

# ALESSIO ROVERE



Ph.D. in Marine Environmental Sciences.  
Associate Professor in physical geography and geomorphology.  
Last update: July 20, 2023

## CONTACT

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📞 0000-0001-5575-1168

## SOCIAL

🐦 @alessio\_r\_  
📷 @Alessio\_Rovere  
🎧 Spotify  
📺 @CoastalScience

## SKILLS

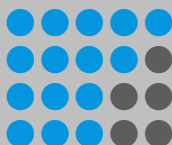
### Field

GNSS  
Drones  
SCUBA diving



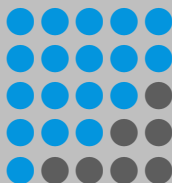
### Programming

GIS  
Python  
SQL  
HTML/PHP



### Languages

Italian  
English  
French  
Spanish  
German



## OPEN DATA

I share open-access datasets and presentations on the following platforms:

🔗 Zenodo  
🔗 PANGAEA  
🔗 Figshare

## WORK HISTORY

📅 Since 11/2021 📍 Università Ca' Foscari - Venezia (IT)	Associate Professor
📅 03/2019 - 10/2021 📍 MARUM and University of Bremen - Bremen (DE)	Independent research scientist
📅 03/2014 - 02/2019 📍 MARUM, University of Bremen and Leibniz ZMT - Bremen (DE)	Young Investigator Group Leader
📅 02/2012 - 02/2014 📍 Lamont Doherty Earth Observatory, Columbia University - New York (USA)	Postdoctoral research scientist
📅 10/2010 - 12/2016 📍 SEAMap SRL, a Spin-off company of the University of Genoa (IT)	Director (Amministratore Unico)

## HONORARY POSITIONS

📅 Since 2022 📍 MARUM, Center for Marine Environmental Sciences - Bremen (DE)	External member
📅 04/2014 - 08/2021 📍 Lamont Doherty Earth Observatory, Columbia University, New York (USA)	Adjunct Associate Research Scientist

## EDUCATION

📅 01/2008 - 12/2010 📍 University of Genoa (IT) European Ph.D. Label	Ph.D. in Marine Sciences
📅 01/2008 - 12/2010 📍 University of Genoa (IT) Marine Environmental Sciences	Master of science
📅 01/2008 - 12/2010 📍 University of Genoa (IT) Environmental Sciences	Bachelor of science

## TEACHING HABILITATIONS

- ✓ **Since 2020.** University Professor title (Germany), according to the §17 Abs. 1 Satz 2 BremHG
- ✓ **Since 2018.** Habilitation as 'Full Professor' (I Fascia) obtained for the subject 'Applied Geology, Physical Geography and Geomorphology' (04/A3) by the Italian Ministry of Education, University and Research
- ✓ **Since 2014.** Habilitation as 'Associate Professor' (II Fascia) obtained for the subject 'Applied Geology, Physical Geography and Geomorphology' (04/A3) by the Italian Ministry of Education, University and Research

## ✈ VISITING PERIODS

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- ✓ **2010.** University of Western Australia
- ✓ **2010.** Brunel University, UK
- ✓ **2009-2010.** University of the Aegean, GR
- ✓ **2004.** Universidad de Las Palmas de Gran Canaria (ERASMUS), ES

## 👥 INVITED SEMINARS AND TALKS

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- ✓ **Sept 2022** ECORD Summer School 2022 (DE)
- ✓ **Oct 2018 & Jan 2021.** Ca' Foscari University of Venice, IT
- ✓ **Oct 2018.** CEREGE, Université Aix-Marseille, FR
- ✓ **Dec 2017.** Bonn University, DE
- ✓ **May 2017.** University of Cambridge, UK
- ✓ **May 2017.** Université de Bretagne Occidentale, Brest, FR
- ✓ **Dec 2016.** American Geophysical Union, San Francisco, CA, USA
- ✓ **Sep 2016 & Sep 2015.** World Surf League PURE meeting, Trestles, CA, USA
- ✓ **Sep 2015, Feb 2014 & Dec 2014.** LDEO Columbia University, NY, USA
- ✓ **Jun 2013.** University of Bremen, DE
- ✓ **Apr 2012.** Rice University, Houston, TX, USA
- ✓ **Jun 2017, Mar 2012 & Feb 2011.** University of Genoa, IT
- ✓ **Nov 2008.** Université du Sud Toulon-Var, FR

## 🎓 COURSES

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### Coastal processes and hazards (48 hrs)

📅 a.y. 2022/23    🏛 Ca' Foscari University of Venice (IT)  
🎓 *MSc in Environmental Sciences*

### Earth Surface processes (48 hrs)

📅 a.y. 2021/22, 2022/23    🏛 Ca' Foscari University of Venice (IT)  
🎓 *BSc in Environmental Sciences*

### Clastic sedimentology: coastal and shelf dynamics

📅 a.y. 2018 to 2021    🏛 University of Bremen (DE)  
🎓 *BSc in Geosciences*

### ERASMUS Staff-teaching mobility (8 hrs)

📅 a.y. 2018    🏛 University of Genoa (IT)  
🎓 *MSc in Environmental Engineering*

### Geographic Information Systems

📅 a.y. 2017 and 2020    🏛 University of Bremen (DE)  
🎓 *BSc in Geosciences*

### Field course 'Marine Geological Project', Helgoland

📅 a.y. 2017    🏛 University of Bremen (DE)  
🎓 *BSc in Geosciences*

### Field course 'Coastal changes', Italy

📅 a.y. 2017 to 2019    🏛 University of Bremen (DE)  
🎓 *MSc in Marine geosciences*

### Paleo Sea Level Changes: Eustasy, Tectonics, Isostasy

📅 2014,2016,2018    🏛 University of Bremen (DE)  
🎓 *Ph.D. school GLOMAR*

### Field course 'Carbonate Sedimentology', Spain

📅 a.y. 2014    🏛 University of Bremen (DE)  
🎓 *MSc in Marine geosciences*

### Lectures and seminars as teaching assistant

📅 a.y. 2005 to 2011    🏛 University of Genoa (IT)  
🎓 *BSc and MSc in Environmental Sciences*

## 💡 IN A NUTSHELL

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I spent several periods as a visiting student or scientist at different Universities. I was invited to speak at seminars at many institutions, including some among the most prestigious in Europe and the US. I have taught a wide range of courses at BSc, MSc and PhD level.

## 💡 IN A NUTSHELL

I mentored postdoctoral researchers and supervised (or co-supervised) Ph.D. students in different countries and coming from different cultural backgrounds.

I supervised or co-supervised several theses both at bachelor and master level in different European universities.

## 📄 MENTORING AND SUPERVISION

### Postdoctoral researchers

- 👤 **Dr. Ciro Cerrone**  
📅 Since 2023      📖 Last Interglacial sea-level changes in Brazil
- 👤 **Dr. Silas Dean**  
📅 Since 2022      📖 Last Interglacial sea-level changes in the US East Coast
- 👤 **Dr. Denovan Chauveau**  
📅 Since 2022      📖 Modelling of last interglacial sea-level changes from fossil reefs
- 👤 **Dr. Nikos Georgiou**  
📅 Since 2022      📖 Last interglacial extreme wave events
- 👤 **Dr. Patrick Boyden**  
📅 Since 2022      📖 Paleocology of fossil reefs in the Caribbean
- 👤 **Dr. Deirdre D. Ryan**  
📅 2018-2021      📖 Last interglacial sea level changes
- 👤 **Dr. Evan J. Gowan**  
📅 2018-2021      📖 Ice sheet and glacial isostatic adjustment modelling
- 👤 **Dr. Thomas Lorscheid**  
📅 2017-2018      📖 Collection and analysis of Last interglacial sea level proxies
- 👤 **Dr. Daniel Harris**  
📅 2014-2016      📖 Hydrodynamics and sea level changes in coral reefs

### Ph.D. students

- 👤 **Karla Rubio Sandoval**  
📅 Since 2019      📖 Last interglacial sea level changes in the Western Atlantic
- 👤 **Katherine Maxwelll**  
📅 Since 2020      📖 Plietocene and Pliocene sea-level changes in Indonesia and the Philippines
- 👤 **Patrick Boyden**  
📅 2019-2022      📖 Last interglacial sea level changes in the Indo-Pacific  
🔗 [Link to Ph.D. thesis](#)
- 👤 **Maren Wohltmann Bender**  
📅 2016-2020      📖 Holocene sea-level changes in Southeast Asia  
🔗 [Link to Ph.D. thesis](#)
- 👤 **Thomas Lorscheid**  
📅 2014-2017      📖 The quantification of the indicative meaning of MIS 5e sea level indicators  
🔗 [Link to Ph.D. thesis](#)

## Master theses

**Title:** A methodology to compare sea-level index points and sea-level models

 **Juan Sebastian Garzón Alvarado**

 2022  University of Münster (DE)


**Title:** Evaluating the potential of nearshore Satellite-Derived Bathymetry (SDB) for Moorea Island using various data sets

