdf, .jpeg, and through .kml image overlays). By providing this data in multiple formats, it provides anglers with different options to use the data at their discretion. They can simply print the aesthetic maps, or if they prefer, they can download the depth data onto offline mapping applications on their smart phones. This way, they can have valuable depth and structure information at their fingertips while on the water, regardless of if they have cellular reception or not. SVSFE has received wide support from anglers for the bathymetric collection and distribution efforts over the years and plans to continue surveying the deficiencies that remain into the future. SVSFE mapping methods and protocols can be found in the [Bathymetric Mapping of Local Lakes Report \(Prj. 12-043\)](#).

Summary of Activities

During the summer of 2020, SVSFE surveyed three new waterbodies including Snail Lake, South Steeprock Lake, and Chain Lake(s). Because SVSFE does not currently have access to GIS software, outside entities have created final products over the years. Most recently, Eric Wienckowski from the University of Minnesota has graciously been creating map products in exchange for raw data for his current research on the history of bathymetric surveys in natural lakes. This data is used as a reference in lake sedimentation and coring studies. Once the data was processed, the proper conversions were completed to all file types. At current, the SVSFE website has been updated and all maps are now available for angler utilization.

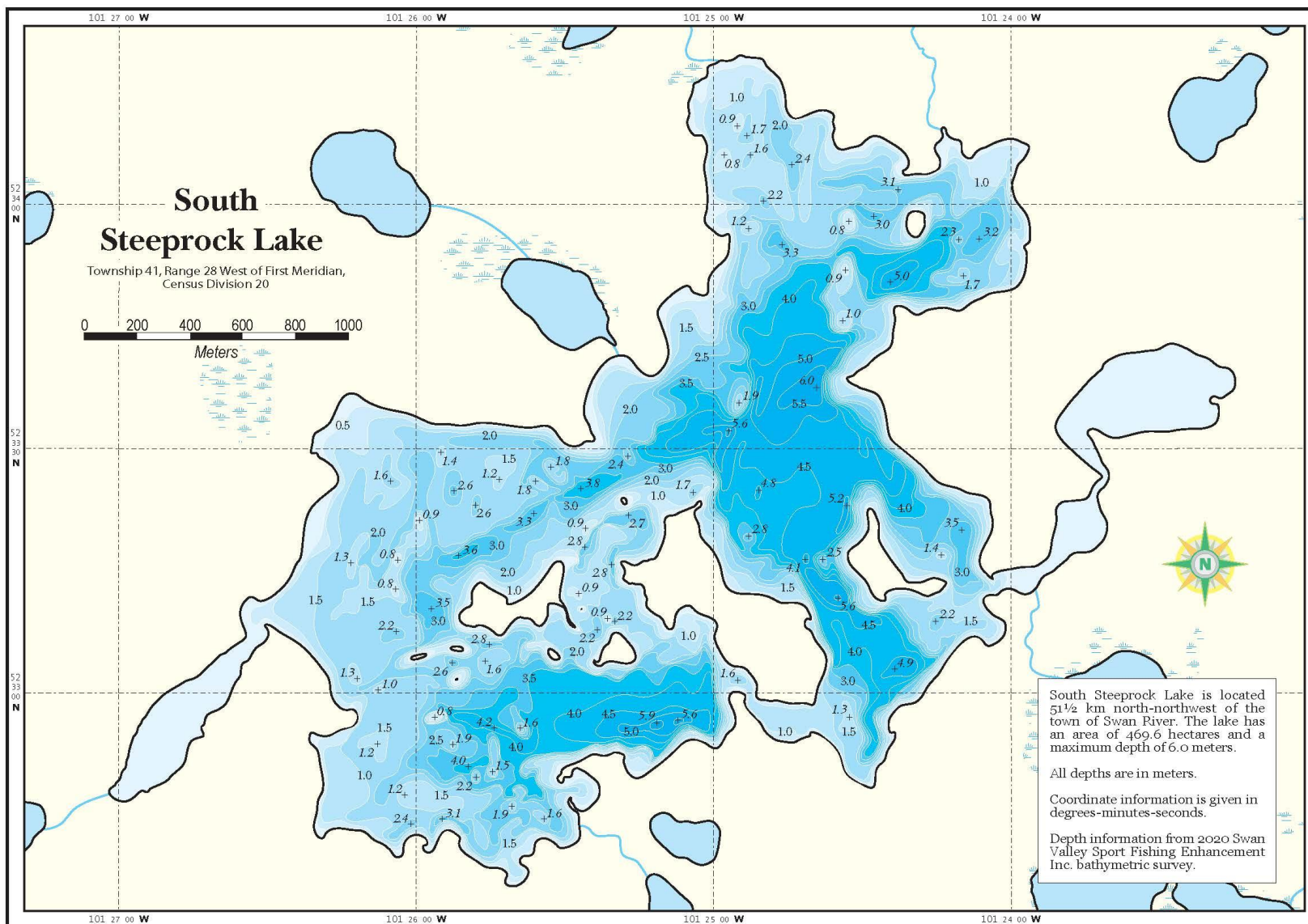


Figure 1: South Steeprock Bathymetry

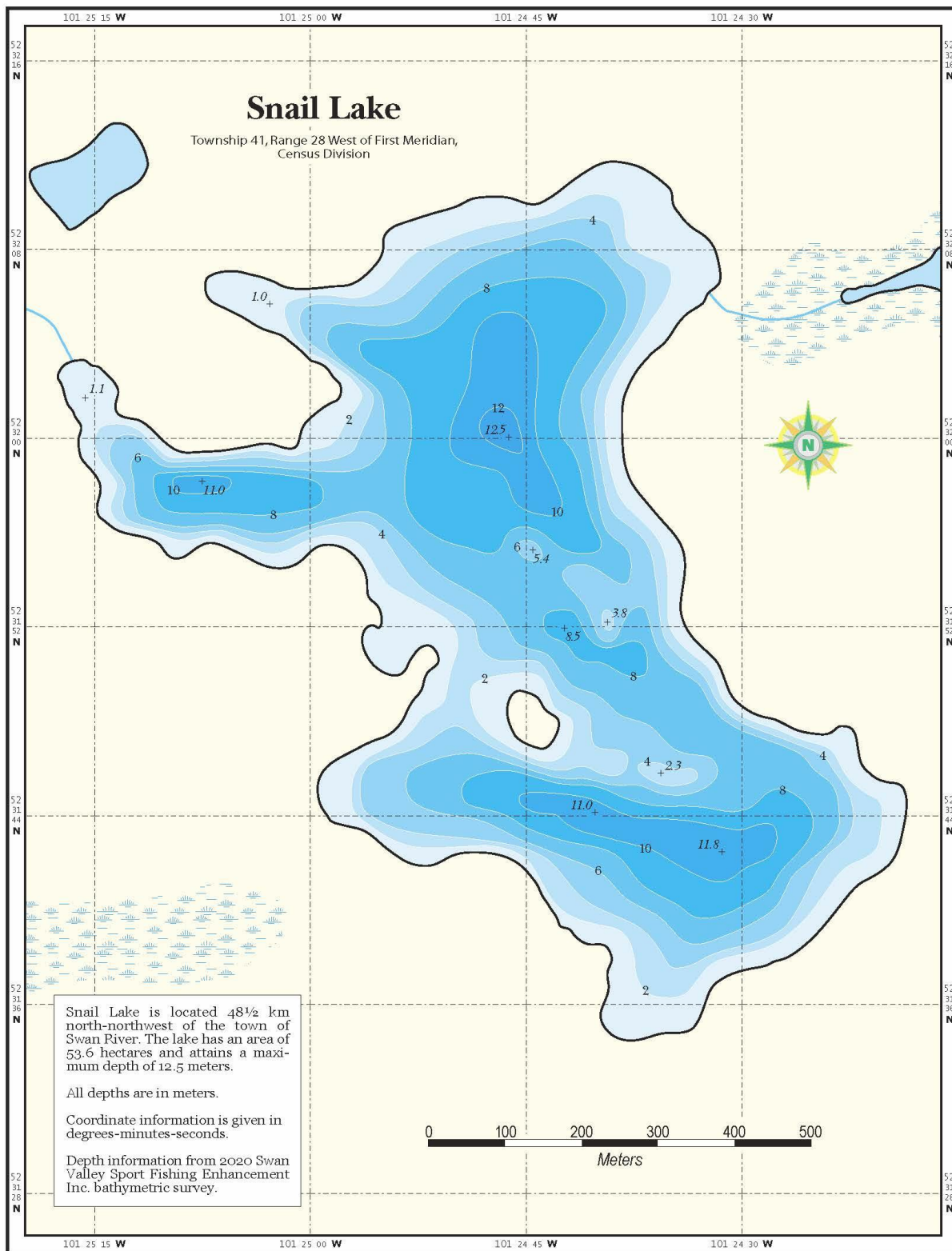


Figure 2: Snail Lake Bathymetry

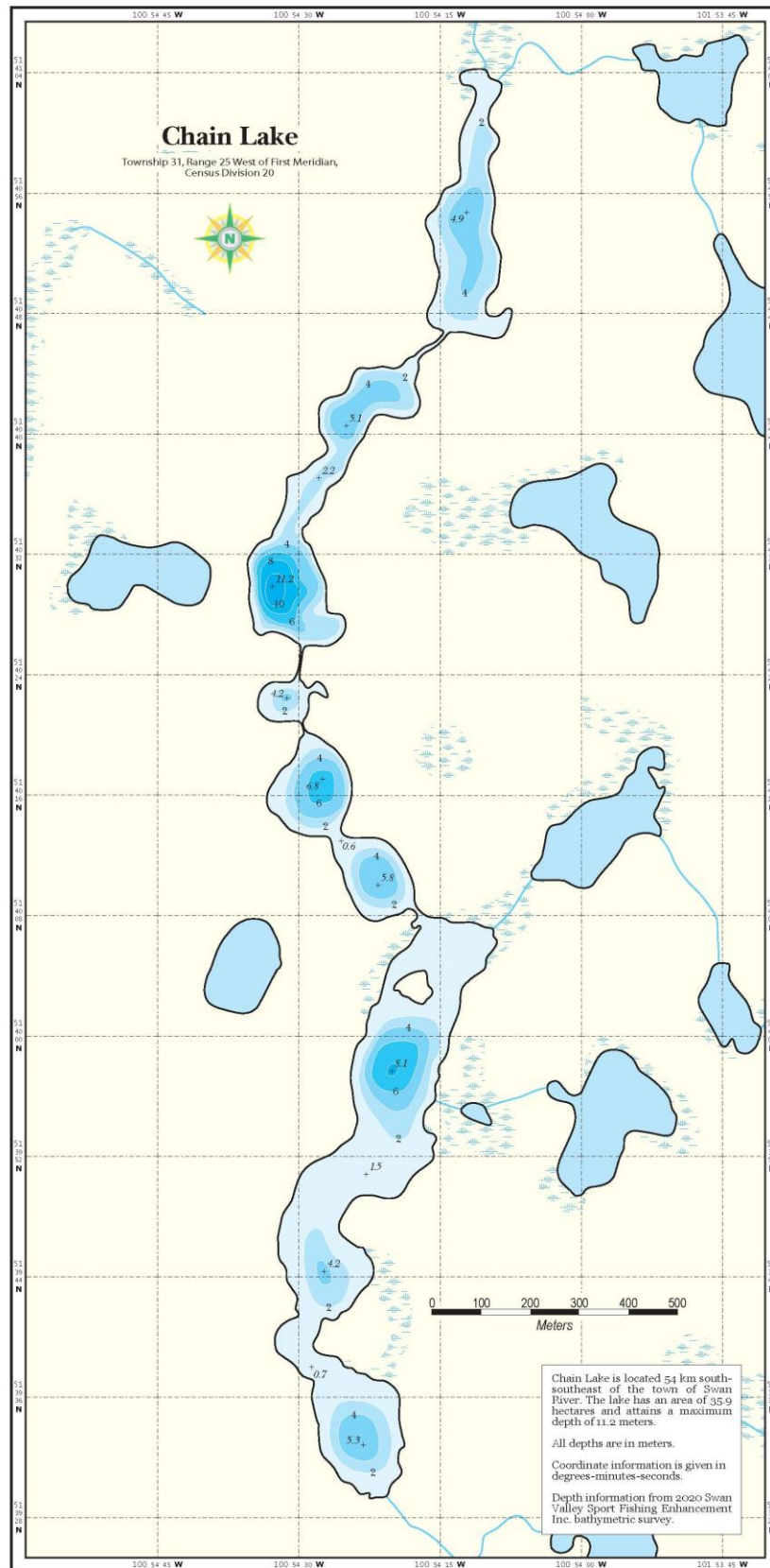


Figure 3: Chain Lakes Bathymetry