



**P:** 1300 066 995

**E:** info@omcn.com.au

**W:** omcn.com.au

## COASTAL MONITORING PROGRAMS

Coastal monitoring is becoming a necessity for coastal land managers looking to proactively manage their coastline and adapt efficiently to climate change.

OMCN offers tailored coastal monitoring programs that target vulnerable areas, ensure comprehensive data capture and include analysis by a qualified coastal engineer.

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### Why is coastal monitoring important?

The impacts of climate change on the coastal zone will not be uniform at a regional or even local scale due to the dynamic nature of the coast. Localised monitoring is required in vulnerable coastal areas to quantify trends in shoreline movement. This helps avoid unnecessary or inappropriate coastal zone management and facilitates effective adaptation.

### What does an OMCN coastal monitoring program include?

The team at OMCN has experience in developing coastal monitoring programs across a range of different coastline types (sandy, cliffed and estuarine). Our coastal monitoring programs are tailored to your needs ensuring that all budgetary, technical and environmental constraints are met. They can be developed to be run by you, by our engineers or a combination of the two depending on your specific requirements.

## MONITORING TECHNIQUES

We have extensive experience using a wide range of coastal monitoring techniques which include:



**Aerial Imagery Analysis:** Using aerial imagery to track changes in shoreline/cliff top position over time.



**Drone Photogrammetry:** Our drone surveying service provides extremely accurate elevation and cliff face data over wide areas.



**Photo Points:** Community focused monitoring technique.



**Structured Site Assessments:** Easy to follow site assessment checklist.



**Beach Profile Surveys:** Commonly used as a Citizen Science Project.

## GIS DATA INTEGRATION

Storing monitoring data within a GIS mapping system provides:

- Easy data access and interpretation.
- Data presentation in map format.
- A clear illustration of how the data relates to the real world.
- The ability to integrate the data with asset management systems.

## ANALYSIS AND REPORTING

Depending on the scope of the program a qualified OMCN coastal engineer will either undertake the data analysis or provide oversight for your organisation to do so. This will ensure that the data is interpreted correctly and fully utilised to inform management actions.