INTRODUCTION

Australia is a marine nation with over 87% of the population living within 50 km of the coast, and our oceans play an important role ecologically, socially and economically. Our marine environment is critically important for the cultural practices of Indigenous communities and as the world’s third largest marine jurisdiction, it’s home to many marine species that occur nowhere else in the world. Our marine regions provide valuable services through the provision of food, energy, transportation, tourism, conservation and recreation, and by 2025 our marine industries are projected to contribute around $100 billion each year to Australia’s overall economy.

However, further demands and pressures on coasts and oceans are expected with increasing coastal populations, food security needs and emerging industries, such as renewable energies and offshore marine production systems. Managing these multiple uses, often with conflicting objectives, to ensure sustainable ecosystems, industries and social and economic benefits for communities is a major challenge globally.

The Centre for Marine Socioecology (CMS), is a unique collaboration between the University of Tasmania (UTAS) and the Commonwealth Scientific and Industrial Research Organisation (CSIRO), with support from the Australian Antarctic Division (AAD).

It was established in 2014 to provide, develop and integrate the interdisciplinary teaching and research capacity required to underpin sustainable management of Australia’s coastal zone and ocean in a rapidly changing world. It brings together an extraordinary diversity of disciplinary expertise, and considers multiple knowledge systems, in active collaborations, to directly address both the theoretical and applied aspects of marine socioecological systems.

We are extremely pleased to see in this annual report that the Centre has continued to grow international recognition for the challenging research being conducted and communicated in innovative ways, and for the training of students in interdisciplinary sciences. We look forward to its continued success into the future.

Professor Anthony Koutoulis
Deputy Vice-Chancellor (Research)
University of Tasmania

Dr Dan Metcalfe
Director, CSIRO Oceans and Atmosphere

We acknowledge and pay respect to the traditional owners and custodians of sea country all around Australia, in particular lutruwita (Tasmania), and recognise their collective wisdom and knowledge of our oceans and coasts.
This report outlines a selection of the research and other activities undertaken by the Centre for Marine Socioecology in 2022. We are pleased and proud to share this summary with you. The breadth and diversity of achievement described in this annual report illustrates clearly that the Centre continues to be a strong and vibrant locus for high quality interdisciplinary and transdisciplinary research and training.

We wholeheartedly thank the many people – our students, researchers, collaborators, and stakeholders – who have actively contributed to the Centre’s activities. The Centre’s ongoing success, continually growing reputation and impact at local through to global scales would not be possible without their generosity and enthusiasm. This is especially the case given the challenging circumstances that flowed into 2022, with everyone at a different point of their journey of coping, adapting, refocusing, and rebuilding.

Each new year brings new aspects to CMS’ activities and an ever-growing depth of diverse contributions. We continue to be proud of the Centre’s outputs and outcomes and we look forward to continuing this work with you in 2022.

Professor Gretta Pecl (IMAS)
Director

Dr Beth Fulton (CSIRO)
Deputy Director
BACKGROUND

The Centre for Marine Socioecology brings together disciplinary expertise in physics, law, economics, biology, sociology, psychology, human health, art, media, philosophy and governance from the following University of Tasmania colleges, schools and institutes: the Institute for Marine and Antarctic Studies (IMAS), the College of Arts, Law and Education, the College of Health and Medicine, the Tasmanian School of Business and Economics, the School of Technology, Environments and Design; and from the Commonwealth Scientific and Industrial Research Organisation (CSIRO) and the Australian Antarctic Division (AAD). We are also fortunate to have valuable participation from other leading Australian and International institutes.

CMS embraces the extensive knowledge of the traditional owners of Australia, working collaboratively with Indigenous scientists, Elders and knowledge holders to collectively enhance our understanding of our oceans and coasts.

VISION

A WORLD-LEADING CENTRE TO SUPPORT INFORMED AND SUSTAINABLE MANAGEMENT OF MULTIPLE-USES IN MARINE AND COASTAL SYSTEMS

MISSION

TO PROVIDE EXCELLENCE IN RESEARCH AND RESEARCH TRAINING THAT UNDERPINS THE SUSTAINABLE DEVELOPMENT OF THE MARINE DOMAIN FOR ALL USERS AND BUILDS THE NECESSARY CAPACITY TO PROVIDE SKILLS AND SOLUTIONS FOR INDUSTRY, GOVERNMENT AND THE COMMUNITY

CMS CORE TEAM

Director
Prof Greta Pecl

Deputy Director
Dr Beth Fulton

Knowledge Broker
Dr Rachel Kelly

Executive Support Officer
Dr Cecilia Villanueva
RESEARCH THEMES AND THEME LEADS

Our work is actively working towards solutions across five key research themes:

**Coastal & Marine Governance**
Dr Karen Alexander
Dr Pedro Fidelman

**Sustainable Futures & Planetary Health**
Dr Kirsty Nash
Dr Anna Farmery

**Environmental Change & Adaptation**
Dr Ingrid van Putten
Dr Rowan Trebilco

**CHALLENGES**

**RESEARCH APPROACH**

**Knowledge Production**
Dr Jess Melbourne-Thomas

**Science Engagement & Impact**
Dr Rachel Kelly
Dr Geoff Syme
STEERING COMMITTEE

CMS is overseen by a Steering Committee. Our Steering Committee is composed of members from CSIRO, and the different institutions and schools within the University that form part of CMS, a student representative, as well as a representative from AAD, and two independent representatives from government and industry.
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2022 HIGHLIGHTS

Clarivate Highly Cited Researchers

Citations by our peers is one important measure (among many!) of research impact and quality. Each year Clarivate produces the Highly Cited Researchers list that identifies global research scientists and social scientists who have demonstrated exceptional influence, as reflected through their publication of multiple papers frequently cited by their peers during the last decade. This year, we are pleased to say that CMS has four of our researchers on the Highly Cited list, including Alistair Hobday and Chris Wilcox, and our Director and Deputy Director, Greta Pecl and Beth Fulton. All four researchers were identified as Highly Cited in the 'Cross-Field' category which identifies researchers who have contributed to highly cited papers across several different research fields—reflecting the highly interdisciplinary nature of the work we do at CMS. More information is available here https://clarivate.com/highly-cited-researchers/

Beth Fulton was elected Australian Academy of Science Fellow 2022 and Academy of Technological Sciences & Engineering Fellow 2022. Fellows of the Australian Academy of Science are among the Nation’s most distinguished scientists, elected by their peers for ground-breaking research and contributions that have had a clear impact. ATSE Fellows recognised extraordinary expertise across engineering, applied science and technology.

