

# T-SECTOR General Assembly Meeting

14 - 15 July 2025

*Including Early Career Scientists Meeting (15/07/2025) “Representation of the seagoing and T-SECTOR high-tech analytical infrastructure”*

GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany  
Building 5, main entrance, 1<sup>st</sup> floor, room 5-1.213 and 5-1.214

## Online link:

<https://geomar.webex.com/geomar-en/j.php?MTID=m70ef563b52fd77755d3b343537641f45>



Monday, 14 <sup>th</sup> July 2025    GEOMAR with online connection (hybrid meeting) - room 5-1.213 and 214		
11 <sup>00</sup> – 12 <sup>45</sup>		PI lunch Meeting (governance issues) – internal meeting
13 <sup>00</sup> – 13 <sup>30</sup>	Registration and Coffee	
13 <sup>30</sup> – 14 <sup>00</sup>	Welcome	Welcome to GEOMAR by director <b>Katja Matthes</b> (online) Goals of the by <b>Kaj Hoernle</b>
14 <sup>00</sup> – 14 <sup>30</sup>	Faces of the T-SECTOR team	Round table introductions of who we are, with an emphasis on new faces that have emerged during the year
14 <sup>30</sup> – 15 <sup>30</sup>	T-SECTOR objectives and main activities	Summary of the main activities and developments in the 2 <sup>nd</sup> year of T-SECTOR including first-step developments and implementations  <b>Martin Frank</b> – Hydrothermal activity and sedimentology  <b>Charles Langmuir</b> – Igneous petrology  <b>Kaj Hoernle</b> - Igneous geochemistry  <b>Heidrun Kopp</b> - Geophysics
15 <sup>30</sup> – 16 <sup>00</sup>	Coffee break	

	Science presentations	Scientific presentation (about 15 minutes plus 5-10 minutes for questions)
16 <sup>00</sup> – 17 <sup>15</sup>	<b>Theme 1: Hydrothermal activity and sedimentology</b>  Chair: Martin Frank	<b>Melanie Siegburg</b> – Constraining changes in hydrothermal activity at the Reykjanes Ridge and Juan de Fuca Ridge based on elemental and authigenic radiogenic isotope records  <b>Jacek Raddatz</b> – Stratigraphic constraints on Reykjanes and Juan de Fuca Ridge sediments  <b>Julia Warnatz</b> - Reconstructing past hydrothermal activity at the East Pacific Rise
17 <sup>15</sup> – 17 <sup>30</sup>	Chair: Martin Frank	Discussion
17 <sup>30</sup> – 18 <sup>45</sup>	<b>Cruise planning &amp; data management</b>	Cruise planning for 2025/26 – M. Frank and H. Kopp: Planning for SEPR cruise  <b>Jörg Geldmacher</b> – Some thoughts on (hard rock) drill core handling and curation during SO321/1  <b>Doris Maicher/nn</b> – Data and sample management (10 minutes)
19 <sup>00</sup> – 21 <sup>00</sup>	Network Dinner	GEOMAR Terrace / Hallway outside of Seminar Room

Tuesday, 15 <sup>th</sup> July 2025 <i>GEOMAR with online connection (hybrid meeting) - room 5-1.213 and 214</i>		
09 <sup>30</sup> – 11 <sup>30</sup>	Tour through the seagoing and T-SECTOR analytical infrastructure	For guests and early career researchers in T-SECTOR  <b>09<sup>30</sup> – 10<sup>00</sup></b> . TLZ Tour – Johannes Karstensen <b>10<sup>10</sup> – 10<sup>40</sup></b> . Clean and MS Lab of M. Frank – Chris Siebert <b>10<sup>50</sup> – 11<sup>20</sup></b> . Clean and MS Lab of K. Hoernle – Folkmar Hauff
12 <sup>30</sup> – 13 <sup>00</sup>		coffee
13 <sup>00</sup> – 14 <sup>15</sup>	<b>Theme 2: Igneous petrology</b>  Chair: Charles Langmuir	<b>Mingzhen Yu</b> – Sediment hosted glass time series on the Juan de Fuca Ridge  <b>Siyu Zhao</b> – 2.55 – 2.65 Ma time-series geochemical variation in sediment-hosted glasses at Reykjanes ridge  <b>Charles Langmuir</b> – tba
14 <sup>15</sup> – 14 <sup>30</sup>	Chair: Charles Langmuir	Discussion
14 <sup>30</sup> – 14 <sup>50</sup>	<b>T-SECTOR project management</b>	T-SECTOR project management, engagement & communication issues including info concerning progress reporting
14 <sup>50</sup> – 15 <sup>15</sup>	Coffee Break	

15 <sup>15</sup> – 16 <sup>30</sup>  10 minutes presentation & 5-10 minutes questions/ discussion for each	<b>Theme 3: Igneous geochemistry</b>  Chair: Kaj Hoernle	<b>Antina Lippert</b> – Overview of literature isotope data from Juan de Fuca Ridge  <b>Pauline Verdurme</b> – Analyses of volcanic glass morphometry: insight on fragmentation processes  <b>Jonas Schneider</b> – Overview of literature data for SEPR and unpublished Cook seamount data  <b>Oliver Nebel</b> – Scoping degrees of melting with Fe isotopes in MORB glasses
16 <sup>30</sup> – 16 <sup>45</sup>	Chair: Kaj Hoernle	Discussion
16 <sup>45</sup> – 17 <sup>00</sup>	Coffee Break	
17 <sup>00</sup> – 18 <sup>15</sup>	<b>Theme 4: Geophysics</b>  Chair: Heidrun Kopp	<b>Benedikt. Bauer</b> - The control of tectonic vs. orbital variations on abyssal hill morphology  <b>Michael Riedel</b> - Seismic imaging of the crust-mantle boundary at SEPR and CLEFT  <b>Christian Fillbrandt</b> - LOBSTERS and SHRIMPs on the seafloor  <b>Benedikt Bauer</b> - First insights into the SENTRY data from RV Sally Ride cruise (SR2510)
18 <sup>15</sup> – 18 <sup>45</sup>	Chair: Heidrun Kopp	Discussion
18 <sup>45</sup> – 19 <sup>00</sup>	<b>Closing words</b>	End of the meeting by Kaj Hoernle

Notes: