

Jonas Preine

he/him

Woods Hole Oceanographic Institute, MA, US

Geophysicist | Volcanologist

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EDUCATION

PhD Geophysics <i>Institute of Geophysics, University of Hamburg</i> Volcano-Tectonic Evolution of the Christiana-Santorini-Kolumbo Marine Volcanic Field / Central Aegean Sea. <i>Grade: Magna cum laude (1.0)</i>	Hamburg, Germany 2020-23
MSc Geophysics <i>Institute of Geophysics, University of Hamburg</i> Structural Restoration of Vintage Seismic Data after Diffraction-based Velocity Model Building and PSDM: New Insights into the Tectonic Evolution of the Santorini-Amorgos Tectonic Zone <i>Grade: Distinction (1.0)</i>	Hamburg, Germany 2016-19
ERASMUS Semester <i>Faculty of Earth Science, University of Iceland / Háskóli Íslands</i>	Reykjavik, Iceland 2017
BSc Geophysics & Oceanography <i>Institute of Geophysics, University of Hamburg</i> Multiple Suppression by f-k Filtering on the Example of Reflection Seismic Data from the Skagerrak, North Sea <i>Grade: Excellent (1.8)</i>	Hamburg, Germany 2013-16

EMPLOYMENT

Postdoctoral Researcher (currently) <i>Woods Hole Oceanographic Institution</i> Control and impact from deeper crustal tectonics on volcanic systems in the Aegean and Antarctica	Woods Hole, Ma, USA 2024-25
Postdoctoral Researcher <i>Institute of Geophysics, University of Hamburg</i> Core-Log-Seismic Integration at an Iconic Volcanic Arc: Unravelling the Spatio-Temporal Interplay of Magmatism, Tectonics, and Mass-Wasting of the Christiana-Santorini-Kolumbo Volcanic Field (IODP Expedition 398)	Hamburg, Germany 2023-24
Research Assistant <i>Institute of Geophysics, University of Hamburg</i> Processing and Interpretation of Reflection Seismic Data	Hamburg, Germany 2016-2019

PUBLICATIONS (published/accepted)

1. **Preine, J.**, Karstens, J., Hübscher, C., Druitt, T., Kutterolf, S., Nomikou, P., ... & Papanikolaou, D. (2024). Hazardous explosive eruptions of a recharging multi-cyclic island arc caldera. **Nature Geoscience**, 1-9. 0.1038/s41561-024-01392-7
2. Druitt, T., Kutterolf, S., Hübscher, C., Nomikou, P., **Preine, J.**, Gertisser, R., ..., Lee, H. (2024). Giant offshore pumice deposit records a shallow submarine explosive eruption

