

PCCOS : The Pacific Community Center for Ocean Science

New opportunities and emerging
projects

Katy Soapi & Jerome Aucan

Outline :

- History and context
- Objectives
- Structure
- Examples of actions

PCCOS Timeline

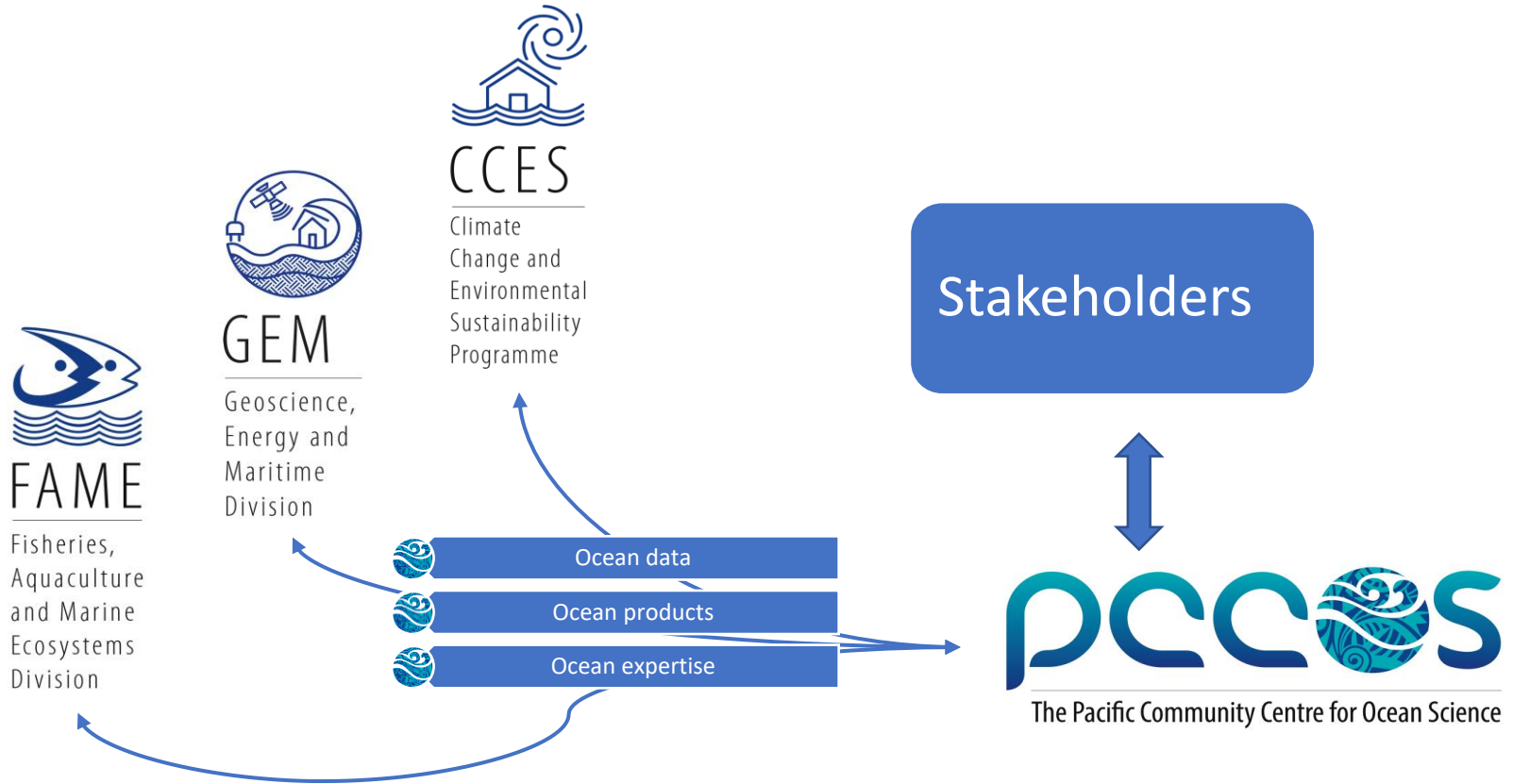
2017 : The 10th Pacific Community Conference agreed to establish the Pacific Community Centre for Ocean Science (PCCOS) to be hosted at SPC and become a true flagship for scientific excellence and a dedicated regional science information and knowledge hub.

2019 : Inception of PCCOS with MFAT funding. Laying the foundation,

2021 : Implementation of PCCOS : Hiring of PCCOS Head and Coordinator

PCCOS 3 broad goals :

1. PCCOS aims at facilitating and promoting cross-divisional engagement and cooperation internally at SPC for a better-integrated service to its members and continued building of ocean science excellence at SPC.
2. PCCOS will actively contribute to strategic partnerships in ocean science with a large number of institutions and initiatives at the national level, regionally (particularly with other CROP agencies) and internationally.
3. PCCOS will coordinate the approach with government agencies responsible for implementing ocean policies and tracking progress against SDG 14.

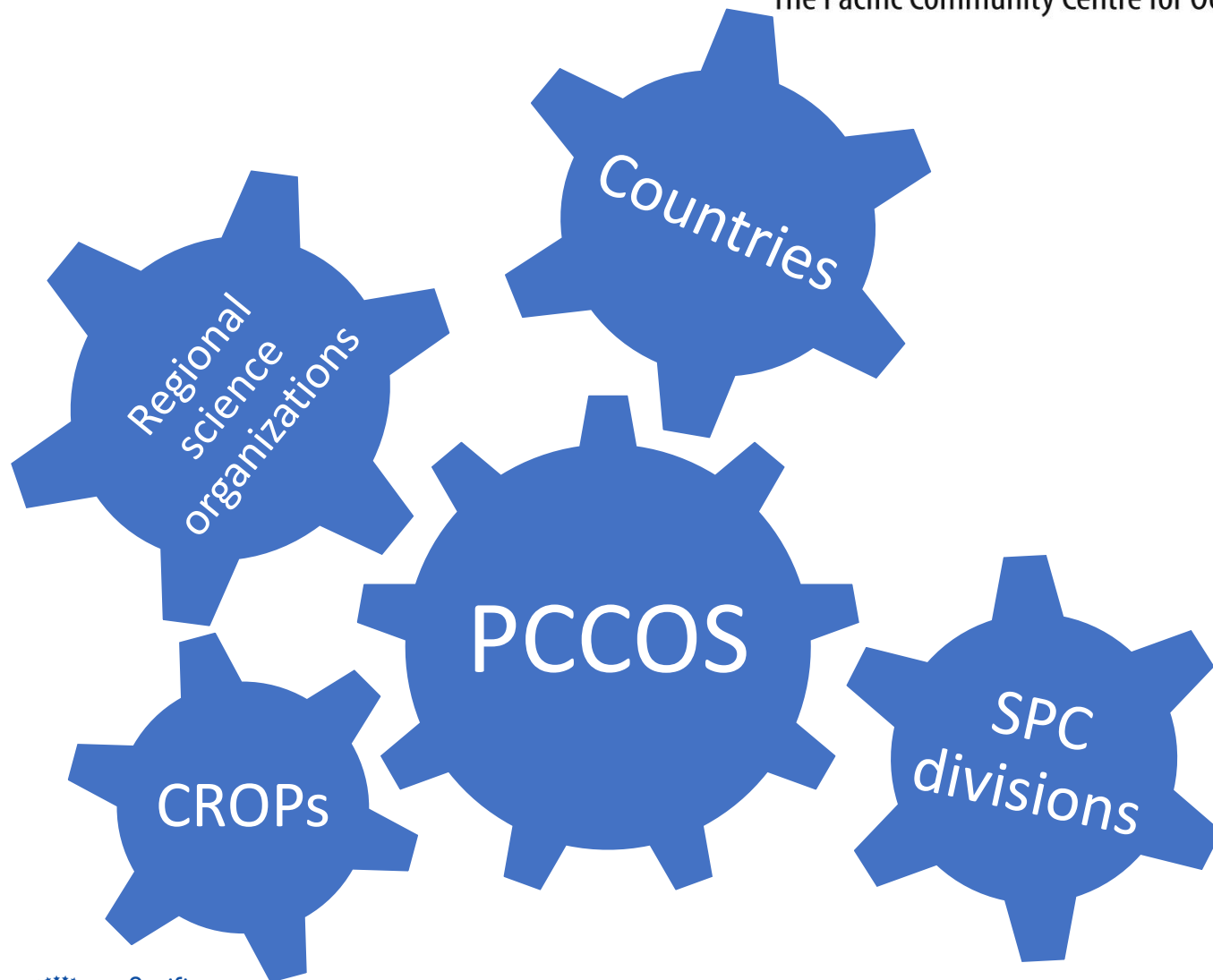




Pacific
Community
Communauté
du Pacifique



The Pacific Community Centre for Ocean Science



NIWA
Taihoro Nukurangi



Pacific
Community
Communauté
du Pacifique

SPC-NIWA Webinar series, August 10 2021

improving collaboration and coordination within SPC
to make sure that PCCOS is greater than the sum of its parts...

