

Fishing for ocean data - An industry and IMOS partnership

Véronique Lago

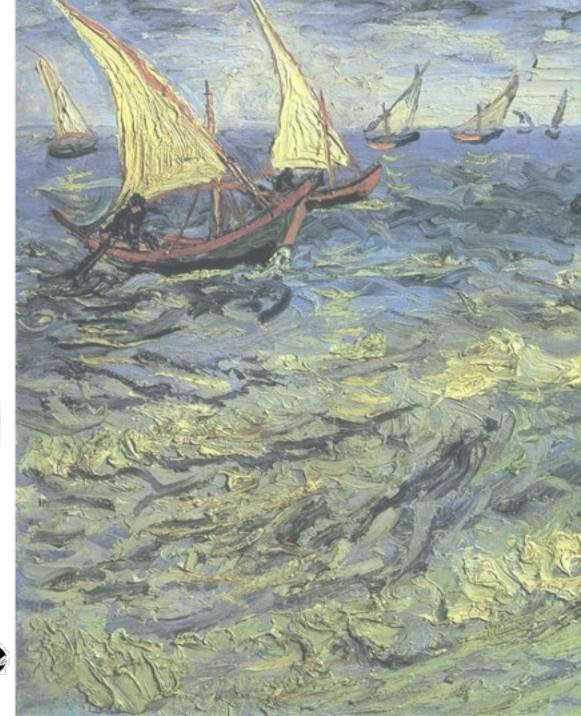
Moninya Roughan, Ian Knuckey, Russell Hudson













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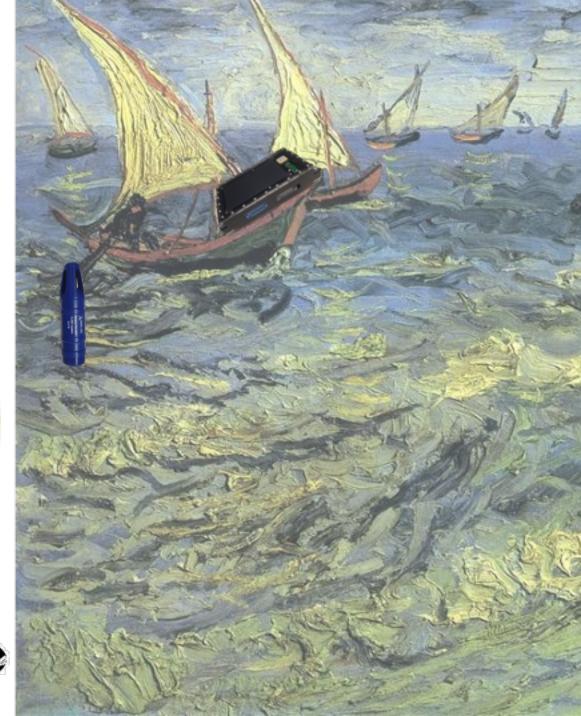
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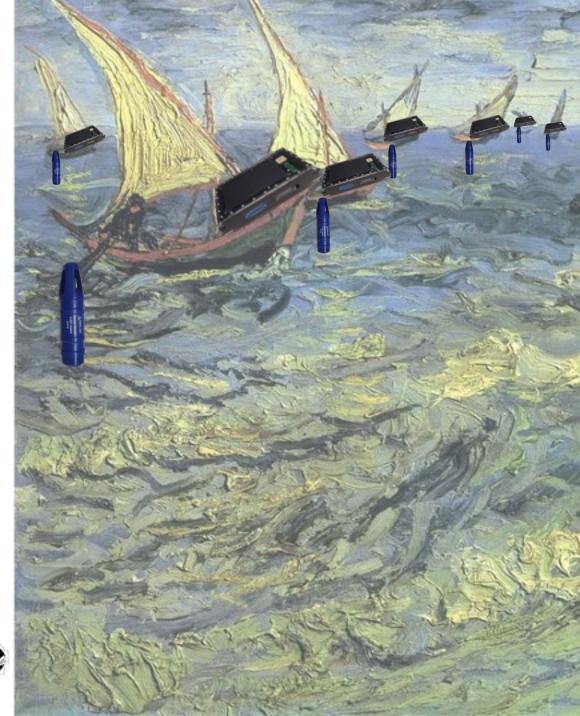
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FishSOOP Project Team



Moninya Roughan Oceanographer



Véronique Lago Ocean Data Scientist



Ian Knuckey
Fisheries Scientist



Russell Hudson Fisheries Scientist











IOC of **UNESCO**

Intergovernmental Oceanographic Commission

Ocean Observations and **Services Section**

Albert Fischer (Head)

Emma Heslop

Ting (Julia) Yu

JCB

Joint WMO-IOC **Collaborative Board**

WMO

World Meteorological Organization

Earth System Monitoring Division

Dominique Berod

(Head)

Champika Gallage

Mathieu Belbéoch

Ship Observations Team

Organigram – 31 May 2023

Zhang

(Manager) Technical

Martin Kramp

SOT

Ship Observations Team

Chair: Huai-Min (John)

Vice Chair: Elizabeth Kent

PMOs

Task Team on Recruitment, Promotion and Training (TT-RPT)

Chair: Joel Cabrie Vice Chair: Mardene DeVilliers

Ad-hoc Task Team on VOS Delayed Mode Data (TT-VOS DM)

Chair: Axel Andersson Vice Chair: Callum Stone(?)

Task Team on Metadata (TT-Metadata)

Chair: Emma Steventon Vice Chair: Richard Cornes

Chair: Jean-Baptiste Cohuet Vice Chair: vacant

Task Team on Key Performance Indicators (TT-KPI)

Chair: Elizabeth Kent Vice Chair: vacant Task Team on Expansion of Independent Class Observations (TT-EICO)

Chair: Darin Figurskey Vice Chair: vacant

VOS Panel (VOSP) Chair: Henry Kleta Vice Chair: Joel Cabrie

SOOP Implementation Panel (SOOPIP)

Vice Chair: Justine Parks

ASAP Panel (ASAPP)