- of ancestral Santorini. Accepted. **Communications Earth and Environment** **5**, 24. 10.1038/s43247-023-01171-z
3. Haimerl, B., Seidel, E., Gehrmann, A., **Preine, J.**, Schmidt, M. C., Hübscher, C. Land-to-sea mapping of the glacial erosion unconformity reveals evolution of the Jasmund Glacitectonic Complex East of Rügen Island (SW Baltic Sea). 2024. **Geophysical Research Letters**.
 4. Mitchell, N. C., Ligi, M., **Preine, J.**, Liebrand, D., Ali, M., & Decarlis, A. (2024). Contourite-like deposits suggest stronger-than-present circulation in the Plio-Pleistocene Red Sea. **Global and Planetary Change**, 104527. 10.1016/j.gloplacha.2024.104527
 5. Ronge, T., Kutterolf, S., Fernandez-Perez, T., Manga, M., Metcalfe, A., **Preine, J.**, ..., Yamamoto, Y. Data report: 204 X-ray fluorescence scanning of drill sites U1591 and U1599, IODP Expedition 398, Hellenic Arc Volcanic Field. Accepted. **Proceedings of the Integrated Ocean Drilling Program: Scientific Results**.
 6. Karstens, J., **Preine, J.**, Crutchley, G., van der Bilt, W. G. M., Hooft, E. E. E., Druitt, T. H., Schmid, F., Cederstrøm, J. M., Hübscher, C., Nomikou, P., Carey, S., Kühn, M., Elger, J., Berndt, C. (2023). Revised Minoan eruption volume as benchmark for large volcanic eruptions. **Nature Communications**. 14(1), 2497. 10.1038/s41467-023-38176
 7. Karstens, J., Crutchley, G. J., Hansteen, T., **Preine, J.**, Carey, S., Elger, J., Kühn, M., Nomikou, P., Schmid, F., Dalla Valle, G., Kelfoun, K., Berndt, C. Set up to fail – cascading events during the 1650 tsunamigenic eruption of Kolumbo volcano. (2023). **Nature Communications** 14(1), 10.1038/s41467-023-42261-y
 8. Karstens, J., **Preine, J.**, Carey, S., Bell, K. L., Nomikou, P., Hübscher, C., Lampridou, D., Urlaub, M. (2023). Formation of undulating seafloor bedforms during the Minoan eruption and their implications for eruption dynamics and slope stability at Santorini. **Earth and Planetary Science Letters**. 10.1016/j.epsl.2023.118215
 9. Mitchell, N., **Preine, J.**, Okwokwo, O., Izzeldin, A., Augustin, N., Stewart, I. The ocean-continent transition in the western central Red Sea. (2023). The ocean-continent transition in the Western Central Red Sea. **Journal of African Earth Sciences**. 10.1016/j.jafrearsci.2023.105093 [Corrigendum 2023, 10.1016/j.jafrearsci.2024.105217]
 10. Crutchley, G. J., Karstens, J., **Preine, J.**, Hübscher, C., Fossen, H., & Kühn, M. (2023). Extensional faulting around Kolumbo Volcano, Aegean Sea-relationships between local stress fields, fault relay ramps and volcanism. **Tectonics**, e2023TC007951
 11. Warwel, A., Hübscher, C., Hartge, M., Artschwager, M., Schäfer, W., **Preine, J.**, Häcker, T., Strehse, V., Lüdmann, T. (2023). The Paleozoic hydrocarbon system in the Gotland Basin (central Baltic Sea) leaks. **Earth and Space Science**. 10.1029/ 2023EA002883
 12. Ahlrichs, N., Hübscher, C., Andersen, T. R., **Preine, J.**, Bogner, L., Schäfer, W. (2023). The Langeland Fault System revealed: Late Cretaceous inversion and neotectonics along an elevated basement block of the Ringkøbing-Fyn High at the transition between the North German and Norwegian Danish Basins. **Boreas**. 10.1111/bor.12614
 13. **Preine, J.**, Karstens, J., Hübscher, C., Nomikou, P., Schmid, F., Crutchley, G. J., Druitt, T., Papanikolaou, D. (2022). Spatio-temporal evolution of the Christiana-Santorini-Kolumbo volcanic field, Aegean Sea. **Geology**. 10.1130/G49167.1. Recognized with the Günter Bock Award.
 14. **Preine, J.**, Hübscher, C., Karstens, J., Nomikou, P. (2022). Volcano-Tectonic Evolution of the Christiana-Santorini-Kolumbo Rift Zone. **Tectonics**. 10.1029/ 2022TC007524
 15. **Preine, J.**, Karstens, J., Hübscher, C., Crutchley, G. J., Druitt, T. H., Schmid, F., & Nomikou, P. (2022). The Hidden Giant: How a rift pulse triggered a cascade of sector collapses and voluminous secondary mass-transport events in the early evolution of

Santorini. **Basin Research**. 10.1111/bre.12667. Honoured with the Robert Mitchum Award.

16. Mitchell, N. C., Hernandez, K., **Preine, J.**, Ligi, M., Augustin, N., Izzeldin, A., & Hübscher, C. (2022). Early stage diapirism in the Red Sea deep-water evaporites: Origins and length-scales. **Tectonophysics**. 10.1016/j.tecto.2022.229331
17. Follmann, J., Van der Zwan, F., **Preine, J.**, Hübscher, C., Bousquet, R., Augustin, N. (2021). Gabbro discovery in Discovery Deep: First plutonic rock samples from the Red Sea Rift axis. **Frontiers in Earth Science - Petrology**. 10.3389/feart.2021.742815
18. **Preine, J.**, Schwarz, B., Bauer, A., Hübscher, C., (2020). When there is no offset: A demonstration of seismic diffraction imaging and depth-velocity model building in the southern Aegean Sea. **JGR Solid Earth**, 10.1029/2020JB019961
19. Fahm, L., Hübscher, C., Warwel, A., **Preine, J.**, Huster, H. (2020). Misinterpretation of velocity pull-ups caused by high-velocity infill of tunnel valleys in the southern Baltic Sea. **Near Surface Geophysics**. 10.1002/nsg.12122.
20. **Preine, J.**, Naber, K., Koopmann, A. (2013). Microplastic in der Nordsee – Untersuchung von Plastikmüll in der Nordsee mit einem selbstgebaute Manta-Trawl. **Junge Wissenschaft** 98, pp. 42- 51.