will
better

Provide access to ocean data, information and knowledge

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Strengthen partnerships for ocean science, exchange
between PICTs, and PICT voice at global fora

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Develop capacity of member states to understand and use science
for integrated ocean governance through policy and planning

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More effective implementation of science-based ocean governance
and management by SPC's members

and

Sustainable management of ocean resources for the blue Pacific
continent (wellbeing, equity, prosperity and resilience)

PCCOS HR structure:

Full-time :

- Head (Science lead) : Jerome Aucan
- Coordinator (Engagement and Partnerships) : Katy Soapi
- Project advisor (MEL, Communication) : Pierre-Yves Charpentier
- Science officer (models,data) : In recruitment

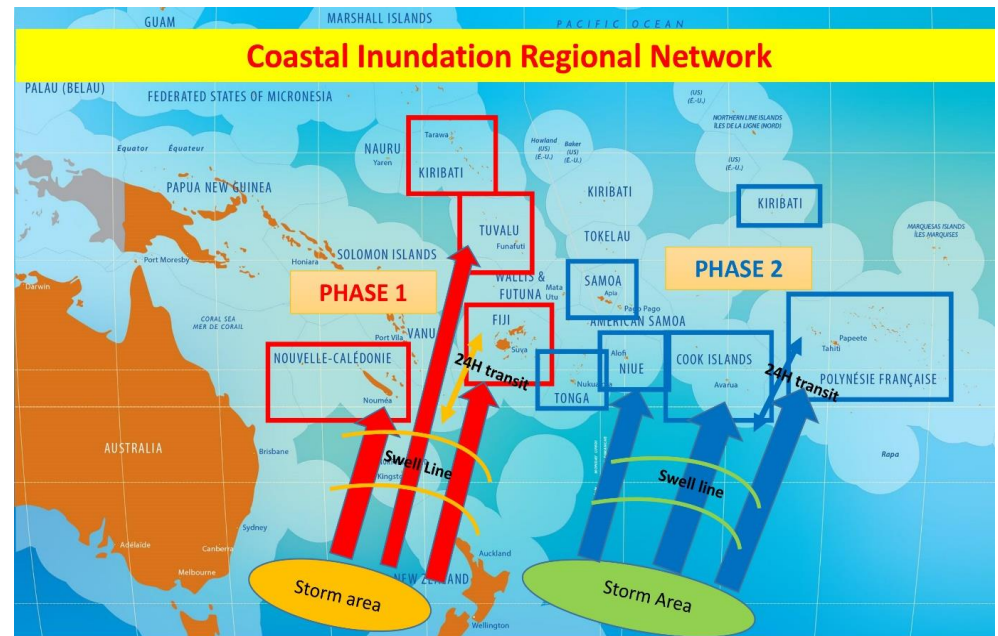
Part-time :

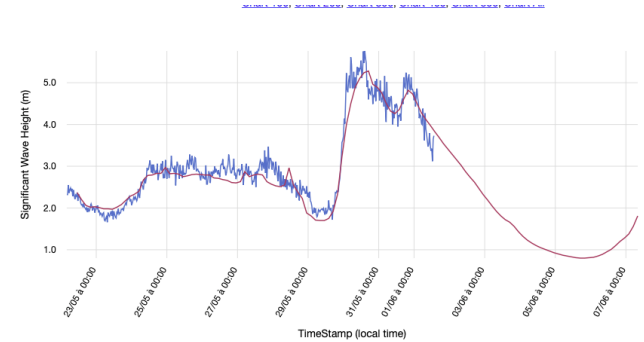
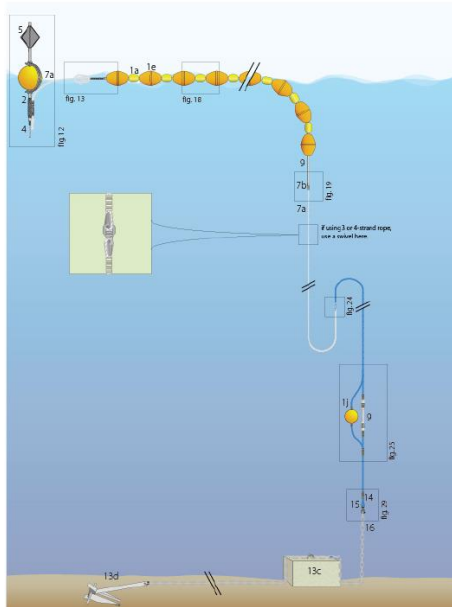
- Communication
- Finances
- Project assistance

