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Short Cruise Report

RV METEOR

Las Palmas de Gran Canaria — Fortaleza

23.10.2024 — 28.11.2024

Chief Scientist: Dr. Torben Riehl

Captain: Rainer Hammacher

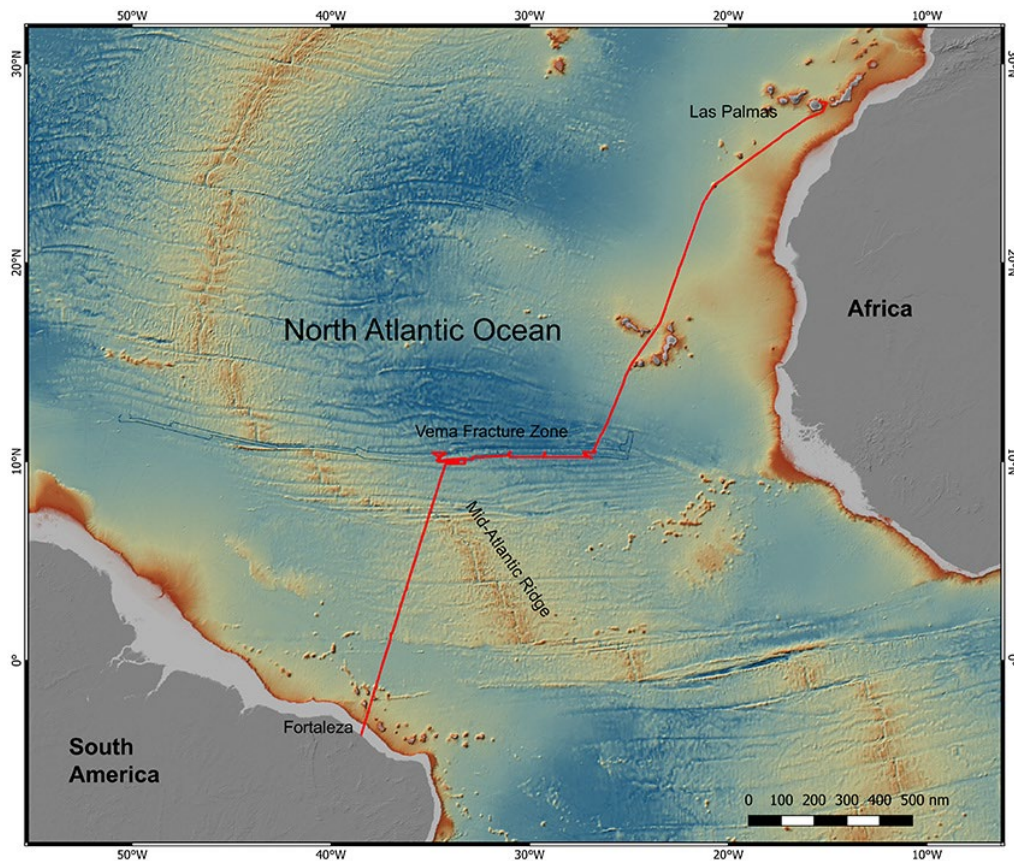


Figure 1: Cruise track of RV METEOR cruise M205. Map: Dr Torben Riehl, SENCKENBERG, chief scientist M205.

Objectives

The expedition M205 aboard RV METEOR (project “RUBBLE” — Rocky seafloor – Under-estimated driver for Benthic Biodiversity Living in the abyss and its Evolution) investigated the relationship between habitat heterogeneity and abyssal benthic biodiversity through quantitative and qualitative seafloor sampling in the eastern Vema Fracture Zone (Figure 1). Grounded in prior taxonomic and bathymetric studies (e.g., Vema-TRANSIT), the research focused on the effects of topography and rocky seafloor structures on adjacent sediment variability and biodiversity. Predicted hard substrates (e.g., rocky reefs and nodule fields) and echosounder-based habitat characterizations were ground-truthed. Megafaunal distribution and diversity, along with their traces (Lebensspuren), were mapped to study links between habitat characteristics and faunal diversity, distribution, and composition. Sediments and their fauna were also analysed in relation to habitat heterogeneity.

The project aimed to elucidate how habitat heterogeneity influences abyssal benthic biodiversity, particularly in sedimentary environments, contributing to large-scale biodiversity assessments and ocean governance. By identifying habitat preferences and linking them to hydroacoustic habitat mapping, the project supported marine protected area (MPA) designations, impact assessments for deep-sea mining, and the identification of Ecologically or Biologically Significant Areas (EBSAs) and IUCN Red List evaluations.

RUBBLE proposed five mechanisms through which rocky seafloor and topography influence biodiversity:

1. Providing habitats (e.g., attachment sites, caves, and crevices).
2. Offering a range of current exposures that transport food and larvae.
3. Modulating currents, creating turbulence, and driving sediment sorting and food gradients.
4. Fragmenting sediment biotopes, reducing connectivity among isolated habitats, but increasing connectivity for hard-bottom sessiles.
5. Inducing sediment dynamics, increasing habitat diversity through variable accumulation and redistribution.

Hypotheses tested included:

- **H1:** Habitat heterogeneity restricts distributions and connectivity, but increases turnover in sediment-dwelling fauna.
- **H2:** Exposed abyssal rock formations affect sediment deposition and erosion, forming environmental gradients and food patches that influence community composition and diversity in both rock and sediment habitats.

The research built on findings from FS Sonne cruise SO237 (Vema-TRANSIT), which revealed unexpectedly high structural complexity in abyssal seabed topography, resulting in predictions of widespread rock formations. RUBBLE examined the variability in soft sediment composition, its dependence on bathymetric heterogeneity, and the resulting effects on biodiversity.

Narrative

The expedition commenced on the evening of 24 October 2024 from Las Palmas, following clearance from the German research vessels' control centre to exceed the 10-knot speed limit. On 25 October, scientific equipment was unpacked, secured on deck, or stowed back in containers, with laboratory setups and mission planning occupying the subsequent days. Research activities began promptly upon entering international waters at 21:40 UTC on 25 October.

Seafloor mapping commenced using the EM122 multibeam echo sounder at full speed, contributing to the Seabed 2030 initiative. Concurrently, Saharan dust collection began with sticky traps installed atop the ship's mast, with plans to extend collection to drone-based platforms during station work. At 02:00 on 27 October, international waters were exited, necessitating a temporary halt in data recording.

Sampling Area SA1 (24 Oct–1 Nov 2024) was located in the eastern Vema Fracture Zone (Figure 2), a tectonic region marked by habitat heterogeneity, SA1 operations included: two OFOS deployments, multiple Sargassum and plankton samples, eight (+one repeated) BC deployments, two MUC and two EBS deployments, seven drone flights (one with experimental dust collectors). Approximately 150 GB of visual data were captured. Issues arose during BC deployments, including a broken weld seam and cable difficulties, leading to adjustments in schedule. SA1 concluded successfully at 14:00 on 1st November.

In the third week of the RUBBLE expedition M205, the revision of the station planning was finalised, considering the local bathymetric and weather conditions for the entire expedition. The station works in the sampling areas SA2 and SA3 (Figure 2) were finalised and the transit to SA4 was carried out. Area SA2 included 2 successful OFOS deployments, multiple sampling of pelagic *Sargassum*, several plankton samples collected, 5 successful BC deployments (out of a total of 12 deployments), two successful MUC deployments, 2 successful EBS deployments, 5 successful drone flights. Work on SA2 was completed on 05/11/2024 around 13:45 UTC. Several BC missions were unsuccessful. In some cases, the device returned in a cocked state (not triggered), in others the BC was triggered but empty. After numerous attempts to obtain at least three BC samples, the SA2-B sampling site was ultimately completed unfinished, as a solution to the problems had to be sought first and the schedule should not be jeopardized.