PUBLICATIONS (In Review/Revision)

1. **Preine, J.**, Hübscher, C., Karstens, J., Crutchley, G., Nomikou, P. Spatio-temporal evolution of the Kolumbo Volcanic Chain and its connection to the volcanic plumbing system of Santorini. In Revision. **Geochemistry, Geophysics, Geosystems**. 10.1002/essoar.10512943.2. Three reviews suggesting minor revisions.
2. **Preine, J.**, Crutchley, G., Hübscher, C., Beethe, S., McIntosh, I., ..., Mateo, Z. Core-seismic integration and time-depth relationships at IODP Expedition 398 Hellenic Arc Volcanic Field Sites. In Revision. **Proceedings of IODP: Scientific Results**.
3. **Preine, J.**, Augustin, N., Mitchell, N., van der Zwan, F., Wöfl, A., ..., Hübscher, C. Tracing the neo-volcanic zone along the sediment-covered regions of the Red Sea Rift. In Review. **Scientific Reports**.
4. Metcalfe, A., Druitt, T., Pank, K., Kutterolf, S., **Preine, J.**, ..., Papanikolaou, D. Far-travelled Ash Megaturbidite Fed by Shoreline-crossing Pyroclastic Currents from a Large Explosive Volcanic Eruption. In Review. **Science Advances**.
5. Micallef, A., Barreca, G., Hübscher, C., Camerlenghi, A., Carling, P., Hernandez, J. M. A., ..., **Preine, J.**, Caruso, A. Land-to-sea signatures of the largest megaflood in the geological record. In Revision. **Communications Earth and Environment**.
6. Papanikolaou, D., Nomikou, P., Lampridou, D., **Preine, J.**, Hübscher, C. Active Faulting in the Samos Basin, Eastern Aegean Sea, Greece and paleogeographic implications. In Revision. **Tectonophysics**.

AWARDS

KlarText Award

Award for Science Communication to young researchers who have written an excellent doctoral thesis and crafted an article explaining to a non-scientific audience what they have done in their research.

Heidelberg, Germany
10/2024

Annette-Barthelt Award

Award for young scientists in marine research for outstanding scientific theses in a sub-discipline of marine research in connection with a marine research expedition.

Kiel, Germany
03/2024

Bernd Rendel Award

Award from the German Science Foundation (DFG) to geoscientists who have demonstrated great potential in their scientific career.

Berlin, Germany
09/2023

Robert Mitchum Award

Award for the best paper published in the journal Basin Research.

Vienna, Austria
06/2023

Günter Bock Award

Award for an outstanding scientific publication by a young geophysicist, granted by the German Geophysical Society.

Bremen, Germany
03/2023

Jugend Forscht Bundessieg (National Youth Science Competition)

First place at national level in the "Jugend Forscht" competition in the geosciences and space sciences category.

Erfurt, Germany
2012

FUNDING**ECORD Travel Grant**

2,000 €

Nachikatsuura, Japan
03/2024

WHOI Postdoctoral Scholarship

~135,000 €

Woods Hole, Ma, USA
12/2023

ECORD Research Grant

Award for Outstanding Early Career Researchers
1,600 €

Woods Hole, Ma, USA
10/2023

IAVCEI Travel Grant

Springer Registration waiver for the COV11 conference.
250 €

Heraklion, Greece
05/2022

Deutschlandstipendium (Student Scholarship)

Award for students with outstanding academic achievements and contributions to the university community.
7,200 €