Port Meteorological Officers

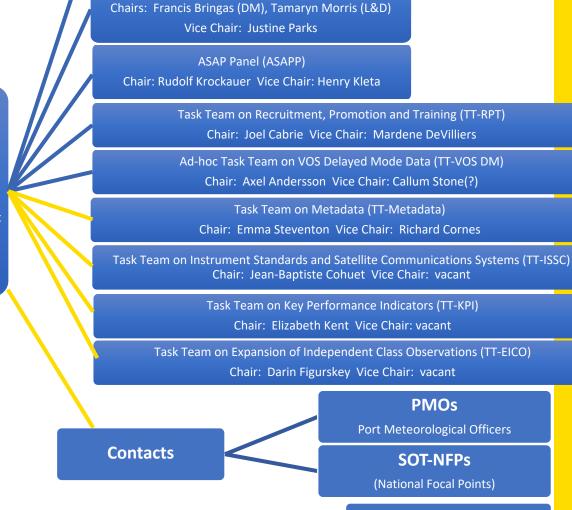
SOT-NFPs

(National Focal Points)

For SOT Joel Cabrie

For DBCP Nelly Florida Riama

Coordinator:



SOT/DBCP Liaison

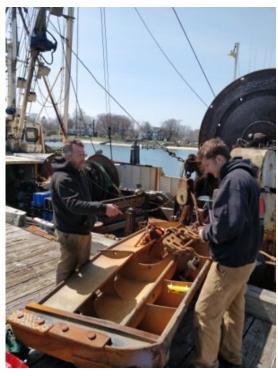
OCG GOOS Observations Global Ocean Observing **Coordination Group** System Chair: David Legler **OceanOPS** Mathieu Belbéoch



Beyond Australia: an International Vision



Salmon trolling South East Alaska



Trawler Long Island NY

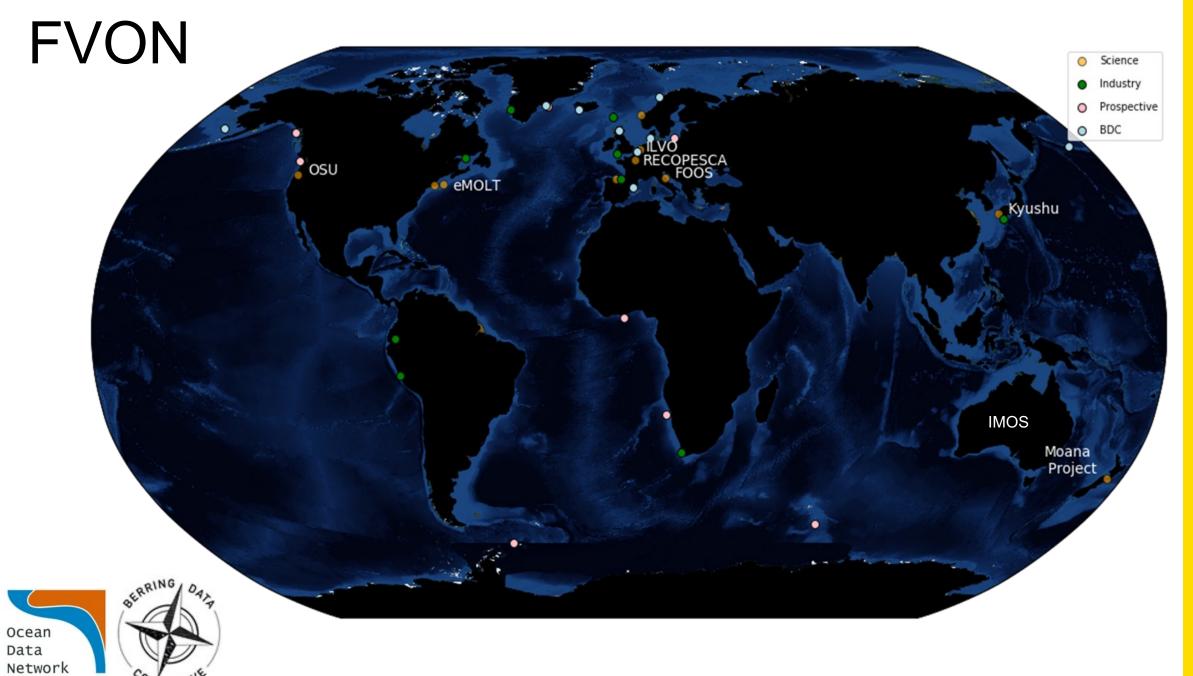


Fishing line New Zealand



Trap New Zealand







International effort

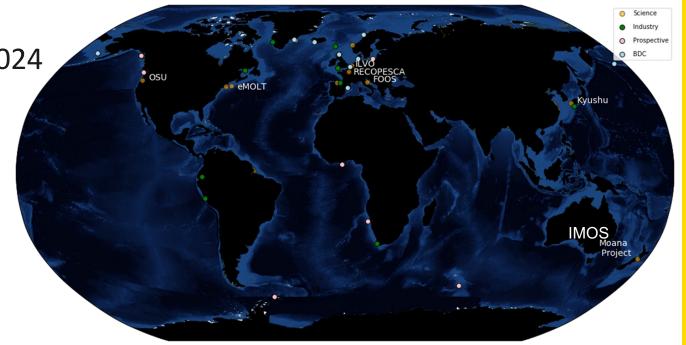
International workshop in Mallorca in July 2023

Applied for GOOS endorsement as an emerging network

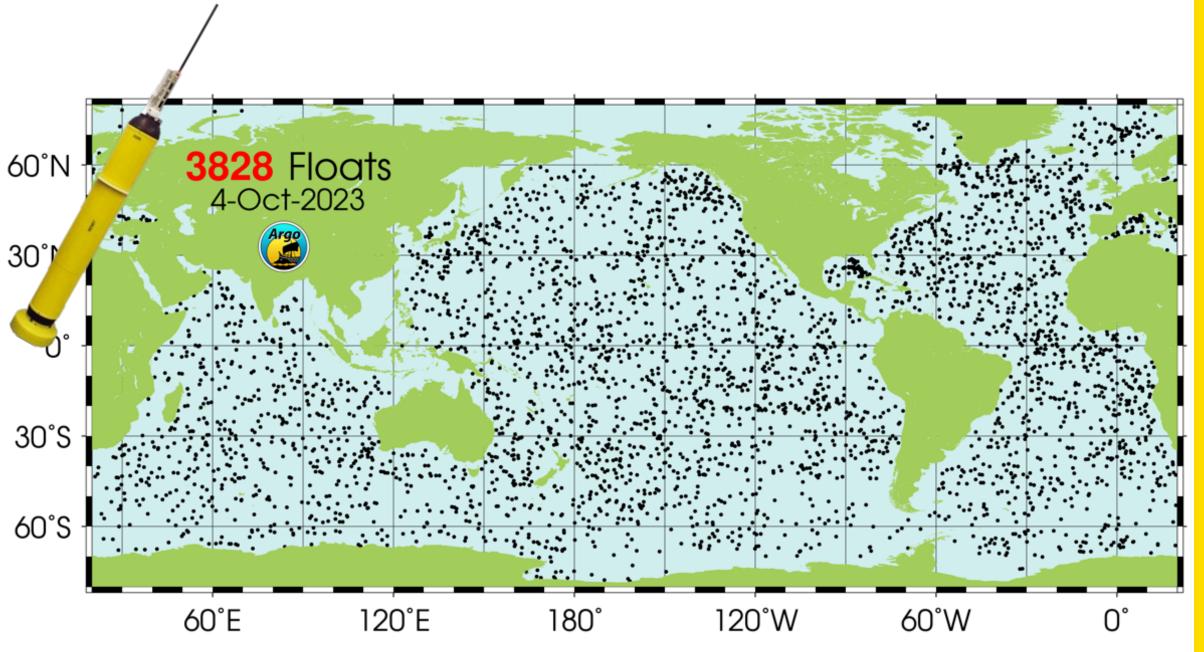
Applied for endorsement as a UN Ocean decade project under coast predict (Model - Data integration)