In area SA3 (Figure 2), an identical equipment sequence was planned and deployed almost unchanged. In this area, 2 successful OFOS deployments, another sampling of the pelagic *Sargassum*, several plankton hauls, 6 successful BC deployments (out of a total of 11 deployments), two successful MUC deployments, 2 successful EBS deployments and 6 successful drone flights were carried out. Work on SA3 was completed on 9 November 2024 at around 21:30 UTC. Despite numerous attempts to rectify the numerous failures of the BC by partially replacing components or varying the mission protocol, there was once again a sobering number of failures, meaning that extensive repairs ultimately had to be carried out. Nevertheless, the SA2 and SA3 areas' sampling were overall successes.

For public relations, 3 posts and 2 stories were published on Instagram in the past week. In addition, there was a live broadcast at the annual celebration of the Academy of Sciences and

Literature in Mainz and interactions with visitors to the Senckenberg Museum in Frankfurt. In the fourth week of the RUBBLE expedition M205, station work was successfully completed in the sampling areas SA4 and started in SA5 (Figure 2). Area SA4 included 2 successful OFOS deployments, 6 successful BC deployments (out of a total of 10 deployments), two successful MUC deployments (out of 3 attempts), 2 successful EBS deployments, 3 successful drone flights. Work on SA4 began on 10 November 2024 in the afternoon and was completed after 3 days.

In the SA5 area (Figure 2), 2 successful OFOS deployments, another sampling of pelagic *Sargassum*, several plankton hauls, 8 successful BC deployments (out of a total of 10 deployments), 1 successful MUC deployment (the second will be repeated), 2 successful EBS deployments and 3 successful drone flights were carried out.

In the area of public relations, 2 posts and 1 story were published on Instagram and Facebook last week. There was also a live link to the "Aha!" research workshop at the Senckenberg Museum in Frankfurt, where over 70 guests were able to put questions to two scientists on board the METEOR. Videos were also shot for a short film by YouTube artist Ze Frank.

In Sampling Area SA5 (Figure 2), eight BC deployments, one MUC deployment and two EBS deployments were completed. Remarkably, all five BC deployments were successful for the first time on 18 November. Public outreach content of week 4 included 2 posts, one story on social media, a live workshop at the Senckenberg Museum, and Q&A sessions with over 70 participants.

The SAX stations (Figure 2) focused on potential manganese nodule fields, with three OFOS surveys, four BC, 3 MUC and two EBS deployments. The first BC attempts were hampered by positioning problems. Despite the difficulties, manganese nodules, crusts and volcanic glass were successfully sampled. The last OFOS survey ended on 22 November at 11:55 ship time, completing the station work. This was followed by a 24-hour deep-water calibration of the EM122 echo sounder with additional transit bathymetry before heading to Fortaleza, Brazil, on 23 November, where we arrived in the morning of November 28 2024.

The expedition has progressed steadily, and overall successfully despite technical challenges, maintaining contributions to scientific research and public engagement. During the final days of the expedition, an unexpected situation arose: a general strike by the Brazilian customs department prevented us from shipping our samples and equipment. To ensure their safe transportation, including maintaining uninterrupted cold storage for a significant portion of the samples, we decided to leave everything on board the RV METEOR. Arrangements are being made for a logistics agency to collect the containers and for a courier service to retrieve some of the samples at the next port, Belem, Brazil.



Figure 3: Scientific party and crew (incompletely represented) of RV METEOR cruise M205.

Acknowledgements

In the name of the principal investigators and the entire scientific party of M205 (Figure 3), I extend our heartfelt gratitude to Captain Rainer Hammacher and his crew for their outstanding support, teamwork, and for fostering a positive atmosphere throughout the cruise. The dedication and efforts of the RV METEOR crew were essential to the success of the expedition.

Angelika Brandt and Pedro Martínez Arbizu provided ample support and assistance as co-chief scientists, for which I am deeply thankful.

I also deeply appreciate the commitment and hard work of the scientists, technical staff, and students, whose invaluable contributions made this mission possible. Special thanks to Julia Wenzel and Andreas Raeke from the German National Meteorological Service (DWD) for their daily weather briefings.

I am especially grateful to the Leitstelle Deutsche Forschungsschiffe and Briesen Research for their critical support, as well as to the Gutachterpanel Forschungsschiffe (GPF) for their evaluation and the GPF Geschäftsstelle for their assistance.

This expedition was made possible through funding for the "RUBBLE" project from the German Research Foundation (DFG) and the Federal Ministry of Education and Research (BMBF).

Additionally, the OFOS missions were financed thanks to a generous private donation, and the OFOS itself was provided by the GEOMAR Helmholtz Centre for Ocean Research Kiel.

Teilnehmerliste

1	Nico AUGUSTIN	Geology, Bathymetry, CTD	GEOMAR
2	Franziska BERGMEIER	Biology	ZSM
3	Moritz BOLL	Film maker	Boll Filme
4	Angelika BRANDT	Co-Chief Scientist	SENCKENBERG
5	Marco BRUHN	Technician, Box Corer, logistics	SENCKENBERG
6	Linus Vincent BUDKE	Seafloor imaging	SENCKENBERG
7	Anchita CASAUBON	PhD student, biology	SENCKENBERG
8	Christopher CRUZ GOMEZ	PhD student, biology	ECOSUR
9	Angelina EICHSTELLER	Biology	SENCKENBERG
10	Andreas GÄRTNER	Geology, Sedimentology	SENCKENBERG
11	Nicole GATZEMEIER	Technician, EBS, macro imaging	SENCKENBERG
12	Annika HELLMANN	Technician, MUC	SENCKENBERG
13	Mats Ole HENSELER	MSc-Student, biology	SENCKENBERG
14	Franziska IWAN	Technician, data base, dangerous goods	SENCKENBERG
15	Julia JACOBY	MSc student	SENCKENBERG
16	Stefanie KAISER	Biology, EBS, Macrofauna	UL
17	Henry KNAUBER	PhD student, biology, macro imaging	SENCKENBERG
18	Monika Magda ŁABUDZKA	PhD student, biology	UL
19	Maya T. LAGRANGE RAO	Neoichnology, Bioturbation	Yale
20	Pedro MARTINEZ ARBIZU	Co-Chief Scientist	SENCKENBERG
21	Alexandra MÖLLER	PhD student, biology, MUC	SENCKENBERG
22	Jan PAWLOWSKI	Foraminifera	IOPAN
28	Andreas RAEKE	Technician	DWD
23	Torben RIEHL	Biology, Chief Scientist	SENCKENBERG
24	Natalia SZYMAŃSKA	Foraminifera, CTD	IOPAN
25	Alica TORKOV	Public outreach	SENCKENBERG
26	Achim WEHRMANN	Geology, Sedimentology, Box Corer	SENCKENBERG
29	Julia WENZEL	Meteorology	DWD
27	Mandy ZIEGER-HOFMANN	Geology, Sedimentology	SENCKENBERG

Institute

- DWD National Meteorological Service (Deutscher Wetterdienst), Germany
- ECOSUR El Colegio de la Frontera Sur Chetumal, Mexico
- GEOMAR GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany
- IOPAN Institute of Oceanology of the Polish Academy of Sciences, Poland
- SENCKENBERG Senckenberg Society for Nature Research, Germany
- UL University Łódź, Poland
- Yale Yale University, U.S.A.
- ZSM Zoological State Collection Munich, Germany

