

# Oceanographers and Marine Modelling Specialists



AN **O2M** GROUP COMPANY

THE **O2M** GROUP OF COMPANIES





O2 METOCEAN is a highly specialised marine oceanographic consulting company and an affiliate of the O2M GROUP. The team comprises oceanographers, coastal engineers and marine modellers who specialise in projects where collection and analysis of oceanographic and meteorological data is critical to inform engineering and/or environmental project decisions.

Our technical focus and experience allow us to hone methods, develop IP and ultimately propose the optimal solution to inform critical project decision-making.

Our rigorous equipment and data management procedures ensure that the data acquired and analysed is fit-for-purpose and delivered in-line with client expectations.

We are industry-recognised leaders in the fields of metocean science, oceanography, bathymetric survey and marine modelling.

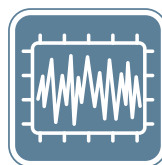


## SERVICES



### Metocean

- Data Acquisition – Currents, Waves, & Meteorological Measurements
- Data Management – NetCDF, Real-time, Secure
- Sediment Flux Studies



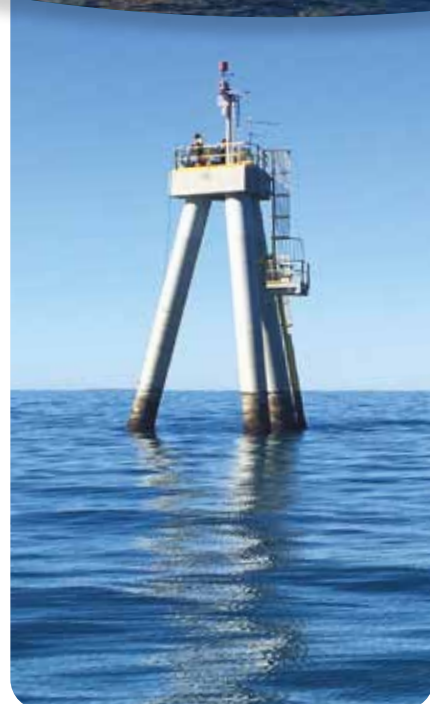
### Modelling

- Hydrodynamic Modelling
- Sediment Transport Studies
- Outfall Modelling
- Coastal Processes Modelling
- Weather Forecasting



### Survey

- Bathymetric & Acoustic Backscatter Survey
- Search & Recovery Survey
- Magnetometer & UXO Survey



## SECTORS



### Ports & Harbours

Our specialist expertise is critical in supporting Port managers to better understand and manage the marine environment in which they operate.



### Energy & Resources

We support coastal and offshore energy projects through clear planning and implementation of environmental, meteorological and oceanographic assessments.



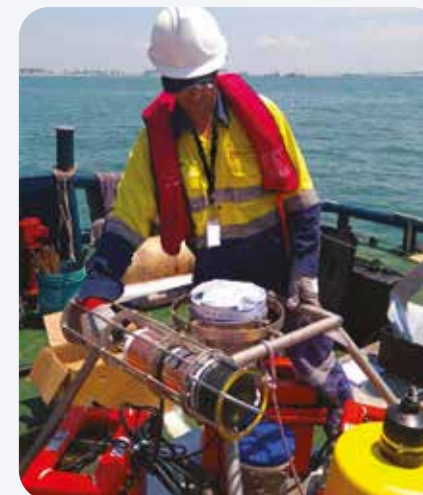
### Water & Wastewater

We provide targeted investigations, baseline monitoring, numerical modelling and expert advice to inform effective environmental management of ocean outfalls and wastewater discharges.

## TECHNIQUES & EQUIPMENT

### Metocean Instruments

- Aquadopp
- Acoustic Wave and Current Profilers (AWAC)
- Acoustic Doppler Current Profilers (ADCP)
- Wave Buoys
- High Resolution Pressure Sensor
- CTD Profilers



### Survey Equipment

- Side Scan Sonar Systems
- Multibeam & Single Beam Echosounder Systems
- ROV & Towed/Drop Camera Video Systems
- Baited Remote Underwater Video Systems (BRUVs)
- UAV systems
- Multispectral & Aerial Imagery

### Data Management & Analysis

- Remote Telemetered Monitoring Systems
- Secure Online Data Storage & Visualisation Platform [o2marine.eagle.io](http://o2marine.eagle.io)
- Geographical Information Systems (QGIS)
- Statistical Analysis *R*, *Primer*, *SPSS*
- Remote Sensing Imagery Interpretation

### Modelling

- Matlab & Python Processing
- Regional Ocean Modelling Systems (ROMS)
- Semi-implicit Cross-scale Hydrosience Integrated System Model (SCHISM)

### Commercial Equipment

- Scuba & Surface-supplied (SSBA) Diving Equipment
- Commercial Vessels *Ranging in size from 4m - 20m*
- Equipment Wet-testing Facilities *Based in Fremantle*
- Weather stations
- 4wd Vehicles



## LOCATIONS

We have experience throughout Australia, ranging from the remote waters of Far North Queensland in the east, to the cyclone-ravaged Pilbara coastline in the west, and the unique estuarine environments in the far south of Western Australia. Internationally, our team has experience from the oil fields of the Arabian Gulf and the North Sea, throughout Southeast Asia, the Pacific Islands and in the remote Australian Ports of the Christmas & Cocos Islands.



**Enhancing delivery and fostering innovation  
within our marine specialist companies**

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