Special Session at Ocean Sciences 2024

Workshop in New Orleans after Ocean Sciences

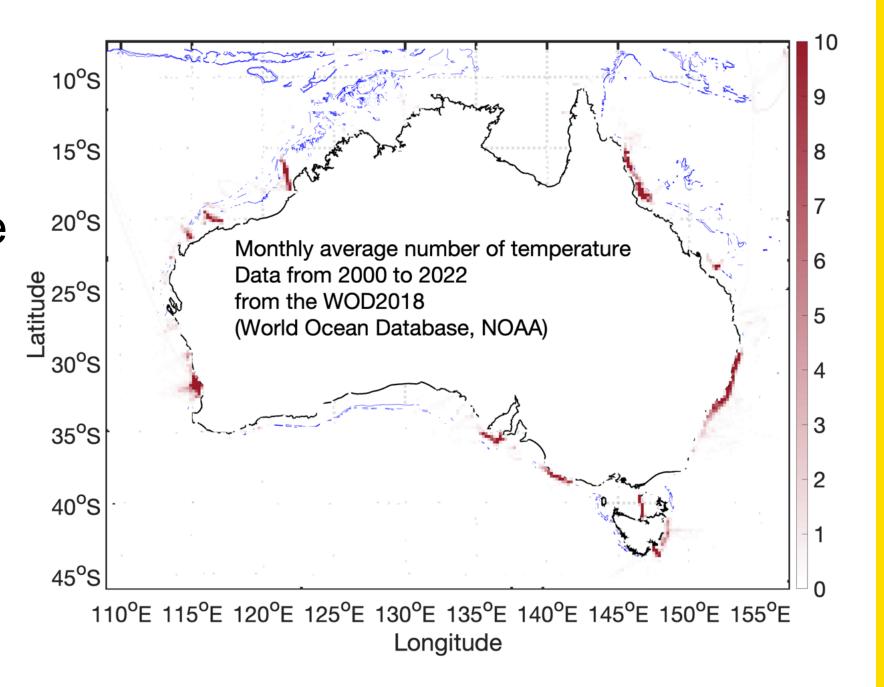




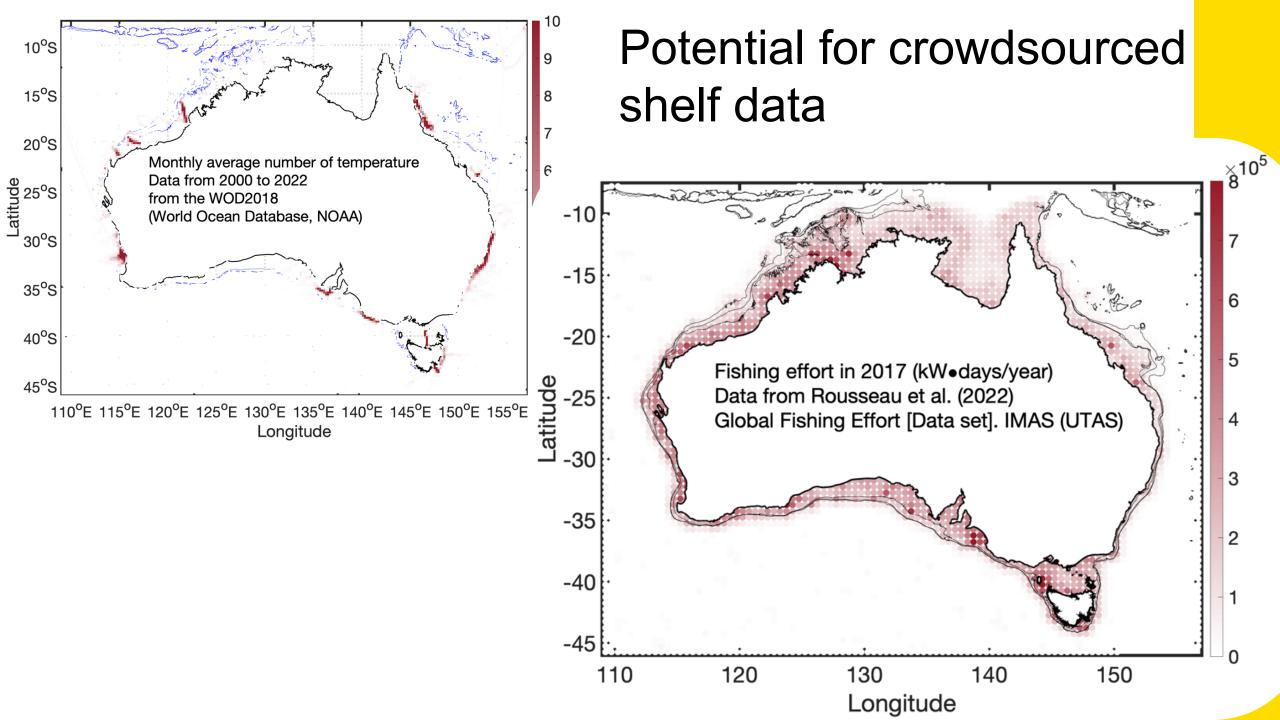




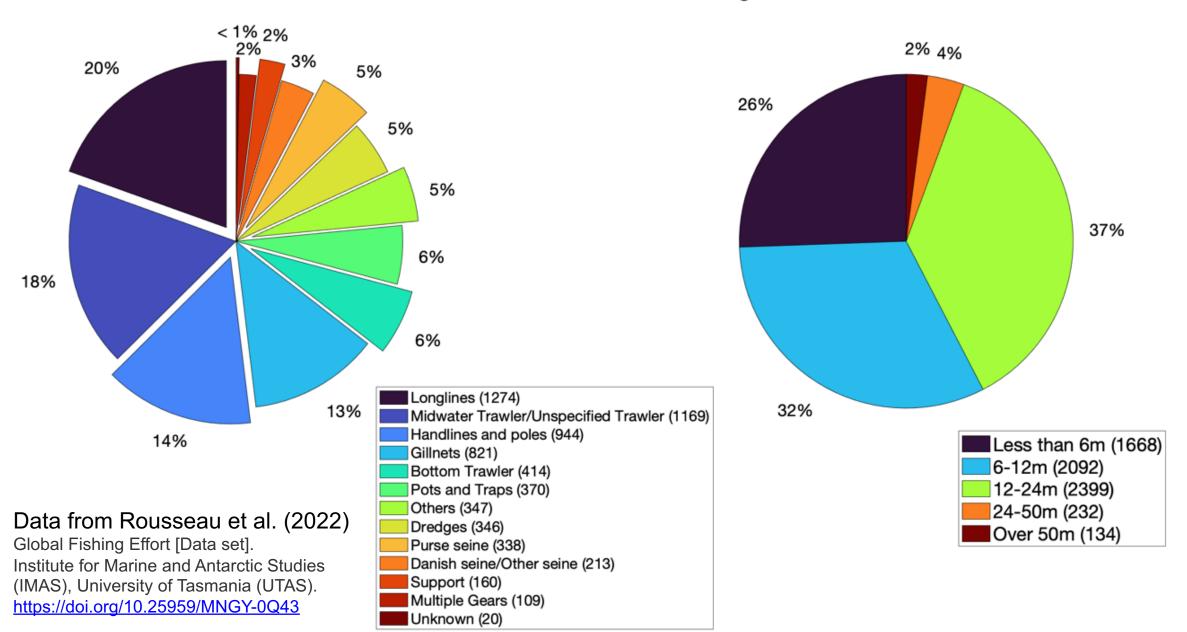
Current monthly temperature data available