Hamburg, Germany
2017-19

RESEARCH CRUISES**R/V ALKOR AL621**

Acquisition of multichannel along the Pomeranian Bay

Northern Atlantic
10/2024

Principal Investigator

2 Weeks

R/V METEOR M201

Acquisition of multichannel seismic data, Gravity Cores, and Dredge sampling offshore western Iceland

Northern Atlantic
06-07/2024

Head of seismic and magnetic data acquisition and processing, survey planning

6 Weeks

R/V METEOR M199

Acquisition of multichannel seismic data along the Malta escarpment

Mediterranean Sea
02-03/2024

Head of seismic data acquisition and processing, survey planning

3 Weeks

R/V ALKOR AL605

Acquisition of multichannel seismic data along the Pomeranian Bay

Baltic Sea
11/2023

Deputy Head of Cruise, onboard teaching

2 Weeks

R/V SONNE SO299/2

Acquisition of MCS Reflection Seismic Data and Gravity Cores around the Krakatau Archipelago

Indian Ocean
08-09/2023
3 Weeks

Survey Planning, Seismic Data Acquisition, Sediment Coring

D/V JOIDES Resolution

IODP EXPEDITION 398: Hellenic Arc Volcanic Field
*Stratigraphic Correlation, Core-Log-Seismic Integration, Physical
 Property Measurements*

Aegean Sea
 12/2022 - 02/2023
 9 Weeks

R/V METEOR M177

Acquisition of multichannel seismic and gravity data in the
 Gotland Basin
Deputy Head of Cruise

Baltic Sea
 10-11/2021
 4 Weeks

R/V AEGEAN EXPLORER

Acquisition of multichannel seismic data north of Samos
Deputy Head of Cruise

Aegean Sea
 09/2021
 2 Weeks

R/V ALKOR AL562

Acquisition of multichannel seismic data in the Arkona Basin
Deputy Head of Cruise, onboard teaching

Baltic Sea
 08/2021
 2 Weeks

R/V ALKOR AL545

Acquisition of multichannel seismic data east of Bornholm
Head of seismic data acquisition, onboard teaching

Baltic Sea
 09/2020
 2 Weeks

R/V POSEIDON POS538

Acquisition of 2D and 3D multichannel seismic data at the
 Christiana-Santorini-Kolumbo Volcanic Field
Survey Planning, Acquisition, and Processing

Aegean Sea
 10/2019
 4 Weeks

R/V ALKOR AL526

Acquisition of multichannel seismic data west of Bornholm and
 east of Gotland
Head of seismic data acquisition, onboard teaching

Baltic Sea
 08-09/2019
 2 Weeks

R/V METEOR M152/2

Acquisition of multichannel and magnetic data at the
 Bathymetrists Seamounts.
Head of seismic and magnetic data acquisition and processing

Atlantic Ocean
 01-02/2019
 8 Weeks

R/V PELAGIA 64PE-445

Acquisition of multichannel and magnetic data at Inter-Trough
 zones of the Red Sea Rift
Head of seismic and magnetic data acquisition and processing

Red Sea
 08-09/2018
 4 Weeks

R/V METEOR M144/2

Acquisition of multichannel seismic data west of Sicily
Seismic data acquisition and processing

Mediterranean Sea
 01-02/2018
 3 Weeks

R/V OGS EXPLORA

Acquisition of multichannel along the Gloria Fault Zone
Seismic data acquisition and processing

Atlantic Ocean
 05-06/2017
 4 Weeks

R/V MARIA S. MERIAN MSM52

Acquisition of multichannel data in the Baltic Sea
Seismic data acquisition and processing

Baltic Sea
 03-04/2016
 4 Weeks

R/V ALKOR AL460

Acquisition of multichannel seismic data in the Skagerrak
Seismic data acquisition

North Sea
 07/2015
 2 Weeks

R/V ALDEBARAN

PLARIMAR Leg 2: Sampling for Microplastic in the Elbe River
Survey planning and water sampling

Northern Germany
 05/2014
 1 Week

R/V ALDEBARAN	North Sea
PLARIMAR Leg 1: Sampling for Microplastic in Rivers and close to the shores of the North Sea	09/2013
<i>Survey planning and water sampling</i>	1 Week

R/V ALDEBARAN	North Sea
Sampling Microplastic in the North Sea between the coast and Helgoland	07/2011
<i>Survey planning and water sampling</i>	1 Week