Tony Smith was awarded the K. Radway Allen award, the highest honour awarded by the Australian Society for Fish Biology, recognising Tony’s contribution in fish and fisheries sciences and leadership. This is the fourth year in a row that a CMS member has received this prestigious award.

Peter Puskic meeting the iconic Ocean hero Sylvia Earle

Peter Puskic attended the UN Ocean Conference held in Lisbon, Portugal supported by CMS and the Early Career Ocean Professional Programme.
Curious Climate Schools

Curious Climate Schools is an engagement and research project supported by CMS, that aims to address children’s unanswered questions and concerns about climate change. The project was officially launched in 2021 and led by Chloe Lucas (and co-led by Gretta Pecl, Gabi Mocatta, Kim Beasy, and Rachel Kelly).

Over the last two years, Curious Climate Schools has engaged with more than 2000 Tasmanian school students between the ages of 9-18. Eighty experts (from CMS, other UTAS centres and schools, and other universities) have volunteered their time and expertise to answer children’s burning questions about climate. These answers are publicly available on the project website. The website also provides information for children, teachers, and other adults on how to handle feelings about climate change, what people of all ages can do to be part of the solution, and how young people’s questions are part of a larger global conversation about climate action, including work by the United Nations and the IPCC.

In 2022, the success of the project was recognised in multiple international awards, including:

1. United States National Academies of Science, Engineering and Medicine Eric and Wendy Schmidt Award for Excellence in Science Communication (Chloe Lucas on behalf of the project team)
2. University of Tasmania Vice-Chancellor’s Engagement Award (Project team - Chloe Lucas, Gabi Mocatta, Gretta Pecl, Kim Beasy, Rachel Kelly)
3. 2022 New Directions for Climate Communication Research Fellowship from the International Association for Media and Communication Research (Curious Climate Schools - Chloe Lucas, Gabi Mocatta).

These awards recognise the importance of listening to young people’s concerns about climate change, and the value of providing them with relevant and trustworthy responses to their questions about all aspects of climate change.
Tasmanian Ocean Summit

In November, several CMS affiliates were invited as speakers, panellists, and chair at the Tasmanian Ocean Summit which was hosted by the Australia Institute Tasmania. These key speakers at the summit included Gretta Pecl, Beth Fulton, Jess Melbourne-Thomas, Ingrid van Putten, and Alistair Hobday, and also Ian Dutton and Martin Excel (both CMS Steering Committee).

The focus of the submit was the review of Tasmania’s main marine law, the Living Marine Resource Management Act 1995. The aim of the one-day event was to bring together diverse stakeholders from all around the state (including researchers, fishers, local community members, Indigenous community members, government representatives) and foster collaborative discussion on ocean sustainability for Tasmanian waters: From global to local, for the ocean we want.

2022 SNAPSHOT

- **83** Conferences & Presentations
- **81** Papers
- **11** Books & Chapters
- **22** Reports & Other Publications
- **16** Funding & Grants
- **12** CMS Events
- **42** Public Outreach Events/Activities
- **6** Graduations
- **105** Researchers
- **28** Awards & Prizes

Centre For Marine Socioecology | Annual Report 2022
SUMMARY OF SCIENTIFIC OUTPUTS

CMS strongly values our direct connections with local stakeholders and the applied impacts of our research. However, we also have a strong academic impact at a global scale. Our staff and students have collectively published with hundreds of international co-authors, with citation metrics more than triple the world average for similar publications.

Field-Weighted Citation Impact takes into account the differences in research behaviour across disciplines, revealing how the number of citations received compares with the average number of citations received by all other similar publications indexed in the Scopus database (a value of 1 indicates the world average). All the metrics were calculated based on 360 papers from 2018 to 2022 which were available in Scopus (using SciVal software) on 21 December 2022.

Overall research performance for 2022

<table>
<thead>
<tr>
<th>Scholarly Output</th>
<th>Authors</th>
<th>Field-Weighted Citation Impact</th>
</tr>
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<tbody>
<tr>
<td>360</td>
<td>1,842</td>
<td>3.07</td>
</tr>
<tr>
<td>6,847</td>
<td></td>
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</table>

Citations per Publication

Field-Weighted Citation Impact

1Entity: CMS Publications 2021
Year range: 2016-2022
Data source: Scopus, up to 16 Mar 2022

Publications by subject area

- Environmental Sciences (45.3%)
- Agricultural and Veterinary Sciences (20.3%)
- Biological Sciences (45.3%)
- Earth Sciences (23.1%)
- Human Society (21.7%)
- Other (2.7%)
Outputs in Top Citation Percentiles

CMS Publications are in the top 10% most cited worldwide (field-weighted). For comparison UTAS 16.5%, Australia 16.8%.

International Collaborations

CMS publications co-authored with institutions in other countries/regions. For comparison UTAS 55.4%, Australia 57.5%.

Publications in Top Journal Percentiles

CMS Publications are in the top 10% of journals by CiteScore Percentile. For comparison UTAS 41.7%, Australia 40.4%.

Academic-Corporate collaboration

Publications with both academic and corporate affiliations. For comparison UTAS 3.1%, Australia 3.4%.
PUBLICATIONS

PAPERS


Figure 1 in Bax et al. (2022), showing the blue carbon habitats considered in the paper, *Frontiers in Marine Science*. 

Figure 4 from Chrysafi et al. (2022) depicting a network diagram of the identified interactions with a force-directed layout, Nature Sustainability.


Figure 2 from Fulton et al. (2022) depicting the catch composition through time for the Gulf of Thailand, *ICES Journal of Marine Science*. 
Lessons from bright-spots for advancing knowledge exchange at the interface of marine science and policy

Interactive knowledge exchange at the interface of marine science and policy is key for evidence-informed decision-making - but hard to do. To understand how to achieve effective knowledge exchange, we analyze 25 successful examples (bright-spots) regarding their initiation, goals, approaches, successes, enablers, and lessons. We show that diverse successes are achievable and that the key enablers of those successes are:

**Actors**
- High quality of interactions, relationships and trust between individuals.
- Diverse, open-minded, and devoted actor group/team.
- Individual backgrounds, skills, and situational awareness.