 **Inès Vejzovic**

 2022  University of Bremen (DE)

**Title:** Extreme storms in Liguria in present and in future sea level rise conditions

 **Anna Rosati**

 2020  Università degli studi di Genova (IT)

**Title:** Database creation and analysis of subaqueous dune characteristics, Weser estuary

 **Clayton Soares**

 2020  University of Bremen (DE)

**Title:** Assessment and modelling of paleo and future tsunami waves: a case study for Ognina, SE Sicily (Italy)

 **Despo Kyriakoudi**

 2020  University of Bremen (DE)

**Title:** Last Interglacial reef terraces in Bonaire, Netherlands Antilles

 **Marco Tack**

 2020  University of Bremen (DE)

**Title:** Shoreline changes in Liguria, Italy

 **Marc K. Brand**

 2019  University of Bremen (DE)

**Title:** Last Interglacial sea levels in the Bergeggi marine cave, Italy

 **Maria Reimer**

 2018  University of Bremen (DE)

**Title:** Effects of Hurricane Matthew under different sea level scenarios

 **Patrick Boyden**

 2018  University of Bremen (DE)

**Title:** Drones As Low-Altitude Remote Sensing Tool In Coastal Areas

 **Jan Drechsel**

 2018  University of Bremen (DE)

**Title:** Involvement of coral shapes in reef structural complexity

 **Carl Grellet-Munoz**

 2016  EPHE-CRIOBE-Université de Perpignan (FR)

**Title:** Short and medium term coastal changes in Keta (Ghana) – local views and interpretations

 **Katarina Trstenjak**

 2016  University of Bremen (DE)

**Title:** Valutazione degli effetti della pesca del dattero di mare (*L. lithophaga*) sulla tessitura dei clasti al piede della falesia

 **Stefano Bellati**


 2006  Università degli studi di Genova (IT)

## Bachelor theses

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**Title:**Divulgazione scientifica e storytelling: i coralli dei Caraibi come testimoni di un clima passato usato come analogo dei cambiamenti climatici futuri

 **Anna Agnoletto**

 2023  Ca' Foscari University of Venice (IT)

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**Title:** Mappatura GIS delle beachrocks presenti lungo un tratto di Riviera ligure di Ponente e considerazioni riguardo il loro utilizzo come indicatori della variazione del livello del mare dall'età pre-industriale

 **Giorgio Stocco**

 2023  Ca' Foscari University of Venice (IT)

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**Title:** Reassessment of Pleistocene amino acid racemization ages in the Mediterranean

 **Dennis Frenke**

 2021  University of Bremen (DE)

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**Title:** Analysis of Last Interglacial virtual outcrops in Curacao, Leeward Antilles

 **Ann-Kathrin Petersen**

 2020  University of Bremen (DE)

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**Title:** Shoreline changes in the island of Helgoland within one season

 **Bastian Hirsche**

 2018  University of Bremen (DE)

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**Title:** Maldivian reefs: geomorphological and environmental characteristics

 **Giorgia Russo**

 2010  Università degli studi di Genova (IT)

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## € FUNDING

### Projects managed as Principal Investigator

- ✓ **2019-2025.** European Research Council Starting Grant WARMCOASTS 'Sea level and extreme waves in the Last Interglacial'<sup>1</sup>  
€2.000.000
- ✓ **2014-2019.** Excellence Initiative, University of Bremen. Structural funding for the Junior Group "Sea Level and Coastal Changes"<sup>2</sup>  
€670.000
- ✓ **2014-2019.** Leibniz Centre for Tropical Marine Research. Structural funding for the Junior Group "Sea Level and Coastal Changes"  
€300.000
- ✓ **2016-2021.** German Science Foundation "SPP Sea Level" - "Holocene sea-level changes in Southeast Asia"<sup>1</sup>  
€214.000
- ✓ **2010-2015.** Managing of research and development and consulting projects with the University spinoff 'SEAMap srl (ltd)' <sup>3</sup>  
€150.000

### Project participated as Co-Principal Investigator

- ✓ **2022-2024.** German Science Foundation "Tropical climate variability and coral reefs" - "Frozen in time: Paleoecology of coral reefs" <sup>4</sup>  
€275.000
- ✓ **2016-2017.** Leibniz Centre for Tropical Marine Research Core Budget Project Funding "From ground to sky: bridging scales in the study of coastal changes using satellites, drones and field-based measurements"  
€78.000
- ✓ **2018-2020.** Helmholtz Exzellenznetzwerks "The Polar System and its Effects on the Ocean Floor - Activity 1 - Polar climate sensitivity and response in a warmer world: Antarctic ice-sheet melting, sea-ice and sea level changes"  
€440.000
- ✓ **2016-2017.** Leibniz Centre for Tropical Marine Research Core Budget Project Funding "ZMT PRO - A ZMT portal to explore new research opportunities"  
€127.000
- ✓ **2013-2015.** MIRAMAR - PO CRO European Social Fund, Regione Liguria "Human Capital" (Genova)  
€51.600

### Funds for conferences and workshops

- ✓ **2018-2022.** International Union for Quaternary Sciences and PAGES - Past Global Changes, funding for meetings of the PALSEA working group<sup>5</sup>  
€~20.000
- ✓ **2019.** European Geosciences Union Coastal Change and Evolution (Coche) training school 2019<sup>5</sup>  
€~5.000
- ✓ **2012-2016.** International Union for Quaternary Sciences, funding for meetings of the 'MEDFLOOD' and 'MOPP' working groups<sup>5</sup>  
€~20.000

<sup>1</sup> Includes indirect costs; <sup>2</sup> Does not include PI salary, that was funded by the same grant; <sup>3</sup> Estimated total project volume, excluding VAT and including funds for spinoff startup; <sup>4</sup> This project was written by A. Rovere as PI and left to an alternate PI (C. Wild) after A. Rovere moved away from Germany. Does not include overheads. <sup>5</sup> Funds granted for the organization of conferences and workshops, mostly used to support travel of Early Career Researchers and scientists from low-income countries.

## 💡 IN A NUTSHELL

I led several projects as Principal Investigator (PI), amounting to a **total of 3.3 million €** of research funding (including indirect costs and overheads). I also participated to several research projects as co-PI, amounting to a **total of more than 970 thousand €**.

In projects where I acted as PI, I directly managed funds, personnel and took direct responsibility for the advancement of project activities. In projects where I acted as Co-PI, I participated in the scientific activities supporting the main PI but did not take direct budget responsibilities.

I participated to the organization of conferences and workshops, directly managing the funds given from associations and institutions to cover expenses and invite **young scientists and scientists from low-income countries**. For these activities, I contributed to obtain and manage (in different capacities) **about 45 thousand €**.

## 💡 IN A NUTSHELL

I am a contributing author of the IPCC 6th Assessment Report. I am the President of the "Coastal and Marine Processes" commission of the International Union of Quaternary Sciences. I have led two international working groups on paleo sea-level changes, and I have been convener or co-convener of several sessions at several international conferences. I have also co-organised several workshops and meetings.

I have edited two special issues in international journals, one book, and I am editor of two international journals. I reviewed several manuscripts and research proposals.

## 🏛️ SERVICE

### Academic service

- ✓ **Since 2023.** President of the "Coastal and Marine Processes" commission of the International Union for Quaternary Sciences (INQUA)
- ✓ **Since 2022.** Member of the "Erasmus commission for the Environmental Sciences" (Ca' Foscari DAIS Department Council, 13.12.2022)
- ✓ **Since 2022.** Member of the "Ca' Foscari ERC Board" (Ca' Foscari Rector's Decree 815/2022)
- ✓ **Since 2022.** Member of the "ESALab" Scientific Committee (Ca' Foscari and European Space Agency)
- ✓ **Since 2022.** Member of the "Technical and Scientific Committee" of the Cinque Terre Marine Protected Area (IT)
- ✓ **2020.** Contributing author for the 6th Assessment Report of the Intergovernmental Panel on Climate Change
- ✓ **2018-2023.** Co-leader of the International working group 'PALSEA' PALeo constraints on SEA level rise, funded by PAGES and INQUA
- ✓ **2012-2016.** Co-leader of the International working group 'MEDFLOOD', sponsored by INQUA

### Editor / reviewer roles

- ✓ **Since 2022.** Journal editor - Earth System Science Data, Copernicus (EGU)
- ✓ **Since 2018.** Journal editor - Climate of the Past, Copernicus (EGU)
- ✓ **2019-2022.** Book editor - Book: UAVs in Environmental Sciences
- ✓ **2019-2022.** Special Issue Editor - Earth System Science Data: The World Atlas of Last Interglacial Shorelines
- ✓ **2017-2018.** Special Issue Editor - Quaternary Science Reviews: Geographic Variability of Holocene Relative Sea Level
- ✓ **2013 to 2017.** Editor - Alpine and Mediterranean Quaternary, Journal of the Italian Association for Quaternary Studies
- ✓ **2013-2014.** Editor - Quaternary Perspectives, INQUA, International Union for Quaternary Sciences
- ✓ **Since 2012.** Reviewer for more than 50 manuscripts submitted to international journals, among which Nature, Nature Geoscience, and Nature Communications. See my reviewer profile on Web Of Science
- ✓ **Since 2015.** Reviewer for research proposals to the Swiss Science Foundation; Humboldt Foundation; Israel Science Foundation; The Petroleum Research Fund (American Chemical Society); University of Singapore; National Geographic

## ORGANIZATION OF MEETINGS

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### Conferences, workshops and convened sessions

- ✓ **2023.** Convener and session chair of Session 89 "Cenozoic sea-level indicators and ice sheet constraints to global sea-level change" at the INQUA conference in Rome (July 2023)
- ✓ **2022.** Co-organizer of the 2022 PALSEA meeting, Singapore and Online
- ✓ **2022.** Co-convener at the PAGES Open Science Meeting. Session: "Last Interglacial"
- ✓ **2021-2022.** Co-organizer of a webinar series on sea level, GIA, and ice sheets, organised jointly by PALSEA, WCRP (sea level), IAG, and SERCE
- ✓ **2020.** Co-organizer of the "PALSEA Express" online workshop
- ✓ **2019.** Co-organizer of the CoChE Summer school. Coastal Changes and Evolution. Oristano, IT
- ✓ **2019.** Co-organizer of the PALSEA workshop "Using ecological and chronological data to improve proxy-based paleo sea level reconstructions ", Dublin, IE
- ✓ **2017.** Co-organizer of the PALSEA-QUIGS meeting on "Climate, ice sheets and sea level during past interglacial periods". Galloway, New Jersey, USA
- ✓ **2017.** Co-convener at the GeoBremen conference. Session: Coastal depositional environments & processes
- ✓ **2015.** Convener at the American Geophysical Union 2015, Session PP11E: Sea Levels and Ice Sheets during Past Warm Periods: Looking to the Past to Understand the Future
- ✓ **2012 to 2016.** Co-organizer of the annual MEDFLOOD workshop (2012, Rome, IT - 2014, Haifa, IL - 2016, Bremen, DE)
- ✓ **2013.** Organizer of the weekly seminar at Lamont Doherty Earth Observatory, Biology and Paleo Environment Division

## IN A NUTSHELL

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I organised several international conferences and workshops, and I regularly convene sessions at major international meetings.