- Wavebuoy and DCP concept testing and implementation
- Nearshore modelling for coastal fisheries in Kiribati
- Multi-level data and model access portal for ocean products, within the Pacific Data Hub
- SPC Research vessel project design
- NIWA vessel opportunity
- OA regional training center
- United Nations Decade of Ocean Science for Sustainable development
- BBNJ and PSIDS engagement

Focus : Wavebuoys and FADs

- Wave buoys are a key element in Early Warning Systems.
- Wave buoys are complicated to deploy and maintain.
- FADs benefit from years of experience in terms of mooring resilience.
- Wave buoys provide sea state information and FAD gear monitoring

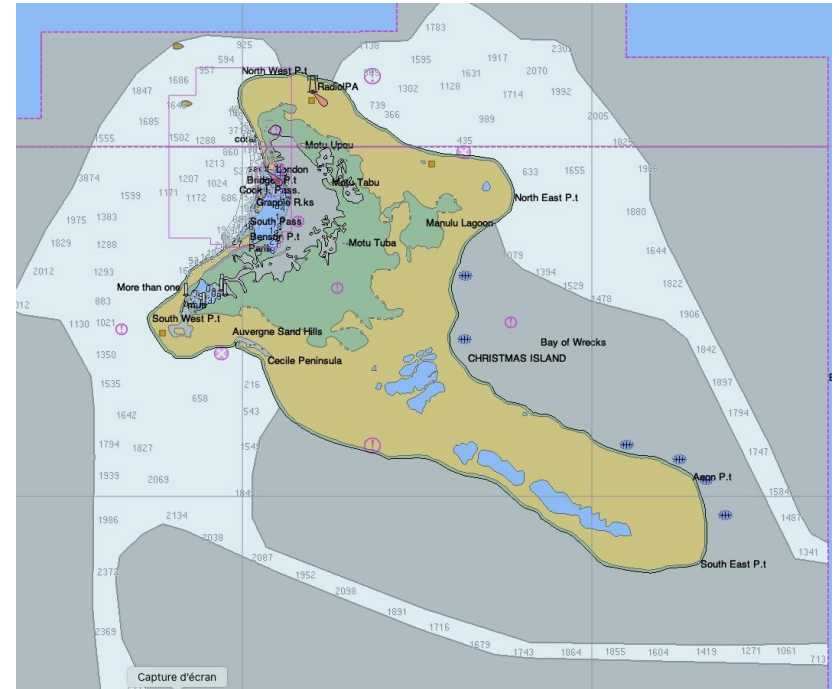
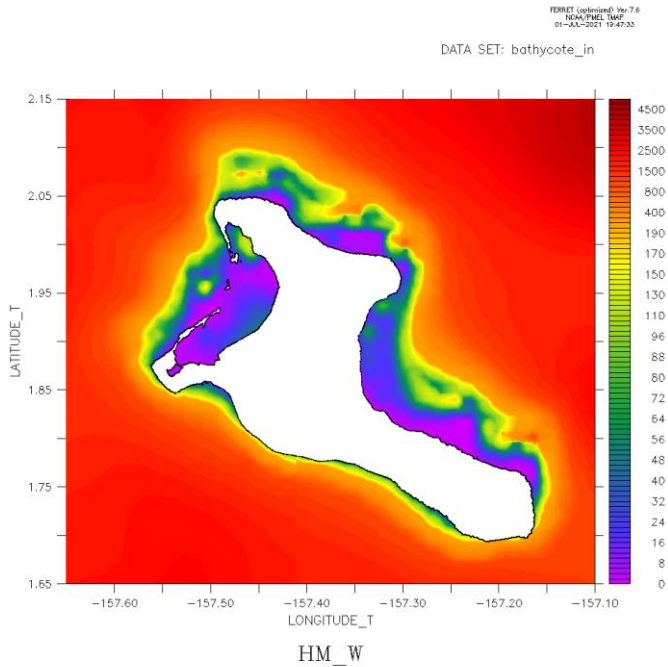