**Processes**
- Collaborative methodologies including feedback/support and high research quality.
- Flexible and transparent processes that can be updated and refined as needed.

**Support**
- Supportive and flexible funding, and financial incentives/benefits.
- Political support, demand and receptiveness.
- Public attention and support through media or storytelling.

**Contexts**
- Embrace governance background, scale, and location and build on previous research/connections.
- Local community leadership and support through strong organization and governance culture.

**Timing and need**
- Right timing (policy window and opportunity, persistent/continuous effort, and punctual delivery).
- Urgency of an issue that top with high-socio-ecological relevance.

We give recommendations on a personal (be aware/reflexive), process-(be inclusive), external-(team-up), and interpersonal level (facilitate trust). In sum, making knowledge exchange success more routine requires: 1) training and mentoring scientists with focus on interpersonal skills and networks, 2) institutionalizing knowledge exchange in organizational agendas, 3) implementing broader research impact metrics, and 4) transforming funding mechanisms to cover impact planning and required effort and activities.

---


Empowering young people with climate and ocean science: Five strategies for adults to consider

Today's young people are the world leaders of the future. They are the agents of change who are most likely to succeed in climate and ocean action to achieve sustainability goals. But young people are increasingly aware and overwhelmed about the impacts of climate and ocean change - and worryingly, have limited options and agency to protect their future from these impacts.

5 strategies to equip and empower young people to take action for oceans and climate

- Inclusion of diverse voices: Achieve diverse participation in climate and ocean learning and discussion.
- Co-created visions of a sustainable future: Empower young people in youth-led conversations and decision-making on and about climate and the ocean.
- Active dialogue-based science learning: Improve awareness, youth-led engagement, and trust in climate and ocean science.
- Critical thinking skills: Inoculate children and youth against fake news and misinformation.
- Connection to nature: Encourage pro-environmental attitudes and behaviours.


Figure 2 from Mellin et al. (2022), showing the impacts of climate change and other human stressors on access to reef-based food and nutrition, Nature Ecology & Evolution.


Figure 1 from Shellock et al. (2022), detailing motivations for moving from natural to social science, ICES Journal of Marine Science.

**Motivations**

for moving from natural to social science

1. **Being able to be a jack of all trades**
   Perception that working in marine social science does not tie you down to a specific discipline or topic. It allows you to work on broader interests and provides flexibility.

2. **Suiting values and skill set**
   Social science is in keeping with personal values and provides opportunities to apply skill set (e.g., being able to see the bigger picture, communication skills and storytelling).

3. **Employability and career goals**
   Perception that a move into marine social science would help to achieve career goals. Also it was perceived that marine social science allowed us to have more diverse career pathways (including government agencies, NGOs, industry etc.).

4. **Environmental impacts**
   Having observed or personally experienced environmental impacts, which have affected human wellbeing (e.g., climate change, bushfires, marine litter, etc.).

5. **Interest in science-policy and resource management**
   Interest in marine policy and evidence-informed decision making (e.g., knowledge exchange).

6. **Passion for specific topic**
   Interest in specific topic (e.g., MPAs) and protecting a specific species (e.g., sharks).

7. **Didn’t enjoy lab work**
   The realisation that working in a laboratory doesn’t suit our personality, skills or career goals.

8. **Wanting to engage with stakeholders and the public**
   Interest in engaging and collaborating with stakeholders and the public.

9. **Sense of duty to protect the ocean and the communities relying on it**
   Strong motivation to protect the ocean and to help navigate complex sustainability issues, to ensure that the benefits are available for society now and in the future.

10. **Interest in undertaking research which has impact**
    Interest in contributing to research which has impact and can bring about social change (e.g., behaviour change, equity etc.). It was perceived that this was more possible in marine social science.

11. **Improving evidence-informed decision-making**
    Interest in contributing to research which bridges the gap between marine social science and policy and improves evidence-informed decision-making.


Figure 2 from Spillias et al. (2022), presenting the state of the Australian Seaweed Industry, Journal of Cleaner Production.


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**Figure 3 from Subramaniam et al. (2022), depicting the energy flow through trophic levels on the Kerguelen Plateau, ICES Journal of Marine Science.**


The Future Seas Special issue: “Future Seas 2030: pathways to sustainability for the UN Ocean Decade and beyond” was finally published this year in the journal Reviews of Fish Biology and Fisheries. It includes: a preface, an Editorial, a detailed methods article, 11 papers addressing the key challenges, and 1 synthesis paper. https://link.springer.com/journal/11160/volumes-and-issues/32-1

One Earth One Earth key articles on Biodiversity Conservation: The journal One Earth put together a collection of their key articles that highlights the challenge we face, the shortcomings of past efforts, and potential solutions to help ensure we are successful in bending the biodiversity curve and achieving the 2050 vision. Several of Vanessa Adams papers were featured, and one from Gretta Pecl that was published together with our Future Seas and Species on the Move Collaborators Dr Tero Mustonen and Chief Edwin Ogar. https://www.cell.com/one-earth/collections/biodiversity-conservation
BOOK AND BOOK CHAPTERS

   a. Layton C, Gleason M. Chapter 2: Evaluating the need for kelp forest restoration.
   b. Layton C, Toft J, DeAngelis B. Chapter 6: Monitoring and Evaluation

2. Climate, Society and Elemental Insurance Capacities and Limitations. Edited By Kate Booth, Chloe Lucas, Shaun French.


**REPORTS**

1. Bindoff NL, Boyd PW, **Constable AJ**, King MA, **McGee J** & **Pecl G** 2022. Antarctica and the Southern Ocean: insights from the 2022 IPCC WGII report


11. IPCC Report Working Group II Impacts, Adaptation and Vulnerability

In the Australasian chapter (which includes NZ and Australia), Gretta Pecel was responsible for assessing all available material and drafting:
- Coasts and oceans section
- Great Barrier Reef ‘box’ (special focus section)
- Marine food
- Tourism

Together with a colleague, she was charged with drafting the Indigenous section of the Australasian chapter. To do this, they convened a working group of Indigenous Contributing Authors to ensure the section addressed key issues relevant to the Indigenous Peoples and was written in a culturally appropriate way. Other sections of the broader IPCC report that Gretta co-authored included: a ‘moving plate’ cross-chapter box highlighting how climate change has impacted where food can be grown or sourced, a water borne disease cross chapter box, and an Indigenous Peoples cross chapter box. She was also part of a working group aiming to include as much Indigenous material in chapters as possible and ensure culturally appropriate terminology throughout the report.
OTHER PUBLICATIONS (E.G. ARTICLES IN THE CONVERSATION, ETC)


Minke whale surfacing through ice in Antarctica, where warming water will impact marine ecosystems. Image credit: Jess Melbourne-Thomas.