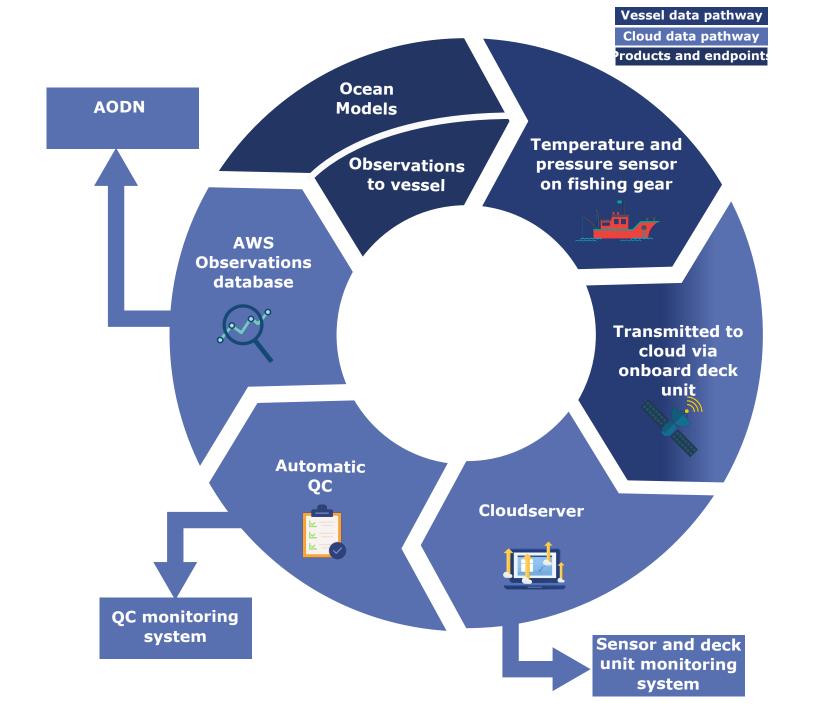


There was a total of 6524 Active Australian fishing vessels in 2017

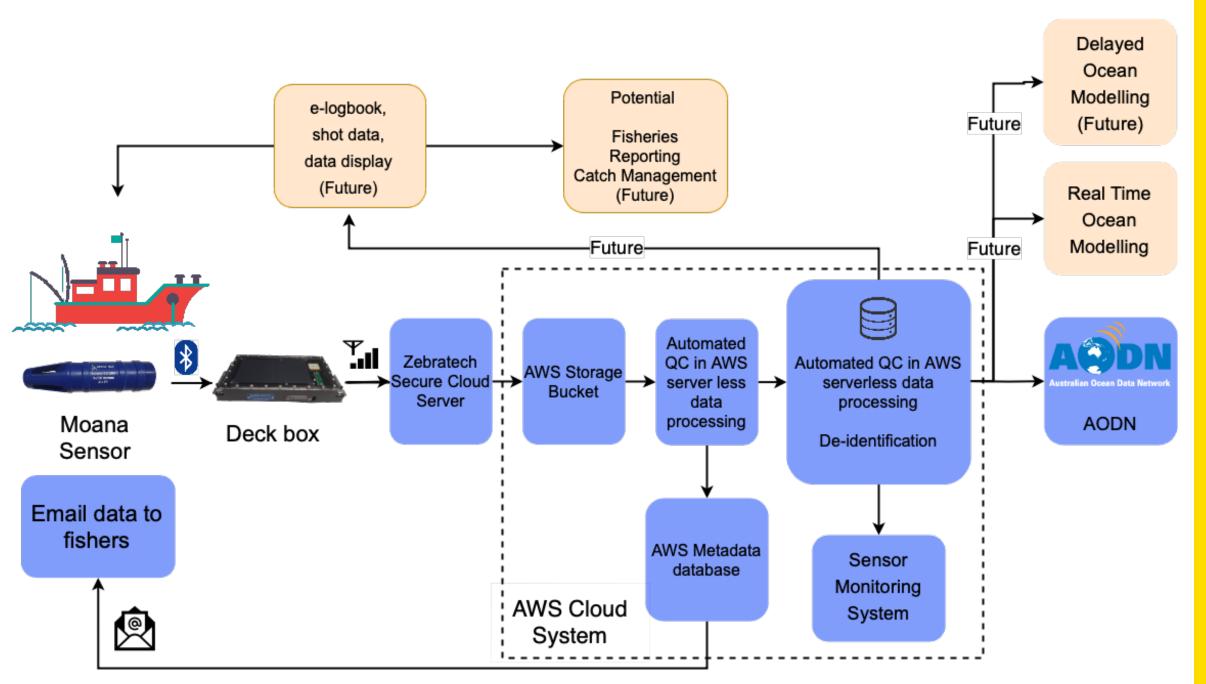


















Our Moanas at work





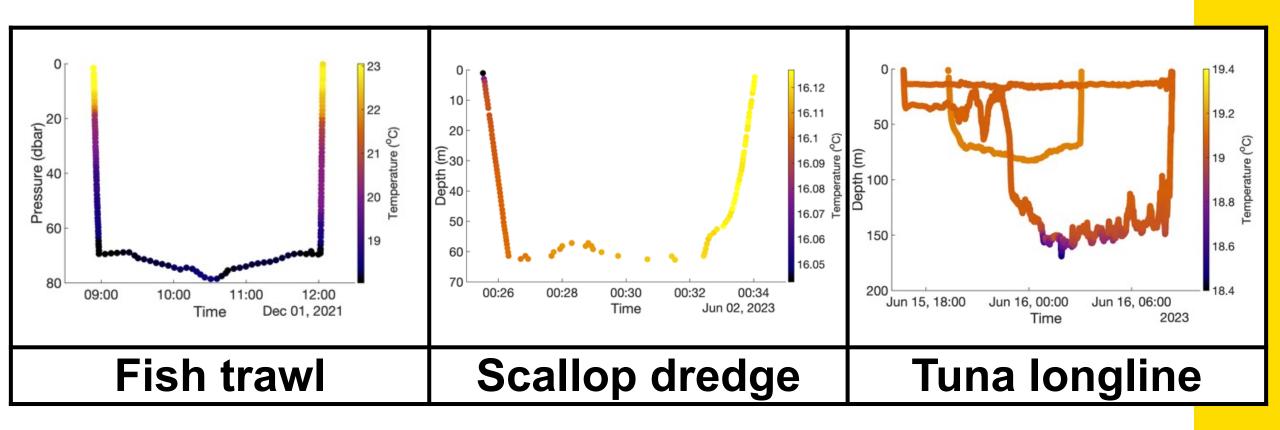








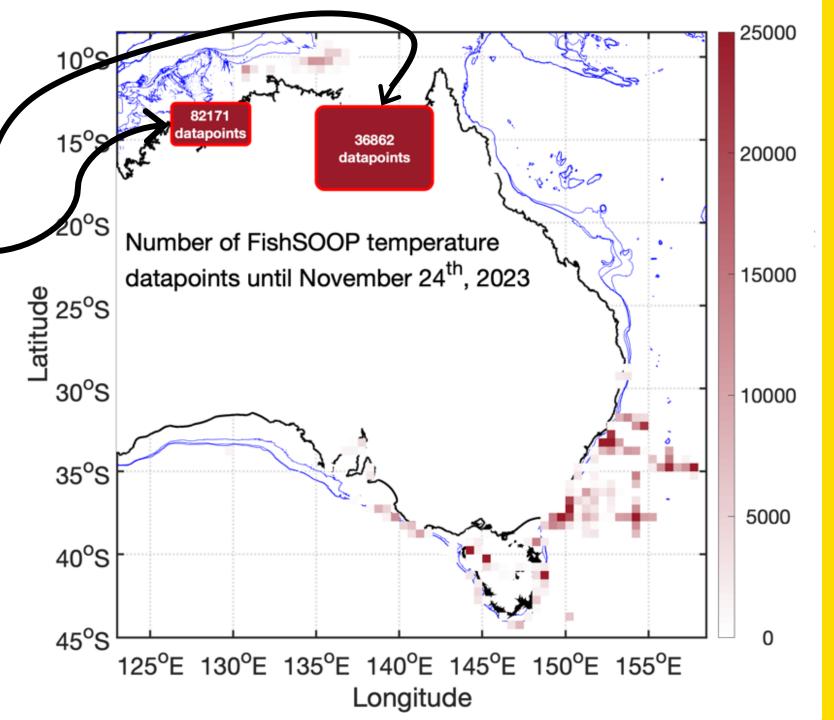
Data profiles for different gears





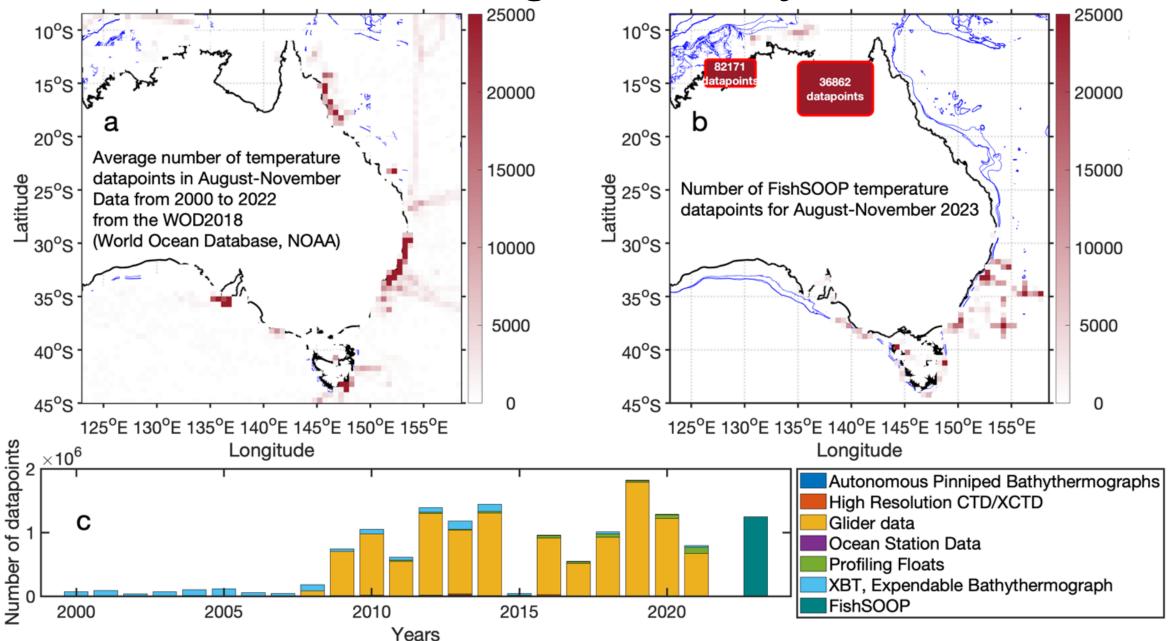