## 💡 IN A NUTSHELL

My research activities were reported by several media outlets, including newspapers 📰, radios 📻, TV channels 📺, and websites 🌐. I run my own podcast and I maintain a YouTube page with playlists dedicated to education in the geosciences

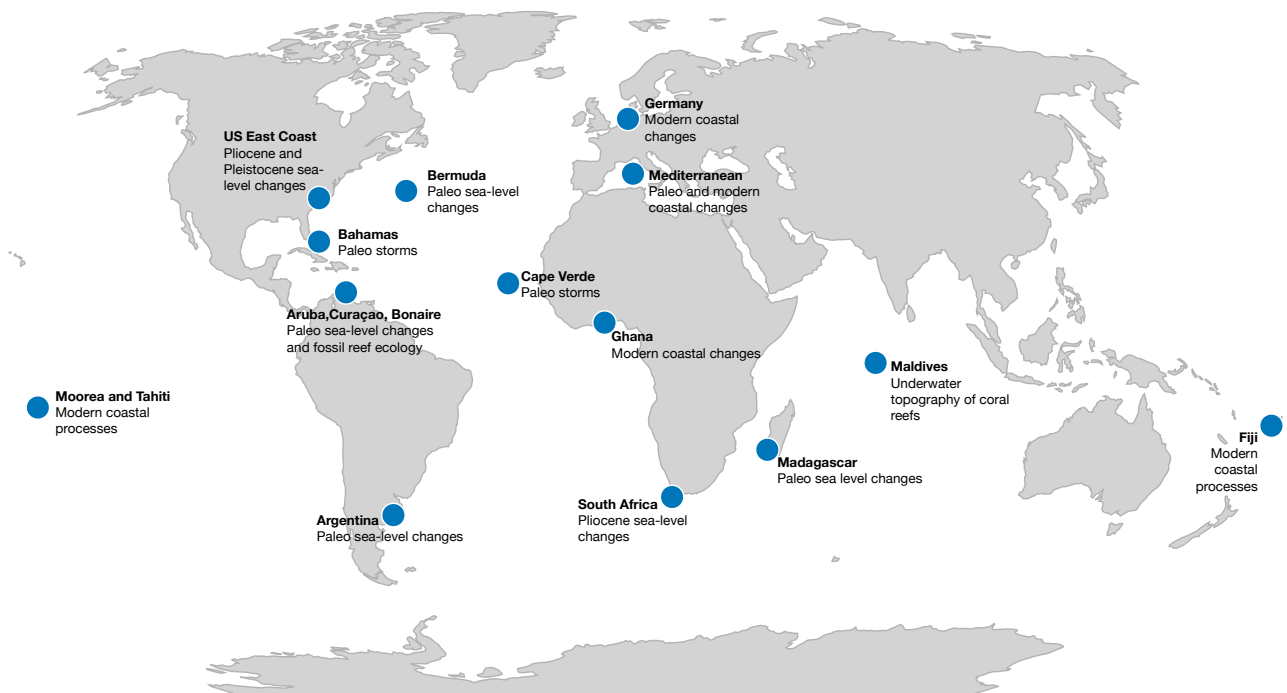
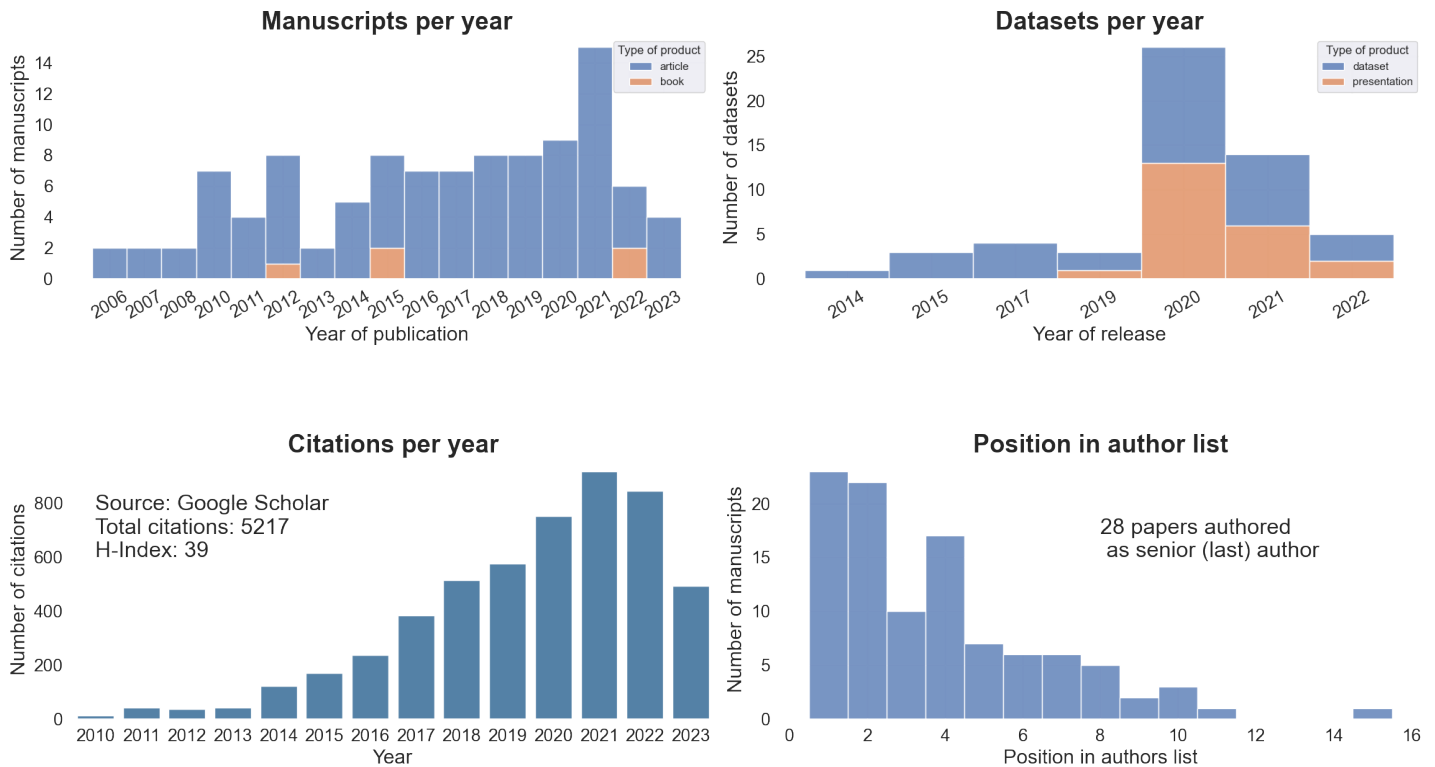
## 🗣️ OUTREACH AND MEDIA REPORTS

- 🎙️ **2023.** Le onde che ci fanno sognare
- 📺 **2022.** YouTube channel
- 📰 **2022.** Se sparisse il ghiaccio dei Poli...  
*Focus (Italy)*
- 🌐 **2021.** Surprisingly fast ice-melts in past raise fears about sea level rise  
*Horizon Magazine (EU)*
- 📰 **2021.** E se il mare del passato fosse stato più basso di quanto crediamo?  
*Oggiscienza (Italy)*
- 📰 **2021.** La sfida delle inondazioni, sempre più violente e frequenti  
*Le Scienze (Italy)*
- 📰 **2020.** South African seas up to 30m higher show a wet planet under siege  
*DailyMaverick (RSA)*
- 📰 **2020.** Sea-level rise projections can improve with state-of-the-art model  
*Science Daily (USA)*
- 📰 **2017.** Ancient storms could have hurled huge boulders, scientists say  
*The Washington Post (USA)*
- 📰 **2017.** Drohnen liefern detailreiche Einblicke in Korallenriffe  
*Der Standard (AU)*
- 📻 **2017.** Mit Drohnen über dem Korallenriff  
*Deutschland Radio (DE)*
- 🌐 **2017.** Riffe schützen Inseln vor Monsterwellen.  
*Die Welle (DE)*
- 📺 **2017.** Drohnen für die Wissenschaft  
*ARTE TV (DE)*
- 📺 **2017.** Mit Drohnen gegen die Korallenbleiche  
*Welt (DE)*
- 📰 **2016.** I droni contro l'erosione delle coste  
*Dronezine (IT)*
- 📰 **2015.** Quatre chercheurs au milieu des surfeurs  
*La Depeche de Tahiti (FR)*
- 📰 **2013.** Il business che spinge la startup é l'ecosistema costiero  
*Il Secolo XIX (IT)*
- 📰 **2013.** How High Could the Tide Go?  
*New York Times (USA)*
- 📰 **2011.** I protagonisti della ricerca scientifica in mare si raccontano  
*SubAqua magazine (IT)*

## MY RESEARCH

My research focuses on past sea-level changes and past climates, and their significance as analogues for the future of our planet. I have a parallel interest in modern coastal environments, where I investigate coastal erosion, extreme wave events, interactions between ecological and geological processes and trajectories of coastlines and nearshore environments under changing climates and sea levels.

