

# Kangaroo Island Coastal Hazards Mapping Project

The coastline of Kangaroo Island is highly varied, ranging from low lying coastal plains in the east to high cliffs in the west. These different coastlines are all subject to coastal processes and many of the lower-lying areas along the east of the island are subject to coastal inundation and erosion risks. These processes are likely to be exacerbated by climate change and associated increases in future sea level.

Climate change and sea level rise are some of the largest issues facing all levels of Government in Australia today. Kangaroo Island Council acknowledge this challenge and identified the need for a means to communicate the issues to the community, stakeholders and politicians.

Council obtained funding through the Natural Disaster Resilience Program to undertake a pilot coastal hazard mapping project for sections of the Kangaroo Island coast (subject to LiDAR data availability).

The focus on coastal hazards associated with current and projected sea level rise aligns with the outcomes of the Resilient Hills and Coasts (RH&C) Regional Climate Change Adaptation Plan, which identified built coastal assets as one of four priority areas of adaptation on Kangaroo Island.



*The Red outline represents the capture extent on Kangaroo Island.*

The key outputs of the project are:

- Detailed modelling using LiDAR data to develop future erosion and flood scenarios.
- Analysis of the modelling to inform decision making.
- Development of a communication and engagement strategy aimed at working with the community to build capacity and resilience.
- Final report that assesses response options and makes recommendations to Kangaroo Island Council on adaptation actions.
- Preparation and distribution of a case study to promote and inform similar exercises in other council areas.

