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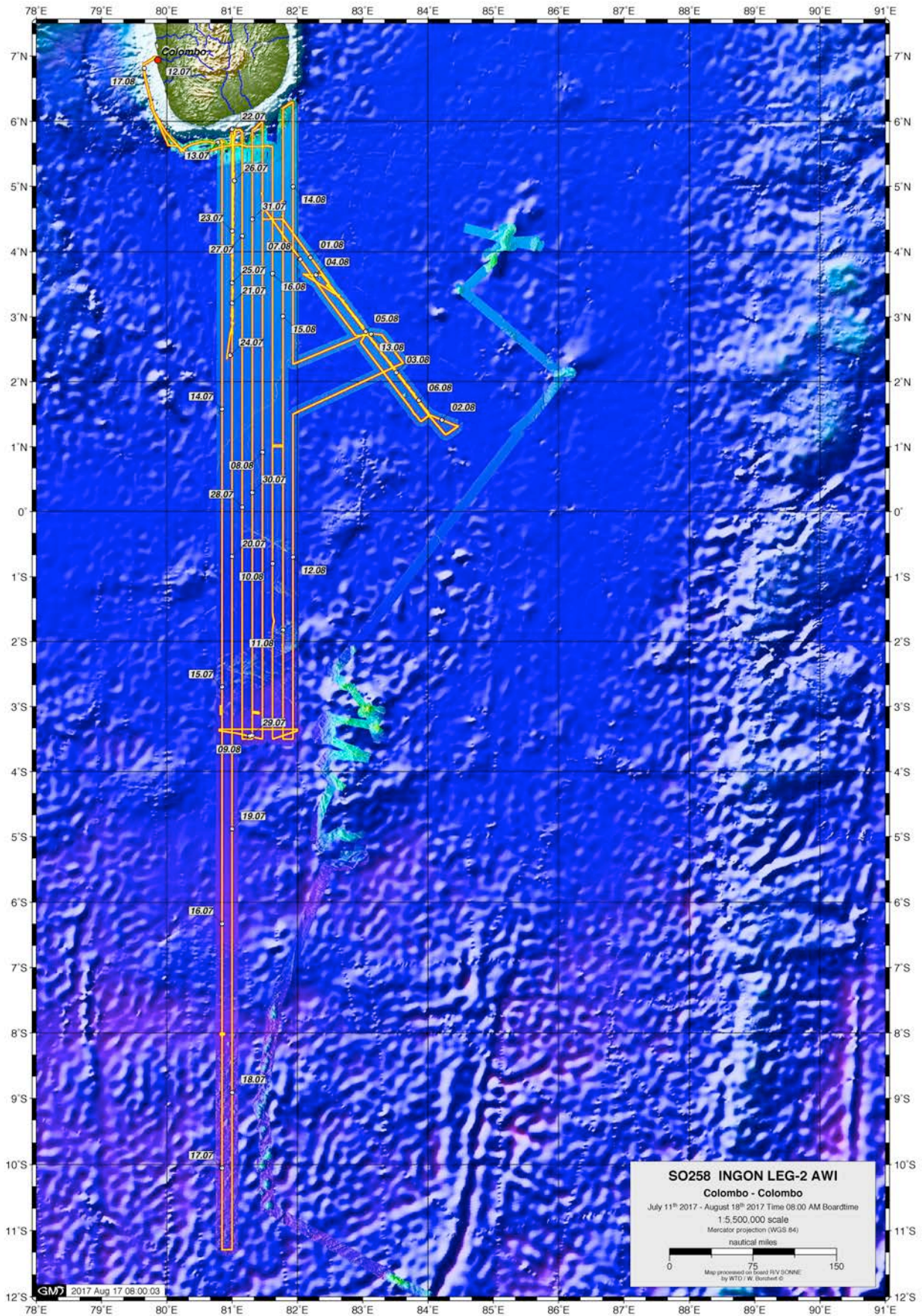
Short Cruise Report
R/V SONNE cruise SO258 Leg 2

Colombo (Sri Lanka) - Colombo (Sri Lanka)

12.07.2017 - 17.08.2017

Chief Scientist: Dr. Wolfram Geissler

Captain: Oliver Meyer



Objectives

R/V SONNE cruise SO258 is part of the research project INGON, which is a collaboration between the Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI) in Bremerhaven and the GEOMAR Helmholtz Centre for Ocean Research in Kiel. Using the example of the Indian-Antarctic Breakup c. 130 m.y. ago, SO258 INGON aims to investigate magmatic and tectonic processes that trigger the breakup of continents and the formation of ocean basins. This is not only an important topic in basic research contributing to a better understanding of the Earth system but also provides important data on the relations between magmatic and volcanic activity and their influence on environment, climate, and ecological systems. Many questions remain concerning the Indian/Sri Lanka separation from Antarctica during the break-up of Gondwana. When was the initiation of the breakup? Was it triggered by a hotspot, which generated the Rajmahal Trap basalts (plume head) and 85°E ridge (plume tail), one of in total three prominent basement ridges in the Indian Ocean? Did the extremely rapid drift of India/Sri Lanka begin at breakup or instead at ~67 Ma triggered by a different process? Determination of the timing of the rapid motion (~18 cm/yr) has major implications for its cause. To answer these questions, obtaining an accurate magnetic model for Indian seafloor off Sri Lanka from initiation to ≤ 70 Myr is essential. Published kinematic models vary by more than 30 m.y. and therefore the related magmatic processes are unknown. To date, only a single locality along the 85°E Ridge (Afanasy Nikitin) has been sampled, but only two age dates (67 Ma, Krishna et al. 2014, J. Earth Syst. Sci. 123-1) are available and its origin is unclear. The samples from Afanasy Nikitin, however, show the most enriched (continental-like) isotopic ratios of any rocks analyzed from the ocean basins thus far. The origin of this geochemical anomaly, however, is still unclear. The major objective of SO258 Leg 2 INGON is testing current plate kinematic/ geodynamic models for the separation of India/Sri Lanka from Antarctica and the rate of drift of the Indian plate by a combination of various geophysical methods (magnetics, seismics, gravity, bathymetry). In this context, the structure and geometry of the continent-ocean transition (COT) south of Sri Lanka, the adjacent oceanic crust, as well as the structure of the 85°E Ridge will be investigated during cruise SO258 leg 2. These investigations were preceded on SO258 Leg 1 by complementary geochronological-geochemical studies conducted by the GEOMAR Kiel.