9. Pecl GT & Wolfe B. Redmap report cards for Tasmania, New South Wales and Western Australia


12. Willis K, Hardesty BD, Wilcox C & Vince J. Local efforts have cut plastic waste on Australia’s beaches by almost 30% in 6 years. The Conversation, 9 June 2022. https://theconversation.com/local-efforts-have-cut-plastic-waste-on-australias-beaches-by-almost-30-in-6-years-184243
CONFERENCES & PUBLIC PRESENTATIONS


PLENARIES AND KEYNOTES


INVITED SPEAKERS


17. **Pecl G**, “Climate change impacts, adaptation and vulnerability”, IPCC 6th Assessment Report Australian Authors Speak, organised by the Australian Society of Science, 1 March 2022.


### GENERAL PRESENTATIONS


8. **Pitt C**. “Climate anxiety and mental health: How can we support individuals without pathologising distress?” Nature Feelz Symposium, Sydney Environment Institute, The University of Sydney, Dec 2022.


12. **Willis K**. “Using monitoring data to evaluate the effectiveness of plastic reduction interventions”, 7th International Marine Debris Conference, Busan, South Korea, Sept 2022.
OTHER SCIENTIFIC PRESENTATIONS


6. Phillips GAC, “Gestión y gobernanza para la sostenibilidad de la costa: herramientas y experiencias de Australia y Chile”. Webinar with Dr Francisco Bravo (CSIRO Chile) and Dr Stefan Gelcic (Instituto Mileno SECOS, Universidad Catholicca, Santiago). Santiago, Chile, 13 Sept 2022.


9. Zhang M, invited speakers at the Australian Chinese Youth Dialogue, talking about the importance of Antarctica to both our countries and [her] own experience of studying Antarctic Science, Hobart, 9 May 2022.
PANELS

1. Bach L, Schache A, Storey J, Trebilco R & Layton C, panellists in “Climate Change Mitigation - Do oceans hold the answer?”

2. Goldsworthy L, Haward M, Dunstan P & Welsford D, panellists in “Southern Ocean Fisheries Management”.


STUDENT CONFIRMATION SEMINARS


WORKSHOPS


2. Audzijonyte A, International workshop “Can citizen science, smartphone app and social media data be used for recreational fisheries management?”, 15 Dec 2022


6. IMAS workshops on “Challenges and opportunities in marine environmental management”, organised by Valeriya Komyakova as part of the Masters in Marine Science unit KSA726, 24-27 May 2022 (pictured below).


8. Shellock B & van Putten I, Fostering Diversity, Equity and Inclusion (DEI) into interdisciplinary marine research, IMECaN Workshop, 11 Oct 2022, online.
AWARDS, PRIZES & FELLOWSHIPS

1. **Corrine Condie**, award for best poster, AMSA Conference 2022.


4. **Dimuthu Jayakody**, student award for the best speed talk, Hawaii Conservation Conference 2021

5. **Denis Karcher**, CMS award for best student presentation.

6. **Cayne Layton**, Tall Poppy Award 2022.


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**Above: Corrine Condie and her award-winning poster at AMSA**

**Below: Beth Fulton was inducted into both the AASF and the ATSE!**
8. **Libby Lester**, The Anne Dunn Scholar Award for research excellence, jointly awarded by the Australian and New Zealand Communications Association and the Journalism Education and Research Association of Australia 2022.


11. **Phillipa McCormack**, awarded the inaugural Early Career Research Fellowship, Natural Hazards Research Australia.

12. **Kirsty Nash**, AMSA 2022 Emerging Leader in Marine Science Award.


14. **Gretta Pecl** and **Scott Bennett**, Finalists Tasmanian STEM Awards for Scientist of the year. Curious Climate program: student and community-led conversations with scientists on climate change, led by **Gretta Pecl**, **Chloe Lucas** and Gabi Mocatta and involving many CMS members, Green Gown Awards Australasia Benefiting Society Award.

15. **Peter Puskic**, IMAS student prize, Beyond Academia Prize.

16. **Paris Tuohy** and **Corrine Condie**, CMS second and third place for best student presentation.

17. **Graham Wood**, finalist in the ACTS Champions Awards.
UNIVERSITY OF TASMANIA AWARDS

18. Gretta Pecl, 2022 CoSE Leadership Award.

19. Chloe Lucas, Gabi Mocatta, Rachel Kelly, Kim Beasy and Gretta Pecl representing the Curious Climate Schools team, 2022 CoSE Engagement Award.

20. Maree Fudge and Emily Ogier, 2022 CoSE Award for Progress in Inclusion, Diversity and Equity.

21. Valeriya Komyakova, 2022 CoSE Student Focus Award.

22. Sarah Ugalde, Caleb Gardner, David Mossop, Mark Grassi, Norfaizny Hasweera, 2022 CoSE Teaching Merit Citation (Team) – AAI Sustainable Aquaculture course.

23. Jennifer Lavers, 2022 CoSE Teaching Merit Citation (Individual).


25. Natalie Stoeckl 2022 CoBE Research Leadership Award.


27. The Bachelor of Science Sustainability Team including Emily Flies, Heather Lovell, Melinda McHenry, Aidan Davison, Ryan Brunton, Graham Wood, Vishnu Pralahad, Janine Arnold, Andrew Harwood and Nick Towle, 2022 Vice-Chancellor’s Sustainability Award.
FUNDING & SCHOLARSHIPS

Ian Potter grant, Safeguarding natural values of the Great Southern Reef, led by Graham Edgar and involving Scott Bennett and Greta Pecl from CMS working with several institutes across the GSR, $2 million.

Bax N High Seas Alliance and DOSI Travel Fund for a Deep-Sea Scientist to attend COP-27, USD $5000.

Bax N Shackleton Scholarship for the project Falkland Island coral gardens and rhodolith beds: carbon-rich natural archives in the mesophotic zone, £4000.


