

FISHERIES & AQUACULTURE RESEARCH CAPABILITY

At the Institute for Marine and Antarctic Studies (IMAS) we are dedicated to seeking knowledge and innovation to provide adequate and sustainable nutrition to an increasing world population.

The IMAS fisheries research program supports the long-term sustainable harvest of wild marine resources, and our aquaculture research program is aimed at delivering significant increases in production while minimising environmental impacts.

IMAS has extensive international research capacity in fisheries and aquaculture, which is greatly enhanced by our key collaborative partnerships and the development of cutting-edge technology.

Research Disciplines

Our fisheries and aquaculture research capability is organised around eight research disciplines and is supported by our state-of-the-art laboratory, aquaculture, and boat and dive facilities.

These research disciplines are:

- Animal Performance
- Aquaculture Innovation
- Aquatic Animal Health, Biosecurity, and Welfare
- Ecosystem Effects and Interactions
- Global Seafood Trends
- Management Systems
- Recreational and Traditional Fisheries
- Recruitment Dynamics

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Animal Performance

Across wild and farmed animals; integrating physiology, nutrition, breeding, genetics and development; life-cycle analysis; climate change effects; nutrient requirements; aquafeeds and sustainable ingredients, including alternatives to fishmeal and fish oil.

Aquaculture Innovation

Developing “new” species for aquaculture using an integrated approach to match biology and technology and to work at a commercially relevant scale. Our current focus is on rock lobsters and water quality management.

Aquatic Animal Health, Biosecurity, and Welfare

Infectious disease; non-infectious disease; diagnostics; biosecurity, toxicology and welfare specific research.

Ecosystem Effects and Interactions

Aquaculture and environment, including sediments, hydrology, modelling, management, policy; ecosystem effects of fishing including ecology and applied to fishery accreditation; integrated coastal management; climate change.

Global Seafood Trends

Meta-analysis of datasets and predictions; climate change effects on fisheries and aquaculture; changes in seafood consumption.

Management Systems

Fishery assessments including data-poor fisheries; optimising harvests; closed areas; bioeconomics.

Recreational and Traditional Fisheries

Quantifying catch and trends in stocks; resource sharing; post-release survival; economic benefits.

Recruitment Dynamics

Larval source-sink dynamics; managing egg production; temporal trends.