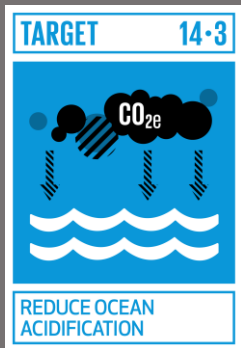
Test Site : "Uitoe pass" , outside the New Caledonia lagoon, 1500m water depth.

Continuous operations since 3/3/2021, including impact of cyclone Niran (7.1 m recorded wave height)

Kiribati modeling



Regional training hub for Ocean Acidification in the Pacific islands



Regional and National Policy frameworks



2016 SDGs

SDG14.3
Minimize and address the impacts of ocean acidification, including through enhanced scientific cooperation at all levels

Pohnpei Ocean Statement: A Course to Sustainability

Decision 4 & 6 – investments in science and research ...minimise and address the impacts of ocean acidification

2010 Framework for a Pacific Oceanscape FPO

“Adaptation to Environmental and Climate Change’ Strategic Priority 6: Adapting to a rapidly changing environment:

National Ocean Policies



Regional training hub in the Pacific islands

Donor: The
Ocean Foundation
/ NOAA

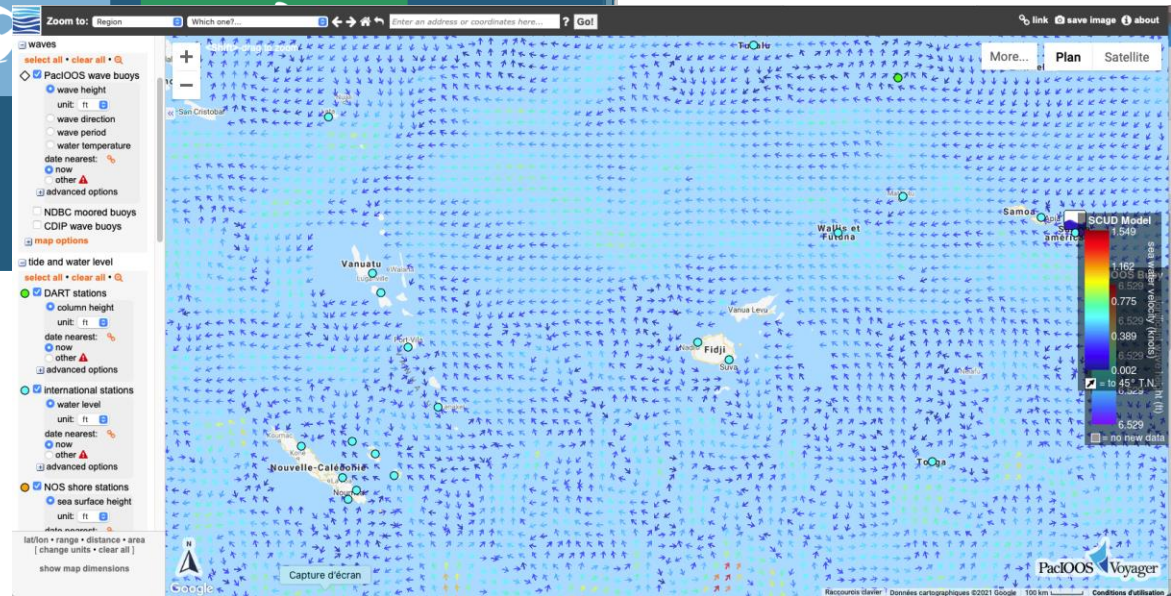
ROLE of the HUB

- Host regional trainings to develop and support regional expertise in monitoring ocean acidification (and other variables) with the GOA-ON in a Box kits
- House and maintain research equipment (including spare parts) for training researchers on Ocean Acidification monitoring in the Pacific islands
- Provide ongoing training support for the monitoring programs in the Pacific Islands through a mentor-mentee approach of mentoring.
- Support Data collection and OA monitoring activities
- OA Data management in collaboration with NIWA, Otago and USP including submission of Data to IOC.