Cottrell RS, CoSE Early Career Researcher Mobility Grant, $3000.


Phillips GAC, Krueck N, Ogier E, Hartmann K, Barrett N, Dutton I The multiple values attained through partially protected areas - FRDC 2021-070, $227,634.

Phillips GAC CoSE Early Career Researcher Mobility Grant - Travel to Chile for collaborative opportunities post-COVID-19, $3,000.

ARC DISCOVERY GRANTS

Audzijonyte A, Krueck N, Richards S, Andersen K. Universal properties and application of species size distributions, $456,000.

Edgar G, Strain E, Lefcheck J. Improved management of marine habitats by learning from historical change, $625,764 (to start 2023).


Morrison T, Pecl G, Hughes T. Novel governance for marine ecosystems in rapid transition, $401,000.


ARC FUTURE FELLOWSHIP

Adams V. Tackling land degradation: which policy, where, when, and why? $905,168.

ARC DECRA

Farmery A, Improving food systems through fisheries and aquaculture, $425,312.
OTHER OUTPUTS & ACHIEVEMENTS

Beth Fulton, Alistair Hobday, Chris Wilcox, Gretta Pecl – Clarivate Highly Cited Researchers List https://clarivate.com/highly-cited-researchers/

Elizabeth Leane became a member of the ARC College of Experts for the Humanities and Creative Arts panel (2023-).

Rowan Trebilco was elected to the Australian Academy of Science’s Early- and Mid Career Researcher (EMCR) Forum Executive. The EMCR Forum’s mission is to serve as the voice of Australia’s early- and mid-career researchers, championing improvement in the national research environment through advocacy. The Executive provides a direct link between the EMCR Forum and the Council of the Academy.

PROMOTIONS

- Cayne Layton was promoted to level B.
- Asta Audzijonyte and Beth Penrose were promoted to level C.
- Satoshi Yamazaki and Joanna Vince were promoted to level D.
- Rowan Trebilco was promoted to Senior Research Scientist.
- Beth Fulton was promoted to Chief Research Scientist.

Cayne Layton in the lab showing students seaweed he collected from nearby reefs.
COMMITTEES, WORKING GROUPS, PANELS & NETWORKS

- **Bax N**, leads a Sub-Antarctic Blue Carbon and Natural Archives Network.
- **Bax N**, member of the Challenger 150 UN decade action working groups in the South Atlantic and Southern Ocean.
- **Bax N**, member of the Deep Ocean Stewardship Initiative (DOSI) working groups on biodiversity and climate change.
- **Bax N**, Deep Ocean Observing Strategy (DOOS), Deep Ocean Early Career Researcher (DOER) program member.
- **Bax N**, Deep Sea Coral Symposium organising committee member.
- **Bax N**, member of CoastCarb - Coastal ecosystem carbon balance in times of rapid glacial melt.
- **Boothroyd A**, President Wildcare Sea Spurge Remote Area TeamS (SPRATS) program.
- **Evans K**, elected to the position of joint coordinator of the Regular Process for the Integrated Assessment of the Marine Environment including Socio-Economic Aspects (the World Assessment).
- **Evans K**, appointed as a member of the World Meteorological Organisation Task Team on Weather, Climate and Fisheries.
- **Fulton EA**, member of Executive Committee of Network of Interdisciplinary and Transdisciplinary Organisations in the Oceania Region (NITRO-Oceania).
- **McCormack P**, Director (Education) and incoming Vice President, National Environmental Law Association.
- **McCormack P**, Director, Environment, Natural Resources and Energy Law Research Theme, Adelaide Law School, The University of Adelaide.
McDonald J, one of eight Lead Councillors, and Pecl G, one of 19 Councillors, on the new Biodiversity Council of Australia launched in December.

Melbourne-Thomas J, National Committee for Antarctic Research (Australian Academy of Science).

Melbourne-Thomas J, National Science Week Patron for Tasmania.

Nash KL, member of working group: Food footprint and environmental justice hosted by Ben Halpern at NCEAS.

Pecl G, Associate Editor npj Ocean Sustainability, Reviews in Fish Biology and Fisheries, Ecography, Frontiers Ocean Solutions.

Pecl G, Advisory Board of CORDIO East Africa.

Pecl G and Evans E, Advisory Board for the Global Ecosystem of Ocean Solutions (GEOS).

Pecl G, Advisory Panel for the Lenfest project ‘Enhancing adaptive capacity assessment in fisheries decision making’.


Pecl G, member of ‘Fisheries Strategies for Changing Oceans and Resilient Ecosystems by 2030’ (FishSCORE), a United Nations Ocean Decade programme.


Pecl G, co-lead of the SNAPP working group Governing Changing Oceans.

Pecl G, working group member for BIOSHIFTS International Working Group, Center for the Synthesis and Analysis of Biodiversity (France).


van Putten I, Scientific Steering Committee member for the Sustainable Seas National Science Challenge, New Zealand.

van Putten I, Research Advisory Board member for European Union project Climate Change and Future Marine Ecosystem Services and Biodiversity (FutureMARES).

van Putten I, External Advisory Board of the University of Hamburg Cluster of Excellence CLICCS.

Vince J, Associate Editor Policy Sciences.

Vince J, Editorial Board member of Cambridge Prisms – Plastics.


Willis K, Member of the management committee of the Australian Citizen Science Association.
PUBLIC PRESENTATIONS & EVENTS

- Bax N and S Pineda-Metz, ‘A short story on blue carbon’ presented on the Alfred Wagner Institute (AWI) @ AWIs4Future channel Wissenschaft fürs Wohnzimmer ‘Science in the living room’. https://www.youtube.com/watch?v=Odc5o6dKu4
- Layton C. Beer Aquatic - Can underwater gardening save our giant kelp?
- MacDonald DH. ‘How do you put a dollar value on Nature?’ Beaker St Festival, Tassie Science Road Trip Stop 3: Launceston, 10 August 2022.
- Pecl G, Squid Day Out, Spring Bay Squid Festival, trayapana / Triabunana, 26 Nov 2022.
- Puskic P. Boundaries. Exhibited at Contemporary Art Tasmania as part of MONA FOMA (29 January – 6 March 2022). Tess Campbell and Sam Mountford created a spatial installation to present their new film On the Shoreline, which has been influenced by the research of Institute for Marine and Antarctic Studies scientist, Peter Puskic. https://contemporaryarttasmania.org/programs/boundaries/
Strain B, was a roving scientist at Beaker St Science Festival, Hobart, 5 Aug 2022.


