



Third Joint International Earthquake Science Symposium

DAY 1, Monday, 27.4.2026

08:30-09:00 | Registration and Coffee

09:00-09:15 | Welcome and Goals

- Introduction to workshop mechanics (oral sessions, posters, breakouts, pitches)
- Purpose: Shift from results to proposal ideas
- Oral sessions Day 1: Focus on new results that unlock new proposals
- Output Day 2: Proposal skeleton notes with leads, core idea, and funding pathway

09:15-11:00 | **Highlighting Scientific Results I** (6 talks **8+2 min**, 1 keynote **12+3min**)

Subduction Zone Dynamics: Locking, Slow Slip, and Rupture Dynamics

Integrating geodesy, seismology, drilling, and modeling

Thorsten Becker (Keynote)

Linking inherited lithospheric fabric and mantle flow to plate boundary stresses

Eiichiro Araki

Monitoring seismogenic plate boundary in 4D

Gou Fujie

Understanding geodynamics from the oceanic plate to the back-arc basin through marine geophysical observations

Luc Lavier

Coral $\delta^{13}\text{C}$ as a Geodetic Proxy for Decadal Interseismic Deformation: A Proof of Concept from the Solomon Islands

McKenzie Carlson

Slow Slip Accommodates the Full Plate Convergence Budget at the Northern Hikurangi Subduction Zone

Kaitlin Schaible

Quantifying Tectonic Stress at Boreholes using IODP data from Tohoku and Nankai

Elizabeth Sherill

tba

11:00-11:30 | Coffee Break



11:30 – 12:30 | **Highlighting Scientific Results II** (1 keynote 12+3min, 3 talks 8+2 min)

Volcano–Tectonic Interactions: Deformation, Collapse, and Tsunami Hazard

Forecasting, modeling, and rapid response

Tatsu Kuwatani (Keynote)

Understanding Submarine Volcanism and Subduction-Zone Dynamics Through Earth Materials

Steffen Kutterolf

The KIKAI Caldera project: A multi-phased and multi-disciplinary marine and terrestrial investigation of a submarine Caldera system in SW Japan

Jens Karstens

Shared magma supply at Santorini and Kolumbo constrained by amphibious seismological and geodetic analyses of the 2025 dike intrusion

Morelia Urlaub

Sector collapse and debris avalanche escorted the 1883 Krakatau disaster

12:30– 13:45, Lunch + **Poster Session**

- 12:45–13:15: Poster Group A stands at posters (20 posters)
- 13:15–13:45: Poster Group B stands at posters (20 posters)

13:45 – 14:15 | **Opportunity Framing Session**

- What shared scientific opportunities are emerging?
- What infrastructure / datasets / methods are unique to the joint UTIG-JAMSTEC-GEOMAR group?
- What must be done jointly to be impactful?
- What opportunities are there for international partners?
- What large AI projects would benefit from our cooperation?

Anja Wenzel and Eva-Maria Zetsche

Overview of Funding Opportunities

Demian Saffer

Current activities at UTIG

Shuichi Kodaira

Outline of the JSPS International Leading Research Proposal "Establishing Subduction Zone System Science"



14:15 – 17:15 | **Proposal Seed Pitches (,Idea Market')**

16:00 – 16:15 | Coffee Break

- Pitches for different topics/project ideas (5 Min presentations each)
- General discussion and ,brainstorming'
- **More pitches are welcome!**

Laura Wallace

How and where is plate motion accommodated near the trench at subduction zones, and what are the implications for earthquake and tsunami generation?

Demian Saffer

Integration of laboratory constraints on healing and rheology with models and geodesy: What we can learn about near-trench locking and slip behavior

Gareth Crutchley

How (and how fast) do subduction trenches compact and shorten?

Charlotte Pizer

Unravelling the spatiotemporal variability of past earthquakes on the Hikurangi margin

Christian Berndt:

Sediment magma interactions at the continent ocean boundary of back arc basins - Bay of Plenty, NZ

Laura Wallace

Megathrust earthquake processes at ocean-ocean subduction zones

Michael Riedel

IODP3 Proposal northern Cascadia

Overnight prompt:

- What would make an idea submission-ready in 12 months?