Narrative

R/V SONNE Cruise SO258 leg 2 started in Colombo, Sri Lanka. Already on July 9, some members of the scientific party visited the ship that had arrived in the morning and began with the installation of the gravity meter. On Monday, July 10, a pre-cruise meeting was held at the Foreign Affairs Ministry of Colombo, organized by the National Ocean Affairs Committee, to discuss the objectives of the cruise and related more technical issues. In the meantime, the first parts of the equipment were unloaded from the containers. In the course of July 11, the SO258 leg 2 scientific party embarked R/V SONNE. The scientific party continued with setting-up the laboratories and preparations of the equipment. R/V SONNE set sail in the morning of July 12.

Already in the late afternoon of July 12 we reached our first scientific station. The first cast was a CTD to measure temperature and conductivity within the water column. This data was used to calculate the speed of sound in the water to calibrate the echo sounder systems. Afterwards the release units of the ocean-bottom seismometers (OBS) were tested successfully. These tests continued until the early morning of July 13, 2017. After we had passed the sea route at Dondra Head, the towed magnetic system was deployed and systematic measurements started along the first profile at 07:30 LT. The fixed three-

component fluxgate magnetometer system of our Japanese cooperation partners acquired data already since we left the harbor of Colombo. The systematic survey of the Earth's magnetic field to the south of Sri Lanka had the highest priority during cruise SO258 leg 2. July 14 we passed the equator for the first time. A first mobile sound velocity probe was deployed to update the sound velocity profile necessary for the echo sounders. Since the profile was similar to the first measured profile, no corrections had to be made. In the morning of July 15 magnetic measurements had to be interrupted unexpectedly, since the towed sensor had to be changed due to technical problems. In the afternoon of July 15 another mobile CTD was deployed. Afterwards R/V SONNE did double loops ("8" turn) to calibrate the fixed magnetometer system. Using data recorded on the calibration loops allow correcting for the influence of the magnetic field of the vessel. Since we left the harbor, three marine mammal observers investigated which animals were present within our study area. First sightings included whales, dolphins, whale sharks, turtles and birds. These first observations were used to adjust the mitigation procedures for the seismic measurements.

In the afternoon of July 17 the southernmost point of the profile slightly south of 11° S was reached. On the way to the south the weather had become worse. A strong high-pressure field south of our working area was responsible for wind up to strength of Beaufort 9 and high waves. It forced us to turn to the East and go to our second magnetic profile along 81° E. In the night towards July 21 the magnetic measurements with the towed system were stopped at 3° N. The tow fish was recovered. The seismic team started to deploy 30 ocean-bottom seismometers (OBS) along the northern profile section up to the southern shelf break of Sri Lanka. More or less every 60 minutes, the next deployment site was reached. Early in the morning of July 22, the last OBSs were deployed in the area of the Traffic Separation scheme and north of it. At that time, there were not only the large container carrier, war ships and tanker vessels, but also many small fisher boats. The nautical officers had to carefully navigate R/V SONNE through all that traffic. After the deployment of the last OBS the vessel went slightly to the east to reach the deployment position for air guns and the magnetometer. Going with slow speed against the current, the deployments went without problems. Unfortunately, the 3000 m long hydrophone cable (streamer) could not be prepared in time to be used along the first profile. Already before and during the deployment, whales, in most cases pygmy blue whales, visited us.

Just after the air guns were at full power and the profile started, one whale surfaced close to the vessel. According to the mitigation plan the air guns had to be stopped immediately. R/V SONNE proceeded on profile towards the south throughout the traffic separation zone without a seismic source signal. After a defined period of quiescence the air guns were activated a second time with reduced signal strength. Since no whale surfaced in the vicinity of the vessel again, the seismic measurements could be continued after reaching full power. After two days of continuous profiling along the 81st meridian we arrived at the southern end of the profile in the morning of July 24 at $2^{\circ} 26'$ N. After the towed magnetometer and the air gun clusters were recovered, the recovery of OBSs started. With only a few exceptions, recovery of the instruments went very well and fast due to good weather conditions and sea state. Within two days R/V SONNE reached the waters south of Sri Lanka again. Towards the coast, strong currents shifted the recovery position of the instruments eastwards. In the evening of July 26, during the recovery of the last OBS close to the coast of Sri Lanka, we were again accompanied by pygmy blue whales. During the remaining days of the third week the magnetic survey was continued. There was only a short break because of a technical test of one of the sensors.