PODCASTS


Gretta Pecl “Linnean Future”
The Linnean Future Podcast Series is an initiative by The Linnean Society of London in response to the ongoing planetary emergency. This series brings you stories from around the world that explore the impacts of climate change on every aspect of our lives. Find here.

Gretta Pecl “Going, Going, Gone”
Gretta Pecl and Sakhile Koketso join this episode to discuss the many impacts of biodiversity loss, the challenges of combatting climate change at various scales, why biodiversity matters to all of us, and how our current trajectory is on track to making us the ‘crappiest ancestors ever’ for all our future generations – though we still have time to avoid the worst, with the right actions now. https://asiasociety.org/center-us-china-relations/ep4-going-going-gone

Kathy Willis “Ocean Protect Podcast, Season 2, Episode 10 (May 2020) “CSIRO’s Kathy Willis on preventing litter entering our oceans”
Dr Kathy Willis is a Fulbright Postdoctoral Fellow at the University of Washington and CSIRO Scientific Researcher on a mission to combat plastic pollution and reframe plastic as a valuable commodity rather than a throwaway item. In Kathy’s second appearance on the pod, we discuss the recent good news about plastic pollution on Australian beaches, spatial and temporal trends in plastic washing up on beaches along the US Pacific Northwest, citizen science, ‘biofoul’ on marine debris, and community-led informal waste management programs. https://podcasts.apple.com/ga/podcast/local-action-on-plastic-pollution-with-dr-kathy-willis/id1457637313?i=1000578338792
Scott Bennett and Cayne Layton were featured in an article "IMAS researchers working to restore Tasmania’s giant kelp forests with new large-scale project" - ABC News, by Isabella Podwinski. 24 Nov 2022. https://www.abc.net.au/news/2022-11-24/tasmania-giant-kelp-forests-to-be-restored-under-new-plan/101686756

Dr Cayne Layton and Dr Scott Bennett, photo credit: Luke Bowden, ABC News.


Kirsty Nash provided comments and quotes for Mongabay (online newspaper) w.r.t paper on fish sourced micronutrients: https://news.mongabay.com/2022/01/bleached-reefs-still-support-nutritious-fish-study-finds/
Kirsty Nash interviewed by Green + Simple (online magazine) for International Women’s Day talking about climate change and equality: https://greenandsimple.co/2022/03/women-on-equality-and-climate


Gretta Pecl “From sunny Queensland to snow covered Collinsvale in southern Tasmania”

Gretta Pecl was interviewed in Tasmanian Country Hour, 9 June 2022. https://www.abc.net.au/radio/programs/tas-country-hour/tasmanian-country-hour/13913160

Gretta Pecl was interviewed in ABC Southern Ocean Live Program. https://iview.abc.net.au/show/southern-ocean-live


Rowan Trebilco was interviewed on ABC Radio Hobart ‘Drive’ on marine chapter of state of the environment report, 19 July 2022.


Rowan Trebilco and Mibu Fischer were featured in the ECOS article: “State of the Environment report highlights pressures on our coasts and oceans”. https://ecos.csiro.au/soe-highlights-pressures-on-our-coasts-and-oceans/


Joanna Vince was interviewed by ABC Northern Tasmania and Josh Sampson FIVEAA Adelaide, about ‘Local waste management successfully reduces coastal plastic pollution’, article published 9 and 10 June 2022 (respectively).


Paper led by Kathy Willis was given a Research Highlight in Nature Reviews Earth & Environment by editor Chen Y. (2022) Local solutions to global pollution, https://doi.org/10.1038/s43017-022-00322-8


Joanna Vince was interviewed by ABC Northern Tasmania and Josh Sampson FIVEAA Adelaide, about ‘Local waste management successfully reduces coastal plastic pollution’, article published 9 and 10 June 2022 (respectively).


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VISITORS

Jon Reum and Phoebe Woodworth-Jeffcoats from NOAA were hosted by Rowan Trebilco and Julia Blanchard, October-November 2022.
CMS EVENTS

Future Seas Performance

In the year 2030, the Reverie floating platform is the ultimate in offshore luxury: a high-end tourist destination, fish farm and energy source. Without warning, it’s been taken down by hijackers. Now, Reverie designer Lara Nguyen is reluctantly pulled out of retirement to help infiltrate the facility she left a decade ago - and to face her own dark secrets.

*Full Metal Aquatic* is a high-stakes action thriller set in the oceans a decade from now. But crucially, the story takes place in two different futures. Working with researchers from the Future Seas project, writers Jordan Prosser and David Finnigan will tell the story of the Reverie’s hijacking in the future we hope to see - and in the future we want to prevent.

The performances were originally planned to be in person but were presented online due to COVID-19.

The event took place in two parts: a performance by David Finnigan and Jordan Prosser, followed by a game and discussion hosted by experts which unpacks the critical forces that are shaping the future of our oceans.

CMS hosted three performances on 2-3 February 2022, tailored to three audiences: the Future Seas contributors, the general public and key marine stakeholders. The events were attended by approximately 150 people.
Climate change matters: the Australian context - An Expert Panel organised by the Centre for Marine Socioecology

To coincide with the release of the second part of the IPCC 6th Assessment Report – Climate Change 2022: Impacts, Adaptation and Vulnerability, based on the work from IPCC Working Group II., the first global update on climate change since 2014, CMS hosted an in-person and online forum on 1 March 2022 to help inform and support policy makers and those interested in how Australia can reduce its vulnerability to the impacts of climate change.

The panel included CMS Lead Authors of the IPCC assessment reports Gretta Pecl, Jess Melbourne-Thomas and Andrew Constable and climate experts from IMAS Phillip Boyd and Neil Holbrook, chaired by Alistair Hobday.

The panel was attended by approximately 80 people, with over 100 also joining online.

Symposium “Connecting the dots: Knowledge brokering for impact and innovation”

This symposium was organized by Jess Melbourne-Thomas and aimed to empower early- and mid-career researchers to recognise and understand how knowledge brokering can enhance the impact and innovation of their research, contexts in which they are already knowledge brokering, and the skills and practice of knowledge brokering over 4 days sessions during February and March 2022.