17:15 | Group Photo

Dinner at LAGOM Restaurant

Short ferry ride to Kiel west shore.

Address: Düsternbrooker Weg 38, 24105 Kiel (84JX+HW Kiel)

Dinner costs: Self-paying format. Menu at the end of this document and <https://www.lagom-kiel.de/#menu>



DAY 2, Tuesday, 28.4.2026

09:00-09:15 | Kickoff and Breakout Briefings

09:15-11:00 | **Breakout 1 — Concept Formation**

- Draft concept skeleton (1/2 - 1 page)
- Who's in the writing team
- What expertise is missing (international partners)

11:00 – 11:30 | Coffee Break

11:30 – 12:15 | **Breakout 2 — Consolidation**

- Problem & Relevance
- Innovation
- Provisional work plan (WPs)
- Consortium roles
- Funding path + next steps

12:15 – 13:30 | Lunch + **Poster Session**

- 12:30–13:05: Poster Group A stands at posters (20 posters)
- 13:05–13:40: Poster Group B stands at posters (20 posters)

13:30 – 14:30 | **Lab Tour**

- Tour of ORTC Ocean Research Technology Center at GEOMAR
- highlight how partners can plug in

14:30 – 15:30 | Final Proposal Pitches

- Significance / novelty / feasibility / strategic fit / readiness

15:30 – 16:00 | Coffee Break

16:00 – 17:00 | Final Discussion + Wrap-up/Commitment

Event link and agenda: <https://events.geomar.de/e/UTIG-JAMSTEC-GEOMAR-2026>



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Poster List

Author	Affiliation	Poster Title
Dapeng Zhao	Tohoku University	Seismic structure and anisotropy of Tohoku forearc: New insight into seismotectonics and subduction dynamics
Arne Warwel	GEOMAR	Investigating the seismic structure, geometry and seismicity offshore Northern Chile (25° - 27.5°S)
Tomomi Okada	Tohoku University	I. "The 2016 Mw7.8 Kaikoura earthquake, New Zealand: An insight from temporary dense seismic observation" II. "Lower crustal earthquake swarm began in 2025 in the Abu monogenic volcanic group, southwestern Japan"
Benedikt Bauer	GEOMAR	Deglaciation-induced faulting at the Southern East Pacific Rise
Takeshi Iinuma	JAMSTEC	Seafloor crustal deformation observation by using autonomous surface and underwater vehicles
Huiwen Sun	The University of Texas at Austin	Nonlinear Dynamics of Single Fault Earthquake Cycles
Keisuke Ariyoshi	JAMSTEC	Calibration of seafloor temperature by tracing AUV-NEXT along the Nankai Trough
Junpeng Li	The University of Texas at Austin	The 2025 Mw 8.8 Kamchatka Megathrust: A Rapid Recurrence with Complex Heterogeneous Rupture
Koichiro Obana	JAMSTEC	Seismic activity off Vancouver Island in northern Cascadia subduction zone from seafloor observations
Ema Parker	The University of Texas at Austin	Electrical conductivity structure of the northern Hikurangi incoming plate volcanoclastic sequence
Yuya Machida	JAMSTEC	"Evidence of long-term seafloor subsidence in the Nankai Trough seismogenic zone from in-situ calibration of DONET pressure gauges."
Takashi Tonegawa	JAMSTEC	Monitoring seismic velocity in the Nankai subduction zone
Hiroyuki Matsumoto	JAMSTEC	Re-establishment of the JAMSTEC pressure calibration facilities
Paul Caesar Flores	JAMSTEC	An unsupervised classification scheme for seismic facies mapping of sediment input in Nankai Trough using reflection amplitudes from 2D profiles
Ryuta Arai	JAMSTEC	"Seismic reflection imaging of intrusion structures in the Yaeyama Rift, southern Okinawa Trough"
Ryota Hino	Tohoku University	Uncovering mechanism of massive shallow coseismic slip without significant stress drop during the 2011 Tohoku-oki Earthquake
Genti Toyokuni	Tohoku University	Whole-mantle tomography beneath eastern Mediterranean and adjacent regions
Sapana Regmi	The University of Texas at Austin	"Decoupling Stress and Time Dependent Frictional Strengthening in Carbonate Gouge"
Kenta Yoshida	JAMSTEC	Petrographic and geochemical characteristics of Sofu Seamount, a cruise research on cryptic subaqueous eruptions at a deep submarine volcano in the Izu arc
Iona McIntosh	JAMSTEC	When did this erupt? Indirect dating approaches for 'young' submarine volcanic rocks when radiocarbon dating isn't possible
Takeshi Hanyu	JAMSTEC	Magma evolution toward a caldera-forming eruption at Kikai Caldera