At the beginning of the fourth week R/V SONNE again followed a northern course to measure the Earth magnetic field along the third magnetic profile. Without any disturbances R/V SONNE reached the shelf waters south of Sri Lanka in the afternoon of

July 31. This time the weather and sea were rougher. In the morning of August 1 the towed magnetometer system was recovered to start with the deployment of 21 OBS along the second seismic refraction profile. In the meantime, the preparations for the deployment of the 3000 m long hydrophone cable (streamer) could be finalized. In the morning of August 2, the last of the 21 ocean-bottom seismometers was on its way to the seafloor. R/V SONNE went slightly eastward to start the deployment of the streamer, the airguns and at last the magnetometer. In the following one and a half days the second seismic profile was measured towards NW, crossing all the OBS positions without any interruptions. In the early morning of August 4 recovery of the towed gears and also the OBS started. As already during the deployments everything went well. The weather had become worse during the last couple of days. Beside stronger wind and increased sea state, we also got heavy rainfalls at the vessel from time to time. During the rainfalls the wind strength increased from Beaufort 6 or 7 up to 9 for short intervals. But shortly after, the sun was shining again. Since the R/V SONNE runs stable within the sea, all planned actions and measurements could be carried out. Till August 6 R/V SONNE again sailed on SE course to recover OBS. Although the weather was quite rough and made the recoveries more difficult, the experienced crew was able to bring all instruments safely home. Unfortunately, we failed at one station to set communication with the release unit at the seafloor.

The fifth week was fully dedicated to the measurements of the Earth's magnetic field along the planned N-S profiles using both the towed and fixed magnetometer systems. To be able to run all along the remaining many profile kilometers R/V SONNE went on full speed from now on. In the early morning of August 9, close to 3° S, again a mobile sound velocity probe was deployed to validate the calibration data of the hydro-acoustic systems. August 10 decision was made to continue with magnetic measurements until the very end of the cruise. Unfortunately, there was not enough time left to measure another seismic profile. In the very early morning of August 12, a severe problem with the towed magnetometer system occurred that could not be fixed on board. From this time on, only the fixed magnetometer system was in operation, together with the gravity meter and the echo sounders. The weather during the last week changed very often. Pretty sunshine interchanged with heavy rainfalls. Wind strength ranged from 5 to 7. Also the heights of the waves increased temporarily, mostly in the southern part of our survey area.

At the beginning of the sixth week, R/V SONNE reached again the shelf break southeast of Sri Lanka on August 14 at noon. It was again a great opportunity for our marine mammal observers to spot pygmy blue whales. Scientific party members that were not scheduled for watches were busy with packing all the scientific equipment. All devices had been dismantled and packed into boxes. Finally the containers could be stowed. On August 15 and 16 we completed the magnetic survey grid with the missing northern parts of two N-S profiles. All devices still in operation worked very well. Scientific data acquisition was finished August 16 at 23:00 local time. After a short transit from the last scientific profile R/V SONNE reached the pilot station at the entrance to the port of Colombo in the morning of August 17 around eight o'clock. The sun just had risen above the city. With a slight delay the pilot together with the help of a tug guided R/V SONNE towards the North Pier. At eleven o'clock the vessel finally arrived at the pier. After all scientific equipment, 5 containers and the big streamer winch, was taken from board, the gravity tie measurements were carried out beside the vessel and at known localities in Colombo, using a mobile gravity meter in the evening of August 17. A first group of scientist had already disembarked in the afternoon. The remaining members of the scientific party disembarked during August 18 and 19.

In the morning of August 18, a post-cruise meeting took place at the Foreign Affairs Ministry of Colombo, organized by the National Ocean Affairs Committee, to inform about the cruise and first preliminary results and discuss plans for the future. In the afternoon

employees of the German Embassy visited RV SONNE. Students of the universities Peradeniya and Ruhuna got a guided tour on the vessel in the morning of August 19. In the evening, the Ambassador of the Federal Republic of Germany in Sri Lanka, H. E. Jörn Rohde, invited for a cocktail reception onboard RV SONNE.

Acknowledgements

We thank the Captain Oliver Meyer and the crew of R/V SONNE for their professional and friendly support of the scientific work at sea. Their hard work, high level of experience, great flexibility and willingness to help, as well as the pleasant working atmosphere on board, contributed directly to the success of the SO258 leg 2 expedition. We are also grateful to the German Federal Ministry of Education and Research for continuing support of marine research. Additional funding was provided by AWI Bremerhaven and NIPR Tokyo. Much appreciated support has been given by the Projektträger Jülich, Leitstelle Deutsche Forschungsschiffe in Hamburg, and Briesse Schifffahrts GmbH & Co. KG. Furthermore we thank the German instrument pool for amphibian seismology (DEPAS) for providing instruments and technical support. We thank all unnamed people in our institutes and somewhere else that made this cruise to a successful expedition. Lastly, we would also like to thank the German Ministry of Foreign Affairs and the Embassy of Germany in Colombo for acquiring the necessary research permits.

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Abkürzungen / Abbreviation

z.W zu Wasser / into water
a.D. an Deck / on deck
Slmax (maximale) Seillänge / max. rope-length
LT Lottiefe nach EM 122 / Depth of EM 122
W ... eingesetzte Winde / Winch used
nm Seemeilen / nautical miles
EM/PS SIMRAD Multibeam / Parasound
rwk / COG: Rechtweisender Kurs / true course
d: Distanz / distance
v: Geschwindigkeit in Knoten / SOG in knots
SL: Seillänge / rope-length
SZ: Seilzug / rope tension

Eingesetzte Geräte / Equipment used

CTD 2
XCTD 2
XSV 2
XBT 1
OBS Auslage / Aufnahme 51 / 50
Magnetometer-Profil 3
Seismik-Profil o. Streamer 1
Seismik-Profil m. Streamer 1
Releaser-Test 1

Einsätze / tasks

Geräteverluste / lost Equipment: 1 OBS

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
Station - Device C	date time	Device	Device Code	Action	Comment (Station)	Comment (Device Operatio	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind Speed (m	Course
SO258/2 1-1	12.07.2017 11:50:42	CTD	CTD	station start			EL2. Schallprofilmessung	f	5° 34,881' N	80° 12,121' E	3828.5	0.4	274.5	9.7	18.5
SO258/2 1-1	12.07.2017 11:56:55	CTD	CTD	in the water				f	5° 34,883' N	80° 12,109' E	3828.4	0.4	275.2	9.5	186.5
SO258/2 1-1	12.07.2017 13:07:32	CTD	CTD	max depth/on ground			SLmax: 2500m	f	5° 34,807' N	80° 12,204' E	3824.9	0.1	280.3	9.8	229.4
SO258/2 1-1	12.07.2017 14:12:04	CTD	CTD	on deck				f	5° 34,765' N	80° 12,250' E	0	0.2	273.6	9.3	259.5
SO258/2 1-1	12.07.2017 14:13:02	CTD	CTD	station end				f	5° 34,766' N	80° 12,246' E	0	0.3	275.2	10	341.3
SO258/2 1-2	12.07.2017 14:24:49	Passive Acoustic Monitoring System	PAM	station start			(Releasertest)	f	5° 34,732' N	80° 12,295' E	0	1.9	278.5	9.4	134
SO258/2 1-2	12.07.2017 14:25:49	Passive Acoustic Monitoring System	PAM	in the water			EL 2	f	5° 34,711' N	80° 12,316' E	0	2.1	276.8	9.6	134.6
SO258/2 1-2	12.07.2017 15:06:39	Passive Acoustic Monitoring System	PAM	information			SLmax: 1500 m, SZ: 7 kN	f	5° 34,474' N	80° 12,593' E	0	0.1	275.4	10.2	173.1
SO258/2 1-2	12.07.2017 15:32:35	Passive Acoustic Monitoring System	PAM	information			Hieven	f	5° 34,467' N	80° 12,591' E	0	0.2	281.4	8.5	250.1
SO258/2 1-2	12.07.2017 16:10:20	Passive Acoustic Monitoring System	PAM	on deck			Releaser a. D.	f	5° 34,268' N	80° 12,650' E	0	0.2	284.8	8.9	21.4
SO258/2 1-2	12.07.2017 16:21:38	Passive Acoustic Monitoring System	PAM	station end				f	5° 34,265' N	80° 12,652' E	0	0.1	282.6	8.4	341.8
SO258/2 1-3	12.07.2017 16:23:04	Passive Acoustic Monitoring System	PAM	station start			(Releasertest) EL2, Kl. Schiebebalken	f	5° 34,266' N	80° 12,651' E	0	0.1	281.4	8.8	75.8
SO258/2 1-3	12.07.2017 16:29:13	Passive Acoustic Monitoring System	PAM	in the water				f	5° 34,250' N	80° 12,666' E	0	1.3	285.4	8.4	140.3
SO258/2 1-3	12.07.2017 17:12:03	Passive Acoustic Monitoring System	PAM	information			SLmax: 1500 m, SZ: 7 kN	f	5° 34,006' N	80° 12,865' E	0	0.3	267	8.6	22.3
SO258/2 1-3	12.07.2017 17:29:34	Passive Acoustic Monitoring System	PAM	information			Hieven EL2	f	5° 34,005' N	80° 12,863' E	0	0.2	275.7	8.7	149.7
SO258/2 1-3	12.07.2017 17:59:25	Passive Acoustic Monitoring System	PAM	on deck			Releaser a. D.	f	5° 33,896' N	80° 12,902' E	0	0.1	271.7	7.4	138.9
SO258/2 1-3	12.07.2017 18:03:01	Passive Acoustic Monitoring System	PAM	station end				f	5° 33,896' N	80° 12,899' E	0	0.2	267.3	7.3	105.7
SO258/2 1-4	12.07.2017 18:04:23	Passive Acoustic Monitoring System	PAM	station start			(Releasertest) EL2, Kl. Schiebebalken	f	5° 33,895' N	80° 12,900' E	0	0.2	269.3	8.4	325.5
SO258/2 1-4	12.07.2017 18:11:04	Passive Acoustic Monitoring System	PAM	in the water			Releaser z. W.	f	5° 33,890' N	80° 12,904' E	0	0.8	267.1	9.4	122.8
SO258/2 1-4	12.07.2017 18:54:07	Passive Acoustic Monitoring System	PAM	information			SLmax: 1500m, SZ: 7,1kN	f	5° 33,655' N	80° 13,071' E	0	0.2	271	8.7	230.3
SO258/2 1-4	12.07.2017 19:10:46	Passive Acoustic Monitoring System	PAM	information			Beginn hieven	f	5° 33,657' N	80° 13,074' E	0	0.3	271.5	9.8	36.2
SO258/2 1-4	12.07.2017 19:41:35	Passive Acoustic Monitoring System	PAM	on deck			Releaser an Deck	f	5° 33,623' N	80° 13,092' E	0	0.9	263.7	9.9	122.5
SO258/2 1-4	12.07.2017 19:44:33	Passive Acoustic Monitoring System	PAM	station end				f	5° 33,624' N	80° 13,094' E	0	0.3	267	9.8	69.1
SO258/2 1-5	12.07.2017 19:53:00	Passive Acoustic Monitoring System	PAM	station start			Releaser Test	f	5° 33,623' N	80° 13,097' E	0	0.5	274.9	9.2	220.7
SO258/2 1-5	12.07.2017 19:56:49	Passive Acoustic Monitoring System	PAM	in the water			EL 2	f	5° 33,585' N	80° 13,121' E	0	0.9	272.3	9	134
SO258/2 1-5	12.07.2017 20:40:09	Passive Acoustic Monitoring System	PAM	information			SLmax: 1500m, SZ: 6,8kN	f	5° 33,450' N	80° 13,195' E	0	0.2	264.3	10.6	96.2
SO258/2 1-5	12.07.2017 20:55:25	Passive Acoustic Monitoring System	PAM	information			Beginn hieven	f	5° 33,453' N	80° 13,198' E	0	0.3	265.7	10.2	151.1
SO258/2 1-5	12.07.2017 21:28:25	Passive Acoustic Monitoring System	PAM	on deck				f	5° 33,346' N	80° 13,251' E	0	0.3	264.4	9.7	216.6
SO258/2 1-5	12.07.2017 21:35:23	Passive Acoustic Monitoring System	PAM	station end				f	5° 33,341' N	80° 13,249' E	0	0.2	262.1	10.3	38.7
SO258/2 2-1	13.07.2017 01:08:44	Magnetometer	MAG	station start			mobile AWI-Winde,	f	5° 40,534' N	80° 52,630' E	2323.3	2.8	260.4	6	273.8
SO258/2 2-1	13.07.2017 01:17:07	Magnetometer	MAG	in the water				f	5° 40,589' N	80° 52,206' E	2253.3	3.3	271.1	6.5	281.7
SO258/2 2-1	13.07.2017 01:38:19	Magnetometer	MAG	information			Kabel ausgesteckt, SL: 680m	f	5° 40,738' N	80° 51,169' E	2193.1	3.1	263.3	6.2	280.6
SO258/2 2-1	13.07.2017 02:06:41	Magnetometer	MAG	recording start			Profilbeginn, rwK: 180°, v: 11,0kn	f	5° 41,364' N	80° 50,682' E	2138.2	9.7	270.5	8.5	179.1
SO258/2 2-1	14.07.2017 09:13:50	Magnetometer	MAG	information			SVP-Sonde zu Wasser, fallen auf 2000m	f	0° 0,299' S	80° 50,613' E	4623.5	3.6	288.2	6.5	185.2
SO258/2 2-1	14.07.2017 09:19:43	Magnetometer	MAG	information			Kabel an Sonde gerissen - Station beendet	f	0° 0,665' S	80° 50,618' E	4625.8	4.4	284.6	5.4	182.8
SO258/2 2-1	15.07.2017 02:40:14	Magnetometer	MAG	information			Start hieven Magnetometer wegen Defekt	f	3° 3,272' S	80° 50,697' E	4973.8	5.9	252.9	3.9	188.8

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2_2-1	15.07.2017 03:03:56	Magnetometer	MAG	on deck			Magnetometerkabel a. D.	f	3° 4,187' S	80° 50,772' E	4985,6	2,7	259,5	3,4	180,6
SO258/2_2-1	15.07.2017 03:52:48	Magnetometer	MAG	in the water			Magnetometer z. W., SL: 700 m	f	3° 6,070' S	80° 50,714' E	4897,4	2,3	218,1	5,1	179,1
SO258/2_2-1	15.07.2017 03:56:18	Magnetometer	MAG	alter course			rwK: 360°, d: 5 sm, FdW: 11,0 kn, Kurvenradius: 0,7 sm	f	3° 6,237' S	80° 50,707' E	4990,1	4	223,1	6,3	180,1
SO258/2_2-1	15.07.2017 04:53:23	Magnetometer	MAG	alter course			rwK: 180°, Kurvenradius: 0,75 sm, FdW: 11,0 kn	f	2° 59,667' S	80° 49,273' E	4979,9	10,2	186,8	7	22
SO258/2_2-1	15.07.2017 05:05:42	Magnetometer	MAG	profile start			Fortsetzung Profil, rwK: 180°, FdW: 11,0 kn	f	3° 0,038' S	80° 50,662' E	4978,7	9,9	186,1	7,9	176,2
SO258/2_2-1	16.07.2017 09:40:43	Magnetometer	MAG	information			XBT Sonde zu Wasser	f	7° 59,662' S	80° 50,669' E	5235	3,8	126,4	9,4	187,3
SO258/2_2-1	16.07.2017 09:50:16	Magnetometer	MAG	information			XBT Sonde auf Tiefe 1850m	f	8° 0,293' S	80° 50,698' E	5210,2	3,8	125,8	9,8	183,6
SO258/2_2-1	16.07.2017 09:57:43	Magnetometer	MAG	information			Beginn Kalibrierungsacht über Backbord	f	8° 1,072' S	80° 50,718' E	5216,1	6,3	130,9	7,1	181,5
SO258/2_2-1	16.07.2017 11:08:21	Magnetometer	MAG	information			Beginn Drehung über Stb	f	8° 1,057' S	80° 51,028' E	5231,5	5,3	136,3	10,1	195,5
SO258/2_2-1	16.07.2017 12:12:07	Magnetometer	MAG	information			Drehung über Stb. und Kalibrierung Magnetometer beendet, Fortsetzen Ma	f	8° 1,221' S	80° 51,018' E	5261	7,5	129,2	9,7	171,5
SO258/2_2-1	17.07.2017 09:05:09	Magnetometer	MAG	alter course			auf rwK: 090°	f	11° 17,221' S	80° 50,802' E	5082,6	6,3	158,9	13,6	133
SO258/2_2-1	17.07.2017 10:22:00	Magnetometer	MAG	alter course			auf rwK: 000°	f	11° 17,334' S	80° 59,481' E	5039,5	5,9	144,9	14,8	93,2
SO258/2_2-1	20.07.2017 19:41:48	Magnetometer	MAG	profile end				f	2° 44,168' N	81° 0,043' E	4398,2	3,1	168,7	6,3	3,9
SO258/2_2-1	20.07.2017 19:42:14	Magnetometer	MAG	hoisting				f	2° 44,188' N	81° 0,050' E	4399,3	2,8	162,4	7,2	22,1
SO258/2_2-1	20.07.2017 20:09:26	Magnetometer	MAG	on deck				f	2° 45,227' N	81° 0,393' E	4396,5	2,2	169,9	8,7	357,9
SO258/2_2-1	20.07.2017 20:10:12	Magnetometer	MAG	station end				f	2° 45,253' N	81° 0,389' E	4396,7	1,5	162,4	7,4	11
SO258/2_3-1	20.07.2017 21:20:37	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 1 stat 301 zu Wasser	f	2° 54,143' N	81° 0,000' E	4381,4	0,1	174,5	2,7	208,7
SO258/2_3-2	20.07.2017 22:42:42	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 2 zu Wasser, stat 302	f	3° 0,323' N	81° 0,002' E	4403,5	0,6	173,1	7,4	346,1
SO258/2_3-3	20.07.2017 22:48:32	Expendable Sound Velocimeter	XSV	station start				f	3° 0,505' N	81° 0,122' E	4370	3,7	194,7	8,6	41
SO258/2_3-3	20.07.2017 22:48:34	Expendable Sound Velocimeter	XSV	in the water				f	3° 0,506' N	81° 0,123' E	4370	3,1	191,4	8,8	45,8
SO258/2_3-3	20.07.2017 23:00:04	Expendable Sound Velocimeter	XSV	station end			Draht getrennt	f	3° 0,977' N	81° 0,528' E	4371,1	3,1	184,5	7,2	27,3
SO258/2_3-4	20.07.2017 23:41:24	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 3 zu Wasser, stat 303	f	3° 6,524' N	81° 0,013' E	4361,6	1,2	189,4	5,4	213,6
SO258/2_3-5	21.07.2017 00:27:33	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 4 zu Wasser, stat 304	f	3° 12,715' N	81° 0,004' E	4350,6	1	203,5	5,3	204,7
SO258/2_3-6	21.07.2017 01:15:27	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 5 zu Wasser, stat 305	f	3° 18,924' N	81° 0,009' E	4337	1,3	207,4	6	212,5
SO258/2_3-7	21.07.2017 02:02:02	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 6 zu Wasser, stat 306	f	3° 25,114' N	81° 0,007' E	4326,5	0,9	214,8	4,7	221,8
SO258/2_3-8	21.07.2017 02:52:20	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 07 z. W.	f	3° 31,311' N	81° 0,010' E	4321,4	0	294,9	8,7	334,3
SO258/2_3-9	21.07.2017 03:45:54	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 08 z. W.	f	3° 37,490' N	81° 0,010' E	4327,8	0,6	300,5	9,1	178,1