Stationsliste

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_0		MBES	25.10.2024 21:40	24° 38.800' N	019° 40.061' W	3368	Underway; profile start
M205_0		MBES	27.10.2024 01:06	20° 08.253' N	022° 17.889' W	4048	Underway; profile end
M205_0		MBES	29.10.2024 00:34	11° 47.851' N	026° 09.285' W	5377	Underway; profile start
M205_0		ADCP	26.10.2024 08:00	23° 13.199' N	021° 06.503' W	4318	Underway 2; profile start
M205_0		ADCP	27.10.2024 01:06	20° 08.278' N	022° 17.882' W	4048	Underway 2; profile end
M205_0		ADCP	29.10.2024 00:34	11° 47.828' N	026° 09.296' W	5379	Underway 2; profile start
M205_0		MBES	29.10.2024 00:34	11° 47.810' N	026° 09.304' W	5379	Underway 3; recording start
M205_1	SA1-1	OFOS	29.10.2024 08:17	10° 31.754' N	026° 44.918' W	5074	in the water
M205_1	SA1-1	OFOS	29.10.2024 09:50	10° 31.774' N	026° 44.886' W	5098	profile start
M205_1	SA1-1	OFOS	29.10.2024 14:15	10° 32.418' N	026° 43.279' W	5650	max depth/on ground
M205_1	SA1-1	OFOS	29.10.2024 16:18	10° 32.417' N	026° 43.277' W	5902	on deck
M205_2	SA1-2	HN	29.10.2024 08:20	10° 31.754' N	026° 44.919' W	5090	information
M205_3	SA1-3	AN	29.10.2024 08:50	10° 31.773' N	026° 44.885' W	5099	information
M205_4	SA1-4	OFOS	29.10.2024 18:33	10° 32.373' N	026° 45.132' W	5209	in the water
M205_4	SA1-4	OFOS	29.10.2024 18:51	10° 32.303' N	026° 45.203' W	5660	on deck
M205_4	SA1-4	OFOS	29.10.2024 18:55	10° 32.284' N	026° 45.216' W	5193	in the water
M205_4	SA1-4	OFOS	29.10.2024 20:26	10° 32.284' N	026° 45.216' W	5206	profile start
M205_4	SA1-4	OFOS	30.10.2024 00:24	10° 32.875' N	026° 43.896' W	5686	max depth/on ground
M205_4	SA1-4	OFOS	30.10.2024 02:22	10° 32.915' N	026° 43.912' W	5690	on deck
M205_5	SA1-5	AN	29.10.2024 19:21	10° 32.284' N	026° 45.217' W	5203	information
M205_6	SA1-A1	BC	30.10.2024 04:27	10° 32.181' N	026° 45.158' W	5166	in the water
M205_6	SA1-A1	BC	30.10.2024 06:00	10° 32.156' N	026° 45.178' W	5176	max depth/on ground
M205_6	SA1-A1	BC	30.10.2024 07:37	10° 32.153' N	026° 45.175' W	5158	on deck

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_7	SA1-A2	BC	30.10.2024 08:30	10° 32.026' N	026° 44.918' W	5157	in the water
M205_7	SA1-A2	BC	30.10.2024 09:52	10° 32.027' N	026° 44.921' W	5162	max depth/on ground
M205_7	SA1-A2	BC	30.10.2024 11:16	10° 32.029' N	026° 44.921' W	5152	on deck
M205_8	SA1-A3	BC	30.10.2024 12:11	10° 31.689' N	026° 44.790' W	5081	in the water
M205_8	SA1-A3	BC	30.10.2024 12:18	10° 31.689' N	026° 44.789' W	5084	information
M205_8	SA1-A3	BC	30.10.2024 13:25	10° 31.691' N	026° 44.791' W	5075	max depth/on ground
M205_8	SA1-A3	BC	30.10.2024 14:42	10° 31.690' N	026° 44.789' W	5087	on deck
M205_9	SA1-A3rep	BC	30.10.2024 15:58	10° 31.679' N	026° 44.794' W	5082	in the water
M205_9	SA1-A3rep	BC	30.10.2024 16:05	10° 31.680' N	026° 44.793' W	5077	information
M205_9	SA1-A3rep	BC	30.10.2024 17:17	10° 31.681' N	026° 44.794' W	5079	max depth/on ground
M205_9	SA1-A3rep	BC	30.10.2024 18:38	10° 31.682' N	026° 44.793' W	5081	on deck
M205_10	SA1-A4	BC	30.10.2024 19:25	10° 31.689' N	026° 45.118' W	5048	in the water
M205_10	SA1-A4	BC	30.10.2024 20:43	10° 31.688' N	026° 45.114' W	5062	max depth/on ground
M205_10	SA1-A4	BC	30.10.2024 22:02	10° 31.687' N	026° 45.115' W	5056	on deck
M205_11	SA1-A6	MUC	30.10.2024 22:35	10° 31.859' N	026° 45.114' W	5095	in the water
M205_11	SA1-A6	MUC	31.10.2024 00:05	10° 31.858' N	026° 45.115' W	5110	max depth/on ground
M205_11	SA1-A6	MUC	31.10.2024 01:35	10° 31.865' N	026° 45.121' W	5099	on deck
M205_12	SA1-A7	EBS	31.10.2024 03:25	10° 30.408' N	026° 45.637' W	5182	in the water
M205_12	SA1-A7	EBS	31.10.2024 05:38	10° 30.539' N	026° 45.565' W	4927	max depth/on ground
M205_12	SA1-A7	EBS	31.10.2024 06:51	10° 31.571' N	026° 44.961' W	5032	hoisting
M205_12	SA1-A7	EBS	31.10.2024 07:47	10° 31.572' N	026° 44.959' W	5040	information
M205_12	SA1-A7	EBS	31.10.2024 09:16	10° 31.571' N	026° 44.959' W	5028	on deck
M205_13	SA1-B7	EBS	31.10.2024 10:03	10° 31.804' N	026° 42.895' W	5876	in the water
M205_13	SA1-B7	EBS	31.10.2024 12:35	10° 32.117' N	026° 42.828' W	5636	max depth/on ground

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_13	SA1-B7	EBS	31.10.2024 14:23	10° 32.941' N	026° 42.669' W	5905	information
M205_13	SA1-B7	EBS	31.10.2024 15:57	10° 32.941' N	026° 42.670' W	5898	on deck
M205_14	SA1-B1	BC	31.10.2024 17:13	10° 32.796' N	026° 43.304' W	5671	in the water
M205_14	SA1-B1	BC	31.10.2024 18:33	10° 32.796' N	026° 43.305' W	5670	max depth/on ground
M205_14	SA1-B1	BC	31.10.2024 19:57	10° 32.793' N	026° 43.302' W	5667	on deck
M205_15	SA1-B1rep	BC	31.10.2024 20:10	10° 32.797' N	026° 43.310' W	5921	in the water
M205_15	SA1-B1rep	BC	31.10.2024 21:34	10° 32.799' N	026° 43.307' W	5670	max depth/on ground
M205_15	SA1-B1rep	BC	31.10.2024 22:59	10° 32.798' N	026° 43.307' W	5670	on deck
M205_16	SA1-B2	BC	31.10.2024 23:33	10° 32.614' N	026° 42.675' W	5656	in the water
M205_16	SA1-B2	BC	01.11.2024 01:43	10° 32.610' N	026° 42.672' W	5642	max depth/on ground
M205_16	SA1-B2	BC	01.11.2024 03:13	10° 32.607' N	026° 42.674' W	5639	on deck
M205_17	SA1-B3	BC	01.11.2024 03:52	10° 31.922' N	026° 42.283' W	5643	in the water
M205_17	SA1-B3	BC	01.11.2024 03:58	10° 31.923' N	026° 42.227' W	5633	information
M205_17	SA1-B3	BC	01.11.2024 05:16	10° 31.924' N	026° 42.225' W	5634	max depth/on ground
M205_17	SA1-B3	BC	01.11.2024 06:46	10° 31.923' N	026° 42.225' W	5883	on deck
M205_18	SA1-B4	BC	01.11.2024 07:35	10° 31.465' N	026° 42.675' W	5615	in the water
M205_18	SA1-B4	BC	01.11.2024 09:00	10° 31.449' N	026° 42.665' W	5867	max depth/on ground
M205_18	SA1-B4	BC	01.11.2024 10:22	10° 31.450' N	026° 42.665' W	0	on deck
M205_19	SA1-B6	MUC	01.11.2024 11:23	10° 32.262' N	026° 42.857' W	5647	in the water
M205_19	SA1-B6	MUC	01.11.2024 12:57	10° 32.262' N	026° 42.857' W	5649	max depth/on ground
M205_19	SA1-B6	MUC	01.11.2024 14:30	10° 32.263' N	026° 42.857' W	5650	on deck
M205_20	SA1-6	HN	01.11.2024 14:53	10° 31.571' N	026° 42.144' W	5634	information
M205_21	SA2-1	OFOS	01.11.2024 21:05	10° 20.760' N	027° 12.887' W	4873	in the water
M205_21	SA2-1	OFOS	01.11.2024 23:10	10° 20.762' N	027° 12.881' W	4865	profile start