国立研究開発法人 海洋研究開発機構

JAMSTEC
JAPAN AGENCY FOR MARINE-EARTH SCIENCE AND TECHNOLOGY

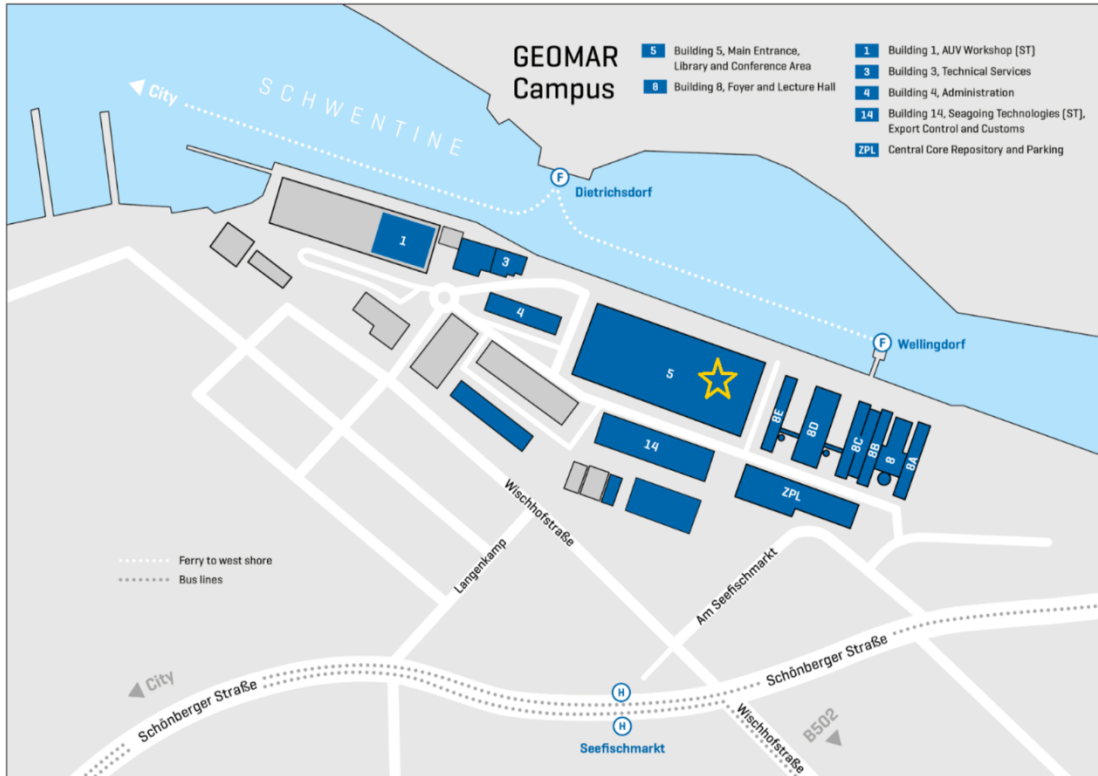


Ranpeng Li	GEOMAR	How phase transitions impact changes in mantle convection style throughout Earth's history: From stalled plumes to surface dynamics
Kaoru Kubota	JAMSTEC	Resolving centennial-scale tsunami events using chlorophyll-derived radiocarbon dating: Distinguishing 13th and 17th century deposits
Yuya Akamatsu	JAMSTEC	"Scale dependences of seismic velocity and fluid flow in subduction zones caused by mesoscale fractures" "Development of hydrothermal high-velocity rotary shear apparatus in Kochi, Japan: towards understanding fault slip behavior in the seismogenic zone environment"
Hanaya Okuda	JAMSTEC	Unprecedented oxidation of arc basalts through Fe ³⁺ -rich slab melts and refractory harzburgite melting.
Yuuki Hagiwara	JAMSTEC	SO294 - Investigating the occurrence and kinematic role of proto-thrusts along the northern Cascadia Margin
Wiebke Schäfer	GEOMAR	Fault segmentation and interseismic stress build-up on the central Queen Charlotte fault: new insight from microseismicity offshore southern Alaska
Yingchen Liu	GEOMAR	Intraplate Deformation and Mantle Shear Zones Driven by the Northward Migrating Mendocino Triple Junction, Northeast Pacific