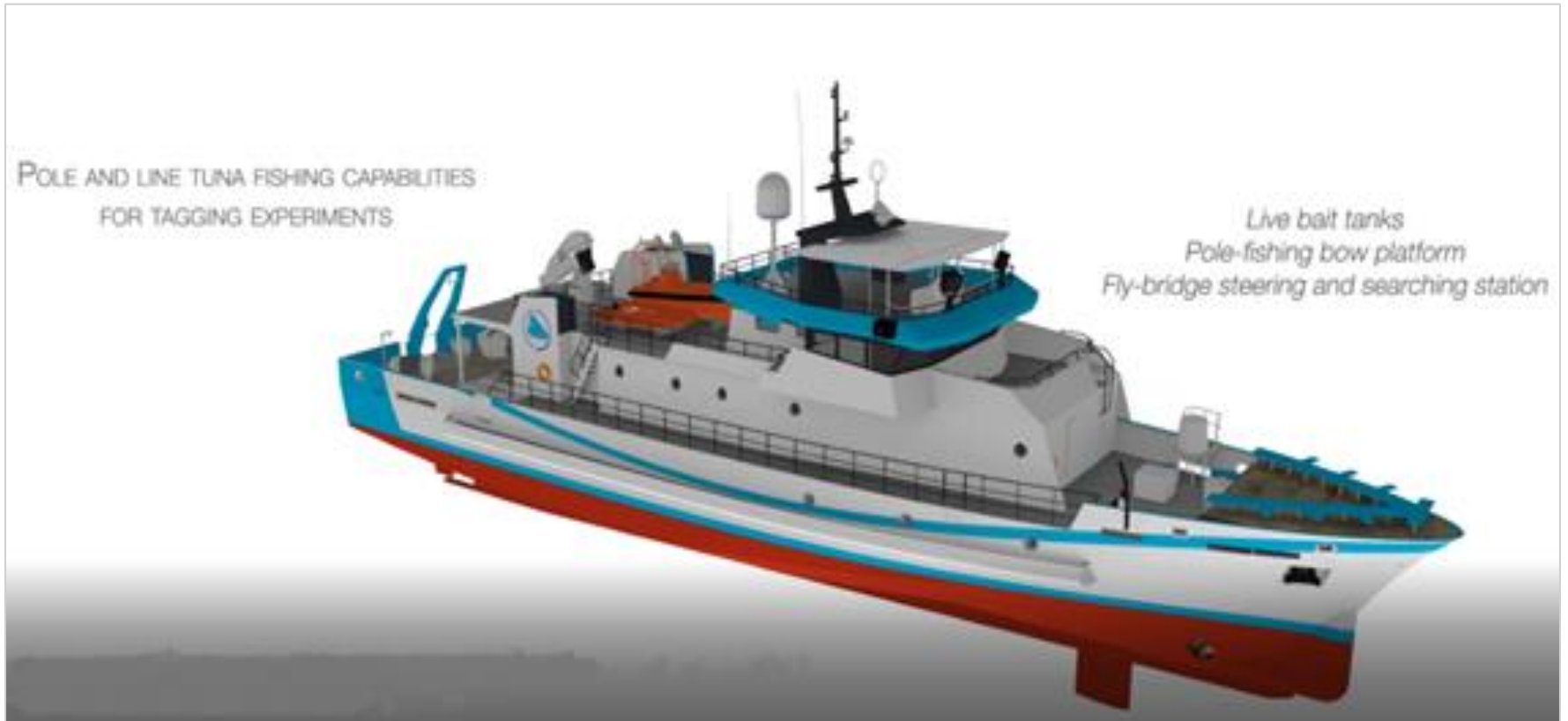


NIWA
Taihoro Nukurangi





A SPC Research Vessel for the Pacific ? for fisheries and ocean science



Process for the next 12 month

LOOKING FOR ENDORSEMENT AND / OR REVISIONS



BOAT AGENDA

- Tagging (60 to 90 days)
- Ecosystem sampling (30 days)
- Letters of intention from:
 - Other SPC needs (CFP, GEM)
 - External scientific organisation (IRD, RVONZA,)
- Other region needs ?
- SPC-led scientific missions through PCCOS

GOVERNANCE

- Management company for day to day admin
- SPC control of ship scheduling
- Define an advisory board of governance with CROP members
- Scientific advisory board

FINANCES

- What do we need
- Letters of support

FUND RAISING OPTIONS

- UN Decade of Ocean Science (Berlin, 31 May)
- COP 26 (Glasgow 1 Nov)
- ?

