

Hrvatski Geološki Institut (HGI-CGS)

Decision support systems (DSS) for coastal vulnerability assessments

HGI-CGS does not currently use DSSs in relation to coastal vulnerability. The work so far has focused on creating shapefiles representing coastal dynamics (erosion/accretion/stable) and resilience (high/low). A Coastal Vulnerability Index (CVI) is applied by scientists at Croatian universities but not by HGI-CGS (Ružić et al., 2019).

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., Ernstsen, 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.

Ružić, I., Dugonjić Jovančević, S., Benac, Č., & Krvavica, N. (2019). Assessment of the Coastal Vulnerability Index in an area of complex geological conditions on the Krk Island, Northeast Adriatic Sea. *Geosciences* (Basel), 9(5), 219–. <https://doi.org/10.3390/geosciences9050219>