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_21	SA2-1	OFOS	02.11.2024 05:09	10° 21.200' N	027° 10.630' W	5649	max depth/on ground
M205_21	SA2-1	OFOS	02.11.2024 05:10	10° 21.199' N	027° 10.630' W	5654	profile end
M205_21	SA2-1	OFOS	02.11.2024 06:47	10° 21.201' N	027° 10.630' W	5651	on deck
M205_22	SA2-1	OFOS	02.11.2024 10:02	10° 26.334' N	027° 14.000' W	5282	in the water
M205_22	SA2-4	OFOS	02.11.2024 11:40	10° 26.334' N	027° 14.000' W	5220	profile start
M205_22	SA2-4	OFOS	02.11.2024 14:53	10° 27.018' N	027° 13.240' W	5606	profile end
M205_22	SA2-4	OFOS	02.11.2024 16:27	10° 26.985' N	027° 13.266' W	5606	on deck
M205_23	SA2-A1	BC	02.11.2024 17:50	10° 26.212' N	027° 13.318' W	5477	in the water
M205_23	SA2-A1	BC	02.11.2024 19:10	10° 26.210' N	027° 13.323' W	5467	max depth/on ground
M205_23	SA2-A1	BC	02.11.2024 20:33	10° 26.222' N	027° 13.323' W	5471	on deck
M205_24	SA2-A2	BC	02.11.2024 21:20	10° 25.205' N	027° 14.063' W	4951	in the water
M205_24	SA2-A2	BC	02.11.2024 22:36	10° 25.203' N	027° 14.062' W	4940	max depth/on ground
M205_24	SA2-A2	BC	02.11.2024 23:50	10° 25.209' N	027° 14.063' W	4940	on deck
M205_25	SA2-A3	BC	03.11.2024 00:48	10° 23.830' N	027° 13.384' W	4879	in the water
M205_25	SA2-A3	BC	03.11.2024 01:59	10° 23.829' N	027° 13.382' W	4889	max depth/on ground
M205_25	SA2-A3	BC	03.11.2024 03:18	10° 23.830' N	027° 13.385' W	4876	on deck
M205_26	SA2-A4	BC	03.11.2024 04:11	10° 21.411' N	027° 12.437' W	4795	in the water
M205_26	SA2-A4	BC	03.11.2024 05:19	10° 21.344' N	027° 12.429' W	4761	max depth/on ground
M205_26	SA2-A4	BC	03.11.2024 06:33	10° 21.345' N	027° 12.429' W	4753	on deck
M205_27	SA2-A5	BC	03.11.2024 07:13	10° 20.096' N	027° 11.855' W	4853	in the water
M205_27	SA2-A5	BC	03.11.2024 08:24	10° 20.094' N	027° 11.843' W	4823	max depth/on ground
M205_27	SA2-A5	BC	03.11.2024 09:37	10° 20.094' N	027° 11.843' W	4842	on deck
M205_28	SA2-A6	MUC	03.11.2024 10:05	10° 20.288' N	027° 11.864' W	4813	in the water
M205_28	SA2-A6	MUC	03.11.2024 11:29	10° 20.288' N	027° 11.864' W	4812	max depth/on ground

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_28	SA2-A6	MUC	03.11.2024 12:48	10° 20.287' N	027° 11.863' W	4812	on deck
M205_29	SA2-2	AN	03.11.2024 10:17	10° 20.288' N	027° 11.865' W	4812	information
M205_30	SA2-3	HN	03.11.2024 10:35	10° 20.288' N	027° 11.865' W	4812	information
M205_31	SA2-A7	EBS	03.11.2024 13:46	10° 19.791' N	027° 13.362' W	5307	in the water
M205_31	SA2-A7	EBS	03.11.2024 15:58	10° 19.810' N	027° 13.182' W	5966	profile start
M205_31	SA2-A7	EBS	03.11.2024 16:03	10° 19.817' N	027° 13.101' W	6075	max depth/on ground
M205_31	SA2-A7	EBS	03.11.2024 17:07	10° 19.892' N	027° 12.069' W	4901	hoisting
M205_31	SA2-A7	EBS	03.11.2024 19:39	10° 19.936' N	027° 12.045' W	6213	on deck
M205_32	SA2-B1	EBS	03.11.2024 20:32	10° 19.900' N	027° 08.795' W	5710	in the water
M205_32	SA2-B1	EBS	03.11.2024 22:45	10° 19.887' N	027° 08.757' W	5700	profile start
M205_32	SA2-B1	EBS	03.11.2024 22:49	10° 19.941' N	027° 08.719' W	5948	max depth/on ground
M205_32	SA2-B1	EBS	03.11.2024 23:47	10° 20.701' N	027° 08.187' W	5707	hoisting
M205_32	SA2-B1	EBS	04.11.2024 02:31	10° 20.697' N	027° 08.185' W	5687	on deck
M205_33	SA2-B2	BC	04.11.2024 04:11	10° 20.668' N	027° 07.387' W	5674	in the water
M205_33	SA2-B2	BC	04.11.2024 05:31	10° 20.669' N	027° 07.385' W	5678	max depth/on ground
M205_33	SA2-B2	BC	04.11.2024 06:52	10° 20.670' N	027° 07.387' W	5674	on deck
M205_34	SA2-B2rep	BC	04.11.2024 07:12	10° 20.669' N	027° 07.386' W	5680	in the water
M205_34	SA2-B2rep	BC	04.11.2024 08:33	10° 20.667' N	027° 07.384' W	5675	max depth/on ground
M205_34	SA2-B2rep	BC	04.11.2024 10:27	10° 20.776' N	027° 07.542' W	5668	on deck
M205_35	SA2-B3	BC	04.11.2024 11:01	10° 20.922' N	027° 07.969' W	5678	in the water
M205_35	SA2-B3	BC	04.11.2024 12:22	10° 20.928' N	027° 07.973' W	5677	max depth/on ground
M205_35	SA2-B3	BC	04.11.2024 13:48	10° 21.040' N	027° 07.988' W	5677	on deck
M205_36	SA2-B4	BC	04.11.2024 14:20	10° 20.754' N	027° 08.724' W	5701	in the water
M205_36	SA2-B4	BC	04.11.2024 15:41	10° 20.751' N	027° 08.697' W	5696	max depth/on ground

