



NZOAC Newsletter – April 2021

This month, NZOAC unveils our new newsletter, which is the first step in an update of our webpage, communication, and social media presence. If you have ideas or suggestions, please let us know.

Ocean acidification in New Zealand

- [The Future of Commercial Fishing in Aotearoa New Zealand](#) - Full Report - Part 1, Office of the Prime Minister's Chief Science Advisor, February 2021.
- [New study shows seabed trawling releases more carbon dioxide than air travel](#), Stuff, 18 March 2021.
- [Fish ears affected by ocean acidification](#), RNZ interview with Professor Craig Radford, 3 March 2021.

Acidification, fisheries, and aquaculture

- A new review article underscores the feedback between agriculture, climate change and aquaculture. This review provides an updated synthesis of positive and negative responses to multiple stressors resulting from climate change, while also discussing mitigation and adaptation strategies and challenges: [Climate Change Effects on Aquaculture Production: Sustainability Implications, Mitigation, and Adaptations](#).

Articles from our members

- [Ocean acidification effects on fish hearing](#). Radford, C.A., Collins, S.P., Munday, P.L., Parsons, D. (2021), Proc.R.Soc. B. 288: 20202754.
- [Comparing the Marine Protected Area Network Planning Process in British Columbia, Canada and New Zealand—Planning for cooperative partnerships with Indigenous communities](#), Watson, M.S., Jackson, A.-M., Lloyd-Smith, G., Hepburn, C.D. (2021), Marine Policy.
- [Reduced seawater pH alters marine biofilms with impacts for marine polychaete larval settlement](#), Espinel-Velasco, N., Tobias-Hünefeldt, S.P., Karelitz, S., Hoffmann, L.J., Morales, S.E., Lamare, M.D. (2021), Marine Environmental Research.
- [Review of the biology of the krill genus *Nyctiphanes* G.O. Sars, 1883 \(Euphausiacea: Euphausiidae\): challenges for future research on environmental change](#), Lagos, P.F., Gómez-Gutiérrez, J., Sabadel, A.J.M., Burrit, D.J., Lamare, M.D. (2021), The Journal of Crustacean Biology.
- [In a pinch: Skeletal carbonate mineralogy of crabs \(Arthropoda: Crustacea: Decapoda\)](#), Fay, A.M., Smith, A.M. (2021), Palaeogeography, Palaeoclimatology, Palaeoecology.
- [Interactive effects of increased temperature and gadolinium pollution in *Paracentrotus lividus* sea urchin embryos: a climate change perspective](#), Martino, C., Byrne, M., Roccheri, M.C., Chiarelli, R. (2021), Aquatic Toxicology.
- [Forecasting impacts of ocean acidification on marine communities: Utilising volcanic CO₂ vents as natural laboratories](#), Foo, S.A., Byrne, M. (2021), Global Change Biology.

ECOPs (early career ocean professionals) and outreach happenings

- Congratulations to our student members who were awarded prizes at the 14th NZOAC conference: Denise Chen (Best Student Poster), Jesse Vance (Best Student Presentation), Theo Christensen (Excellence in Communication), Wayne Dillon (Excellence in Research).
- Thank you to the ECOP session chairs at the 14th NZOAC Conference: Erik Krieger, Habibeh Hashemi, Hannah Heynderickx, and Jesse Vance.
- Grace Cowley (Otago's Future Ocean Research Theme) recently organised a *Science and Submission Writing Workshop*, which was full of valuable tips for people interested in writing more effective submissions.
- Rebecca Zitoun and Habibeh Hashemi will chair the ECOPs' event sessions in the upcoming 2021 [Ocean Visions Summit](#). NZOAC ECOPs are encouraged to attend (Registration is free).
- Congratulations to Rebecca Zitoun, who has recently been named Young Ambassador (2021-2023) of the European Marine Board (EMB).