Location available in January 2024

Quantity of measurement from 15 boats signed for the trial



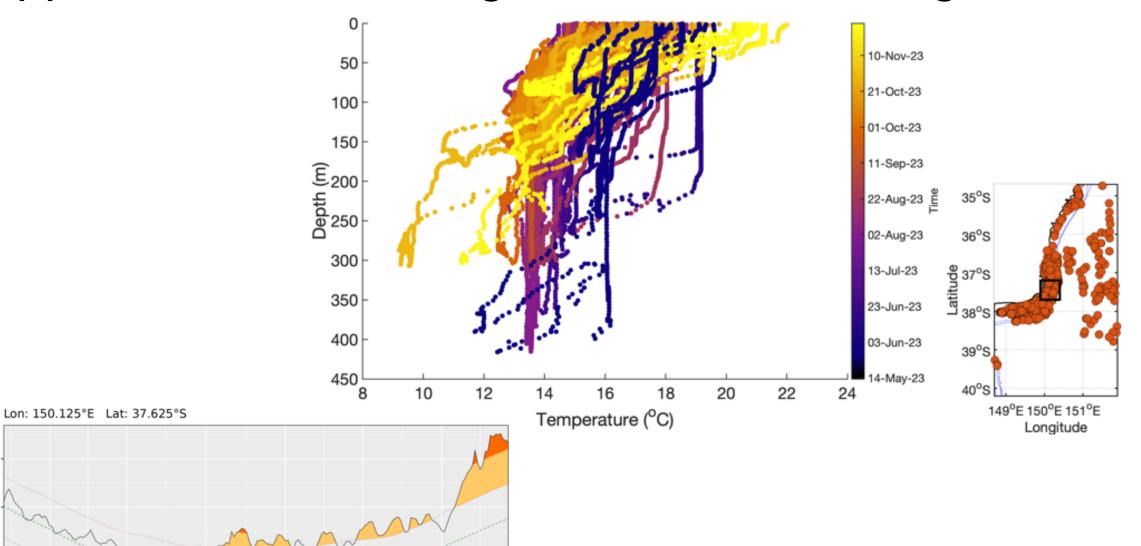


FishSOOP vs average monthly observations





Application – observing MHW where fishing occurs



Jul 2023

Jun 2023

Aug 2023

Oct 2023

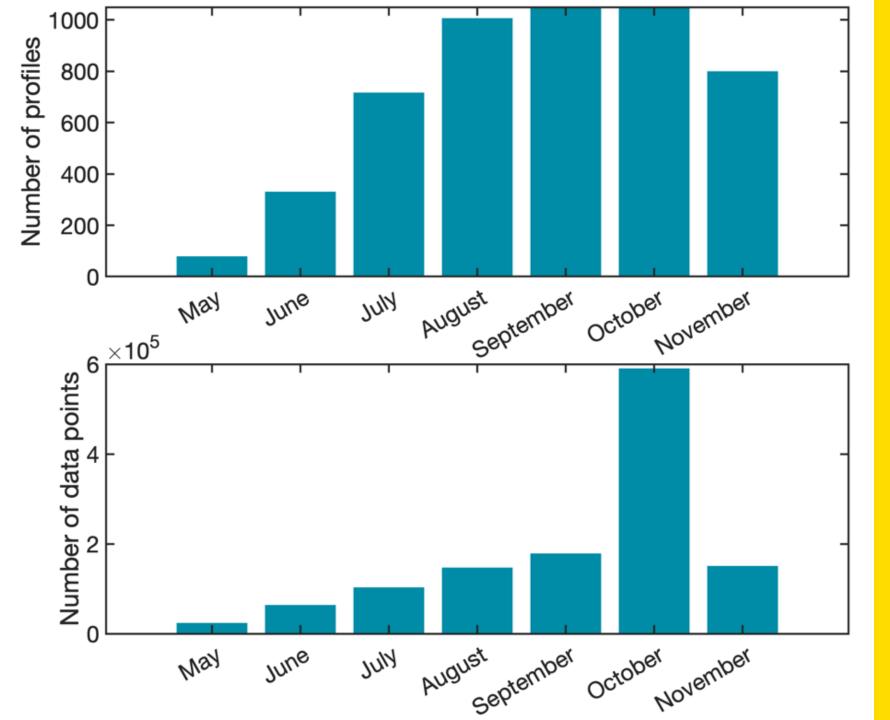
Sep 2023

Nov 2023



Source: marineheatwaves.org