The symposium was made possible thanks to funding from the Theo Murphy Initiative (Australia), through the Australian Academy of Science, CMS and CSIRO.

CMS Webinar: Anticipatory Ecology Meets Speculative Design

This webinar by multidisciplinary designer Sophie Falkeis, featured the project “First Encounters” - a multimedia walk-in installation – as well as the recently founded platform “The Encounters Lab”, displaying a cross disciplinary approach to communicating scientific data through means of visual storytelling, turning empirical facts into emotional realities.
CMS Seminar and Q&A panel on the marine chapter of the 2021 State of the Environment Report

The State of the Environment Report (SoE) provides an independent and authoritative 5-yearly synthesis of the state and trend of Australia’s environment and of the effectiveness of the management structures that are in place to mitigate and reduce negative impacts and support sustainability. It is tabled in Parliament as a legislative requirement every 5 years and aims to help shape policy and action, influence behaviours, and assess our actions as stewards of the Australian environment. The 2021 SoE report was released by Minister Tanya Plibersek with her ‘State of the Environment Address’ to the National Press Club on 19 July 2022.

The marine chapter of the 2021 SoE report was written by CMS/CSIRO researchers Rowan Trebilco, Mibu Fischer, Alistair Hobday, and Karen Evans and CSIRO researchers Cass Hunter and Linda Thomas (acting as independent experts on behalf of the Department of Climate Change, Energy, the Environment and Water).

CMS hosted a panel to hear first-hand from the authors Rowan Trebilco, Mibu Fischer and Karen Evans about the key findings, how indigenous knowledge was woven with western science in the chapter, and how the chapter and the report fits into the bigger picture of international efforts to chart a path to the oceans we want for the future we need.


CMS internal showcase

CMS had an in-house day in late July for CMS students and members. It was a great day full of activities to share our research and reconnect after the COVID-induced hiatus. We were very lucky to have members from the north and interstate joining us.

The day included a sneak peak of the beautiful ‘Sea Country’ film funded by CMS and produced by Stefan Andrews and Scott Bennet, with the participation of CMS member Dean Greeno. There were also networking activities, fabulous presentations from ECRs and students, ‘taster’ sessions on behavioural economics, a “You can’t ask that! The Academic Version” session, some project-generation workshops and ‘pitch’ funding sessions, finishing up with a relaxing BBQ and a heap of science-y and CMS-y haikus.

Denis Karcher (middle) received the best student presentation award, and Paris Tuohy (left) and Corrine Condie (right) received highly commended awards.
Training sessions

- Publishing with impact and pitching for suggest with Madi Green and Alistair Hobday
  CMS members Dr Madi Green and Dr Alistair Hobday ran a session on pitching and presentation skills in early July. The session was attended by more than 50 people (in person and online).
- Seminar on visual communication and Infographics workshop with Stacey McCormack
- Cultural training course by the Australian Institute of Aboriginal and Torres Strait Islander Studies (AIATSIS)
  The course was taken by 20 members and students and was completed this year.

“I completed it – fantastic course! Wish I could have done it with others, in hindsight, as lots to talk through.”
Emily Ogier

“I’m so grateful to CMS for supporting me to do it. It was really fantastic. I learned such a lot – including a whole lot of things that I would never have thought to look up or find out about on my own. I am particularly proud to be part of CMS, knowing that it is a group that really values cultural competency. Thank you so much for the chance to do it!”
Phil McCormack

“It has been worth spending time!”
Manon Simon

“I just thought I’d chip in to say that I have finished this course now and it was excellent. It was a bit of an investment in terms of time and emotion to do it properly, but if you haven’t already done it, I would say that it is well worth the effort.”
Anna Farmery
GRADUATED STUDENTS

Lynda Goldsworthy, PhD

Manon Simon, PhD

Kelsey Richardson, PhD

Julian Manning, PhD

Danielle Smith, PhD (graduated in absentia)

Brigette Wright, Master of Marine & Antarctic Studies

SUBMITTED THESES

Carla Sbrocchi title: “Practical insights for integrating social dimensions in fisheries management”; supervisors: Prof Kate Barclay (University of Technology Sydney), Dr Elizabeth Fulton (CSIRO/CMS), Emeritus Prof William Gladstone (University of Technology Sydney), Prof Laura Nahuelhual (Universidad Austral de Chile/CentroDEAL)

Catarina Serra Gonçalves (approved), title: “Assessing temporal trends of marine debris and the effectiveness of individual plastic debris mitigation strategies at a national and local level in Australia.”; supervisors: Jennifer Lavers (CMS), Alex Bond, Andrew Fischer, Heidi Taylor

Niyomi Pethiyagoda (approved), title: “Relative values of the coastal and marine environment: Ecosystem service valuation in multi-use governance contexts”; supervisors: Emily Ogier (IMAS), Prof Darla Hatton MacDonald (UTAS), and Dr Richard Little (CSIRO)

Peter Puskic title: “Impacts of plastic ingestion on seabirds”; supervisors: Dr Andrew Bridel (IMAS), Dr Lauren Roman (CSIRO), Assoc Prof Mary-Anne Lea (IMAS)
FUTURE PROJECTS & EVENTS FOR 2023

- ‘Sea country’ Film launch – 6 January 2023, featuring Dean Greeno and co-created by Scott Bennett
- International Temperature Reef Symposium 2023, 8-12 January 2023, Hobart - CMS has sponsored a socioecology session and student prize
- CMS and CABA ‘Science to Policy’ course for early career researchers – February 2023, developed and run by Rebecca Shellock
- SNAPP workshop on “Governing Changing Oceans”, 12-15 April, Bergen, Norway – co-led by Prof Tiffany Morrison from JCU and Greta Pect, Emily Ogier and Pip Cohen from CMS. Cayne Clayton, Andrew Sullivan and Coco Cullen-Knox will also be participating
- Effects of Climate Change on the World’s Ocean Conference, 17-21 April, Bergen, Norway – Greta Pect, Emily Ogier and Cayne Clayton will be presenting. Greta will also be a panellist for a University of Bergen ‘Science Bar’ event called “Ocean, climate and fish: A conversation with leading experts on the future of fish”, with NOAA’s Chief Science Advisor Cisco Werner
- Karen Evans will be taking on a leadership role with the United Nations World Ocean Assessment as a joint coordinator for the third cycle. Karen will be working with Roberto de Pinho, the Group of Experts team and the Secretariat at the United Nations Division of Ocean Affairs and Law of Sea, along with UN Oceans, ocean experts & the ocean community to deliver comprehensive information on the state of the marine environment, marine industries, marine management and socioeconomic aspects for use in decision making.
- CMS has a symposium session and associated workshop at EcoSummit 2023, being held on the Gold Coast in June. Rachel Kelly is convening the session called ‘Creating appetite for climate action – the future is now’
- AMSA 2023, Gold Coast, July 2023, Kathy Willis, Peter Puskic and Ana Catarina Serra-Goncalves will be chairing the symposium session on Marine, and Mibu Fischer is one of the co-convenors.
## Annex