Below are shown some infographics on my research outputs (manuscripts and datasets) and the areas where I worked. The full list of outputs is listed at the end of the CV.



## LIST OF PUBLICATIONS

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Names of mentored postdocs, Ph.D. students or supervised students are underlined

### BOOKS AND BOOK CHAPTERS

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I authored **4 book chapters** and **one textbook**

- Casella, E., & **Rovere**, A. (2022). *Other UAV sensors (Chapter 2.7)* (A. Eltner, D. Hoffmeister, A. Kaiser, P. Karrasch, L. Klingbeil, C. Stöcker, & A. **Rovere**, Eds.). WBG Academic.
- Eltner, A., Hoffmeister, D., Kaiser, A., Karrasch, P., Klingbeil, L., Stöcker, C., & **Rovere**, A. (Eds.). (2022). *UAVs for the environmental sciences - methods and Application* (1st edition). WBG Academic.
- Bianchi, C. N., Morri, C., Lasagna, R., Montefalcone, M., Gatti, G., Parravicini, V., & **Rovere**, A. (2015). *Resilience of the Marine Animal Forest* (S. Rossi, L. Bramanti, A. Gori, & C. del Valle, Eds.). Springer International Publishing. [https://doi.org/10.1007/978-3-319-17001-5\\_35-1](https://doi.org/10.1007/978-3-319-17001-5_35-1)
- Rovere**, A., Antonioli, F., & Bianchi, C. N. (2015). *Chapter 18 Fixed biological indicators* (I. Shennan, A. J. Long, & B. P. Horton, Eds.). Wiley Online Library.
- Bianchi, C., Morri, C., Chiantore, M., Parravicini, V., & **Rovere**, A. (2012). *Mediterranean Sea biodiversity between the legacy from the past and a future of change* (N. Stambler, Ed.). Nova Publishers.

### ARTICLES

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I authored **99 peer-reviewed articles**

- Hollyday, A., Austermann, J., Lloyd, A., Hoggard, M., Richards, F., & **Rovere**, A. (2023). A revised estimate of early pliocene global mean sea level using geodynamic models of the patagonian slab window. *Geochemistry, Geophysics, Geosystems*, 24(2), e2022GC010648. <https://doi.org/https://doi.org/10.1029/2022GC010648>
- Mann, T., Schöne, T., Kench, P., Lambeck, K., Ashe, E., Kneer, D., Beetham, E., Illigner, J., **Rovere**, A., Marfai, M. A., & Westphal, H. (2023). Fossil Java Sea corals record Laurentide ice sheet disappearance. *Geology*. <https://doi.org/10.1130/G51038.1>
- Rovere**, A., Ryan, D. D., Vacchi, M., Dutton, A., Simms, A. R., & Murray-Wallace, C. V. (2023). The world atlas of last interglacial shorelines (version 1.0). *Earth System Science Data*, 15(1), 1–23. <https://doi.org/10.5194/essd-15-1-2023>
- Weil-Accardo, J., Boyden, P., **Rovere**, A., Godeau, N., Jaosedy, N., Guihou, A., Humblet, M., Rajaonarivelo, M., Austermann, J., & Deschamps, P. (2023). New datings and elevations of a fossil reef in lembetabe, southwest madagascar: Eustatic and tectonic implications. *Quaternary Science Reviews*, 313, 108197. <https://doi.org/https://doi.org/10.1016/j.quascirev.2023.108197>
- Casella, E., Lewin, P., Ghilardi, M., **Rovere**, A., & Bejarano, S. (2022). Assessing the relative accuracy of coral heights reconstructed from drones and structure from motion photogrammetry on coral reefs. *Coral Reefs*, 1–7. <https://doi.org/10.1007/s00338-022-02244-9>
- Scussolini, P., Dullaart, J., Muis, S., **Rovere**, A., Bakker, P., Coumou, D., Renssen, H., Ward, P. J., & Aerts, J. C. J. H. (2022). Modelled storm surge changes in a warmer world: The last interglacial. *EGU sphere*, 2022, 1–20. <https://doi.org/10.5194/egusphere-2022-101>
- Boyden, P., Weil-Accardo, J., Deschamps, P., Godeau, N., Jaosedy, N., Guihou, A., Rajaonarivelo, M. N., O'Leary, M., Humblet, M., & **Rovere**, A. (2022). Revisiting Battistini: Pleistocene Coastal Evolution of Southwestern Madagascar. *Open Quaternary*, 8, 14. <https://doi.org/10.5334/oq.112>
- Gowan, E. J., Zhang, X., Khosravi, S., **Rovere**, A., Stocchi, P., Hughes, A. L. C., Gyllencreutz, R., Mangerud, J., Svendsen, J.-I., & Lohmann, G. (2022). Reply to: Towards solving the missing ice problem and the importance of rigorous model data comparisons. *Nature Communications*, 13(1), 6264. <https://doi.org/10.1038/s41467-022-33954-x>
- Carlot, J., Kayal, M., Lenihan, H. S., Brandl, S. J., Casey, J. M., Adjeroud, M., Cardini, U., Merciere, A., Espiau, B., Barneche, D. R., **Rovere**, A., Hédouin, L., & Parravicini, V. (2021). Juvenile corals underpin coral reef carbonate production after disturbance. *Global Change Biology*, 27(11), 2623–2632. <https://doi.org/10.1111/gcb.15610>
- Cerrone, C., Vacchi, M., Fontana, A., & **Rovere**, A. (2021a). Last Interglacial sea-level proxies in the western Mediterranean. *Earth System Science Data*, 13(9), 4485–4527. <https://doi.org/10.5194/essd-13-4485-2021>
- David, C. G., Kohl, N., Casella, E., **Rovere**, A., Ballesteros, P., & Schlurmann, T. (2021). Structure-from-Motion on shallow reefs and beaches: Potential and limitations of consumer-grade drones to reconstruct topography and bathymetry. *Coral Reefs*, 40(3), 835–851. <https://doi.org/10.1007/s00338-021-02088-9>
- Dyer, B., Austermann, J., D'Andrea, W. J., Creel, R. C., Sandstrom, M. R., Cashman, M., **Rovere**, A., & Raymo, M. E. (2021). Sea-level trends across the Bahamas constrain peak last interglacial ice melt. *Proceedings of the National Academy of Sciences of the United States of America*, 118(33), 1–11. <https://doi.org/10.1073/pnas.2026839118>
- Kaniewski, D., Marriner, N., Cheddadi, R., Morhange, C., Vacchi, M., **Rovere**, A., Faivre, S., Otto, T., Luce, F., Carre, M. B., Benčić, G., & Van Campo, E. (2021). Coastal submersions in the north-eastern Adriatic during the last 5200 years. *Global and Planetary Change*, 204(July), 1–11. <https://doi.org/10.1016/j.gloplacha.2021.103570>
- Scardino, G., Rizzo, A., De Santis, V., Kyriakoudi, D., **Rovere**, A., Vacchi, M., Torrisi, S., & Scicchitano, G. (2021). Insights on the origin of multiple tsunami events affected the archaeological site of Ognina (south-eastern Sicily, Italy). *Quaternary International*. <https://doi.org/10.1016/j.quaint.2021.09.013>
- Siriwardane De Zoysa, R. D., Schöne, T., Herbeck, J., Illigner, J., Haghighi, M., Simarmata, H., Porio, E., **Rovere**, A., & Hornidge, A. (2021). The 'wickedness' of governing land subsidence: Policy perspectives from urban southeast Asia. *PLoS ONE*, 16(6 June), 1–25. <https://doi.org/10.1371/journal.pone.0250208>