SO258/2_3-10	21.07.2017 04:36:08	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 09 z. W.	f	3° 43,688' N	81° 0,007' E	4327,1	0,9	262,7	6,6	341
SO258/2_3-11	21.07.2017 05:21:33	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 10 z. W.	f	3° 49,903' N	81° 0,011' E	4329,8	0,4	237,4	8,9	30,2
SO258/2_3-12	21.07.2017 06:10:37	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 11 z. W.	f	3° 56,087' N	81° 0,008' E	4334,4	1,2	220,7	8,1	251
SO258/2_3-13	21.07.2017 06:31:56	Magnetometer	MAG	information			Beginn Kalibrierungsdrehkreis mit ROT: 30°/min	f	3° 56,265' N	80° 59,645' E	4334,5	7,4	243,1	5,3	302
SO258/2_3-13	21.07.2017 07:00:19	Magnetometer	MAG	information			Ende Kalibrierungsacht mit ROT 30°	f	3° 56,269' N	80° 59,822' E	4332,5	7,4	243,6	5,5	298,1
SO258/2_3-14	21.07.2017 08:03:48	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 12 zu Wasser OBS st314	f	4° 2,276' N	81° 0,034' E	4326,7	0,7	235,6	4	270,8
SO258/2_3-15	21.07.2017 09:11:14	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 13 zu Wasser, OBS st317	f	4° 8,483' N	81° 0,030' E	4325,1	0,5	230,4	4,3	346,7
SO258/2_3-16	21.07.2017 10:24:46	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 14 zu Wasser, OBS st318	f	4° 14,672' N	81° 0,002' E	4320,5	0,7	228,5	5,9	200,2
SO258/2_3-17	21.07.2017 11:16:29	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 15 zu Wasser, OBS st319	f	4° 20,872' N	81° 0,022' E	4315,7	0,4	233,5	6,3	126
SO258/2_3-18	21.07.2017 12:01:35	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 16 zu Wasser, OBS st320	f	4° 27,059' N	81° 0,015' E	4314,9	0,9	257,1	9,4	147,3
SO258/2_3-19	21.07.2017 12:45:59	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 17 zu Wasser, stat. 321	f	4° 33,258' N	81° 0,019' E	4309,2	1,4	247,9	8,8	163,7
SO258/2_3-20	21.07.2017 13:30:22	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 18 zu Wasser, stat. 322	f	4° 39,453' N	81° 0,015' E	4300	1	269,9	8,4	23,9
SO258/2_3-21	21.07.2017 14:11:57	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 19 zu Wasser, stat. 323	f	4° 45,699' N	81° 0,014' E	4302,6	0,4	249,5	10,6	68,1
SO258/2_3-22	21.07.2017 15:00:03	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 20 z. W.	f	4° 51,846' N	81° 0,011' E	4310,6	0,5	268,1	9,9	238,4
SO258/2_3-23	21.07.2017 15:47:48	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 21 z. W.	f	4° 58,067' N	81° 0,009' E	4288,8	0,4	260,7	10,9	315,8
SO258/2_3-24	21.07.2017 16:35:15	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 22 z. W.-	f	5° 4,240' N	81° 0,007' E	4287,6	2,3	252,3	10,2	348,4
SO258/2_3-25	21.07.2017 17:22:15	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 23 z. W.	f	5° 10,430' N	81° 0,010' E	4268,3	1,3	263,7	10,6	167
SO258/2_3-26	21.07.2017 18:14:18	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 24 z. W.	f	5° 16,628' N	81° 0,012' E	4272,2	1,9	253,8	9,4	344,2
SO258/2_3-27	21.07.2017 19:05:45	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 25 zu Wasser, OBS st329	f	5° 22,824' N	81° 0,061' E	3898	0,6	262,7	11,5	17,8
SO258/2_3-28	21.07.2017 20:01:05	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 26 zu Wasser, OBS st330	f	5° 28,968' N	81° 0,020' E	3728,3	0,8	253,1	11,2	227,6
SO258/2_3-29	21.07.2017 21:05:07	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 27 zu Wasser, OBS st331	f	5° 35,192' N	81° 0,069' E	3106,2	1,1	265,1	10,3	104,2
SO258/2_3-30	21.07.2017 21:38:21	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 28 zu Wasser, OBS st332	f	5° 38,552' N	81° 0,013' E	1820,7	1,7	281,3	13,4	176,2
SO258/2_3-31	21.07.2017 22:33:32	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 29 zu Wasser, OBS st333	f	5° 45,784' N	81° 0,009' E	1539,4	1,1	272,7	10,5	27,4
SO258/2_3-32	21.07.2017 23:46:52	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 30 zu Wasser, OBS st334	f	5° 52,714' N	80° 59,983' E	605,6	0,4	278,1	9	346,4
SO258/2_4-1	22.07.2017 02:30:21	Seismic Source	SEISSRC	station start			Beginn Aussetzen Airguns	f	5° 52,179' N	81° 3,272' E	528,4	0,4	288,3	6	155,8
SO258/2_4-1	22.07.2017 02:38:37	Seismic Source	SEISSRC	Airgun in water			STB-Airgun Array z. W.	f	5° 52,162' N	81° 3,066' E	434,1	2	286,8	5,6	267,7