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_36	SA2-B4	BC	04.11.2024 17:06	10° 20.834' N	027° 08.721' W	5698	on deck
M205_37	SA2-B4rep	BC	04.11.2024 17:33	10° 20.766' N	027° 08.715' W	5699	in the water
M205_37	SA2-B4rep	BC	04.11.2024 18:52	10° 20.736' N	027° 08.693' W	5700	max depth/on ground
M205_37	SA2-B4rep	BC	04.11.2024 20:17	10° 20.777' N	027° 08.684' W	5688	on deck
M205_38	SA2-B7	MUC	04.11.2024 21:15	10° 19.454' N	027° 08.653' W	5708	information
M205_38	SA2-B7	MUC	04.11.2024 22:52	10° 19.456' N	027° 08.649' W	5700	max depth/on ground
M205_38	SA2-B7	MUC	05.11.2024 00:34	10° 19.456' N	027° 08.651' W	5701	on deck
M205_39	SA2-B5	BC	05.11.2024 07:09	10° 19.998' N	027° 09.056' W	5701	in the water
M205_39	SA2-B5	BC	05.11.2024 08:28	10° 20.002' N	027° 09.054' W	5699	max depth/on ground
M205_39	SA2-B5	BC	05.11.2024 10:06	10° 20.004' N	027° 09.054' W	5698	on deck
M205_40	SA2-B6	BC	05.11.2024 10:53	10° 19.493' N	027° 08.829' W	5702	in the water
M205_40	SA2-B6	BC	05.11.2024 12:12	10° 19.492' N	027° 08.837' W	5699	max depth/on ground
M205_40	SA2-B6	BC	05.11.2024 13:35	10° 19.503' N	027° 08.852' W	5708	on deck
M205_41	SA3-1	OFOS	06.11.2024 08:32	10° 24.561' N	029° 15.174' W	5465	in the water
M205_41	SA3-1	OFOS	06.11.2024 10:06	10° 24.562' N	029° 15.174' W	5462	profile start
M205_41	SA3-1	OFOS	06.11.2024 15:22	10° 25.508' N	029° 13.527' W	5835	profile end
M205_41	SA3-1	OFOS	06.11.2024 17:00	10° 25.507' N	029° 13.526' W	5833	on deck
M205_42	SA3-2	OFOS	06.11.2024 20:14	10° 21.619' N	029° 13.598' W	5105	in the water
M205_42	SA3-2	OFOS	06.11.2024 21:43	10° 21.619' N	029° 13.599' W	5100	profile start
M205_42	SA3-2	OFOS	07.11.2024 01:07	10° 21.879' N	029° 12.252' W	5560	profile end
M205_42	SA3-2	OFOS	07.11.2024 02:58	10° 21.962' N	029° 12.398' W	5523	on deck
M205_43	SA3-A1	BC	07.11.2024 03:47	10° 23.159' N	029° 13.408' W	5428	in the water
M205_43	SA3-A1	BC	07.11.2024 05:01	10° 23.149' N	029° 13.383' W	5436	max depth/on ground
M205_43	SA3-A1	BC	07.11.2024 06:26	10° 23.150' N	029° 13.383' W	5440	on deck

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_44	SA3-A2	BC	07.11.2024 06:57	10° 23.970' N	029° 14.146' W	5463	in the water
M205_44	SA3-A2	BC	07.11.2024 08:15	10° 23.969' N	029° 14.146' W	5455	max depth/on ground
M205_44	SA3-A2	BC	07.11.2024 09:37	10° 23.970' N	029° 14.145' W	5455	on deck
M205_45	SA3-3	CTD	07.11.2024 10:39	10° 25.354' N	029° 12.799' W	5827	in the water
M205_45	SA3-3	CTD	07.11.2024 12:39	10° 25.356' N	029° 12.799' W	5827	max depth/on ground
M205_45	SA3-3	CTD	07.11.2024 14:17	10° 25.355' N	029° 12.800' W	5826	on deck
M205_46	SA3-5	AN	07.11.2024 11:40	10° 25.352' N	029° 12.797' W	5826	information
M205_47	SA3-5	HN	07.11.2024 14:18	10° 25.355' N	029° 12.800' W	5825	in the water
M205_47	SA3-5rep	HN	07.11.2024 14:18	10° 25.354' N	029° 12.800' W	5825	on deck
M205_48	SA3-A3	BC	07.11.2024 15:09	10° 24.147' N	029° 15.426' W	5460	in the water
M205_48	SA3-A3	BC	07.11.2024 16:25	10° 24.117' N	029° 15.453' W	5453	max depth/on ground
M205_48	SA3-A3	BC	07.11.2024 17:47	10° 24.125' N	029° 15.466' W	5470	on deck
M205_49	SA3-A4	BC	07.11.2024 18:22	10° 23.134' N	029° 15.825' W	5368	in the water
M205_49	SA3-A4	BC	07.11.2024 19:38	10° 23.135' N	029° 15.821' W	5367	max depth/on ground
M205_49	SA3-A4	BC	07.11.2024 21:00	10° 23.141' N	029° 15.849' W	5383	on deck
M205_50	SA3-A5	BC	07.11.2024 21:37	10° 22.533' N	029° 14.965' W	5237	in the water
M205_50	SA3-A5	BC	07.11.2024 22:50	10° 22.529' N	029° 14.958' W	5242	max depth/on ground
M205_50	SA3-A5	BC	08.11.2024 00:10	10° 22.531' N	029° 14.956' W	5246	on deck
M205_51	SA3-A6	MUC	08.11.2024 01:00	10° 22.287' N	029° 13.766' W	5142	in the water
M205_51	SA3-A6	MUC	08.11.2024 02:32	10° 22.290' N	029° 13.767' W	5163	max depth/on ground
M205_51	SA3-A6	MUC	08.11.2024 04:02	10° 22.290' N	029° 13.765' W	5145	on deck
M205_52	SA3-A7	EBS	08.11.2024 05:33	10° 21.947' N	029° 13.900' W	5052	in the water
M205_52	SA3-A7	EBS	08.11.2024 07:33	10° 21.948' N	029° 13.901' W	5052	profile start
M205_52	SA3-A7	EBS	08.11.2024 07:42	10° 22.074' N	029° 13.877' W	5076	max depth/on ground

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_52	SA3-A7	EBS	08.11.2024 08:35	10° 22.917' N	029° 13.746' W	5309	Hoisting
M205_52	SA3-A7	EBS	08.11.2024 10:52	10° 22.918' N	029° 13.744' W	5302	on deck
M205_53	SA3-B1	EBS	08.11.2024 11:44	10° 25.211' N	029° 12.031' W	5815	in the water
M205_53	SA3-B1	EBS	08.11.2024 13:45	10° 25.252' N	029° 12.021' W	5822	profile start
M205_53	SA3-B1	EBS	08.11.2024 14:44	10° 26.163' N	029° 11.774' W	5831	max depth/on ground
M205_53	SA3-B1	EBS	08.11.2024 14:45	10° 26.164' N	029° 11.774' W	5832	hoisting
M205_53	SA3-B1	EBS	08.11.2024 17:14	10° 26.165' N	029° 11.772' W	5831	on deck
M205_54	SA3-4	HN	08.11.2024 14:41	10° 26.125' N	029° 11.785' W	5832	information
M205_55	SA3-B2	BC	08.11.2024 18:19	10° 26.319' N	029° 11.001' W	5842	in the water
M205_55	SA3-B2	BC	08.11.2024 19:41	10° 26.318' N	029° 11.002' W	5847	max depth/on ground
M205_55	SA3-B2	BC	08.11.2024 21:12	10° 26.331' N	029° 11.049' W	5840	on deck
M205_56	SA3-B3	BC	08.11.2024 21:49	10° 25.742' N	029° 11.111' W	5841	in the water
M205_56	SA3-B3	BC	08.11.2024 23:11	10° 25.727' N	029° 11.099' W	5838	max depth/on ground
M205_56	SA3-B3	BC	09.11.2024 00:41	10° 25.735' N	029° 11.130' W	5840	on deck
M205_57	SA3-B7	MUC	09.11.2024 01:34	10° 25.861' N	029° 12.530' W	5831	in the water
M205_57	SA3-B7	MUC	09.11.2024 01:40	10° 25.876' N	029° 12.515' W	5833	information
M205_57	SA3-B7	MUC	09.11.2024 03:17	10° 25.884' N	029° 12.512' W	5833	max depth/on ground
M205_57	SA3-B7	MUC	09.11.2024 05:03	10° 25.885' N	029° 12.512' W	5831	on deck
M205_58	SA3-B4	BC	09.11.2024 05:52	10° 25.699' N	029° 11.554' W	5835	in the water
M205_58	SA3-B4	BC	09.11.2024 07:16	10° 25.693' N	029° 11.537' W	5836	max depth/on ground
M205_58	SA3-B4	BC	09.11.2024 08:43	10° 25.706' N	029° 11.592' W	5830	on deck
M205_59	SA3-B4rep	BC	09.11.2024 11:31	10° 25.701' N	029° 11.552' W	5834	in the water
M205_59	SA3-B4rep	BC	09.11.2024 12:53	10° 25.705' N	029° 11.562' W	5832	max depth/on ground
M205_59	SA3-B4rep	BC	09.11.2024 14:17	10° 25.705' N	029° 11.560' W	5833	on deck