- Boyden, P., Casella, E., Daly, C., & **Rovere**, A. (2021). Hurricane Matthew in 2100: Effects of extreme sea level rise scenarios on a highly valued coastal area (Palm Beach, FL, USA). *Geo-Marine Letters*, 41(4), 43. <https://doi.org/10.1007/s00367-021-00715-6>
- Boyden, P., Weil-Accardo, J., Deschamps, P., Oppo, D., & **Rovere**, A. (2021). Last interglacial sea-level proxies in East Africa and the Western Indian Ocean. *Earth System Science Data*, 13(4), 1633–1651. <https://doi.org/10.5194/essd-13-1633-2021>
- Drechsel, J., Khan, N. S., & **Rovere**, A. (2021). PALEO-SEAL: A tool for the visualization and sharing of Holocene sea-level data. *Quaternary Science Reviews*, 259, 106884. <https://doi.org/10.1016/j.quascirev.2021.106884>
- Gowan, E. J., **Rovere**, A., Ryan, D. D., Richiano, S., Montes, A., Pappalardo, M., & Aguirre, M. L. (2021). Last interglacial (MIS 5e) sea-level proxies in southeastern South America. *Earth System Science Data*, 13(1), 171–197. <https://doi.org/10.5194/essd-13-171-2021>
- Gowan, E. J., Zhang, X., Khosravi, S., **Rovere**, A., Stocchi, P., Hughes, A. L. C., Gyllencreutz, R., Mangerud, J., Svendsen, J. I., & Lohmann, G. (2021). A new global ice sheet reconstruction for the past 80 000 years. *Nature Communications*, 12(1), 1–9. <https://doi.org/10.1038/s41467-021-21469-w>
- Maxwell, K., Westphal, H., & **Rovere**, A. (2021a). A standardized database of Last Interglacial (MIS 5e) sea-level indicators in Southeast Asia. *Earth System Science Data*, 13(9), 4313–4329. <https://doi.org/10.5194/essd-13-4313-2021>
- Rubio-Sandoval, K., **Rovere**, A., Cerrone, C., Stocchi, P., Lorscheid, T., Felis, T., Petersen, A.-K., & Ryan, D. D. (2021). A review of last interglacial sea-level proxies in the western Atlantic and southwestern Caribbean, from Brazil to Honduras. *Earth System Science Data*, 13(10), 4819–4845. <https://doi.org/10.5194/essd-13-4819-2021>
- Vacchi, M., Joyse, K. M., Kopp, R. E., Marriner, N., Kaniewski, D., & **Rovere**, A. (2021a). Climate pacing of millennial sea-level change variability in the central and western Mediterranean. *Nature Communications*, 12(1), 1–9. <https://doi.org/10.1038/s41467-021-24250-1>
- Carlot, J., **Rovere**, A., Casella, E., Harris, D., Grellet-Muñoz, C., Chancerelle, Y., Dormy, E., Hedouin, L., & Parravicini, V. (2020). Community composition predicts photogrammetry-based structural complexity on coral reefs. *Coral Reefs*, 39, 967–975. <https://doi.org/10.1007/s00338-020-01916-8>
- Casella, E., Drechsel, J., Winter, C., Benninghoff, M., & **Rovere**, A. (2020). Accuracy of sand beach topography surveying by drones and photogrammetry. *Geo-Marine Letters*, 40(2), 255–268. <https://doi.org/10.1007/s00367-020-00638-8>
- Gilford, D. M., Ashe, E. L., DeConto, R. M., Kopp, R. E., Pollard, D., & **Rovere**, A. (2020). Could the Last Interglacial Constrain Projections of Future Antarctic Ice Mass Loss and Sea-level Rise? *Journal of Geophysical Research: Earth Surface*, 125(10), 1–19.
- Hearty, P. J., **Rovere**, A., Sandstrom, M. R., O’Leary, M. J., Roberts, D., & Raymo, M. E. (2020). Pliocene pleistocene stratigraphy and sea level estimates, Republic of South Africa with implications for a 400 ppmv CO<sub>2</sub> world. *Paleoceanography and Paleoclimatology*, 1–23. <https://doi.org/10.1029/2019pa003835>
- Khimasia, A., **Rovere**, A., & Pichler, T. (2020). Hydrothermal areas , microbial mats and sea grass. *Journal of Maps*, 16(2), 348–356. <https://doi.org/10.1080/17445647.2020.1748131>
- Rovere**, A., Pappalardo, M., Richiano, S., Aguirre, M. L., Sandstrom, M. R., Hearty, P. J., Austermann, J., Castellanos, I., & Raymo, M. E. (2020a). Higher than present global mean sea level recorded by an Early Pliocene intertidal unit in Patagonia (Argentina). *Communications Earth & Environment*, 1(1), 1–10. <https://doi.org/10.1038/s43247-020-00067-6>
- Bender, M., Mann, T., Stocchi, P., Kneer, D., Schöne, T., Illigner, J., Jompa, J., & **Rovere**, A. (2020a). Late Holocene ( 0 – 6 ka ) sea-level changes in the Makassar Strait , Indonesia. *Climate of the Past*, 16, 1187–1205. <https://doi.org/10.5194/cp-16-1187-2020>
- Vacchi, M., Berriolo, G., Schiaffino, F., **Rovere**, A., Anthony, E. A., & Corradi, N. (2020). Assessing the efficacy of nourishment of a Mediterranean beach using bimodal fluvial sediments and a specific placement design. *Geo-Marine Letters*. <https://doi.org/10.1007/s00367-020-00664-6>
- Vacchi, M., Ghilardi, M., Stocchi, P., Furlani, S., Rossi, V., Buosi, C., **Rovere**, A., & De Muro, S. (2020). Driving mechanisms of Holocene coastal evolution of the Bonifacio Strait (Western Mediterranean). *Marine Geology*, 427(May), 106265. <https://doi.org/10.1016/j.margeo.2020.106265>
- Capron, E., **Rovere**, A., Austermann, J., Axford, Y., Barlow, N. L. M., Carlson, A. E., de Vernal, A., Dutton, A., Kopp, R. E., McManus, J. F., Menviel, L., Otto-Bliesner, B. L., Robinson, A., Shakun, J. D., Tzedakis, P. C., & Wolff, E. W. (2019). Challenges and research priorities to understand interactions between climate, ice sheets and global mean sea level during past interglacials. *Quaternary Science Reviews*, 219, 308–311. <https://doi.org/10.1016/j.quascirev.2019.06.030>
- Castellanos-Galindo, G. A., Casella, E., Mejía-Rentería, J. C., & **Rovere**, A. (2019). Habitat mapping of remote coasts: Evaluating the usefulness of lightweight unmanned aerial vehicles for conservation and monitoring. *Biological Conservation*, 239(November), 108282. <https://doi.org/10.1016/j.biocon.2019.108282>
- Engelhart, S. E., Pilarczyk, J. E., & **Rovere**, A. (2019). Storms and extreme events: Insights from the historical and paleo record. *Past Global Changes Magazine*, 27(1), 2017–2018. <https://doi.org/10.22498/pages.27.1.26>
- Khan, N. S., Hibbert, F., & **Rovere**, A. (2019). Sea-level databases. *Past Global Changes Magazine*, 27(1), 10–11. <https://doi.org/10.22498/pages.27.1.10>
- Khan, N. S., Horton, B. P., Engelhart, S., **Rovere**, A., Vacchi, M., Ashe, E. L., Törnqvist, T. E., Dutton, A., Hijma, M. P., & Shennan, I. (2019). Inception of a global atlas of sea levels since the Last Glacial Maximum. *Quaternary Science Reviews*, 220, 359–371. <https://doi.org/10.1016/j.quascirev.2019.07.016>
- Mann, T., Bender, M., Lorscheid, T., Stocchi, P., Vacchi, M., Switzer, A., & **Rovere**, A. (2019a). Relative sea-level data from the SEAMIS database compared to ICE-5G model predictions of glacial isostatic adjustment. *Data in Brief*, 27, 1–15. <https://doi.org/10.1016/j.dib.2019.104600>
- Mann, T., Bender, M., Lorscheid, T., Stocchi, P., Vacchi, M., Switzer, A. D., & **Rovere**, A. (2019b). Holocene sea levels in Southeast Asia, Maldives, India and Sri Lanka: The SEAMIS database. *Quaternary Science Reviews*, 219, 112–125. <https://doi.org/10.1016/j.quascirev.2019.07.007>
- Lorscheid, T., & **Rovere**, A. (2019). The indicative meaning calculator – quantification of paleo sea-level relationships by using global wave and tide datasets. *Open Geospatial Data, Software and Standards*, 4(1), 1–8. <https://doi.org/10.1186/s40965-019-0069-8>