Yu Ren	GEOMAR	Insights into Fault Roughness over the Seismic Cycle of Laboratory Earthquakes
Isabelle Lambert	The University of Texas at Austin	Rheological heterogeneity illuminated by the postseismic deformation of the 2011 Tohoku-oki Earthquake
Jun Muto	Tohoku University	Seismic investigation of lateral variations in the Nankai subduction zone
Kazuya Shiraishi	JAMSTEC	Spatial variation of stress drop in the offshore source area of the 2024 Noto Peninsula earthquake
Tsutomu Takahashi	JAMSTEC	Ridge Migration and Plate Boundary Readjustments at the Rodriguez Triple Junction
Anna Jegen	GEOMAR	Monitoring Submarine Hazards Using Seismic Signals
Pascal Kunath	GEOMAR	How fast can the subduction interface creep at the trench?
Kaj Johnson	Indiana University, USA	Assessment of shipborne gravity measurements vs. altimetry-derived gravity: implications for future research cruises
Peter Haas	GEOMAR	Comparative Boron Budgets of Subduction Zones: Implications for Oceanic Boron Cycle and Fluid Transport in Subduction Zones from Shallow to Deep
Nicole Ferrie	University of Texas	Long-lived Oceanic Core Complex formation in the Ascension Double Fracture Zone at the Mid-Atlantic Ridge
Anke Dannowski	GEOMAR	tba
Johannes Gehrig	GEOMAR	tba

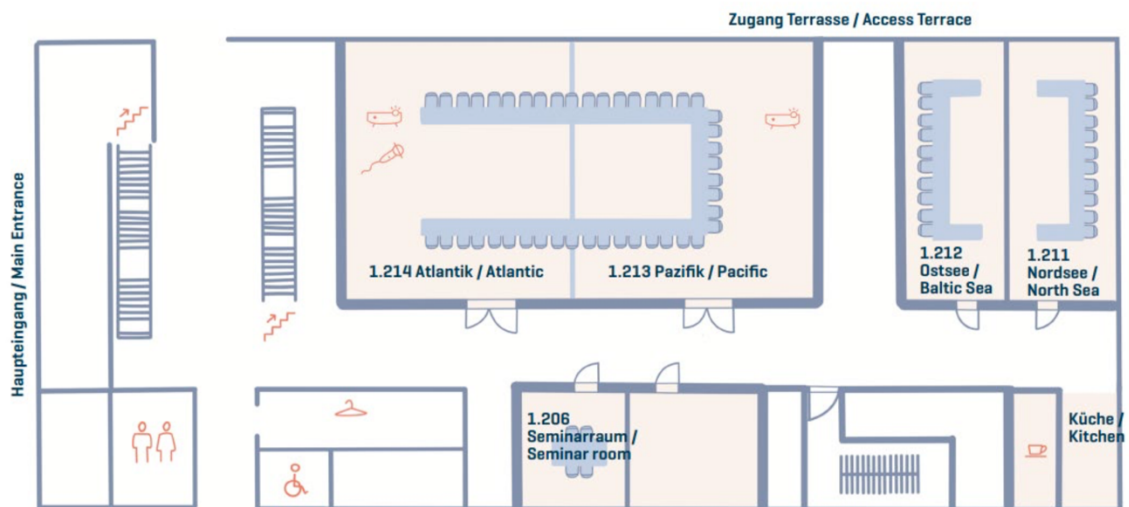
Event location @GEOMAR:

The event will take place in Building 5 (New building).

