



## NZOAC and PI-TOA Newsletter

Only three weeks to go until the annual NZOAC conference (17 - 18 August 2023)! Registrations for the conference and symposium have now closed and you should have received an email confirming that your registration has been received. If you have not received this email and you have registered please get in touch with Joanna Copedo ([Joanna.Copedo@cawthron.org.nz](mailto:Joanna.Copedo@cawthron.org.nz)) or Jess Ericson ([jess.ericson@cawthron.org.nz](mailto:jess.ericson@cawthron.org.nz)). If you have any further queries regarding the event, please contact the team at Cawthron: Jo, Jess, and Norman Ragg ([norman.ragg@cawthron.org.nz](mailto:norman.ragg@cawthron.org.nz)).

Scientists from the Pacific Community (SPC) and USP head out to Suva Notch once a month to collect water samples and check on their iSAMI (pH) and CTD instruments. This monthly activity allows researchers to understand the state of OA at a local scale and close OA data gaps, an issue that is prevalent in the Pacific region.

To further address these issues, [The Ocean Foundation's](#) 2023 application for GOA-ON in a Box kits in the Pacific Islands is now open. Applications should use [this Google form](#) after reading the [supporting information](#) and the [application template](#). Deadline: 2 August

### Ocean acidification in the New Zealand and the Pacific

- The impact of OA on New Zealand continues to be highlighted in a range of media outlets, most recently in the context of [threats to Māori communities and food sources](#) and the [rapidly declining health of NZ's marine environment](#).
- New Zealand's Minister of Foreign Affairs, Hon Nanaia Mahuta, [highlighted OA when welcoming the adoption](#) of the [new global ocean biodiversity treaty](#), which aims to ensure conservation and sustainable use of biodiversity in over two-thirds of the ocean.
- A recently published American Society of International Law background document discusses a recent International Tribunal for the Law of the Sea Advisory Opinion, made at the request of the Commission of Small Island States. This Opinion [considers UNCLOS obligations](#) with respect to climate change, including OA.
- New Zealand's recent [Ngā Kōrero Āhuarangi Me Te Ōhanga](#) (Climate Economic and Fiscal Assessment 2023) includes OA in its considerations of the economic and fiscal impacts of climate change on New Zealand.
- Katy Soapi's work on ocean acidification in the Pacific Islands was featured on a [Pacific Scientific radio episode](#) (ABC Radio Australia)

### Resources

- GOA-ON just announced their [Ocean Acidification Week 2023](#). If you are interested in organising, facilitating, proposing or presenting, fill out [this survey](#) by 11 August 11.
- The 13 chapters in the new [Guide to Best Practices in Ocean Alkalinity Enhancement Research](#) are currently open for public review.
- A new [The Ocean Foundation video](#) highlights the new pCO<sub>2</sub> to Go sensor and its applications in aquaculture and OA monitoring
- **Streaming:** [LAOCA Regional Hub](#) (GOA-ON June Webinar), Dr Michelle Graco and Dr Thiago Monteiro

- **Streaming:** [Certified reference materials for the seawater carbonate system](#) (GOA-ON May webinar), Dr Maribel I. García-Ibáñez and Dr Regina A. Easley
- A US report, [Turning US Ocean Climate Policy into Action](#), highlights the US's progress on climate-ocean action, including minimizing and addressing ocean acidification.
- Register online to watch the recordings of IMBER's May training sessions: [Expanding EO data usage to address climatic changes in the marine biosphere of the northwest Pacific and Indo-Pacific regional seas](#).

#### Selected recent articles from our members

- **Open access:** [Biogeochemical and Physical Assessment of CMIP5 and CMIP6 Ocean Components for the Southwest Pacific Ocean](#), Rickard G.J.; Behrens E.; et al. Journal of Geophysical Research: Biogeosciences
- **Open access:** [Strong seasonal patterns of DOC release by a temperate seaweed community: Implications for the coastal ocean carbon cycle](#), Paine E.R.; Brewer E.A.; et al. Journal of Phycology
- [Examination of the potential of refrigerated seawater to improve live transport of the mussel \*Perna canaliculus\*](#): Physiological responses, meat quality and safety implications under different chilled storage conditions, Tuckey N.P.L.; Timms B.A.; et al. Aquaculture
- [Omics research on abalone \(\*Haliotis\* spp.\): Current state and perspectives](#), Nguyen T.V.; Alfaro A.C.; et al. Aquaculture
- [Identification and characterisation of Botrylloides \(\*Styelidae\*\) species from Aotearoa New Zealand coasts](#), Temiz B.; Clarke R.M.; et al. New Zealand Journal of Marine and Freshwater Research
- [A simple and robust approach to Bayesian modelling of overdispersed data](#), Fletcher D.; Dillingham P.W., et al., Environmental and Ecological Statistics
- [Efficient analysis of split-plot experimental designs using model averaging](#), Hong C.Y.; Fletcher D.; et al. Journal of Quality Technology

#### ECOPs (early career ocean professionals) and outreach happenings

- PI-TOA wishes ECOP Lily Rios-Brady (The Ocean Foundation) the best of luck in her next adventure: working in fisheries at NOAA. Lily has been instrumental in PIOAC training and support and will be sorely missed.
- ECOPs should consider joining [ICONEC](#) - a new GOA-ON hub that aims to create a community of early career professionals with an interest in global marine carbon cycling, including OA.

