



coasts | climate | oceans



CONTACT ME

s.erdmann@c2o.net.au

www.c2o.net.au



EXPERTISE

- Project management
- Scientific & report writing
- Referencing
- Graphic design & video editing
- Data analysis
- Statistical modelling & coding
- Marine and terrestrial fieldwork
- Population genetics
- Molecular laboratory work

QUALIFICATIONS

- Enrolled in PhD in Marine Science
James Cook University
- MSc in Marine Environmental Science
Carl-von-Ossietzky University of Oldenburg
- BSc in Biology
Heinrich-Heine University of Düsseldorf
- Australian Boat License (RMDL –
Recreational Marine Driver’s License)
- SSI Dive Master (>250 dives)

SANDRA ERDMANN MSc

Research Officer

CAREER GOALS & RESEARCH INTERESTS

With a strong background in marine science and extensive research experience, my expertise lies in marine ecology and evolution, population genetics, conservation and restoration. Throughout my career I developed a great interest for climate change and adaptation, water quality and anthropogenic impacts, and found deeper meaning in science communication. Therefore, my ultimate career goal is to bridge the gap between scientific research and management, ensuring meaningful contributions and a lasting positive impact on marine ecosystems worldwide.



2
peer-reviewed
publications



12
citations



2
technical
reports

h-index

1



19.8

CURRENT C₂O CONSULTING PROJECTS

Pacific Regional Climate Change Vulnerability Assessment

Australia Pacific Climate Partnership & Pacific Community | May 2024 – present

- Referencing

FIJI Enhancing Climate Resilience of Coastal Communities Project

ADB | January – February 2025

- Data analysis
- Report writing

PAST PROJECTS

Scientific Consensus Statement for Water Quality for the Great Barrier Reef

Australian Government Department of Agriculture, Water & Environment | Oct 2021 – 2025

- Reference manager using the Mendeley software
- General project support

NESP Tropical Water Quality Hub

Reef and Rainforest Research Centre | 2020 – 2022


- Synthesis report
- Workshop coordination



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COUNTRY EXPERIENCE

- Australia
- Germany
- Italy
- Belgium
- El Salvador

LANGUAGES

 English (working level proficiency)

 German (proficient, native)

 Italian (conversation)

Sandra Erdmann MSc

Research Officer

RELEVANT EXPERIENCE

Research Worker

TropWATER | 2020 – present

- Fieldwork for water quality sampling
- Literature research & data extraction for water quality modelling in collaboration with the Queensland Government
- DNA & RNA extraction of fish samples
- Programming and graphical outputs in R
- Website management

Research Worker

James Cook University | 2018 – 2020

- Fieldwork for coral restoration methods
- eDNA, DNA & RNA extraction of coral and mussel samples

SELECTED PUBLICATIONS

- Welch, D. J., Smith, A. K., Krusic-Golub, K., Erdmann, S., & Newman, S. J. (2023). Preliminary age-based life history characteristics of the dogtooth tuna, *Gymnosarda unicolor* (Ruppell, 1838), in the southwest Pacific Ocean. *Aquaculture and Fisheries*, 8(3), 323-331.
- Erdmann, S., Johnson, J. E., Abom, R., Waterhouse, J., and Westcott, D. A. (2021). Innovations in Crown-of-Thorns Starfish control on the Great Barrier Reef: A Synthesis of NESP Tropical Water Quality Hub research, Report to the National Environmental Science Program. Reef and Rainforest Research Centre Limited, Cairns (63pp.).
- González-Murcia, S. O., Erdmann, S. and Alvarado-Larios, R. (2020). Is this rock pool suitable habitat? Fish diversity in intertidal rock pools of El Zonte, El Salvador, *Revista Mexicana de Biodiversidad*
- Brodie, J., Johnson, J.E., Waterhouse, J., and Erdmann, S. (2019). Wastewater Pollution and Coral Reefs: Supporting Science. C₂O (Coasts Climate Oceans)