### Executive Team
- Greta Pecl, CMS Director
- Beth Fulton, Deputy Director
- Cecilia Villanueva, Executive Support Officer
- Rachel Kelly, Knowledge Broker

### Steering Committee
- Alistair Hobday, CSIRO
- Beth Fulton, CSIRO
- Catriona MacLeod, IMAS
- Chris Carter, IMAS
- Dugald Tinch, TSBE
- Gillian Slocum, AAD
- Greta Pecl, IMAS

### Social Media Team
- Catarina Serra Goncalves
- Tormey Reimer

### Student Representative
- Malcolm Johnson

### CMS Members
- Alistair Hobday, CSIRO
- Andrew Constable, AAD
- Anna Farmery, U. of Wollongong
- Asta Audzonyte, IMAS
- Aysha Fleming, CSIRO
- Barbara Nowak, IMAS
- Barrett Wolfe, IMAS
- Benjamin Richardson, School of Law
- Beth Fulton, CSIRO
- Beth Penrose, TIA
- Beth Strain, IMAS
- Brigette Wright, IMAS
- Camilla Novaglio, IMAS
- Cara Sitzlein, CSIRO
- Carolina Garcia Imhof, Pacific Community New Caledonia
- Catriona MacLeod, IMAS
- Cayne Layton, IMAS
- Cecilia Villanueva, IMAS
- Chloe Lucas, Geography, Planning & Spatial Sciences
- Chris Civitare, ANU
- Chris Wilcox, CSIRO & Minderoo Foundation
- Connie Corkery, School of Education
- Daria Hatton MacDonald, TSBE
- David Mossop, NRE Tasmania
- David Smith, CSIRO
- Dean Greeno, Riawunna Centre
- Delphi Ward, CSIRO
- Denise Hardesty, CSIRO
- Dirk Welsford, AAD
- Dugald Tinch, TSBE
- Elisavet Spanou, IMAS
- Elizabeth Leane, School of Humanities
- Elizabeth Lester, School of Creative Arts and Media
- Eloise Wilson, IMAS
- Emily Ogier, IMAS
- Emma Hamasaki, IMAS
- Eva Plaganyi-Lloyd, CSIRO
- Fabio Boschetti, CSIRO
- Genevieve Phillips, IMAS
- Geoff Syme, CSIRO
- Graham Wood, School of Humanities
- Greta Pecl, IMAS
- Hannah Fogarty, Huon Aquaculture
- Ian Butler, ABARES
- Ingrid van Putten, CSIRO
- Jan McDonald, School of Law
- Jan Shaw, IMAS
- Javier Porobic, CSIRO
- Jeffrey McGee, School of Law & IMAS
- Jenn Scott, School of Psychological Sciences
- Jennifer Lavers, IMAS
- Jess Melbourne-Thomas, CSIRO
- Joanna Vince, School of Social Sciences
- Jonathan Reum, University of Washington
- Jonny Stark, AAD
- Joseph Wenta, University of Newcastle
- Julia Blanchard, IMAS
- Julia Santana Garcon, IMAS
- Karen Alexander, Heriot-Watt University
- Karen Evans, CSIRO
- Kathy Willis, CSIRO
- Katie Cresswell, IMAS
- Keith Sainsbury, IMAS
- Kirsty Nash, IMAS
- Larelle Bossi, IMAS
- Leo Dutra, CSIRO
- Linda Murray, Massey University
- Lynna Cortes Rueda, School of Law
- Madeline Green, CSIRO
- Marcus Haward, IMAS
- Maree Fudge, IMAS
- Mark Hemer, CSIRO
- Martin Exel, Austral Fisheries
- Mary Mackay, CSIRO
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- Matthew Andreotta, CSIRO
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- Phillipa Cohen, James Cook University
- Phillipa McCormack, University of Adelaide & UTAS School of Law
- Rachel Kelly, IMAS
- Rachel Nichols, University of Wollongong
- Rebecca Shellock, ANU
- Rich Little, CSIRO
- Richard Cottrell, IMAS
- Robert Stephenson, St. Andrews Biological Station
- Rosie Byers, IMAS
- Rowan Trebilco, CSIRO
- Sara Mynott, University of Victoria
- Sarah Fischer, IMAS
- Sarah Ugalde, IMAS
- Satoshi Yamazaki, TSBE
- Scott Bennett, IMAS
- Scott Condie, CSIRO
- Sean Tracey, IMAS
- Stewart Frusher, IMAS
- Stuart Corney, IMAS
- Swee-Hoon Chuah, TSBE
- Tony Smith, IMAS & CSIRO
- Valerija Komajoka, IMAS
- Vanessa Adams, Geography, Planning & Spatial Sciences

### CMS Students

#### Undergrad
- Giann Carroll, IMAS
- Monique Maclaine, Riawunna Centre & CSIRO

#### Honours and Masters
- Matt Teston, IMAS
- Megan Spiteri, IMAS
- Patrick Hudson, IMAS

#### PhDs
- Amara Steven, TSBE
- Angus Henderson, IMAS
- Anne Boothroyd, IMAS

#### CMS Alumni
- Carla Sbroccoli, UTS
- Catarina Serra Goncalves, IMAS
- Claire Pitt, School of Psychological Sciences
- Corrine Condie, IMAS
- Danielle Smith, School of Law
- Denis Karcher, ANU
- Dimuthu Jayakody, Geography, Planning & Spatial Sciences
- Julian Manning, IMAS
- Katie Marx, School of Humanities
- Kelly Hoareau, IMAS

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Image credit: Rowan Trebilco