#### Conferences, events, and workshops

- [Southern Ocean in a Changing World](#) (SOOS inaugural Symposium), Hobart, Australia. **14 - 18 August 2023**
- **NZOAC: 2023 NZOAC Conference**, Nelson, New Zealand, **17 - 18 August 2023**
- [Pacific Islands Conference on Ocean Science and Ocean Management](#), Nadi, Fiji, **11 - 15 September 2023**
- [Ocean Practices: OBPS Workshop VII](#) (virtual), **9 - 13 October 2023**

#### International opportunities

- Funding: [Mobility & Travel Grants in Partnership with Small Island Developing States](#). There is also funding for MSc scholarships. Submission deadlines **September 1, November 3, 2023 and onward**.

## Jobs

- [Research Scientist](#) with the Australian Institute of Marine Science in Queensland, Australia. Closes **24 July**.
- [Research Officer](#) with the University of Western Australia in Perth, Australia. Closes **26 July**.
- [Marine Biosecurity Officer](#) with the Northland Regional Council in Whangarei, New Zealand. Closes **27 July**.
- [Marine Ecosystem & Aquaria Research Support Officer](#) with CQUniversity in Queensland, Australia. Closes **30 July**.
- [Principal Fisheries Scientist](#) with the Pacific Community in Nouméa, New Caledonia. Closes **30 July**.
- [Experimental Field and Laboratory Research Technician](#) with Australian Institute of Marine Science in Queensland, Australia. Closes **30 July**.
- [Marine Invasion Ecologist](#) with Cawthron Institute in Nelson, New Zealand. Closes **31 July**.
- [Deep-Sea Benthic Ecologist](#) with NIWA in Wellington, New Zealand. Closes **6 August**.
- [OceanOmics Sequencing Technician](#) with the University of Western Australia in Perth, Australia. Closes **6 August**.
- [Coastal Hydrodynamic Modeller](#) with CSIRO in Hobart, Australia. Closes **7 August**.
- [Principal Scientist – Fisheries Modelling](#) with the Department of Primary Industries and Regions in Adelaide, Australia. Closes **8 August**.
- [Senior Research Scientist – Ecosystem Modelling](#) with the Department of Primary Industries and Regions in Adelaide, Australia. Closes **10 August**.
- [Principal Marine Scientist](#) with RPS Group in Auckland, New Zealand.
- [Senior Aquatic Ecologist](#) with Pattle Delamore Partners Ltd in Hamilton or Auckland, New Zealand.
- [Ocean/Coastal Scientist](#) with the Bureau of Meteorology in Victoria, Australia.
- [Senior Marine Environmental Scientist](#) with PKEL Consult in Brisbane, Australia.
- [Senior Environmental Scientist](#) with GHD Pty Ltd in Perth, Australia.
- [Postdoc Fellowship - Modelling Coastal Dynamics](#) with the Australian Institute of Marine Science in Queensland, Australia. Closes **9 August**.
- [Postdoc Research Associate – Ecosystem Modelling](#) with the Sydney Institute of Marine Science in Sydney, Australia.
- [PhD – Coral Reef Biogeochemistry](#) with Southern Cross University in Lismore, Australia. Closes **31 July**.
- [PhD – Aquatic Carbon Export](#) with the Charles Darwin University in Darwin, Australia. Closes **10 August**.
- [PhD – Defining how Inter-bacterial Symbioses Regulate Aquatic Ecosystem Health](#) with the University of Technology Sydney in Sydney, Australia. Closes **31 October**.
- [PhD – Seaweed Hybridisation](#) with the University of Technology Sydney in Sydney, Australia. Closes **31 October**.
- [PhD – Resolving Ocean Convection](#) with the University of Melbourne in Melbourne, Australia.

If you have news, opportunities, resources, or a published article you'd like included in the next newsletter, let us know by replying to this e-mail.

If you would like to subscribe to the NZOAC / PI-TOA newsletter mailing list, reply with "Subscribe" in the subject line. If you would like to unsubscribe from this mailing list, reply with "Unsubscribe" in the subject line.

Cheers,

Christina McGraw (University of Otago), Rebecca Zitoun (GEOMAR), Kim Currie (NIWA), Lea Muetzel (University of Otago)