- Bianchi, C. N., Cocito, S., Diviacco, G., Dondi, N., Fratangeli, F., Montefalcone, M., Parravicini, V., **Rovere**, A., Sgorbini, S., Vacchi, M., & Morri, C. (2018). The park never born: Outcome of a quarter of a century of inaction on the sea-floor integrity of a proposed but not established Marine Protected Area. *Aquatic Conservation: Marine and Freshwater Ecosystems*, (February), 1–20. <https://doi.org/10.1002/aqc.2918>
- Collin, A., Ramambason, C., Pastol, Y., Casella, E., **Rovere**, A., Thiault, L., Espiau, B., Siu, G., Lerouvreur, F., Nakamura, N., Hench, J. L., Schmitt, R. J., Holbrook, S. J., Troyer, M., & Davies, N. (2018). Very high resolution mapping of coral reef state using airborne bathymetric LiDAR surface-intensity and drone imagery. *International Journal of Remote Sensing*, 00(00), 1–13. <https://doi.org/10.1080/01431161.2018.1500072>
- Fischer, H., Meissner, K. J., Mix, A. C., Abram, N. J., Austermann, J., Brovkin, V., Capron, E., Colombaroli, D., Danianu, A. L., Dyez, K. A., Felis, T., Finkelstein, S. A., Jaccard, S. L., McClymont, E. L., **Rovere**, A., Sutter, J., Wolff, E. W., Affolter, S., Bakker, P., ... Zhou, L. (2018). Palaeoclimate constraints on the impact of 2 °C anthropogenic warming and beyond. *Nature Geoscience*, 11(7), 474–485. <https://doi.org/10.1038/s41561-018-0146-0>
- Stocchi, P., Vacchi, M., Lorscheid, T., de Boer, B., Simms, A. R., van de Wal, R. S. W., V., B. L. A., Pappalardo, M., & **Rovere**, A. (2018). MIS 5e relative sea-level changes in the Mediterranean Sea: Contribution of isostatic disequilibrium. *Quaternary Science Reviews*, 185, 122–134. <https://doi.org/10.1016/j.quascirev.2018.01.004>
- Rovere**, A., Casella, E., Harris, D. L., Lorscheid, T., Nandasena, N. A. K., Dyer, B., Sandstrom, M. R., Stocchi, P., D'Andrea, W. J., & Raymo, M. E. (2018). Reply to Hearty and Tormey: Use the scientific method to test geologic hypotheses, because rocks do not whisper. *Proceedings of the National Academy of Sciences*, 201800534. <https://doi.org/10.1073/pnas.1800534115>
- Rovere**, A., Khanna, P., Bianchi, C. N., Droxler, A. W., Morri, C., & Naar, D. F. (2018). Submerged reef terraces in the Maldivian Archipelago (Indian Ocean). *Geomorphology*, 317, 218–232. <https://doi.org/10.1016/j.geomorph.2018.05.026>
- Harris, D. L., **Rovere**, A., Casella, E., Power, H., Canavesio, R., Collin, A., Pomeroy, A., Webster, J. M., & Parravicini, V. (2018). Coral reef structural complexity provides important coastal protection from waves under rising sea levels. *Science Advances*, 4(2), eaao4350. <https://doi.org/10.1126/sciadv.aao4350>
- Vacchi, M., Ghilardi, M., Melis, R. T., Spada, G., Giaime, M., Marriner, N., Lorscheid, T., Morhange, C., Burjachs, F., & **Rovere**, A. (2018). New relative sea-level insights into the isostatic history of the Western Mediterranean. *Quaternary Science Reviews*, 201, 396–408. <https://doi.org/10.1016/j.quascirev.2018.10.025>
- Austermann, J., Mitrovica, J. X., Huybers, P., & **Rovere**, A. (2017). Detection of a dynamic topography signal in last interglacial sea-level records. *Science Advances*, 3(7), e1700457. <https://doi.org/10.1126/sciadv.1700457>
- Benjamin, J., **Rovere**, A., Fontana, A., Furlani, S., Vacchi, M., Inglis, R. H., Galili, E., Antonioli, F., Sivan, D., Miko, S., Mourtzas, N., Felja, I., Meredith-Williams, M., Goodman-Tchernov, B., Kolaiti, E., Anzidei, M., & Gehrels, R. (2017). Late Quaternary sea-level changes and early human societies in the central and eastern Mediterranean Basin: An interdisciplinary review. *Quaternary International*, 449, 29–57. <https://doi.org/10.1016/j.quaint.2017.06.025>
- Casella, E., Collin, A., Harris, D. L., Ferse, S., Bejarano, S., Parravicini, V., Hench, J. L., & **Rovere**, A. (2017). Mapping coral reefs using consumer-grade drones and structure from motion photogrammetry techniques. *Coral Reefs*, 36(1), 269–275. <https://doi.org/10.1007/s00338-016-1522-0>
- Ramallo, R. S., Helffrich, G., Madeira, J., Cosca, M., Thomas, C., Quartau, R., Hipólito, A., **Rovere**, A., Hearty, P. J., & Ávila, S. P. (2017). Emergence and evolution of Santa Maria Island (azores)- The conundrum of uplifted islands revisited. *Bulletin of the Geological Society of America*, 129(3-4), 372–391. <https://doi.org/10.1130/B31538.1>
- Rovere**, A., Casella, E., Harris, D. L., Lorscheid, T., Nandasena, N. A. K., Dyer, B., Sandstrom, M. R., Stocchi, P., D'Andrea, W. J., & Raymo, M. E. (2017a). Giant boulders and Last Interglacial storm intensity in the North Atlantic. *Proceedings of the National Academy of Sciences*, 114(46), 201712433. <https://doi.org/10.1073/pnas.1712433114>
- Lorscheid, T., Felis, T., Stocchi, P., Obert, J. C. C., Scholz, D., & **Rovere**, A. (2017a). Tides in the Last Interglacial: Insights from notch geometry and palaeo tidal models in Bonaire, Netherland Antilles. *Scientific Reports*, 7(1), 1–9. <https://doi.org/10.1038/s41598-017-16285-6>
- Lorscheid, T., Stocchi, P., Casella, E., Gómez-Pujol, L., Vacchi, M., Mann, T., & **Rovere**, A. (2017a). Paleo sea-level changes and relative sea-level indicators: Precise measurements, indicative meaning and glacial isostatic adjustment perspectives from Mallorca (Western Mediterranean). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 473, 94–107. <https://doi.org/10.1016/j.palaeo.2017.02.028>
- Cardini, U., Bednarz, V. N., van Hoytema, N., **Rovere**, A., Naumann, M. S., Al-Rshaidat, M. M. D., & Wild, C. (2016). Budget of Primary Production and Dinitrogen Fixation in a Highly Seasonal Red Sea Coral Reef. *Ecosystems*, 19(5), 771–785. <https://doi.org/10.1007/s10021-016-9966-1>
- Casella, E., **Rovere**, A., Pedroncini, A., Stark, C. P., Casella, M., Ferrari, M., & Firpo, M. (2016). Drones as tools for monitoring beach topography changes in the Ligurian Sea (NW Mediterranean). *Geo-Marine Letters*, 36(2), 151–163. <https://doi.org/10.1007/s00367-016-0435-9>
- Düsterhus, A., **Rovere**, A., Carlson, A. E., Horton, B. P., Klemann, V., Tarasov, L., Barlow, N. L. M., Bradwell, T., Clark, J., Dutton, A., Gehrels, W. R., Hibbert, F. D., Hijma, M. P., Khan, N., Kopp, R. E., Sivan, D., & Törnqvist, T. E. (2016). Palaeo-sea-level and palaeo-ice-sheet databases: Problems, strategies, and perspectives. *Climate of the Past*, 12(4), 911–921. <https://doi.org/10.5194/cp-12-911-2016>
- Mann, T., **Rovere**, A., Schöne, T., Klicpera, A., Stocchi, P., Lukman, M., & Westphal, H. (2016). The magnitude of a mid-Holocene sea-level highstand in the Strait of Makassar. *Geomorphology*, 257, 155–163. <https://doi.org/10.1016/j.geomorph.2015.12.023>
- Rovere**, A., Raymo, M. E., Vacchi, M., Lorscheid, T., Stocchi, P., Gómez-Pujol, L., Harris, D., Casella, E., O'Leary, M. J., & Hearty, P. J. (2016). The analysis of Last Interglacial (MIS 5e) relative sea-level indicators: Reconstructing sea-level in a warmer world. *Earth-Science Reviews*, 159, 404–427. <https://doi.org/10.1016/j.earscirev.2016.06.006>
- Rovere**, A., Stocchi, P., & Vacchi, M. (2016). Eustatic and Relative Sea Level Changes. *Current Climate Change Reports*, 2(4), 221–231. <https://doi.org/10.1007/s40641-016-0045-7>

