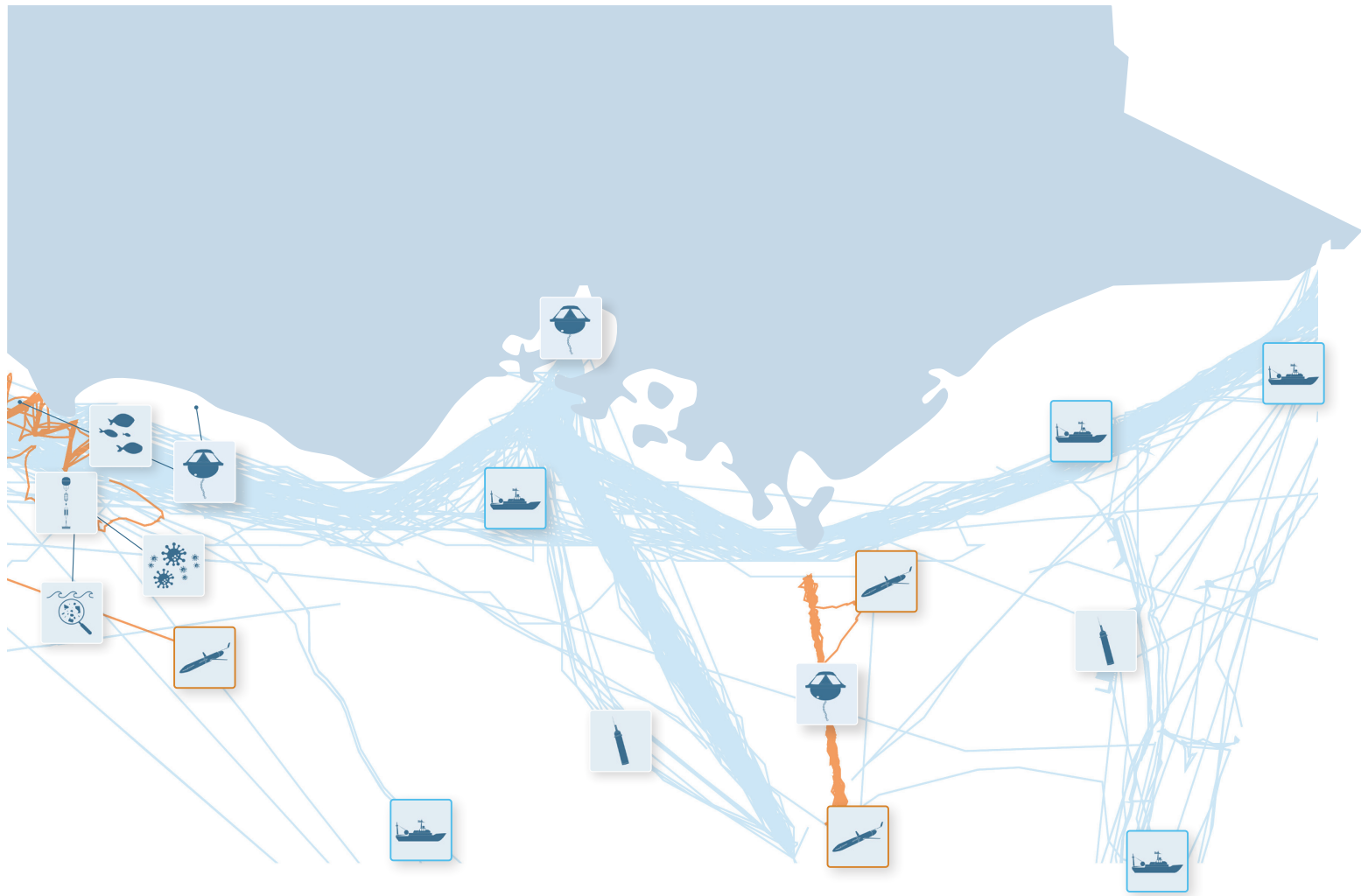











IMOS

in Victoria



Locations are approximate

IMOS sustained ocean observing infrastructure in Victoria

- | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|  Ships of Opportunity
Voyage observations |  National Mooring Network |  Argo Floats |  Biomolecular Observing |
|  Ocean Gliders
Glider deployments |  Marine Microplastics |  Satellite Remote Sensing | |
| |  Coastal Wave Buoys |  Animal Tracking | |










Australia's Integrated Marine Observing System (IMOS) operates a variety of observing equipment across Australia's coastal and open oceans. IMOS is designed to be a fully integrated, national system, collecting data at ocean-basin and regional scales, measuring physical, chemical and biological variables.

All data collected by IMOS is openly and freely available through the IMOS Australian Ocean Data Network (AODN) portal, to support scientists, industries, government and First Nations communities.

Victoria's marine environment is a productive and energetic temperate zone, being the eastern extent of the carbonate-rich Great Southern Reef, extending across the now flooded Bass Strait Landbridge, to the silicious dominated Gippsland Basin. It is exposed along its southern edge to the Southern Ocean and the globally critical Bonney Upwelling.

The eastern part of Victoria is seasonally dynamic due to the southward movement of the subtropical convergence zone, and East Australian current.

IMOS' sustained ocean observing infrastructure in Victoria

 <p>Ships of Opportunity A combination of commercial, fishing and research vessels collecting a wide range of oceanographic measurements.</p>	 <p>Animal Tracking Uses acoustic telemetry to monitor the movements of tagged animals to support research and the management of marine biodiversity.</p>	 <p>National Mooring Network A collection of moorings that monitor oceanographic conditions in shelf waters and boundary currents in Australia's coastal waters.</p>
 <p>Ocean Gliders Deployments along the coast monitor subsurface properties of shelf and boundary currents.</p>	 <p>Coastal Wave Buoys Moored wave buoys delivers near real-time wave and surface temperature observations.</p>	 <p>Marine Microplastics Microplastics samples are collected to identify sources and impacts of contamination.</p>
 <p>Satellite Remote Sensing Provides calibrated satellite-derived ocean data, including sea surface temperature, ocean colour, and surface waves.</p>	 <p>Argo Floats Autonomous profiling instruments collecting real-time subsurface ocean temperature and salinity data.</p>	 <p>Biomolecular Observing Water samples are collected at National Reference Stations to analyse environmental DNA to track trends in marine biodiversity.</p>

The Victorian marine science community has used IMOS observations to produce:

- 199** Journal Articles
- 79** Reports
- 58** Projects
- 28** Data Products
- 17** Postgraduate Projects

Victorian institutional users of IMOS observations:

- 17** Government Departments & Research Agencies
- 13** Research Collaboration & Non-government
- 17** Industry & Services
- 8** Universities

State partnerships

Deakin University and The University of Melbourne are associate participants with IMOS.

Critical node partners include the Environmental Protection Authority, Department of Energy, Environment and Climate Action, Monash University, Gippsland Ports and TT-Line Company.

Access data

portal.aodn.org.au

More information

imos.org.au/nodes