FIELDWORK

Sampling of Rafted Pumice on Folegandros Island	Folegandros, Greece
Collection of rafted pumice clasts on the beaches of Folegandros Island	05/2024
	2 days

Rock Sampling at Santorini and the Christiana Islands	Santorini, Greece
Collection of lava, pumice, and ash samples from the stratigraphically oldest volcanic outcrops of the Christiana-Santorini-Kolumbo volcanic field	05/2022
	1 Week

ACADEMIC SERVICE

Scientific Panel Membership	Since 2023
IODP Science Evaluation Panel (SEP), Site Characterization	

Academic Journal Reviewer	Since 2020
Journals: Scientific Reports, Geophysical Research Letters, JGR Solid Earth, Earth System Science Data, Earth and Space Science, Basin Research, Journal of Asian Earth Sciences	

Session Convener	
• Session SM6.5 'Seismic Imaging of Volcanoes', EGU24	04/2024
• Volcanology Session (VU-A), Annual Meeting of the German Geophysical Society (DGG)	03/2023

Session Co-Convener	
• A multidisciplinary perspective on past and present volcanism and volcanic hazards, EGU21	03/2021

RESEARCH VISITS & FORMAL DEBATES

IODP Expedition 398 Postcruise Meeting	Santorini, Greece
Presentation of first findings from IODP Expedition 398 and discussion of future research initiatives.	04/2024

Workshop on the Future of Scientific Ocean Drilling	Nachikatsuura, Japan
Toward submission of drilling proposals for IODP ³	03/2024

WOODS HOLE OCEANOGRAPHIC INSTITUTION	Woods Hole, MA, USA
Core-log-seismic integration and physical property analysis of IODP Expedition 398	09-10/2023

International Ocean Discovery Program	College Station, TX, USA
XRF Scanning of selected cores from IODP Expedition 398	05/2023

GEOMAR Helmholtz Centre for Ocean Research Kiel Core-Log-Seismic Integration for IODP Expedition 398 at the GEOMAR Core-Log-Seismic Integration Centre	Kiel, Germany 05-06/2023
German Science Council Evaluation Future goals of marine research. The necessity of (medium- sized) research vessels for the implementation of innovative, forward-looking projects	Kiel, Germany 11/2022
Environmental Protection and Safety Panel Meeting Presenting the Safety Review Report and Database for IODP Proposal 932	College Station, TX, USA 02/2020
Future Forum 'Digitalisation as an Innovation Driver - Opportunities and Challenges' with German Federal President Frank-Walter Steinmeier	Berlin, Germany 05/2018
Future Forum 'How should it look like, this country? Germany in 2036' with German Federal President Joachim Gauck	Berlin, Germany 10/2016

TRAINING/WORKSHOPS

Oceanic Volcanism Workshop Discussing the future of oceanic and submarine volcanism research	Kiel, Germany 09/2023
GESEP School Basic insights and hands-on training on scientific drilling for early career scholars	Potsdam, Germany 11/2022
ECORD Summer School Downhole-logging for IODP Science	Virtual 09/2021
Core-Log Seismic Integration Workshop Organized by the Core-Log Seismic Integration Center at GEOMAR	Virtual 04/2021
DLR Graduate School Training courses for PhD candidates to acquire interdisciplinary scientific key competencies. Hosted by the German Aerospace Center	Cologne, Germany 2020-23
• Peer Reviewed Publishing (03/2020) • Writing Readable Scientific Papers (11/2020) • Effective Scientific Presentations (12/2020) • Effective Reading (02/2021) • Conflict Management and Negotiation Skills (03/2021) • Grant Writing for Scientists (05/2021) • Science Outreach (02/2022) • Scientific Communication (04/2022) • Logic and Reasoning (03/2023)	

SUPERVISION

Co-Supervisor (University of Hamburg) BSc student Carina Dittmers: Seismo-stratigraphic interpretation of the Santorini-Anafi Basin since Middle Pleistocene	2022-23
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BSc student Max Lackner: Reflection seismic study of the influence of lithology on glacial erosion in the Gotland Basin/Central Baltic Sea	2023
BSc student Lisa Ischebeck: Diffraction imaging as a tool for interpreting volcano-tectonic processes in seismic data	2023-24
BSc student Annalena Friedrich: Seismic Imaging of Intra-Plate Volcanoes from the Azores Plateau	2023-24