- Vacchi, M., Marriner, N., Morhange, C., Spada, G., Fontana, A., & **Rovere**, A. (2016). Multiproxy assessment of Holocene relative sea-level changes in the western Mediterranean: Variability in the sea-level histories and redefinition of the isostatic signal. *Earth Science Reviews*, 155, 172–197. <https://doi.org/10.1016/j.earscirev.2016.02.002>
- Antonioli, F., Lo Presti, V., **Rovere**, A., Ferranti, L., Anzidei, M., Furlani, S., Mastronuzzi, G., Orru, P. E., Scicchitano, G., Sannino, G., Spampinato, C. R., Pagliarulo, R., Deiana, G., de Sabata, E., Sansò, P., Vacchi, M., & Vecchio, A. (2015b). Tidal notches in Mediterranean Sea: A comprehensive analysis. *Quaternary Science Reviews*, 119(5), 66–84. <https://doi.org/10.1016/j.quascirev.2015.03.016>
- Ávila, S. P., Melo, C., Silva, L., Ramalho, R. S., Quartau, R., Hipólito, A., Cordeiro, R., Rebelo, A. C., Madeira, P., **Rovere**, A., Hearty, P. J., Henriques, D., da Silva, C. M., Martins, A. M. F., & Zazo, C. (2015). A review of the MIS 5e highstand deposits from Santa Maria Island (Azores, NE Atlantic): Palaeobiodiversity, palaeoecology and palaeobiogeography. *Quaternary Science Reviews*, 114, 126–148. <https://doi.org/10.1016/j.quascirev.2015.02.012>
- Gatti, G., Bianchi, C., Parravicini, V., **Rovere**, A., Peirano, A., Montefalcone, M., Massa, F., & Morri, C. (2015). Ecological Change, Sliding Baselines and the Importance of Historical Data: Lessons from Combining Observational and Quantitative Data on a Temperate Reef Over 70 Years. *Plos One*, 10, e0118581. <https://doi.org/10.1371/journal.pone.0118581>
- Morri, C., Montefalcone, M., Lasagna, R., Gatti, G., **Rovere**, A., Parravicini, V., Baldelli, G., Colantoni, P., & Bianchi, C. N. (2015). Through bleaching and tsunami: Coral reef recovery in the Maldives. *Marine Pollution Bulletin*, 98(1-2), 188–200. <https://doi.org/10.1016/j.marpolbul.2015.06.050>
- Rovere**, A., Casella, E., Vacchi, M., Parravicini, V., Firpo, M., Ferrari, M., Morri, C., & Bianchi, C. N. (2015a). Coastal and marine geomorphology between Albenga and Savona (NW Mediterranean Sea, Italy). *Journal of Maps*, 11(2), 278–286. <https://doi.org/10.1080/17445647.2014.933134>
- Rovere**, A., Hearty, P. J., Austermann, J., Mitrovica, J. X., Gale, J., Moucha, R., Forte, A., & Raymo, M. (2015a). Mid-Pliocene shorelines of the US Atlantic Coastal Plain — An improved elevation database with comparison to Earth model predictions. *Earth-Science Reviews*, 145, 117–131. <https://doi.org/10.1016/j.earscirev.2015.02.007>
- Casella, E., **Rovere**, A., Pedroncini, A., Mucerino, L., Casella, M., Cusati, L. A., Vacchi, M., Ferrari, M., & Firpo, M. (2014). Study of wave runup using numerical models and low-altitude aerial photogrammetry: A tool for coastal management. *Estuarine, Coastal and Shelf Science*, 149, 160–167. <https://doi.org/10.1016/j.ecss.2014.08.012>
- Montefalcone, M., **Rovere**, A., Parravicini, V., Albertelli, G., Morri, C., & Bianchi, C. N. (2014). Reprint of "Evaluating change in seagrass meadows: A time-framed comparison of Side Scan Sonar maps". *Aquatic Botany*, 115(100), 36–44. <https://doi.org/10.1016/j.aquabot.2014.02.001>
- Rovere**, A., Raymo, M. E., Mitrovica, J. X., Hearty, P. J., O'Leary, M. J., & Inglis, J. D. (2014). The Mid-Pliocene sea-level conundrum: Glacial isostasy, eustasy and dynamic topography. *Earth and Planetary Science Letters*, 387, 27–33. <https://doi.org/10.1016/j.epsl.2013.10.030>
- Vacchi, M., Montefalcone, M., Parravicini, V., **Rovere**, A., Vassallo, P., Ferrari, M., Morri, C., & Bianchi, C. N. (2014). Spatial models to support the management of coastal marine ecosystems: A short review of best practices in Liguria, Italy. *Mediterranean Marine Science*, 15(1), 172–180. <https://doi.org/10.12681/mms.535>
- Vacchi, M., **Rovere**, A., Chatzipetros, A., Zouros, N., & Firpo, M. (2014). An updated database of Holocene relative sea level changes in NE Aegean Sea. *Quaternary International*, 328-329(1), 301–310. <https://doi.org/10.1016/j.quaint.2013.08.036>
- Losi, V., Ferrero, T. J., Moreno, M., Gaozza, L., **Rovere**, A., Firpo, M., Marques, J. C., & Albertelli, G. (2013). The use of nematodes in assessing ecological conditions in shallow waters surrounding a Mediterranean harbour facility. *Estuarine, Coastal and Shelf Science*, 130, 209–221. <https://doi.org/10.1016/j.ecss.2013.02.017>
- Vassallo, P., Paoli, C., **Rovere**, A., Montefalcone, M., Morri, C., & Bianchi, C. N. (2013). The value of the seagrass *Posidonia oceanica*: A natural capital assessment. *Marine Pollution Bulletin*, 75(1-2), 157–167. <https://doi.org/10.1016/j.marpolbul.2013.07.044>
- Bianchi, C. N., Parravicini, V., Montefalcone, M., **Rovere**, A., & Morri, C. (2012). The challenge of managing marine biodiversity: A practical toolkit for a cartographic, territorial approach. *Diversity*, 4(4), 419–452. <https://doi.org/10.3390/d4040419>
- Gatti, G., Montefalcone, M., **Rovere**, A., Parravicini, V., Morri, C., Albertelli, G., & Nike Bianchi, C. (2012). Seafloor integrity down the harbor waterfront: The coralligenous shoals off Vado Ligure (NW Mediterranean). *Advances in Oceanography and Limnology*, 3(1), 51–67. <https://doi.org/10.1080/19475721.2012.671190>
- Parravicini, V., **Rovere**, A., Vassallo, P., Micheli, F., Montefalcone, M., Morri, C., Paoli, C., Albertelli, G., Fabiano, M., & Bianchi, C. N. (2012). Understanding relationships between conflicting human uses and coastal ecosystems status: A geospatial modeling approach. *Ecological Indicators*, 19, 253–263. <https://doi.org/10.1016/j.ecolind.2011.07.027>
- Rovere**, A., Raymo, M. E., O'Leary, M. J., & Hearty, P. J. (2012). Crowdsourcing in the Quaternary sea level community: Insights from the Pliocene. *Quaternary Science Reviews*, 56, 164–166. <https://doi.org/10.1016/j.quascirev.2012.09.014>
- Vacchi, M., **Rovere**, A., Schiaffino, C. F., & Ferrari, M. (2012). Monitoring the effectiveness of re-establishing beaches artificially: Methodological and practical insights into the use of video transects and SCUBA-operated coring devices. *Underwater Technology*, 30(4), 201–206. <https://doi.org/10.3723/ut.30.201>
- Vacchi, M., **Rovere**, A., Zouros, N., & Firpo, M. (2012). Assessing enigmatic boulder deposits in NE Aegean Sea: Importance of historical sources as tool to support hydrodynamic equations. *Natural Hazards and Earth System Science*, 12(4), 1109–1118. <https://doi.org/10.5194/nhess-12-1109-2012>
- Vacchi, M., **Rovere**, A., Zouros, N., Desruelles, S., Caron, V., & Firpo, M. (2012). Spatial distribution of sea-level markers on Lesbos Island (NE Aegean Sea): Evidence of differential relative sea-level changes and the neotectonic implications. *Geomorphology*, 159-160, 50–62. <https://doi.org/10.1016/j.geomorph.2012.03.004>
- Burlando, M., Firpo, M., Queirolo, C., **Rovere**, A., & Vacchi, M. (2011). From geoheritage to sustainable development: Strategies and perspectives in the Beigua Geopark (Italy). *Geoheritage*, 3(2), 63–72. <https://doi.org/10.1007/s12371-010-0019-4>
- Rovere**, A., Enei, F., & Giorgi, S. (2011). Relative sea level change at the archaeological site of Pyrgi (Santa Severa, Rome) during the last seven millennia. *Quaternary International*, 232(1-2), 82–91. <https://doi.org/10.1016/J.QUAINT.2010.07.003>

- Rovere, A., Parravicini, V., Firpo, M., Morri, C., & Nike Bianchi, C. (2011).** Combining geomorphologic, biological and accessibility values for marine natural heritage evaluation and conservation. *Aquatic Conservation: Marine and Freshwater Ecosystems*, 21(6), 541–552. <https://doi.org/10.1002/aqc.1214>
- Rovere, A., Vacchi, M., Firpo, M., & Carobene, L. (2011).** Underwater geomorphology of the rocky coastal tracts between Finale Ligure and Vado Ligure (western Liguria, NW Mediterranean Sea). *Quaternary International*, 232(1-2), 187–200. <https://doi.org/10.1016/j.quaint.2010.05.016>
- Roghi, F., Parravicini, V., Montefalcone, M., **Rovere, A.**, Morri, C., Peirano, A., Firpo, M., Bianchi, C. N., & Salvati, E. (2010). Decadal evolution of a coralligenous ecosystem under the influence of human impacts and climate change. *Biologia Marina Mediterranea*, 17(1), 59–62.
- Rovere, A., Parravicini, V., Vacchi, M., Montefalcone, M., Morri, C., Bianchi, C., & Firpo, M. (2010).** Geo-environmental cartography of the marine protected area "isola di bergeggi" (Liguria, NW mediterranean sea). *Journal of Maps*, 6. <https://doi.org/10.4113/jom.2010.1137>
- Rovere, A., Montefalcone, M., Vassallo, P., Paoli, C., Vacchi, M., Morri, C., Bianchi, C. N., Firpo, M., Albertelli, G., & Fabiano, M. (2010).** Posidonia oceanica through time: Modern and paleoecological perspectives from the Bergeggi Vado Ligure area (SV). *Biologia Marina Mediterranea*, 17(1), 157–160.
- Rovere, A., Vacchi, M., & Firpo, M. (2010).** Submerged shorelines off the Gallinara Island (Ligurian Sea, NW Mediterranean). 11, 46–47.
- Rovere, A., Vacchi, M., Parravicini, V., Bianchi, C. N., Zouros, N., & Firpo, M. (2010).** Bringing geoheritage underwater: Definitions, methods, and application in two Mediterranean marine areas. *Environmental Earth Sciences*, 64(1), 133–142.
- Rovere, A., Vacchi, M., Parravicini, V., Morri, C., Bianchi, C. N., & Firpo, M. (2010).** Bringing geoheritage underwater: Methodological approaches to evaluation and mapping. *Mapping Geoheritage*, 35, 65–80.
- Vacchi, M., **Rovere, A.**, Zouros, N., & Firpo, M. (2010). Spatial distribution of the paleo-shorelines in Lesvos Island. Evidence of differential coastal uplift in the area? 11, 53–54.
- Carobene, L., Firpo, M., & **Rovere, A.** (2008). Le variazioni ambientali nell'area di Vado Ligure dal Neolitico ad oggi. *Il Quaternario*, 21(2), 433–456.
- Rovere, A., Bellati, S., Parravicini, V., Firpo, M., Morri, C., & Bianchi, C. N. (2008).** Abiotic and biotic links work two ways: Effects on the deposit at the cliff foot induced by mechanical action of date mussel harvesting (*Lithophaga lithophaga*). *Estuaries and Coasts*, 32(2), 333–339.
- Parravicini, V., Donato, M., **Rovere, A.**, Montefalcone, M., Albertelli, G., & Bianchi, C. N. (2007). Preliminary study on the coralligenous of the Bergeggi area: Typologies and hypotheses on its maintenance. *Biologia Marina Mediterranea*, 14(2), 162–163.
- Rovere, A., Parravicini, V., Firpo, M., Morri, C., Albertelli, G., & Bianchi, C. N. (2007).** Nature emergencies in the marine protected area of Bergeggi (Ligurian Sea): Integrating biological, ecological and geomorphological aspects. *Biologia Marina Mediterranea*, 14(2), 86–87.
- Parravicini, V., **Rovere, A.**, Donato, M., Morri, C., & Bianchi, C. N. (2006). A method to measure three-dimensional substratum rugosity for ecological studies: An example from the date-mussel fishery desertification in the north-western Mediterranean. *Journal of the Marine Biological Association of the UK*, 86(04), 689. <https://doi.org/10.1017/S0025315406013579>
- Rovere, A., Parravicini, V., M. D., Riva, C., Diviacco, G., Coppo, S., Firpo, M., & Bianchi, C. N. (2006).** Surveys of the Punta Manara shoals: An ecotipological approach. *Biologia Marina Mediterranea*, 13, 210–211.