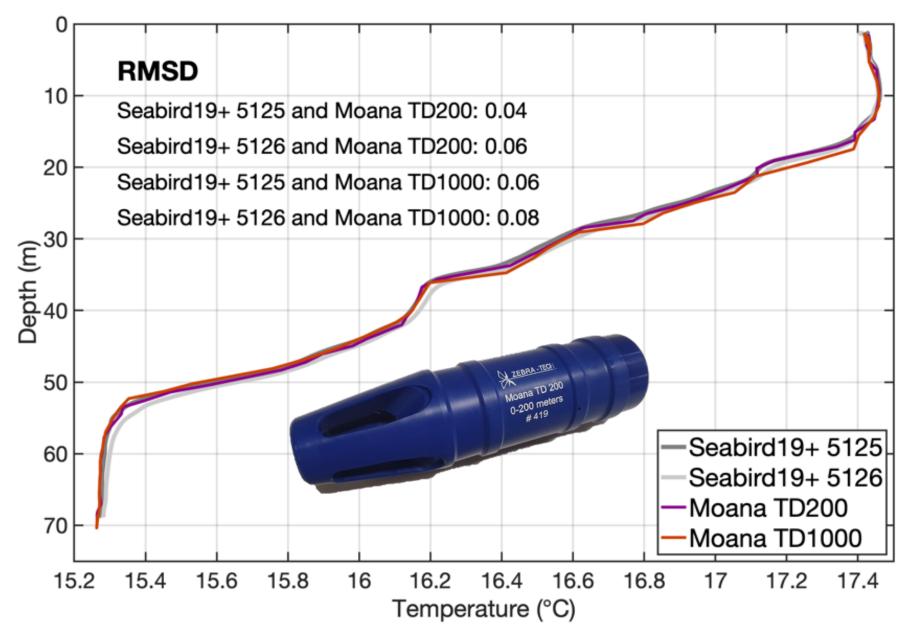
A growing project



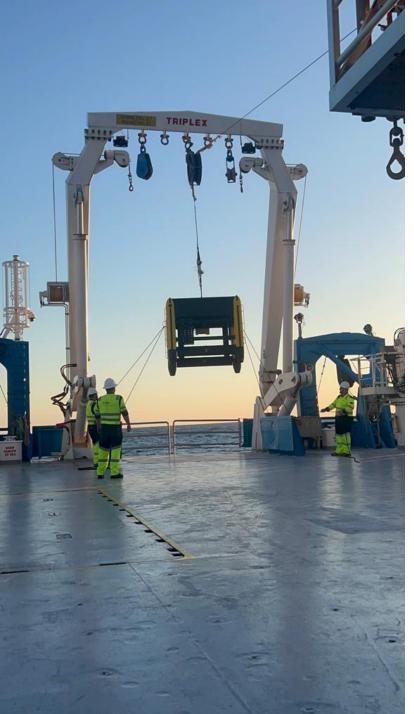




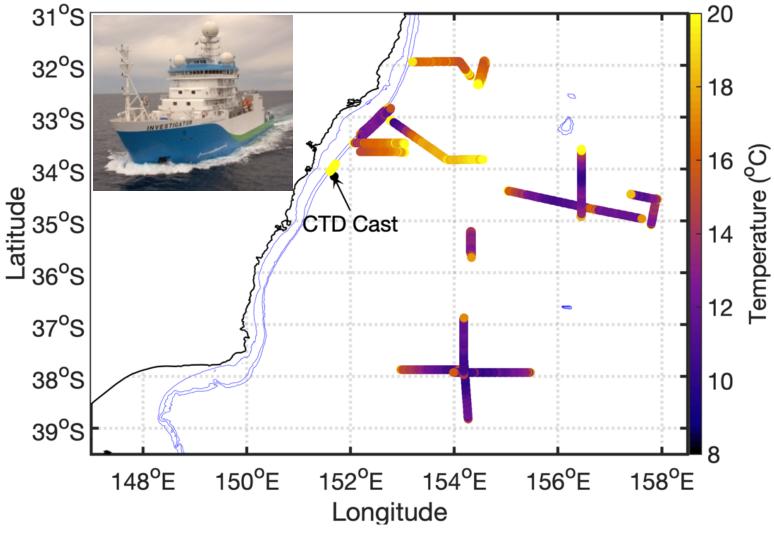
Comparison with Seabird CTD







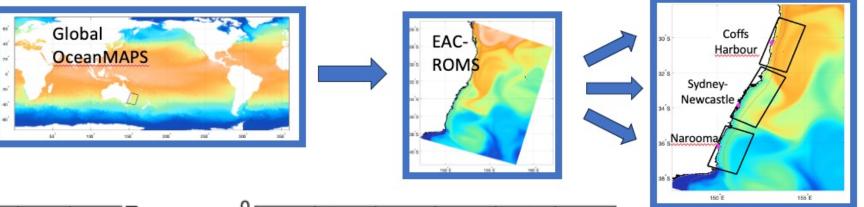
Trials on the RV Investigator

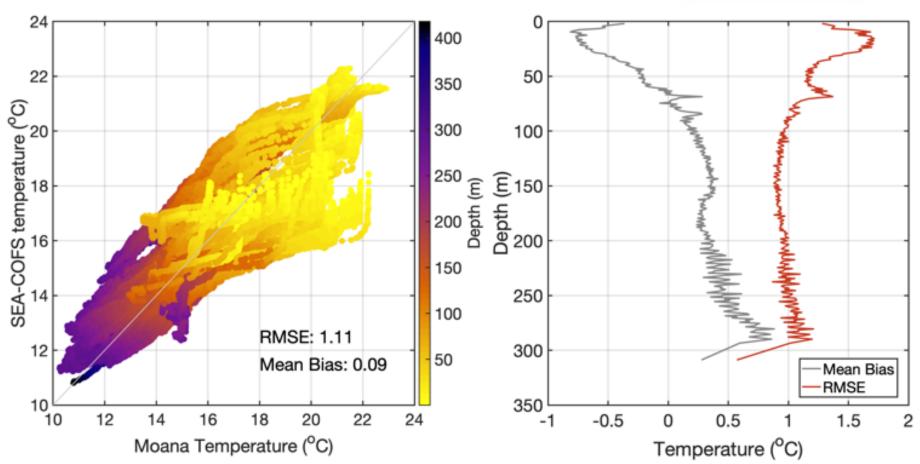




Potential for data assimilation in forecast models

SEA-COFS: An EAC focused forecast model