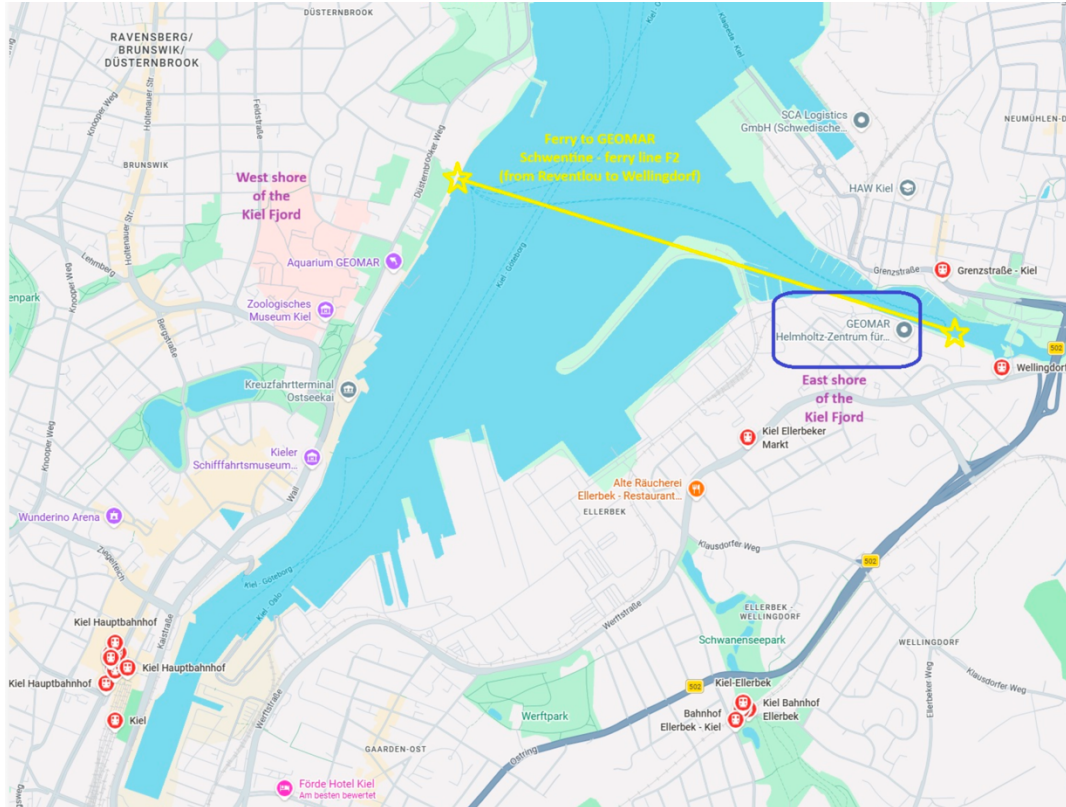
Campus map



Overview plan of the conference area (building 5, 1st floor)



Ferry route west – east shore:





Lagom Gastro GmbH - Düsternbrooker Weg 38 - 24105 Kiel - 0431 568374 - info@lagom-kiel.de

Buffet

27.04.2026

6:30 PM - 11:00 PM

approx. 45 people

Salad (Buffet)

Lamb's lettuce with bacon, burrata, egg, red onions, apple & cranberry
Dressing: Herbs and raspberry

MAIN COURSE (Buffet)

Braised ox cheek in port wine jus
Pannfisch in milder Senfsauce
Landuro pork tenderloin in porcini mushroom cream sauce
Lentil meatballs with mushroom cream sauce and cranberries (vegan)

SIDE DISHES (Buffet)

Rosemary potatoes (vegan)
Potato gratin with mountain cheese
Bacon beans
Market vegetables (vegan)

DESSERT

Danish almond milk rice with blueberry compote
Light & Dark Chocolate Mousse

EUR 42.00 pro Person

(Drinks are charged à la carte according to consumption)