

Disclaimer

The Online Mapping Tool is intended to identify areas along the Kangaroo Island coast that are susceptible to coastal inundation. The water levels provided are indicative only and are regarded as estimates for most areas. The tool is to provide users with an appreciation of current and future coastal inundation.

Kangaroo Island Council and its employees, while providing this information in good faith, accepts no responsibility for any loss, damage, injury, or loss in value to any person, property, service or otherwise resulting from its use.

Glossary of Definitions

AEP: *Annual Exceedance Probability; The measure of the likelihood (expressed as a probability) of an event equalling or exceeding a given magnitude in any given year.*

Brunn Factor: *A multiplier used to define the amount of horizontal shoreline recession that results from a given sea-level rise. For example, a Bruun Factor of 100 means a shoreline recedes horizontally by 100 times the vertical rise in mean sea-level. The use of Bruun Factors is a highly simplified application of the Bruun Rule by erosion by sea-level rise.*

Erosion: *Removal of material (eg from a sediment body or landform) by natural processes (eg wave action). Coastal erosion typically results in landwards recession of the shoreline, but in theory need not do so eg wind erosion of coastal dunes need not necessarily lead to shoreline recession.*

Exceedance Probability: *The probability of an extreme event occurring at least one during a prescribed period of assessment is given by the exceedance probability. The probability of a 1 in 100 year event (1% AEP) occurring during the first 25 years is 22%, during the first 50 years the probability is 39% and over a 100 year asset life the probability is 63%.*

Inundation: *Coastal inundation is the flooding of normally dry, low-lying coastal land. This is primarily caused by severe weather events along the coasts, estuaries, and adjoining rivers.*

Mean High Water Springs (MHWS): *the highest of MHWS is the average, throughout a year when the average maximum declination of the moon is 23.5° , of the heights of two successive high waters during those periods of 24 hours when the range of the tide is greatest. Used when semi-diurnal tides are present.*