

The installation of submarine cable systems in the German Bight necessitates maintaining a minimum depth of cover throughout the cable's service life. This requirement is influenced by hydro-morphological conditions during installation and evolving sedimentation patterns over time. To ensure long-term stability, a verifiable morphology model is essential. Simulations of various scenarios, including sea level rise, land subsidence, and extreme weather events, will be conducted based on the validated model to assess potential impacts on cable coverage and stability.