

Geologian Tutkimuskeskus (GTK)

Decision support systems (DSS) for coastal vulnerability assessments

GTK does not utilise DSSs for coastal vulnerability assessment. Other institutions in Finland employ Marine Spatial Planning (MSP) and Coastal Zone Management (CZM) Tools to facilitate integrated, multi-purpose planning. Areas vulnerable to environmental change are derived from the use of the tools. Mentionable tools are EMODnet Central Portal, the VELMU map portal, and HELCOM data services for processing and sharing marine data. Further, GTK has two national data services: Hakku (download service) and Maankamara (for visualization) who contain Finnish spatial data, documents and metadata from the 19th century to the present day.

GTK produces information about the seabed geological structures, composition, and processes, and parameters for the environmental assessments like information on acid sulphate soils (ASSs).

Input parameters mentioned in the figure may comprise multiple sub-parameters. For more information on the input parameters see Larsen et al. (2025; Table 1, p 17).

Further readings:

Larsen, I. R., Ernsten, V. B., Maspataud, A., Dakin, N., van Heteren, S., Koutroulli, A., Poyiadji, E. & the GSEU T5.4 Consortium (2025). EGDl multifunctional 2D/3D decision-support module v1. GSEU Report on Deliverable 5.7, 165 pp.