TEACHING

Teaching Assistant	Hamburg, Germany
• Applied Geophysics – seismic methods (2 nd year)	2023/24
Student Tutor	Hamburg, Germany
• Physics 2 – Electrodynamics and optics (1 st year)	2015
• Physics 1 – Mechanics, special relativity, and Thermodynamics (1 st year)	2015/16 & 2016/17
• Introduction to Geophysics (1 st year)	2016
• Applied Geophysics – non-seismic methods (2 nd year)	2017 & 2018
• Student Research cruise (2 nd year)	2018, 2019, 2020, 2023
• Geophysical Field Course (2 nd year)	2021, 2022

EXPERIENCE

Leadership on marine expeditions	Survey planning, expedition preparation, shift allocation and management, leading onboard seismic processing, mobilization and demobilization of survey equipment on vessels, conflict management
2D Seismic Data Acquisition	Deployment of long- and short-offset (digital and analog) streamers, handling of airguns and sparker sources
3D Seismic Data Acquisition:	Ultra-high-resolution 3D data acquisition with P-cable systems
Magnetic Data Acquisition	Survey planning, sensor deployment, watchkeeping management, data processing
Hydroacoustic Data Acquisition	Parasound & multibeam watchkeeping and data processing
Physical Property Measurements	P-wave, NGR, GRA density, and magnetic susceptibility measurements on whole-round cores; MAD measurements including water content, bulk density, grain density, and solid density
Marine Sediment Coring	Site planning, core handling & sampling
Marine Dredge Sampling	Site planning, Bridge communication, Rock processing
XRF Scanning	Avaatech XRF Core Scanner at IODP Gulf Coast Repository TX, USA

SOFTWARE SKILLS

• Seismic Processing:	VISTA, Seismic Unix
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- Seismic Interpretation: KINGDOM, Petrel
- Core-Seismic Integration: HampsonRussel
- Geographic Information System: QGIS
- Stratigraphic Correlation: Correlator
- Structural Modeling: StructureSolver, Move
- Programming: Matlab, Python
- Magnetic Data Acquisition: BOB
- Scientific Graphic Design: CorelDRAW, Inkscape
- Photography & Videography: Darktable, Lightroom, GIMP, Photoshop, Davinci Resolve

INVITED SEMINAR TALKS

Séminaires Géosciences Marines, IPGP	Paris, France
Uncovering the lost eruption of Santorini	05/2024
FB4 Seminar, GEOMAR	Kiel, Germany
IODP Expedition 398 reveals hazardous explosive behavior of the Kameni Volcano inside Santorini Caldera	04/2024
IAVCEI CoSV Webinar	Online
Rising from the ashes: scientific drilling sheds new light on the spatio-temporal evolution of the Kameni volcano inside the Santorini Caldera	02/2024
Geology and Geophysics Seminar, Oregon State University	Corvallis, OR, USA
From catastrophic caldera collapse to the emergence of a new volcano: New insights into Santorini Volcano, Greece	11/2023
Seminar Current Research Questions, University of Kiel	Kiel, Germany
Evolution of a volcano after catastrophic caldera collapse	11/2023
Earth Sciences Seminar, University of Oregon	Eugene, OR, USA
From catastrophic caldera collapse to the emergence of a new volcano: New insights into Santorini Volcano, Greece	10/2023
Department Seminar, Woods Hole Oceanographic Institute	Woods Hole, MA, USA
From catastrophic caldera collapse to the emergence of a new volcano: New insights into Santorini Volcano, Greece	10/2023
Seminar Applied Geophysics, University of Hamburg	Hamburg, Germany
This Rift is on Fire: Volcano-Tectonic Evolution of the Christiana-Santorini-Kolumbo volcanic field	11/2022

Outreach

Documentaries

- K22 Film in association with ZDF, ARTE, and ZDF Studios. The Santorini Code. <https://tinyurl.com/mpvuunbm> 04/2024

