

MISA

MARINE INNOVATION
SOUTH AUSTRALIA

Excellence in
marine science
inspired through
collaboration



Government of South Australia
Primary Industries and Resources SA



CAPABILITY INFRASTRUCTURE RESEARCH

MISA





Aquaculture
Innovation

Biosecurity

MISA
Research
Projects

Product Quality
& Value-adding

Ecosystem
Services

Aquaculture Innovation

- Aquatic animal health issues limiting production of yellowtail kingfish and hatchery-reared southern Bluefin tuna
- Yellowtail kingfish and abalone diet trials
- Southern Bluefin tuna larval rearing project
- Southern Bluefin tuna maturation and sexing; develop and apply new technologies
- Provide a baitfish supplement diet for the effective delivery of specific nutrient requirements for juvenile farmed Southern Bluefin Tuna



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Biosecurity

- *Caulerpa taxifolia*: Ecological and economic risk assessment
- Trialling the new national protocols for marine pest surveys
- Developing gene probes for marine pests
- *Caulerpa taxifolia* eradication and monitoring



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Ecosystem
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Ecosystem Services

- Installation of SAIMOS/HF RADAR and oceanographic equipment
- Development of a hydrodynamic and biogeochemical modelling facility for southern Australia
- Genetic and social factors shaping alternate foraging strategies within and among Australian sea lions
- Understanding the impediments to growth of Australian sealion populations



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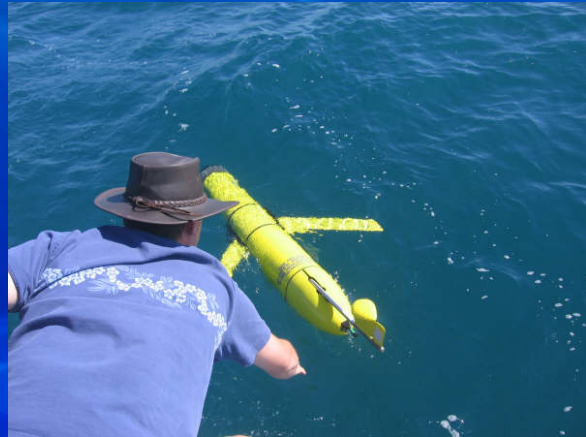
Ecosystem
Services

Product Quality & Value-Adding

- Improving post-harvest quality of sardines through utilisation of flow ice technology
- Intervention strategies to maintain quality in a range of value added products made with under utilised species
- Causes and prevention of flesh mushiness in blue swimmer crabs
- Value-adding southern rock lobster – optimising flesh quality of lobster for the sashimi market

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MISA



Capability

- \$2.3 million on salaries for marine scientists
- 36 positions wholly or part funded
- Expertise in aquaculture, feed nutrition, benthic ecology, oceanography, modelling, climate change, genetics & biotechnology, marine botany, seafood processing, market access, pelagic, cetacean & shark ecology, biosecurity, fish health, marine pests & more...
- Visit: www.misa.net.au

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Infrastructure

- Facilities to support research into sustainable development of state's valuable marine resources
- \$7 million new Lincoln Marine Science Centre, Port Lincoln, a collaboration between Flinders University of South Australia and the South Australian Research and Development Institute
- Proposed development of a temperate marine biosecurity (PC3) facility for disease, pest and pathogen research

COLLABORATION & PARTNERSHIP

Marine Innovation SA, an initiative of the South Australian Government, is a partnership between the South Australian Research and Development Institute, Flinders University, the University of Adelaide, the South Australian Museum and the SA seafood industry.





For more information:

www.misa.net.au

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