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_60	SA3-B5	BC	09.11.2024 15:06	10° 25.967' N	029° 11.960' W	5832	in the water
M205_60	SA3-B5	BC	09.11.2024 16:25	10° 25.967' N	029° 11.963' W	5832	max depth/on ground
M205_60	SA3-B5	BC	09.11.2024 17:51	10° 25.977' N	029° 12.006' W	5829	on deck
M205_61	SA3-B6	BC	09.11.2024 18:21	10° 26.238' N	029° 12.287' W	5830	in the water
M205_61	SA3-B6	BC	09.11.2024 20:02	10° 26.242' N	029° 12.281' W	5649	max depth/on ground
M205_61	SA3-B6	BC	09.11.2024 21:32	10° 26.253' N	029° 12.317' W	5784	on deck
M205_62	SA4-1	OFOS	10.11.2024 16:21	10° 28.286' N	030° 59.028' W	5040	in the water
M205_62	SA4-1	OFOS	10.11.2024 17:48	10° 28.288' N	030° 59.026' W	5057	profile start
M205_62	SA4-1	OFOS	10.11.2024 23:05	10° 29.315' N	030° 57.154' W	5474	information
M205_62	SA4-1	OFOS	10.11.2024 23:49	10° 29.419' N	030° 56.913' W	5511	profile end
M205_62	SA4-1	OFOS	11.11.2024 01:30	10° 29.437' N	030° 56.930' W	5515	on deck
M205_63	SA4-2	CTD	11.11.2024 02:17	10° 27.411' N	030° 58.409' W	5789	in the water
M205_63	SA4-2	CTD	11.11.2024 03:55	10° 27.417' N	030° 58.406' W	5172	max depth/on ground
M205_63	SA4-2	CTD	11.11.2024 05:23	10° 27.421' N	030° 58.406' W	5148	on deck
M205_64	SA4-3	OFOS	11.11.2024 05:56	10° 27.345' N	030° 58.078' W	5215	in the water
M205_64	SA4-3	OFOS	11.11.2024 07:32	10° 27.352' N	030° 58.073' W	5207	profile start
M205_64	SA4-3	OFOS	11.11.2024 11:20	10° 28.290' N	030° 56.954' W	5572	profile end
M205_64	SA4-3	OFOS	11.11.2024 12:56	10° 28.281' N	030° 56.959' W	5597	on deck
M205_65	SA4-A1	BC	11.11.2024 14:12	10° 26.797' N	030° 57.800' W	5294	in the water
M205_65	SA4-A1	BC	11.11.2024 15:37	10° 26.796' N	030° 57.800' W	5284	max depth/on ground
M205_65	SA4-A1	BC	11.11.2024 16:55	10° 26.797' N	030° 57.802' W	5286	on deck
M205_66	SA4-5	HN	11.11.2024 16:02	10° 26.795' N	030° 57.801' W	5288	information
M205_67	SA4-A2	BC	11.11.2024 17:30	10° 27.792' N	030° 58.300' W	5179	in the water
M205_67	SA4-A2	BC	11.11.2024 18:45	10° 27.786' N	030° 58.299' W	5166	max depth/on ground

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_67	SA4-A2	BC	11.11.2024 20:01	10° 27.811' N	030° 58.309' W	5175	on deck
M205_68	SA4-A3	BC	11.11.2024 20:26	10° 28.218' N	030° 59.226' W	5077	in the water
M205_68	SA4-A3	BC	11.11.2024 21:38	10° 28.217' N	030° 59.229' W	5077	max depth/on ground
M205_68	SA4-A3	BC	11.11.2024 22:56	10° 28.217' N	030° 59.228' W	5065	on deck
M205_69	SA4-A3rep	BC	11.11.2024 23:15	10° 28.189' N	030° 59.228' W	5062	in the water
M205_69	SA4-A3rep	BC	12.11.2024 00:41	10° 28.191' N	030° 59.227' W	5072	max depth/on ground
M205_69	SA4-A3rep	BC	12.11.2024 02:11	10° 28.204' N	030° 59.230' W	5075	on deck
M205_70	SA4-A4	BC	12.11.2024 02:42	10° 28.957' N	031° 00.206' W	5175	in the water
M205_70	SA4-A4	BC	12.11.2024 04:11	10° 28.960' N	031° 00.205' W	5183	max depth/on ground
M205_70	SA4-A4	BC	12.11.2024 05:40	10° 29.038' N	031° 00.215' W	5202	on deck
M205_71	SA4-A6	MUC	12.11.2024 06:26	10° 28.683' N	030° 58.350' W	5122	in the water
M205_71	SA4-A6	MUC	12.11.2024 07:53	10° 28.685' N	030° 58.352' W	5124	max depth/on ground
M205_71	SA4-A6	MUC	12.11.2024 09:26	10° 28.685' N	030° 58.351' W	5527	on deck
M205_72	SA4-A7	EBS	12.11.2024 10:20	10° 28.080' N	030° 58.772' W	5071	in the water
M205_72	SA4-A7	EBS	12.11.2024 12:15	10° 28.080' N	030° 58.772' W	5071	profile start
M205_72	SA4-A7	EBS	12.11.2024 12:25	10° 28.203' N	030° 58.686' W	5067	max depth/on ground
M205_72	SA4-A7	EBS	12.11.2024 13:59	10° 28.875' N	030° 58.230' W	5143	hoisting
M205_72	SA4-A7	EBS	12.11.2024 15:29	10° 28.872' N	030° 58.228' W	5145	on deck
M205_73	SA4-B1	EBS	12.11.2024 17:40	10° 25.252' N	031° 03.449' W	5769	in the water
M205_73	SA4-B1	EBS	12.11.2024 20:06	10° 25.368' N	031° 03.364' W	5732	max depth/on ground
M205_73	SA4-B1	EBS	12.11.2024 21:00	10° 26.100' N	031° 02.831' W	5702	hoisting
M205_73	SA4-B1	EBS	12.11.2024 23:41	10° 26.103' N	031° 02.827' W	5705	on deck
M205_74	SA4-B2	MUC	13.11.2024 00:37	10° 26.020' N	031° 01.514' W	5751	in the water
M205_74	SA4-B2	MUC	13.11.2024 02:21	10° 26.021' N	031° 01.516' W	5744	max depth/on ground

