



NZOAC and PI-TOA Newsletter – March 2022

This month, Radio New Zealand highlighted the work of NIWA's Kim Currie to establish and maintain the Munida Transect. In its 23rd year, measurements from this bimonthly research cruise are used to understand ocean acidification and the changing carbonate chemistry of our oceans. In this [30-minute segment](#), [Our Changing World's](#) Claire Concannon joins the cruise to learn more about ocean acidification and the student and community participation in this research.

The abstract deadline for the [International Symposium on the Ocean in a High CO₂ World](#) is quickly approaching (24 April). This symposium, which happens every four years, is the largest international OA gathering. Organisers of the Symposium recently announced opportunities to make the event more accessible, including a transition to a hybrid event and [grants to support the participation of approximately 20 scientists](#) from developing IAEA Member States.

Ocean acidification in the New Zealand and the Pacific

- We've just passed the halfway mark of the [Ocean Acidification in the Pacific Islands](#) online training course through the [Ocean Teacher Global Academy](#) (OGTA). As part of this course, [The Ocean Foundation](#) hosted a virtual workshop on [OA Resources, Networks, and Support in the Pacific](#), which was led by Katy Soapi (SPC), Kim Currie (NIWA), and Christina McGraw (Otago). A [supplementary document](#) which includes links to all of the resources discussed in the workshop is available on the NZOAC website.
- With the support of IAEA, [Palau International Coral Reef Center](#) (PICRC) is increasing its capacity to carry out OA research. In this [Island Times](#) article, PI-TOA member Ikelau Otto (PICRC) discusses the importance of [understanding the regional impacts of OA](#).

Acidification, fisheries, and aquaculture

- NOAA's new factsheet, [Aquaculture Provides Beneficial Ecosystem Services](#), discusses the benefits of farming shellfish and seaweed.
- Researchers in Scotland and Norway present a case study on the importance of [considering the impact of multiple stressors on aquaculture](#) when assessing the risks and adaptations to climate change.

Resources

- UNESCO-IOC's [Multiple ocean stressors: a scientific summary for policy makers](#) is a new resource to help all stakeholders better understand, discuss, and address the range of ocean stressors.
- In [Acid in our oceans](#), The Royal Society of Chemistry shares activities and resources for school children aged 14 - 16.
- The Deep Ocean Stewardship Initiative has prepared a policy brief on [Ocean Alkalinity Enhancement](#).

Recent webinars (now available for streaming)

- The live discussions associated with the [Pacific Island Ocean Acidification Online Training](#) are available online.
- [Ocean Acidification and Multiple Stressors](#), a UN Ocean Laboratory Satellite Event, Dr. Sam Dupont and Dr. Kirsten Isensee
- [IPCC Sixth Assessment Report: An overview of Impacts, Adaptation and Vulnerability for the Pacific](#), Pacific Climate Change Centre hosted by SPREP in partnership with ANU.
- NOAA's Richard Feely has three-part series of 1-3 minute videos on the *Origins and Impacts of Ocean Acidification*: [Part 1](#), [Part 2](#), and [Part 3](#).
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Selected recent articles from our members

- [Forensic carbon accounting: Assessing the role of seaweeds for carbon sequestration](#), Hurd CL, Law CS, et al., Journal of Phycology
- [A trait-based framework for assessing the vulnerability of marine species to human impacts](#), Butt, N., Halpern, B.S., et al., Ecosphere
- [Upwelling and Downwelling Driven by the North Equatorial Countercurrent and Internal Waves at Hatohebei Island and Helen Reef, Palau](#), Johnston, T.M.S., Colin, P.L., Journal of Geophysical Research: Oceans
- [Fast Changes in the Bioenergetic Balance of Krill in Response to Environmental Stress](#), Lagos, P.F., Curtsdotter, A., et al., Frontiers in Marine Science
- [Staying in place and moving in space: Contrasting larval thermal sensitivity explains distributional changes of sympatric sea urchin species to habitat warming](#), Byrne, M., Gall, M.L., Global Change Biology.

ECOPs (early career ocean professionals) and outreach happenings

- A Pacific ECOP network is being established. Join the ECOP network by taking the following survey [here](#) or send an email to PacificECOP@spc.int to register your interest.
- The Trevor Platt Foundation is accepting applications for its 6-month [mentorship programme](#). Applications are due **31 March 2022**.
- PyroScience offers a great opportunity to ECOPs with [three free sensor set-ups](#) (optical oxygen or pH sensor systems) for a three month period. Applications are due **20 May 2022**.
- **Paper:** How can Ocean Decade programs and partnerships equip ECOPs to engage meaningfully with policy processes and to develop practical solutions for societal benefit? Have a read, [here](#).