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2 4-1	22.07.2017 02:44:53	Seismic Source	SEISSRC	deployed			STB-Array komplett z. W.	f	5° 52,159' N	81° 2,845' E	522	2,2	295,8	6,3	265,9
SO258/2 4-1	22.07.2017 02:51:32	Seismic Source	SEISSRC	Airgun in water			BB-Airgun Array geht z. W.	f	5° 52,149' N	81° 2,611' E	701,5	2,2	288,4	6,5	266,6
SO258/2 4-1	22.07.2017 02:54:01	Seismic Source	SEISSRC	deployed			BB-Array komplett z. W.	f	5° 52,144' N	81° 2,522' E	691,9	2,1	280,2	6,2	281,4
SO258/2 4-1	22.07.2017 03:11:05	Seismic Source	SEISSRC	information			Beginn aussetzen Magnetometer	f	5° 52,122' N	81° 1,941' E	522,6	2,1	271,5	6,2	247,6
SO258/2 4-1	22.07.2017 03:33:10	Seismic Source	SEISSRC	deployed			Magnetometer z. W., SL: 690 m	f	5° 52,091' N	81° 1,021' E	578,2	2	256,7	6,7	274,4
SO258/2 4-1	22.07.2017 04:02:09	Seismic Source	SEISSRC	alter course		rwK: 180 ° über STB, Kurvenradius: 0,7 sm, FdW: 5,0 kn		f	5° 52,026' N	80° 59,301' E	726	4	275,3	6,5	275,4
SO258/2 4-1	22.07.2017 04:10:16	Seismic Source	SEISSRC	information			Airguns 1. Schuss, "Softstart"	f	5° 52,190' N	80° 58,807' E	438,9	4	264,1	6,5	313,2
SO258/2 4-1	22.07.2017 04:38:02	Seismic Source	SEISSRC	profile start				f	5° 53,112' N	80° 59,946' E	420,7	4,6	275,1	6,4	153,4
SO258/2 4-1	22.07.2017 04:40:27	Seismic Source	SEISSRC	information			MMO shut down	f	5° 52,944' N	80° 59,994' E	488,7	4,5	267,3	6,9	171,9
SO258/2 4-1	22.07.2017 05:15:08	Seismic Source	SEISSRC	information			MMO softstart	f	5° 50,366' N	81° 0,028' E	920,4	4,7	268,8	8,5	177,1
SO258/2 4-1	22.07.2017 05:36:42	Seismic Source	SEISSRC	information			Fortsetzung Profil	f	5° 48,787' N	80° 59,998' E	1168,3	4,2	275,3	10,3	184,1
SO258/2 4-1	23.07.2017 23:50:26	Seismic Source	SEISSRC	profile end			Profilende, Trigger aus	f	2° 25,961' N	81° 0,000' E	4443	5,2	238,8	10,1	172,8
SO258/2 4-1	24.07.2017 00:04:21	Seismic Source	SEISSRC	information			Beginn Einholen Magnetometer	f	2° 25,115' N	80° 59,421' E	4448,1	3,4	221,4	7,1	247,4
SO258/2 4-1	24.07.2017 00:27:55	Seismic Source	SEISSRC	information			Magnetometer an Deck	f	2° 24,561' N	80° 58,214' E	4446,9	3,4	224	7,7	255,7
SO258/2 4-1	24.07.2017 00:39:16	Seismic Source	SEISSRC	information			Beginn hieven Stb.-Cluster	f	2° 24,295' N	80° 57,697' E	4450,3	3,3	232,2	7,1	236,2
SO258/2 4-1	24.07.2017 01:01:35	Seismic Source	SEISSRC	information			Stb.-Array an Deck	f	2° 23,670' N	80° 56,656' E	4452,6	3,2	235,9	6,4	244
SO258/2 4-1	24.07.2017 01:42:34	Seismic Source	SEISSRC	information			Beginn hieven Bb-Cluster	f	2° 22,188' N	80° 55,253' E	4455,3	3,1	247,7	6,3	171,3
SO258/2 4-1	24.07.2017 01:59:05	Seismic Source	SEISSRC	information			Bb-Array an Deck	f	2° 21,385' N	80° 55,264' E	4457,4	2,8	231,2	6,6	184,2
SO258/2 4-1	24.07.2017 01:59:17	Seismic Source	SEISSRC	station end				f	2° 21,375' N	80° 55,264' E	4455,6	3	232,9	6,6	180,9
SO258/2 5-1	24.07.2017 05:00:22	Seismic Ocean Bottom Receiver	SEISOBR	station start				f	2° 51,667' N	81° 0,153' E	4394,3	6	229,9	7,2	10,9
SO258/2 5-1	24.07.2017 05:02:11	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS 01 ausgelöst	f	2° 51,844' N	81° 0,199' E	4394,3	5,7	237,3	7,7	20