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_74	SA4-B2	MUC	13.11.2024 04:07	10° 26.033' N	031° 01.540' W	5751	on deck
M205_75	SA4-B3	BC	13.11.2024 04:46	10° 24.633' N	031° 01.397' W	5836	in the water
M205_75	SA4-B3	BC	13.11.2024 06:26	10° 24.620' N	031° 01.380' W	5837	max depth/on ground
M205_75	SA4-B3	BC	13.11.2024 08:16	10° 24.620' N	031° 01.380' W	5848	on deck
M205_76	SA4-B2rep	MUC	13.11.2024 08:54	10° 24.604' N	031° 01.357' W	5835	in the water
M205_76	SA4-B2rep	MUC	13.11.2024 10:36	10° 24.605' N	031° 01.357' W	5840	max depth/on ground
M205_76	SA4-B2rep	MUC	13.11.2024 12:20	10° 24.609' N	031° 01.364' W	5847	on deck
M205_77	SA4-5	AN	13.11.2024 11:44	10° 24.607' N	031° 01.361' W	5846	information
M205_78	SA4-B4	BC	13.11.2024 13:03	10° 24.256' N	031° 02.463' W	5855	in the water
M205_78	SA4-B4	BC	13.11.2024 14:40	10° 24.259' N	031° 02.462' W	5839	max depth/on ground
M205_78	SA4-B4	BC	13.11.2024 16:13	10° 24.253' N	031° 02.459' W	5837	on deck
M205_79	SA4-B5	BC	13.11.2024 16:51	10° 25.360' N	031° 03.609' W	5737	in the water
M205_79	SA4-B5	BC	13.11.2024 18:25	10° 25.360' N	031° 03.615' W	5749	max depth/on ground
M205_79	SA4-B5	BC	13.11.2024 19:55	10° 25.394' N	031° 03.648' W	5676	on deck
M205_80	SA5-1	OFOS	14.11.2024 22:00	10° 13.409' N	034° 29.093' W	4838	in the water
M205_80	SA5-1	OFOS	14.11.2024 23:24	10° 13.429' N	034° 29.104' W	4849	profile start
M205_80	SA5-1	OFOS	15.11.2024 05:13	10° 15.236' N	034° 27.870' W	5105	profile end
M205_80	SA5-1	OFOS	15.11.2024 06:46	10° 15.241' N	034° 27.901' W	5105	on deck
M205_81	SA5-2	CTD	15.11.2024 07:10	10° 16.629' N	034° 27.386' W	5486	in the water
M205_81	SA5-2	CTD	15.11.2024 08:55	10° 16.637' N	034° 27.386' W	5506	max depth/on ground
M205_81	SA5-2	CTD	15.11.2024 10:28	10° 16.637' N	034° 27.387' W	5496	on deck
M205_82	SA5-3	OFOS	15.11.2024 11:48	10° 15.906' N	034° 28.496' W	5118	in the water
M205_82	SA5-3	OFOS	15.11.2024 13:11	10° 15.907' N	034° 28.496' W	5112	profile start
M205_82	SA5-3	OFOS	15.11.2024 19:06	10° 17.820' N	034° 26.764' W	5606	profile end

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_82	SA5-3	OFOS	15.11.2024 20:51	10° 17.834' N	034° 26.784' W	5858	on deck
M205_83	SA5-5	AN	15.11.2024 11:57	10° 15.905' N	034° 28.498' W	5953	information
M205_84	SA5-A1	BC	15.11.2024 22:11	10° 15.495' N	034° 28.619' W	5061	in the water
M205_84	SA5-A1	BC	15.11.2024 23:37	10° 15.499' N	034° 28.620' W	5049	max depth/on ground
M205_84	SA5-A1	BC	16.11.2024 00:57	10° 15.497' N	034° 28.620' W	6046	on deck
M205_85	SA5-A2	BC	16.11.2024 01:24	10° 14.951' N	034° 29.079' W	4941	in the water
M205_85	SA5-A2	BC	16.11.2024 02:49	10° 14.964' N	034° 29.061' W	5667	max depth/on ground
M205_85	SA5-A2	BC	16.11.2024 04:11	10° 15.062' N	034° 29.198' W	5000	on deck
M205_86	SA5-A3	BC	16.11.2024 04:49	10° 14.596' N	034° 28.559' W	4951	in the water
M205_86	SA5-A3	BC	16.11.2024 06:13	10° 14.573' N	034° 28.534' W	4953	max depth/on ground
M205_86	SA5-A3	BC	16.11.2024 07:33	10° 14.735' N	034° 28.766' W	4936	on deck
M205_87	SA5-A4	BC	16.11.2024 08:03	10° 14.015' N	034° 28.635' W	4929	in the water
M205_87	SA5-A4	BC	16.11.2024 09:27	10° 14.020' N	034° 28.632' W	0	max depth/on ground
M205_87	SA5-A4	BC	16.11.2024 10:46	10° 14.094' N	034° 28.742' W	0	on deck
M205_88	SA5-A5	BC	16.11.2024 11:19	10° 13.780' N	034° 27.917' W	4921	in the water
M205_88	SA5-A5	BC	16.11.2024 12:36	10° 13.732' N	034° 27.815' W	4914	max depth/on ground
M205_88	SA5-A5	BC	16.11.2024 13:51	10° 13.767' N	034° 27.855' W	4918	on deck
M205_89	SA5-A6	MUC	16.11.2024 14:30	10° 14.561' N	034° 28.248' W	4965	in the water
M205_89	SA5-A6	MUC	16.11.2024 14:34	10° 14.564' N	034° 28.227' W	5948	information
M205_89	SA5-A6	MUC	16.11.2024 15:51	10° 14.579' N	034° 28.207' W	4966	max depth/on ground
M205_89	SA5-A6	MUC	16.11.2024 17:16	10° 14.582' N	034° 28.209' W	4966	on deck
M205_90	SA5-A7	EBS	16.11.2024 18:01	10° 13.497' N	034° 29.026' W	4870	in the water
M205_90	SA5-A7	EBS	16.11.2024 20:00	10° 13.634' N	034° 28.938' W	4897	max depth/on ground
M205_90	SA5-A7	EBS	16.11.2024 20:48	10° 14.295' N	034° 28.517' W	4945	Hoisting

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_90	SA5-A7	EBS	16.11.2024 23:04	10° 14.270' N	034° 28.485' W	4947	on deck
M205_91	SA5-B1	EBS	17.11.2024 00:05	10° 17.181' N	034° 24.613' W	5860	in the water
M205_91	SA5-B1	EBS	17.11.2024 02:15	10° 17.180' N	034° 24.610' W	5860	profile start
M205_91	SA5-B1	EBS	17.11.2024 03:25	10° 18.172' N	034° 24.157' W	5629	hoisting
M205_91	SA5-B1	EBS	17.11.2024 06:07	10° 18.890' N	034° 23.819' W	5646	on deck
M205_92	SA5-B2	BC	17.11.2024 07:33	10° 18.895' N	034° 23.824' W	5632	in the water
M205_92	SA5-B2	BC	17.11.2024 09:08	10° 18.893' N	034° 23.822' W	5629	information
M205_92	SA5-B2	BC	17.11.2024 10:32	10° 18.894' N	034° 23.821' W	5635	on deck
M205_93	SA5-B3	BC	17.11.2024 11:05	10° 18.437' N	034° 24.864' W	5625	in the water
M205_93	SA5-B3	BC	17.11.2024 12:39	10° 18.434' N	034° 24.868' W	5641	max depth/on ground
M205_93	SA5-B3	BC	17.11.2024 14:02	10° 18.433' N	034° 24.868' W	5638	on deck
M205_94	SA5-B4	MUC	17.11.2024 14:35	10° 17.328' N	034° 24.714' W	5612	in the water
M205_94	SA5-B4	MUC	17.11.2024 14:40	10° 17.334' N	034° 24.680' W	5619	information
M205_94	SA5-B4	MUC	17.11.2024 16:05	10° 17.332' N	034° 24.665' W	5609	max depth/on ground
M205_94	SA5-B4	MUC	17.11.2024 17:37	10° 17.334' N	034° 24.665' W	5608	on deck
M205_95	SA5-B4rep	BC	17.11.2024 18:12	10° 17.334' N	034° 24.665' W	5608	in the water
M205_95	SA5-B4rep	BC	17.11.2024 19:45	10° 17.323' N	034° 24.657' W	5624	max depth/on ground
M205_95	SA5-B4rep	BC	17.11.2024 21:11	10° 17.321' N	034° 24.657' W	5610	on deck
M205_96	SA5-B5	BC	17.11.2024 21:46	10° 17.012' N	034° 23.859' W	5605	in the water
M205_96	SA5-B5	BC	17.11.2024 23:20	10° 17.012' N	034° 23.857' W	5601	max depth/on ground
M205_96	SA5-B5	BC	18.11.2024 00:49	10° 17.011' N	034° 23.860' W	5850	on deck
M205_97	SA5-B6	BC	18.11.2024 01:16	10° 17.673' N	034° 23.156' W	5874	in the water
M205_97	SA5-B6	BC	18.11.2024 02:50	10° 17.684' N	034° 23.128' W	5622	max depth/on ground
M205_97	SA5-B6	BC	18.11.2024 04:22	10° 17.782' N	034° 23.222' W	5622	on deck

