

Islenskar Orkurannsóknir (ISOR)

Decision support systems (DSS) for coastal vulnerability assessments

ISOR does not utilise DSSs when analysing coastal vulnerability. Coastal vulnerability assessments are localised and in development through student projects. The MET-Office of Iceland conducts landslides and avalanche monitoring (<https://www.vedur.is/ofanflod/snjoflodaspa/>). GIS is the primary tool applied. A Coastal Vulnerability Index (CVI) has been applied in student projects but is yet to be implemented on a national scale.

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 reading

Davies, W. T. R. (2012). Applying a Coastal Vulnerability Index (CVI) to the Westfjords, Iceland: A preliminary assessment (Master's thesis). University of Akureyri, Ísafjörður.

Larsen, I. R., Ernstsén, 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.

