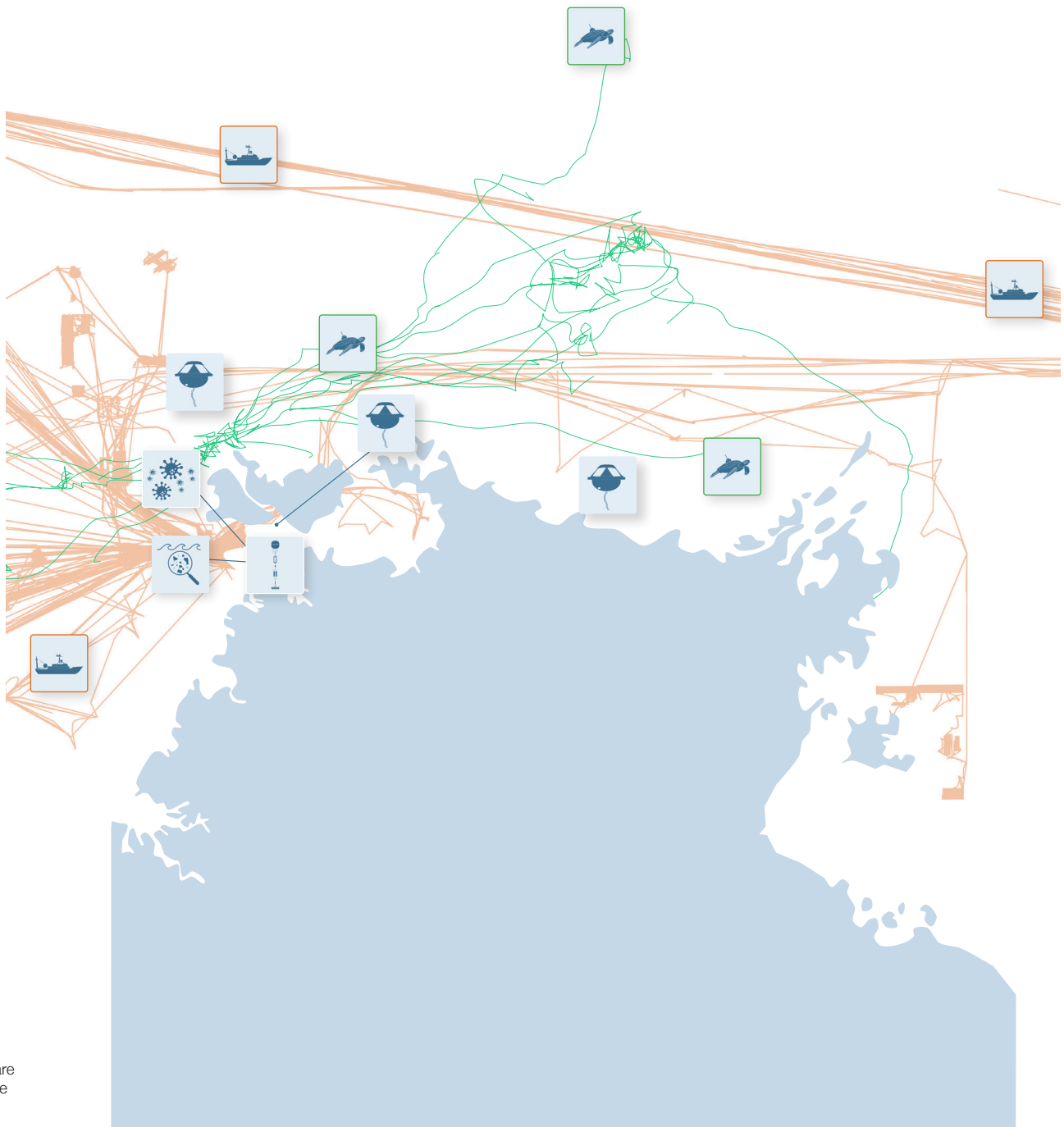


IMOS

in the Northern Territory



Locations are approximate

IMOS sustained ocean observing infrastructure in the Northern Territory



Ships of Opportunity

Voyage observations



Animal Tagging

Turtle tracks



Biomolecular Observing



National Mooring Network



Marine Microplastics



Coastal Wave Buoys

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.

IMOS and its Northern Territory partners are observing the Territory's unique coastal and offshore environments while also promoting awareness and use of IMOS data.

This infrastructure plays a critical role in supporting current and future monitoring, research, and decision-making across the Northern Territory.

IMOS' sustained ocean observing infrastructure in the Northern Territory



Ships of Opportunity

A combination of commercial, fishing and research vessels collecting a wide range of oceanographic measurements.



Coastal Wave Buoys

Moored wave buoys delivers near real-time wave and surface temperature observations.



Marine Microplastics

Microplastics samples are collected to identify sources and impacts of contamination.



Turtle Tracking

Provides oceanographic measurements and information about turtle behaviour and movements by attaching satellite tags to turtles.



National Mooring Network

A collection of moorings that monitor oceanographic conditions in shelf waters and boundary currents in Australia's coastal waters.



Biomolecular Observing

Water samples are collected at National Reference Stations to analyse environmental DNA to track trends in marine biodiversity.

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

- 67** Journal Articles
- 28** Reports
- 17** Projects
- 28** Data Products
- 2** Postgraduate Projects

NSW institutional users of IMOS observations:

- 3** Government Departments & Research Agencies
- 4** Research Collaboration & Non-government
- 4** Industry & Services
- 1** University

Partnerships

IMOS is delivering oceanographic data and turtle movement insights through satellite tagging in collaboration with the Tiwi Rangers, Tiwi Land Council, the Australian Institute of Marine Science and the Sydney Institute of Marine Science.

Access data

portal.aodn.org.au

More information

imos.org.au/nodes

