

# Port Phillip Bay Coastal Hazard Assessment

## Location of Hazard Assessment

The Port Phillip Bay Coastal Hazard Assessment (PPBCHA) is a project being delivered by the Department of Environment, Land, Water and Planning in partnership with the Commonwealth Scientific and Industrial Research Organisation and key stakeholders. The PPBCHA will define the extent of land expected to be threatened by the coastal processes of inundation, erosion and groundwater change under present and future climate change conditions. The outcomes of the hazard assessment will be information that can be used to plan for and manage current and future natural, cultural and economic assets. The scale and locations of where the hazard assessments will be focused is described below and illustrated in figure 1.

The three hazards will be modelled for the entire bay. The inundation and erosion assessments will be at modelled at a fine resolution i.e. property/title level, while the groundwater assessment will be at a much coarser level.

In addition, to the whole-of-bay models, there will be more detailed inundation assessments over inundation-prone and urbanised regions with a hydrodynamic model at a resolution of 5-10 m. These sections of coastline fall within the cities of Greater Geelong, Hobson's Bay, Port Phillip, and from Kingston to Frankston. This modelling will include overland inundation, inundation through backup in stormwater drainage systems and catchment inflows.

There will also be more detailed conceptual models developed for groundwater for the area between Mordialloc and Frankston and the Werribee region where finer resolution data exists. Note that the groundwater assessment over the southern Mornington Peninsula will be undertaken if time permits.

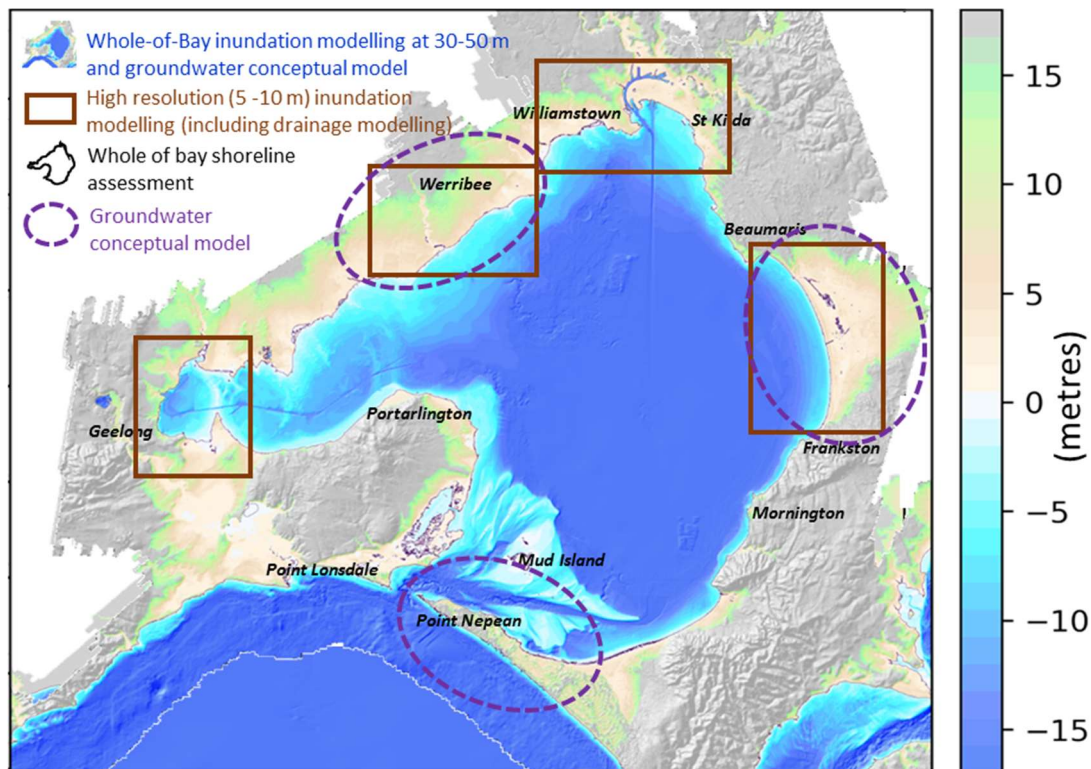


Figure 1: Port Phillip Bay as defined by LiDAR elevation data. The locations of the hazard assessments are indicated.

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he State of Victoria Department of Environment, Land, Water and Planning 2019



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