Conferences, events, and workshops

- [Our Ocean Palau](#), **13 - 14 April 2022**
- [Ocean Biogeochemistry: Biogeochemical Processes Across Space and Time \(Gordon Research Conference\)](#), **1 - 6 May 2022**
- [The 8th International Symposium on Gas Transfer at Water Surfaces](#) (hybrid), **17 - 20 May 2022**
- [4th World Small-Scale Fisheries Congress](#), Japan **10 - 13 May** and North America, **20 - 22 June 2022**
- [Integrating Environmental, Organismal and Community Complexity into Ocean Global Change Research \(Gordon Research Conference\)](#), New Hampshire, USA, **17 - 22 July 2022**
- [The 5th International Symposium on the Ocean in a High CO₂ World](#), **13 - 16 September 2022**
- [NZOAC - 15th NZOAC Conference](#), Nelson, New Zealand, **2 - 3 November 2022 (TBC)**

International opportunities

- **Grant:** IAEA [grants](#) to support the participation of scientists from developing IAEA Member States to participate in the International Symposium on the Ocean in a High CO2 World. Application deadline is **25 April 2022**.
- The Commonwealth Secretariat is seeking a contractor to provide an [Introductory Training on Ocean Acidification for Commonwealth Government Officials](#). Application deadline is **1 April 2022**.
- **Grant opportunity:** The National Geographic Society is currently accepting applications to become a [National Geographic Explorer](#). Application deadline is the **13 April 2022**.
- The 2022 Call for [SCOR Working Groups](#) closes on **30 April 2022**.
- The [FindAScienceBerth project](#) was launched. The tool will draw on up-to-date information on free berths internationally, and advertise these opportunities directly to those who would benefit the most.
- The UN Decade is looking for candidates to join the [Ocean Decade Expert Roster](#).

Jobs

- [Internship - Coral Reefs](#) with the Palau International Coral Reef Center in Koror, Republic of Palau. Closes **23 March 2022**.
- [Analyst/Senior Analyst - Inshore Fisheries](#) with the Ministry for Primary Industries in Napier or Wellington, New Zealand. Closes **27 March 2022**.
- [Senior Customary Fisheries Advisor](#) with the Ministry for Primary Industries in Nelson, Christchurch or Dunedin, New Zealand. Closes **31 March 2022**.
- [RRAP Field Technician](#) with the Australian Institute of Marine Science in Townsville, QLD, Australia. Closes **31 March 2022**.
- [Benthic Ecologist](#) with the Australian Institute of Marine Science in Townsville, QLD, Australia. Closes **31 March 2022**.
- [Research Technician](#) with Plant & Food Research in Te Puke, New Zealand. Closes **3 April 2022**.
- [Environmental Monitoring Technician](#) with the National Institute for Water and Atmospheric Research in Rotorua, New Zealand. Closes **3 April 2022**.
- [Research Associate - Marine Ecosystem Remote Sensing](#) with the University of Tasmania in Hobart, TAS, Australia. Closes **3 April 2022**.
- [Process Manager - Instrument Systems](#) with the National Institute for Water and Atmospheric Research in Christchurch, New Zealand. Closes **4 April 2022**.
- [Engineer, Aquatic Design & Bioengineering](#) with Plant & Food Research in Nelson, New Zealand. Closes **14 April 2022**.
- [Senior Scientist - Aquatic Engineering](#) with Plant & Food Engineering in Nelson, New Zealand. Closes **14 April 2022**.
- [Research Associate - Antarctic/Southern Ocean Modelling](#) with the University of Tasmania in Hobart, TAS, Australia. Closes **15 May 2022**.
- [Principal Aquaculture Consultant](#) with BMT in Perth, WA, Australia.
- [Extension Office - Fisheries & Aquaculture](#) with Rimfire Resources in Hobart, TAS, Australia.
- [Marine Surveyor](#) with SGS in Auckland, New Zealand.
- [Senior Ecologist](#) with Boffa Miskell in Dunedin, New Zealand.
- [Marine & Freshwater Taxonomist](#) with SLR Consulting in Nelson, New Zealand.
- [Associate/Principal - Marine Science Consultant](#) with SLR Consulting in Nelson, New Zealand.
- [Marine Scientist](#) with O2 Marine in Perth, WA, Australia.
- [Marine Environmental Consultant](#) with BMT in Perth, WA, Australia.
- [Marine Technician](#) with the Australian NAVY in Hobart, Tasmania, Australia.

- [Postdoc - Reef & Coastal Biodiversity Conservation](#) with the University of Queensland in Brisbane, QLD, Australia. Closes **22 March 2022**.
- [Postdoc - Coastal Ecosystems](#) with the Pacific Northwest National Laboratory in Seattle, WA, USA. Closes **26 March 2022**.
- [Postdoc - Restoration Ecology](#) with Western Sydney University in Richmond & Hawkesbury, Australia. Closes **6 April 2022**.
- [Postdoc - Ecosystem Modeller](#) with the Sydney Institute of Marine Science in Sydney, NSW, Australia.
- [Postdoc - Responses of Farmed Shellfish to Multiple Stressors](#) with Rutgers University at the Haskin Shellfish Research Laboratory in Port Norris, NJ, USA.
- [Postdoc - Institute of Global Change Biology \(IGCB\)](#) with the University of Michigan in Ann Arbor, MI, USA.
- [Postdoc - Marine Global Change Ecology Lab](#) with the University of Massachusetts Amherst in Amherst, MA, USA.
- [Postdoc - Dept. of Rosenstiel School of Marine and Atmospheric Science](#) with the University of Miami in Miami, FL, USA.
- [Postdoc - MAP Shellfish Stock Assessment](#) with the Virginia Institute of Marine Science in Gloucester, VA, USA.
- [Postdoc - San Francisco Bay River Plume](#) with Rutgers University, Dept. of Marine & Coastal Science in New Brunswick, NJ, USA.

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 (Otago), Pierre-Yves Charpentier (SPC), Jesse Vance (Otago), and Rebecca Zitoun (GEOMAR)