

Abstract for an oral presentation at the EFGS conference 2024 in the category: Mapping Sustainability and Support Environmental Risks Management.

### **Monitoring shoreline land exploitation.**

Sweden has a long costal shoreline with lots of lakes and rivers. Areas near water is important for many activities and is therefore under constant risk of being exploited for private or commercial use. Therefor these areas have a long history of being protected by law. The law serves the dual purpose of preserving recreational access to water for the general public and protecting these areas from a wildlife perspective.

Statistics Sweden produces statistics on the exploitation of these areas. It is used among other things as an indicator on exploitation of shorelines which are part of the UN:s sustainable development goals. Furthermore, Statistics Sweden provide help to different authorities in this field. One such example was when GIS-experts from Statistics Sweden assisted the Government Office in a beach protection investigation.

The oral presentation will briefly outline the GIS methods used for producing the statistics on shoreline land exploitation. The presentation will also show how different statistical patterns can emerge using different ways of presenting the statistical results as a table or in map. Usage of different geographical scales to reveal new insights will also be shown. Furthermore, methodological challenges will be discussed and what conclusions can be drawn from the statistics with regard to the data quality.