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_98	SA5-6	OFOS	18.11.2024 15:11	10° 12.106' N	034° 30.220' W	4305	in the water
M205_98	SA5-6	OFOS	18.11.2024 16:24	10° 12.052' N	034° 30.159' W	4292	profile start
M205_98	SA5-6	OFOS	18.11.2024 22:18	10° 13.618' N	034° 28.459' W	4884	profile end
M205_98	SA5-6	OFOS	18.11.2024 23:59	10° 13.625' N	034° 28.461' W	4876	on deck
M205_99	SA5-B7	MUC	19.11.2024 00:58	10° 17.780' N	034° 24.235' W	5626	in the water
M205_99	SA5-B7	MUC	19.11.2024 02:36	10° 17.769' N	034° 24.255' W	5625	max depth/on ground
M205_99	SA5-B7	MUC	19.11.2024 04:19	10° 17.779' N	034° 24.274' W	5610	on deck
M205_100	SA5-A1rep	BC	19.11.2024 05:26	10° 15.483' N	034° 28.562' W	5065	in the water
M205_100	SA5-A1rep	BC	19.11.2024 06:51	10° 15.474' N	034° 28.568' W	5053	max depth/on ground
M205_100	SA5-A1rep	BC	19.11.2024 08:17	10° 15.452' N	034° 28.587' W	5051	on deck
M205_101	SA5-A5rep	BC	19.11.2024 08:56	10° 14.517' N	034° 28.562' W	4947	in the water
M205_101	SA5-A5rep	BC	19.11.2024 10:19	10° 14.515' N	034° 28.555' W	4951	max depth/on ground
M205_101	SA5-A5rep	BC	19.11.2024 11:36	10° 14.506' N	034° 28.564' W	4946	on deck
M205_102	SAX-1	OFOS	19.11.2024 14:26	10° 03.825' N	034° 40.235' W	5282	in the water
M205_102	SAX-1	OFOS	19.11.2024 15:59	10° 03.823' N	034° 40.237' W	5278	profile start
M205_102	SAX-1	OFOS	19.11.2024 22:39	10° 06.163' N	034° 39.085' W	5366	profile end
M205_102	SAX-1	OFOS	20.11.2024 00:32	10° 06.225' N	034° 38.994' W	5356	on deck
M205_103	SAX-1_1	HN	19.11.2024 14:55	10° 03.823' N	034° 40.235' W	5279	information
M205_104	SAX-1_2	HN	19.11.2024 17:31	10° 04.364' N	034° 39.971' W	5403	information
M205_105	SAX-2	BC	20.11.2024 01:19	10° 03.792' N	034° 40.286' W	5293	in the water
M205_105	SAX-2	BC	20.11.2024 02:46	10° 03.805' N	034° 40.287' W	5319	max depth/on ground
M205_105	SAX-2	BC	20.11.2024 04:16	10° 03.799' N	034° 40.285' W	5292	on deck
M205_106	SAX-3	BC	20.11.2024 04:43	10° 03.911' N	034° 40.223' W	5270	in the water
M205_106	SAX-3	BC	20.11.2024 06:12	10° 03.919' N	034° 40.220' W	5269	max depth/on ground

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_106	SAX-3	BC	20.11.2024 07:39	10° 03.919' N	034° 40.219' W	5271	on deck
M205_107	SAX-4	MUC	20.11.2024 08:22	10° 03.904' N	034° 40.228' W	5269	in the water
M205_107	SAX-4	MUC	20.11.2024 09:54	10° 03.904' N	034° 40.228' W	5273	max depth/on ground
M205_107	SAX-4	MUC	20.11.2024 11:26	10° 03.816' N	034° 40.212' W	5296	on deck
M205_108	SAX-5	OFOS	20.11.2024 12:22	10° 02.676' N	034° 40.073' W	5332	in the water
M205_108	SAX-5	OFOS	20.11.2024 13:57	10° 02.679' N	034° 40.073' W	5338	profile start
M205_108	SAX-5	OFOS	20.11.2024 19:17	10° 03.852' N	034° 39.202' W	5407	on deck
M205_109	SAX-6	BC	20.11.2024 20:37	10° 02.661' N	034° 40.140' W	5299	in the water
M205_109	SAX-6	BC	20.11.2024 22:06	10° 02.661' N	034° 40.140' W	5300	max depth/on ground
M205_109	SAX-6	BC	20.11.2024 23:31	10° 02.660' N	034° 40.138' W	5284	on deck
M205_110	SAX-7	BC	21.11.2024 00:01	10° 02.693' N	034° 40.095' W	5329	in the water
M205_110	SAX-7	BC	21.11.2024 01:31	10° 02.700' N	034° 40.103' W	5310	max depth/on ground
M205_110	SAX-7	BC	21.11.2024 02:58	10° 03.175' N	034° 40.157' W	5353	on deck
M205_111	SAX-8	MUC	21.11.2024 03:43	10° 04.990' N	034° 39.664' W	5392	in the water
M205_111	SAX-8	MUC	21.11.2024 03:46	10° 04.993' N	034° 39.664' W	5391	information
M205_111	SAX-8	MUC	21.11.2024 05:15	10° 04.995' N	034° 39.663' W	5389	max depth/on ground
M205_111	SAX-8	MUC	21.11.2024 06:55	10° 04.999' N	034° 39.662' W	5391	on deck
M205_112	SAX-9	EBS	21.11.2024 08:05	10° 04.729' N	034° 40.006' W	5640	in the water
M205_112	SAX-9	EBS	21.11.2024 10:07	10° 04.730' N	034° 40.008' W	5394	profile start
M205_112	SAX-9	EBS	21.11.2024 10:14	10° 04.796' N	034° 39.937' W	5392	information
M205_112	SAX-9	EBS	21.11.2024 11:06	10° 05.247' N	034° 39.256' W	5385	hoisting
M205_112	SAX-9	EBS	21.11.2024 13:23	10° 05.248' N	034° 39.258' W	5384	on deck
M205_113	SAX-10	EBS	21.11.2024 14:56	10° 03.097' N	034° 40.079' W	5375	in the water
M205_113	SAX-10	EBS	21.11.2024 16:54	10° 03.047' N	034° 39.986' W	5373	profile start

Station No. (METEOR)	Station name (SGN)	Gear	Date/Time [UTC]	Latitude	Longitude	Water Depth [m]	Comment
M205_113	SAX-10	EBS	21.11.2024 16:59	10° 03.041' N	034° 39.912' W	5375	information
M205_113	SAX-10	EBS	21.11.2024 17:29	10° 02.993' N	034° 39.445' W	5399	hoisting
M205_113	SAX-10	EBS	21.11.2024 19:54	10° 03.003' N	034° 39.446' W	5394	on deck
M205_114	SAX-11	MUC	21.11.2024 21:38	10° 03.027' N	034° 39.817' W	5373	in the water
M205_114	SAX-11	MUC	21.11.2024 23:10	10° 03.031' N	034° 39.815' W	5372	max depth/on ground
M205_114	SAX-11	MUC	22.11.2024 00:41	10° 03.028' N	034° 39.815' W	5379	on deck
M205_115	SAX-12	OFOS	22.11.2024 03:26	10° 01.821' N	034° 21.000' W	5433	in the water
M205_115	SAX-12	OFOS	22.11.2024 05:05	10° 01.848' N	034° 20.933' W	5429	profile start
M205_115	SAX-12	OFOS	22.11.2024 12:07	10° 04.253' N	034° 18.892' W	5408	profile end
M205_115	SAX-12	OFOS	22.11.2024 13:55	10° 04.254' N	034° 18.890' W	5407	on deck
M205_116	SAX-13	AN	22.11.2024 12:39	10° 04.254' N	034° 18.891' W	5403	information
M205_117		MBES	22.11.2024 20:57	10° 08.409' N	033° 15.818' W	5705	profile start
M205_117		MBES	23.11.2024 06:15	09° 57.625' N	033° 15.638' W	5327	profile end