## OPEN-ACCESS DATASETS

Most products of my research are shared in open-access repositories

- Rovere, A., Pico, T., Richards, F., O'Leary, M. J., Mitrovica, J. X., Goodwin, I. D., Austermann, J., & Latychev, K. (2022).** *Supplementary data for: "The influence of reef isostasy, dynamic topography, and glacial isostatic adjustment on the Last Interglacial sea-level record of Northeastern Australia"* (Version 1.0). Zenodo. <https://doi.org/10.5281/zenodo.6957644>
- Rovere, A., Ryan, D. D., Vacchi, M., Dutton, A., Simms, A., & Murray-Wallace, C. (2022).** *WALIS - The World Atlas of Last Interglacial Shorelines (Ver 1.0 review)* (Version v1.0-review). Zenodo. <https://doi.org/10.5281/zenodo.6623428>
- Garzón, S., & Rovere, A. (2022).** *Walis visualization interface* (Version v2.0). Zenodo. <https://doi.org/10.5281/zenodo.7252121>
- Cerrone, C., Vacchi, M., Fontana, A., & **Rovere, A. (2021b).** *Last interglacial sea-level index points in the Western Mediterranean* (Version 2.1). Zenodo. <https://doi.org/10.5281/zenodo.5341661>
- Muhs, D., Wehmiller, J., Ryan, D. D., & **Rovere, A. (2021).** *MIS 5e relative sea-level index points along the Pacific coast of North America* (Version 1.1). Zenodo. <https://doi.org/10.5281/zenodo.5903285>
- Rovere, A. (2021a).** *Gps-utilities ver. 1.0* (Version v1.0). Zenodo. <https://doi.org/10.5281/zenodo.5169168>
- Boydén, P., & Rovere, A. (2021).** *Electronic Supplementary Material for "Revisiting Batistini: Pleistocene coastal evolution of Southwestern Madagascar"* (Version 1.0). Zenodo. <https://doi.org/10.5281/zenodo.5727117>
- Boydén, P., Weil Accardo, J., Deschamps, P., Oppo, D., & Rovere, A. (2021).** *Database of last interglacial sea level proxies in the East Africa and Western Indian Ocean Region* (Version 1.03). Zenodo. <https://doi.org/10.5281/zenodo.4302244>
- Garzón, S., & Rovere, A. (2021).** *Walis visualization interface* (Version v1.0). Zenodo. <https://doi.org/10.5281/zenodo.4943541>
- Maxwell, K., Westphal, H., & Rovere, A. (2021b).** *Database of Last Interglacial (MIS 5e) Sea-level Indicators in Southeast Asia* (Version 1.1). Zenodo. <https://doi.org/10.5281/zenodo.5040784>
- Vacchi, M., Joyse, K., Kopp, R. E., Marriner, N., Kaniewski, D., & **Rovere, A. (2021b).** *Supplement to: "Climate pacing of millennial sea-level change variability in the central and western Mediterranean"* (Vacchi et al., 2021). Ver.1.01 (Version 1.01). Zenodo. <https://doi.org/10.5281/zenodo.4737120>
- Castellanos-Galindo, G. A., Casella, E., Mejía-Rentería, J. C., & **Rovere, A. (2020).** *UAV derived orthomosaics of a rocky intertidal area, a coral reef area and a mangrove area in the Pacific coast of Colombia, eastern Pacific Ocean* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.911690>

- Pichler, T., **Rovere**, A., & Khimasia, A. (2020). *Hydrothermal areas, microbial mats and sea grass in Paleochori Bay, Milos, Greece* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.915881>
- Rovere**, A. (2020a). *DGPS and Echosounder data for Glass Window Bridge, Eleuthera, Bahamas*. (Version 1.0). Zenodo. <https://doi.org/10.5281/zenodo.4010529>
- Rovere**, A. (2020c). *Map of islands and shallow water areas in the Spermonde Archipelago (Indonesia)* (Version 1.1). Zenodo. <https://doi.org/10.5281/zenodo.4407106>
- Rovere**, A. (2020h). *Tidal model for the Spermonde Archipelago (2017-2019)* (Version 1.0). Zenodo. <https://doi.org/10.5281/zenodo.4395450>
- Rovere**, A., Khanna, P., Bianchi, C. N., Droxler, A. W., Morri, C., & Naar, D. F. (2020). *Maldives marine terraces and global submerged terraces database* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.918192>
- Rovere**, A., Pappalardo, M., Richiano, S., Aguirre, M., Sandstrom, M. R., Hearty, P. J., Austermann, J., Castellanos, I., & Raymo, M. E. (2020b). *Survey data, models and dated samples of the Pliocene shorelines of Camarones, Argentina* (Ver 1.1). (Version 1.1). Zenodo. <https://doi.org/10.5281/zenodo.4091366>
- Rovere**, A., Stocchi, P., & Bender, M. (2020). *Models, data and python tools for the analysis of sea level data in the Spermonde Archipelago* (version 2.2) (Version v2.2). Zenodo. <https://doi.org/10.5281/zenodo.4079342>
- Rovere**, A., Ryan, D., Murray-Wallace, C., Simms, A., Vacchi, M., Dutton, A., Lorscheid, T., Chutcharavan, P., Brill, D., Bartz, M., Jankowski, N., Mueller, D., Cohen, K., & Gowan, E. (2020). *Documentation of the World Atlas of Last Interglacial Shorelines (WALIS)* (Version v1.0). Zenodo. <https://doi.org/10.5281/zenodo.3961544>
- Bender, M., Mann, T., Stocchi, P., Kneer, D., Schöne, T., Illiger, J., Jompa, J., & **Rovere**, A. (2020b). *Fossil Microatoll radiocarbon and elevation records from the Spermonde Archipelago in SW Sulawesi, Indonesia, 2017* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.917694>
- Drechsel, J., & **Rovere**, A. (2020). *PALEO-SEAL: visualization and sharing of Holocene sea-level data* (Version 1.0). Zenodo. <https://doi.org/10.5281/zenodo.4394223>
- Gowan, E. J., **Rovere**, A., Ryan, D. D., Richiano, S., Montes, A., Pappalardo, M., & Aguirre, M. L. (2020). *Last interglacial (MIS 5e) sea-level proxies in southeastern South America* (Version 1.1). Zenodo. <https://doi.org/10.5281/zenodo.4313799>
- Ryan, D. D., Clement, A. J., Jankowski, N. R., Stocchi, P., & **Rovere**, A. (2020). *The last interglacial sea-level record of Aotearoa New Zealand - WALIS database of sea-level indicators*. Zenodo. <https://doi.org/10.5281/zenodo.4590188>
- Hearty, P. J., **Rovere**, A., Sandstrom, M. R., O'Leary, M. J., Roberts, D., & Raymo, M. E. (2019). *Elevation measurements, sea level interpretations and dating details for South Africa Pliocene sites* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.910120>
- Rovere**, A. (2019b). *MATLAB tools for the analysis of drone-derived Digital Elevation models* (Version v.1.1). Zenodo. <https://doi.org/10.5281/zenodo.3580721>
- Rovere**, A., Casella, E., Harris, D. L., Lorscheid, T., Nandasena, N. A. K., Dyer, B., Sandstrom, M. R., Stocchi, P., D'Andrea, W. J., & Raymo, M. E. (2017b). *Wave models for Eleuthera, Northern Bahamas* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.880687>
- Rovere**, A., Raymo, M. E., Vacchi, M., Lorscheid, T., Stocchi, P., Gómez-Pujol, L., Harris, D. L., Casella, E., O'Leary, M. J., & Hearty, P. J. (2017). *(Supplementary material) A spreadsheet structure for building compilations of MIS 5e (and older) sea-level data, and updating a formerly proposed one* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.883767>
- Lorscheid, T., Felis, T., Stocchi, P., Obert, J. C., Scholz, D., & **Rovere**, A. (2017b). *Tidal notches on Bonaire and coral dating of BON-39-A* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.883800>
- Lorscheid, T., Stocchi, P., Casella, E., Gómez-Pujol, L., Vacchi, M., Mann, T., & **Rovere**, A. (2017b). *Appendix B.1 - Relative sea level* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.883854>
- Antonioli, F., Lo Presti, V., **Rovere**, A., Ferranti, L., Anzidei, M., Furlani, S., Mastronuzzi, G., Orru, P. E., Scicchitano, G., Sannino, G., Spampinato, C. R., Pagliarulo, R., Deiana, G., de Sabata, E., Sansò, P., Vacchi, M., & Vecchio, A. (2015a). *A comprehensive analysis of tidal notches in the Mediterranean Sea* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.846652>
- Rovere**, A., Casella, E., Vacchi, M., Parravicini, V., Firpo, M., Ferrari, M., Morri, C., & Bianchi, C. N. (2015b). *Maps of coastal and marine geomorphology between Albenga and Savona (NW Mediterranean Sea, Italy)* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.846545>
- Rovere**, A., Hearty, P. J., Austermann, J., Mitrovica, J. X., Gale, J., Moucha, R., Forte, A. M., & Raymo, M. E. (2015b). *Mid-Pliocene shorelines of the US Atlantic Coastal Plain* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.846540>
- Casella, E., **Rovere**, A., Pedroncini, A., Mucerino, L., Cusati, L. A., Vacchi, M., Ferrari, M., & Firpo, M. (2014). *GPS raw data (control points and ground control points) from the Liguria Region, Borghetto Santo Spirito, Italy* (data set). data set. PANGAEA. <https://doi.org/10.1594/PANGAEA.847710>