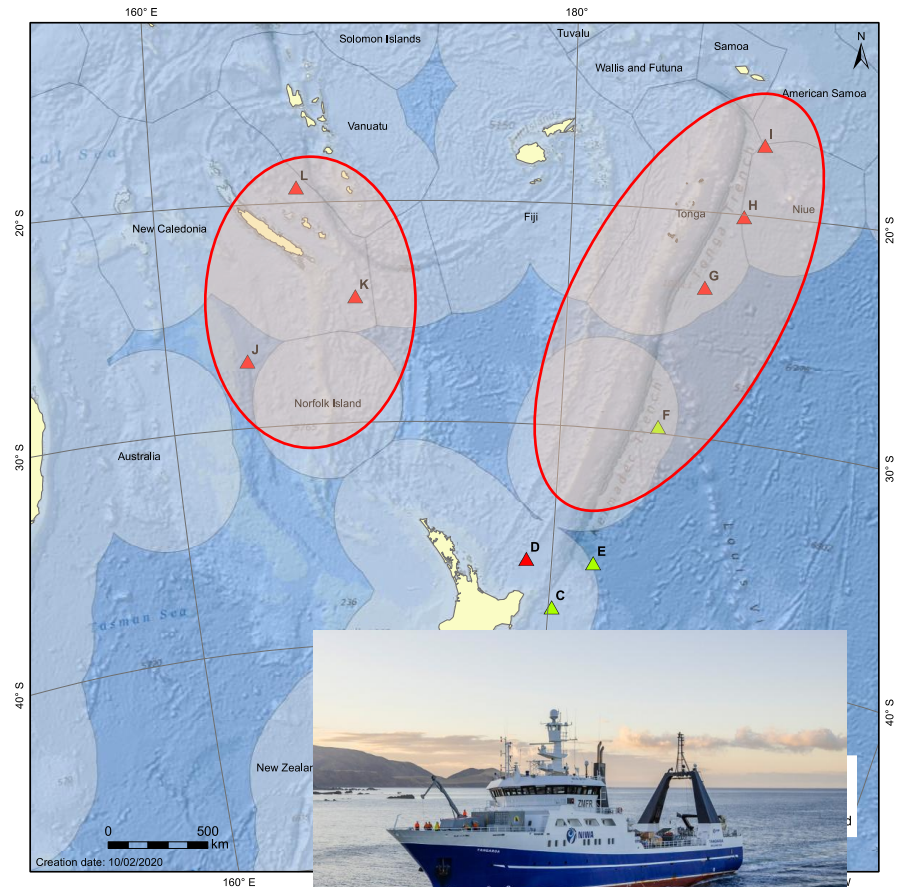
CONSULTATIONS

- PNA members
- South Pacific members
- HOF
- WCPFC

Use of RV Tangaroa during yearly DART buoy service

Potential Activities

- Tuna ecosystem cruises
- Floating universities
- Seafloor surveys



Building Regional Ocean Science Capacity



Pacific Early Career Ocean Professionals

- Develop and share knowledge and skills among ECOP peers and with senior researchers and project partners.
- Benefit from Decade-wide networking, resources and new opportunities to gain professional experience, including interdisciplinary experience
- Be recognized for their contributions to the Decade of Ocean Science and build their capacity for ocean leadership.

| Virtual Early Career Ocean Professional (V.ECOP) Day |

JOIN OUR Stewards of the
Blue Pacific: Pacific Early
Career Ocean Professionals

For a live discussion on their work,
experiences and contributions toward a
healthy Blue Pacific Ocean

Register Now!
vecop.vfairs.com/en/register



Kushaal Raj **Nicole Yamase** **Lysa Wini** **Fiafia Rex**



2021 2030 United Nations Decade of Ocean Science for Sustainable Development

Vision

The science we need
for the ocean we want

Mission

Transformative ocean science solutions for sustainable development,
connecting people and our ocean