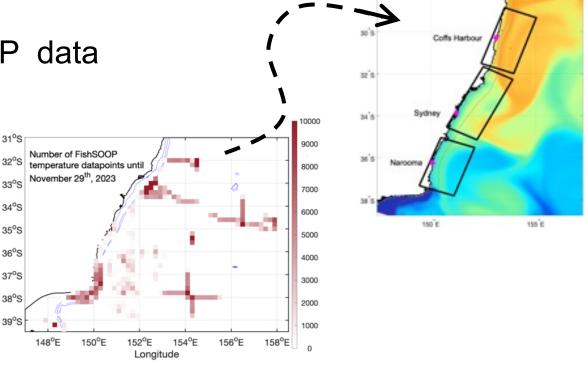




C. Kerry



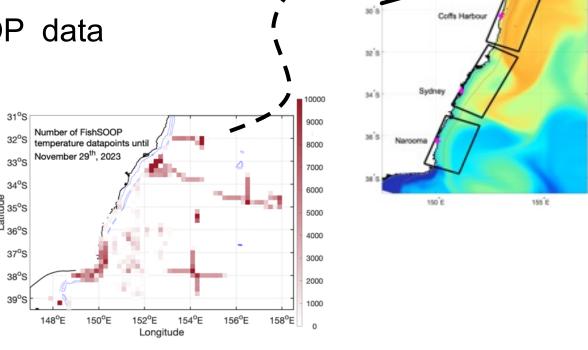
Assimilation in real time of FishSOOP data into the SEA-COFS forecast model





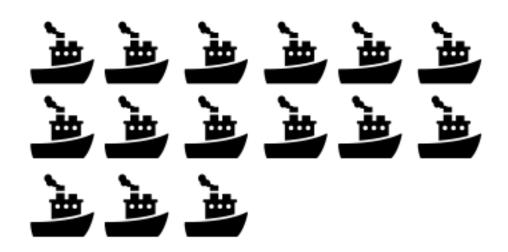
Assimilation in real time of FishSOOP data into the SEA-COFS forecast model

Future work with Coastal ocean modelling Commons (ACCESS-NRI)



