



# Maroochy River Digital Elevation Model

## Metadata Statement

Last Updated: November 2025

Version 1

eCat: 150747

### User Constraints



© Commonwealth of Australia (Geoscience Australia) 2025

This material is released under the Creative Commons Attribution 4.0 International License.

### Keywords

elevation, flood, water, catchment, dem

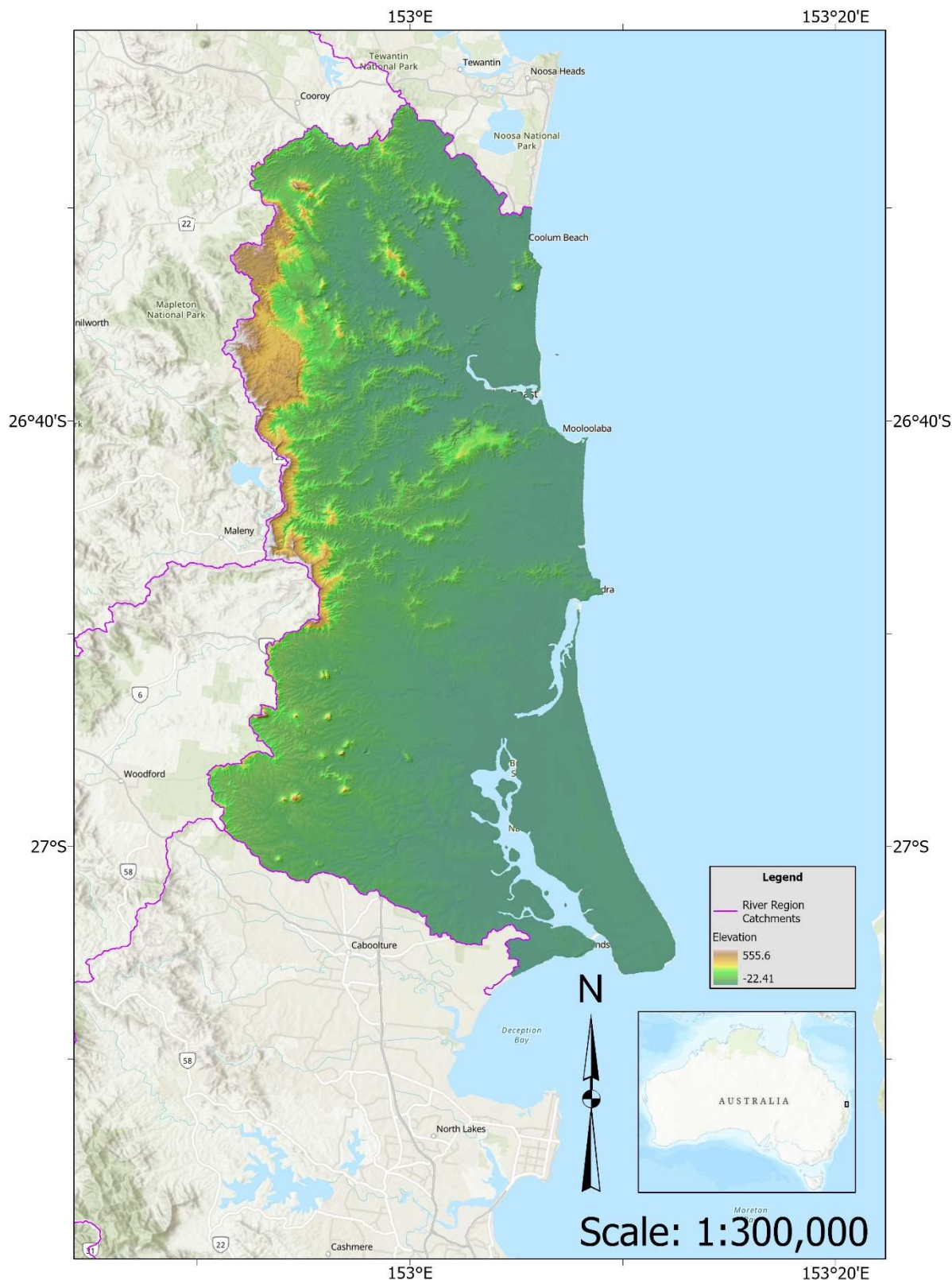
### Abstract

The Maroochy River 5m Digital Elevation Model (DEM) is generated from all relevant data available on the Elvis - Elevation and Depth - Foundation Spatial Data (Elvis) platform with a resolution of 5 metres or higher. Source datasets with a resolution higher than 5m have been resampled to 5m.

This elevation model is generated using 3032 datasets from a total of 4543 datasets sourced from multiple providers including State and Territory Governments. The capture dates for input data range from 12/03/2014 - 08/08/2022. See Table 1 below for further information.