Go to oceansdecade.org for the Implementation Plan

 **2021** United Nations Decade
2030 of Ocean Science
for Sustainable Development

Decade Action Framework



National Ocean Policies: timeline



Pathway to the ocean we want

FPO, 2010:

- little progress on ocean governance
- no national ocean policies
- no dedicated national institutions

2016 Cook Islands Marae Moana Policy	2016 Vanuatu's National Ocean Policy	2018 Solomon Islands National Ocean Policy	2020 Samoa Ocean Strategy	2020 PNG Nationa l Ocean Policy	2020 Niue Moana Mahu regs.	(2021) Fiji's National Ocean Policy

Analysis of NOPs shows that all include the principles of, and aspire to the implementation of, **Integrated Ocean Management**

Pacific solutions to save our ocean

“we seek to save our Blue Pacific and provide solutions to our existential challenges

Officially Endorsed Action



Focus:

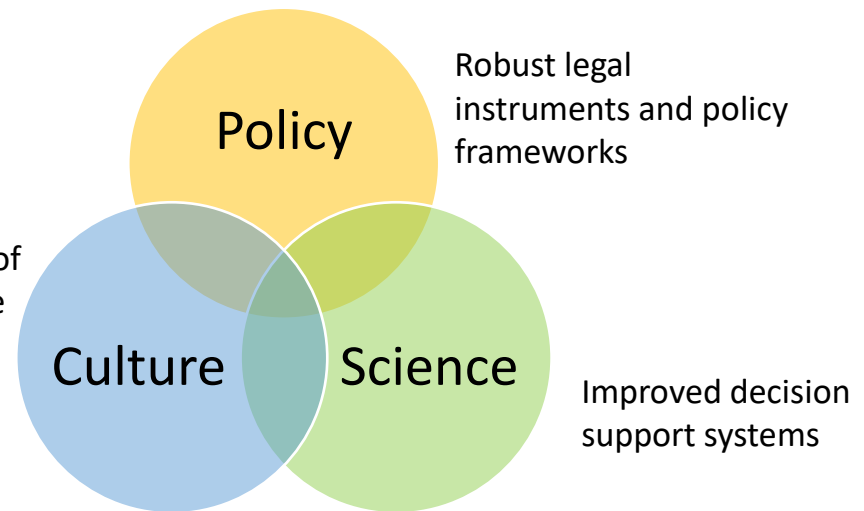
Support the implementation of national ocean policies and a joined-up approach to Integrated Ocean Management (IOM) across the Pacific

Objective:

Harnessing science and knowledge (including Traditional Knowledge) for IOM

Outcomes:

Actions are inclusive of traditional knowledge



VAKA MOANA: A JOURNEY TO AN INSPIRING AND ENGAGING PACIFIC OCEAN



190 Participants
14 countries

4 Pacific poets and composers

kathy jetnil-kijiner PETER SIPELI CALVIN RORE TYLER-RAE CHUNG

6 Amazing Panelists

Evelyn Ikelau Otto Professor Upolu Vaai Tekau Frere

Larry Raigetel Mia Kami Tagaloatele Professor Peggy Fairbairn-Dunlop

PCCOS Engagement

1. SPC internal
2. Regional/National
3. International

BBNJ and PSIDS Engagement

- **Contribute through direct consultation: Regional & International workshops**
- **Virtual consultations and webinars**
- **AOSIS engagement**
- **SPC PSIDS engagements**



- For SPC, when should you think of PCCOS? PCCOS can help with the following
 - Ocean science/data/products developed for a specific division project, but could be used by other projects or other division
 - Ocean science/data/products developed for a specific division project for a specific area (as a pilot or not) but could be extended to other member countries.
 - PCCOS will serve as repository for ocean data/products created during projects and provide maintenance and expertise for these, after the end of the project.

- For SPC, when should you think of PCCOS? PCCOS can help with the following :
 - Engagement with a country that requires activities outside of the division usual scope.
 - Engagement with a country where PCCOS can add value to a project.

- For NIWA or other regional science partners, when should you think of PCCOS? PCCOS can help with the following :
 - PCCOS can be a catalyst for regional collaborations (e.g. the regional OA Hub).
 - PCCOS can add value or bring additional expertise to existing projects (e.g. Tangaroa DART Cruises).
 - PCCOS can facilitate UN Decade activities (Decade Collaborative Centre)

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Thank you