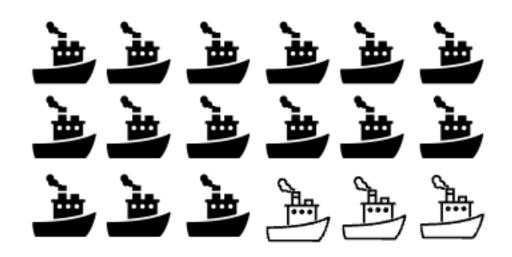






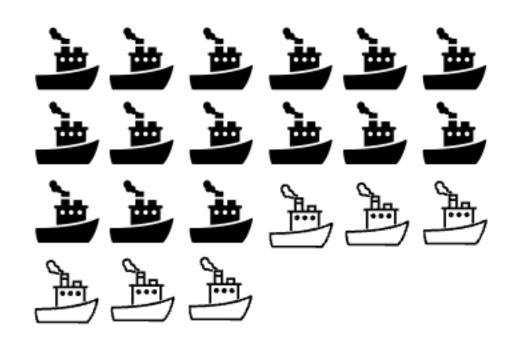


3 boats pending



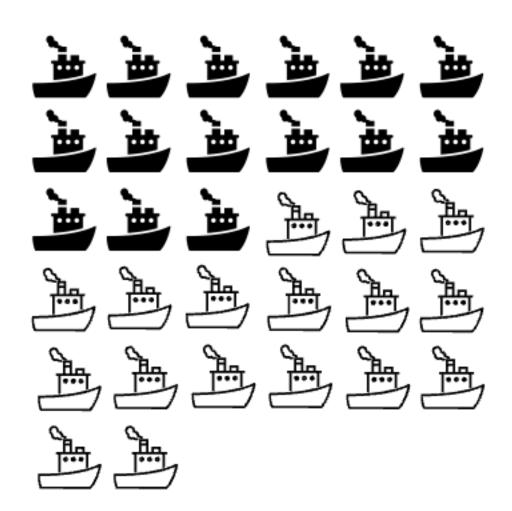


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- 3 boats for the Northern Territory



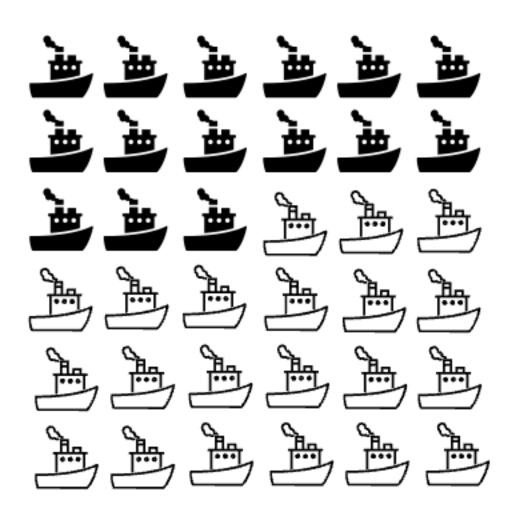


- 3 boats pending
- 3 boats for the Northern Territory
- 11 boats for FRDC and AFMA



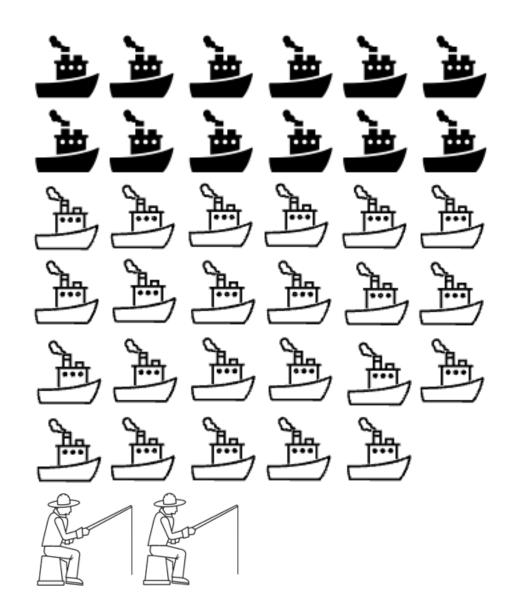


- 3 boats pending
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- 4 boats for University of Sunshine Coast, Tuna Australia between Noosa and Eden



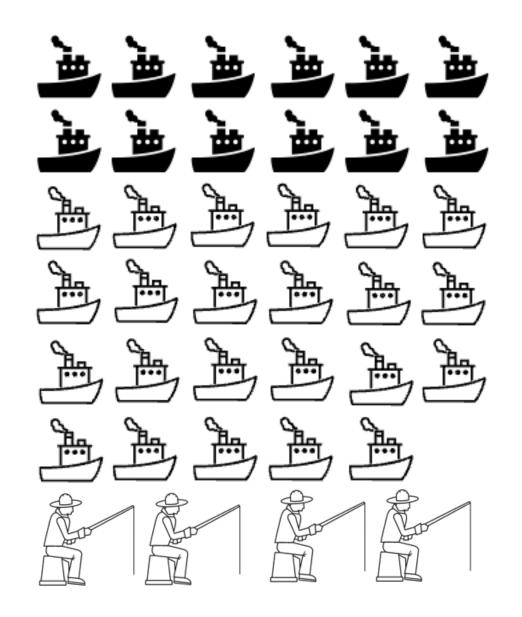


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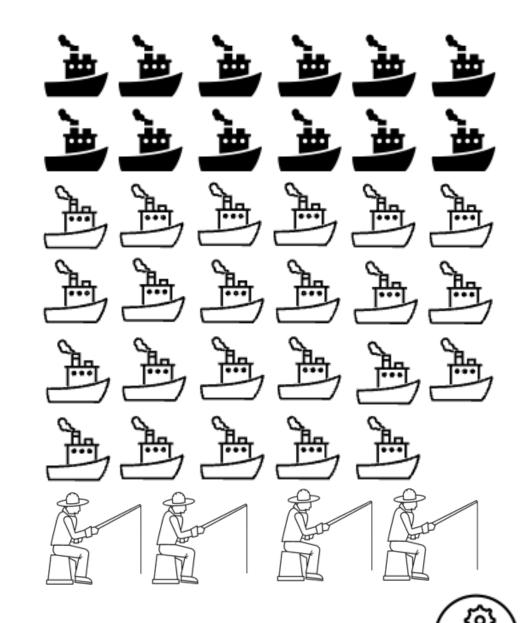


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We are looking for an Honours student or PhD student to work between us and the NT group



©

Looking forward to continue building this Industry-Research collaborative international effort





