The area covers the land mass of the Maroochy River drainage basin as defined by the Bureau of Meteorology Geofabric. Near shore bathymetry data has also been included in the final raster.

# Maroochy River Catchment



Esri, TomTom, FAO, NOAA, USGS, Esri, CGIAR, Esri, USGS, City of Moreton Bay, Department of Resources, DESI, Esri, TomTom, Garmin, FAO, METI/NASA, USGS

## Lineage

Near shore bathymetry datasets were downloaded from the Elvis platform and mosaicked into a single bathymetry raster. The bathymetry and terrestrial area outputs were then mosaicked to form a single product covering both the terrestrial area and near shore bathymetry. In instances of overlap between the two, cell values from the terrestrial dataset were used in the resulting DEM.

Data has been sourced from the captures and custodians listed in Table 1.

**Table 1: Source of data used in production of Maroochy River DEM.**

PROJECT	CAPTURE DATE	RESOLUTION (Metres)	DATA TYPE	CUSTODIAN
Moreton_Bay_2018_LGA	25/11/2018	1.0	DEM	QLD Government - <a href="https://www.qld.gov.au/">https://www.qld.gov.au/</a>
Moreton_Bay_2022_Bathymetry_MSL	08/08/2022	3.0	DEM	QLD Government - <a href="https://www.qld.gov.au/">https://www.qld.gov.au/</a>
SunshineCoast_2014_LGA	12/03/2014	1.0	DEM	QLD Government - <a href="https://www.qld.gov.au/">https://www.qld.gov.au/</a>
Noosa_2015_LGA	18/08/2015	1.0	DEM	QLD Government - <a href="https://www.qld.gov.au/">https://www.qld.gov.au/</a>

## Reference System

Horizontal: GDA2020 MGA Zone 56 (EPSG: 7856)

Vertical: Australian Height Datum 1971 (EPSG: 5711)

## Spatial Extent

West: 152.84°

South: 27.1°

East: 153.21°

North: -26.41°

## Source Information

Creative Commons Attribution licensed data was obtained through the Elvis platform from multiple sources. Attribution statements for each data source are listed below.

© The State of Queensland (Department of Natural Resources and Mines, Manufacturing and Regional and Rural Development; Sunshine Coast Regional Council) 2008

© The State of Queensland (Department of Natural Resources and Mines, Manufacturing and Regional and Rural Development; Sunshine Coast Regional Council) 2014

## Dataset Limitations

Input DEMs with a resolution of 5m or higher were sourced from the Elvis platform. In areas of overlapping coverage, the values from the input dataset with the most recent capture date were used in the final output raster. GA performed several transformations on the input data due to the varying input resolutions, projections, points of origin and methods used by data custodians to create the source DEMs. These transformations may have introduced artifacts in the mosaic product, most notably along original input dataset edges. This dataset has not been hydrologically enforced.

## Metadata Index

The metadata index provided is designed to allow users to trace the origins of the data used to generate the output DEM mosaic. The index is created using the spatial extents of each input dataset as sourced from the Elvis platform. As individual input datasets may go through a variety of preprocessing steps such as reprojecting and resampling to a common grid before mosaicking, there may be small variations between the index and the output mosaic. The index is intended to be used as a guide only.

There may be instances in the index where small holes, or slivers are present. This is due to neighbouring input DEM tiles not sharing a common boundary. These holes are typically only one or two cells wide. Small slivers may have been filled by interpolated data derived from values at each side of the hole. The raster product will show continuous data in this case; however, the index will still show a sliver as it has been generated through a separate workflow.

In some instances, larger holes may be present in both the index and raster dataset. As outlined above, this is where neighbouring input DEM tiles do not join to create a continuous surface. Holes that exceed the no data filling parameters (see Lineage) will remain as “no data” in the output raster. Due to the process of filling small holes, some areas around larger holes may have been interpolated and as such the index will not exactly match the raster when inspecting at, or near cell size level.

**Table 2: Data Dictionary of the supplied Metadata Index for the Maroochy River dataset.**

Attribute	Description
PROJECT	The name of the project data is sourced from.
CAP_DATE	The date the data was captured. If a date range, the earliest date is supplied.
RESOLUTION	The resolution, in metres, of the sourced data.
DATA_TYPE	Data type of the sourced data.
CUSTODIAN	The custodian of the sourced data.

## Modification frequency

As required

## **Revision Dates and Descriptions**

November 2025: Product was generated

## **Contact**

Using this email address: [clientservices@ga.gov.au](mailto:clientservices@ga.gov.au)

Please address your correspondence to:

- Director, National Geospatial Data Section, National Location Information Branch, Geoscience Australia.