News Articles

- Diepholzer Kreiszeitung. From school to the high seas: Dr. Jonas Preine researches marine volcanoes (German). <https://tinyurl.com/25ernxwf> 09/2024
- National Geographic. The island of Santorini is hiding an explosive secret. <https://tinyurl.com/2ahtrpfr> 03/2024

- LiveScience. The sea 'began to boil': Freak volcanic eruption of Santorini 1,300 years ago indicates huge blasts can occur during time of quiet. <https://tinyurl.com/4j9mt5ju> 03/2024
- Frankfurter Allgemeine Zeitung (FAZ). Santorini is an island on a powder keg (German). <https://tinyurl.com/mwnbut76> 03/2024
- Mitteldeutscher Rundfunk (MDR). Submarine volcanic eruption detected on Santorini (German). <https://tinyurl.com/d6bpfdpb> 03/2024
- Tagesspiegel. Early warning for holiday destination: Medieval eruption of Santorini volcano caused the sea to boil (German). <https://tinyurl.com/4a4xm59m> 03/2024
- Neue Zürcher Zeitung (NZZ). A strong volcanic eruption can brew on Santorini at any time - the archipelago is not prepared for this (German). <https://tinyurl.com/5fvht7tn> 03/2024
- Die Welt. More explosive than expected - researchers call for early warning system for Santorini volcano (German). <https://tinyurl.com/3f99fh9k> 03/2024
- Frankfurter Rundschau. Volcano near Santorini is more dangerous than assumed - eruption would have "serious consequences"(German) <https://tinyurl.com/4jd6e87h> 03/2024
- Diepholzer Kreiszeitung . Price for Scientist from Diepholz: Marine Research around Santorini (German) <https://tinyurl.com/ydtj7y3w> 02/2023
- Hamburger Abendblatt - Scientists make a discovery at Santorini (German) <https://tinyurl.com/2y6j43e3> 12/2021
- EKathimerini. New Volcanoes discovered hidden around Santorini 10/2021
- Diepholzer Kreiszeitung. "Danger: small particles in the water", <https://tinyurl.com/ybhkvtkp> 09/2013
- Diepholzer Kreiszeitung. "Jugend forscht": Trio from Diepholz wins national award (German) <https://tinyurl.com/ykrzsftr> 09/2012

Magazine Articles

- P. M. Magazine (01/2024). Scientists You Should Know (German) 01/2024
- P. M. Magazine (06/2023). Drilling into Earth's history (German) 06/2023

Blog Articles

- First Weekly Report AL621, <https://tinyurl.com/mr32x486> 10/2024
- Behind the Paper blog article: 'Scientific ocean drilling in the Santorini caldera reveals a surprisingly large eruption in historic times', <https://tinyurl.com/3nsd5js3> 03/2024
- Nature (626, 242-243). Santorini's volcanic past: underwater clues reveal giant prehistoric eruption. 10.1038/d41586-024-00326-y 02/2024

Outreach Events

- From the school to the world - Honorary lecture at the Graf Friedrich School (Diepholz) about my career and the study of marine volcanoes 09/2024

- Geo-Show 'underground' - Live broadcast from the RV Sonne a show for students between the 7th to 9th grade. 08/2023
- Tracking volcanoes and earthquakes - Introduction to marine geophysics - University Open House. 10/2022 & 10/2021
- Hamburg Climate Week - Microplastic in the North Sea. 08/2013 & 09/2012

PUBLISHED REPORTS

1. Augustin, N., Palgan, D., Hübscher, C., van der Zwan, F. M., Bariya, J., ..., Winter, S. Volcanism in the Vesturdjúp Basin - Flank Igneous System or Intraplate Volcanism Off-Shore Western Iceland. M201. Reykjavik (Iceland) - Praia da Vitoria (Azores, Portugal). METEOR-Berichte, M177.
2. Druitt, T.H., Kutterolf, S., Ronge, T.A., Beethe, S., Bernard, A., ..., Yamamoto, Y. (2024a). Expedition 398 summary. In Druitt, T.H., Kutterolf, S., Ronge, T.A., and the Expedition 398 Scientists, Hellenic Arc Volcanic Field. Proceedings of the International Ocean Discovery Program, 398: College Station, TX (International Ocean Discovery Program). <https://doi.org/10.14379/iodp.proc.398.101.2024>
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