Upcoming webinars

- GOA-ON webinar series: [What Do You \(Really\) Need to Know to Understand Multiple Stressors?](#) (Sam Dupont, Christina McGraw, Christopher Cornwall)
- GOA-ON webinar series: [Canada's Ocean Acidification Community of Practice](#) (Kristina Barclay)

Recent webinars (now available for streaming)

- GOA-ON webinar series: [Unifying biological observations to detect & compare OA impacts across marine species & ecosystems](#) (Sam Dupont and Steve Widdicombe)
- GOA-ON webinar series: [Measuring OA to support the 2030 Agenda for Sustainable Development](#) (Kirsten Isensee and Katherina Schoo)
- GOA-ON webinar series: [Measuring protons with photons: Introducing "the pHyter" as a new, low-cost, handheld pH instrument](#) (David Long, William A. Pardis, and Kalina C. Grabb)

Conferences, events, and workshops

- Virtual OceanVisions 2021 Summit: Towards a Global Ecosystem for Ocean Solutions, Scripps Institute ([Virtual Summit](#)), **18-20 May 2021**.
- The 8th International Symposium on Gas Transfer at Water Surfaces ([Virtual Symposium](#)), **19 May 2021**.
- ASLO 2021 Aquatic Sciences Annual Meeting ([Virtual Meeting](#)), **22-27 June 2021**.
- **In New Zealand:** New Zealand Marine Science Society [2021 Conference](#), Tauranga, New Zealand, **5-8 July 2021**.
- Advances in Marine Ecosystem Modelling Research (AMEMR) Symposium ([Virtual Conference](#)), **12-15 July 2021**.
- **In New Zealand:** Physiomar [2021 Conference](#), Nelson, New Zealand, **7-10 September 2021**.

Jobs

- [Lecturer: Aquaculture](#), University of Otago, Department of Marine Sciences, Dunedin, New Zealand
- [Glider and Oceanographic Instrumentation Technician](#), NIWA, New Zealand
- [Postdoc: Marine microbial ecology](#), Simons Foundation, USA and Canada
- [Postdoc: Ocean acidification effects on marine fishes](#), NOAA-NMFS Alaska Fisheries Science Center, Newport OR, USA
- [Postdoc: Plankton indicator change and environmental variables](#), University of Plymouth, Plymouth UK
- [Postdoc: Coastal and estuarine ecology](#), Nelson Mandela University, Port Elizabeth, South Africa
- [Senior Lecturer: Marine chemistry in a changing world](#), University of Gothenburg, Sweden. Apply by 11 April

Resources and opportunities

- The second week of March was New Zealand Association for Environmental Education Seaweek - Kaupapa Moana focused on [Celebrating Connecting with our Seas](#). One of the ways MetOcean was celebrating connections with the sea was with the launch of [NZ's first marine heatwave forecast tool](#), part of the [Moana Project](#), an ocean modelling programme aimed at supporting New Zealand's seafood industry.
- The OA Alliance released a new infographic: [What do Policy Makers Need to Know about Ocean Acidification](#).
- Call for nominations: [Southern Ocean Observing System \(SOOS\) - Scientific Steering Committee](#).

Opportunities for collaboration on climate change

- ROMS Seminar Series - Hosted by NIWA, an online monthly seminar series focused on applications of the Regional Ocean Modelling System and other physical and biophysical oceanography topics. Correspondence to Jesse Vance, email: vanje221@student.otago.ac.nz.

NZOAC council announcements

2021 Council members are Christopher Cornwall (Wellington), Christina McGraw (Otago), Habibeh Hashemi (student), Jesse Vance (student), Linn Hoffmann (Otago), Mary Sewell (Auckland), Monique Ladds (DOC), Norman Ragg (Cawthron), and Vonda Cummings (NIWA). Christina was elected Chair for a 2-year term (2021-2022). The Council is considering shifting the timing of the annual conference to minimise clashes with field work and field courses. Thank you to everyone who shared their availability through the Doodle poll.

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

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Cheers,
Christina McGraw on behalf of the NZOAC Council