SO258/2 5-1	24.07.2017 06:21:23	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 01 aufgetaucht	f	2° 54,551' N	81° 0,586' E	0	0,2	220,6	7	153,6
SO258/2 5-1	24.07.2017 06:55:14	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 01 an Deck	f	2° 54,134' N	80° 59,665' E	4382,3	1	225,6	5,6	310,8
SO258/2 5-2	24.07.2017 07:48:31	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 02 ausgelöst	f	2° 59,898' N	81° 0,842' E	0	7,3	250	7,4	14,9
SO258/2 5-2	24.07.2017 10:12:40	Seismic Ocean Bottom Receiver	SEISOBR	information			Abbruch, OBS #02 nicht aufgetaucht	f	3° 0,785' N	81° 0,756' E	0	0,6	249,1	6,8	339,9
SO258/2 5-2	24.07.2017 14:47:44	Seismic Ocean Bottom Receiver	SEISOBR	information			Transponder z. W.	f	3° 0,329' N	81° 0,009' E	0	1	220,4	7,3	110,1
SO258/2 5-2	24.07.2017 14:52:50	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS 02, Transponder a. D.	f	3° 0,324' N	81° 0,011' E	0	1,6	223,3	7,1	327,9
SO258/2 5-2	24.07.2017 15:44:49	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 02 gesichtet	f	3° 0,621' N	81° 0,073' E	0	0,9	251,3	7,5	133,9
SO258/2 5-2	24.07.2017 16:15:26	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 02 a. D.	f	3° 0,466' N	80° 59,379' E	0	0,2	227,2	7,6	322
SO258/2 5-3	24.07.2017 10:14:11	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 03 ausgelöst	f	3° 0,787' N	81° 0,756' E	0	0,5	245,9	6,6	138,8
SO258/2 5-3	24.07.2017 11:15:56	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	3° 6,714' N	81° 0,522' E	0	1	294,1	7,6	337,1
SO258/2 5-3	24.07.2017 11:25:59	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 6,720' N	81° 0,520' E	0	0,8	280,8	6,9	320,1
SO258/2 5-3	24.07.2017 11:59:30	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	3° 6,721' N	81° 0,521' E	0	0,7	263,2	5,4	5,5
SO258/2 5-3	24.07.2017 12:18:38	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck, verholen auf Aussetzposition	f	3° 6,721' N	81° 0,522' E	0	0,2	232,9	6,9	219,9
SO258/2 5-3	24.07.2017 12:32:58	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser über Aussetzposition	f	3° 6,519' N	81° 0,004' E	0	0,5	217,3	5,4	207,4
SO258/2 5-3	24.07.2017 12:52:36	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck, setzen 0,2nm zurück	f	3° 6,523' N	81° 0,008' E	0	0,7	218,6	7,2	94,6
SO258/2 5-3	24.07.2017 13:02:50	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	3° 6,594' N	81° 0,247' E	0	1,1	233,4	6,4	162,6
SO258/2 5-3	24.07.2017 13:10:13	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 6,592' N	81° 0,248' E	0	1	230,7	7	150,6
SO258/2 5-3	24.07.2017 13:29:29	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 3 aufgetaucht	f	3° 6,636' N	81° 0,386' E	0	0,6	219,5	7,8	154,4
SO258/2 5-3	24.07.2017 13:54:05	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS #03 an Deck	f	3° 6,708' N	80° 59,812' E	0	1,5	223,5	8,4	302,8
SO258/2 5-4	24.07.2017 17:49:21	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS 04 ausgelöst	f	3° 12,718' N	81° 0,004' E	0	0,6	238,4	8,1	175,6
SO258/2 5-4	24.07.2017 17:54:19	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	3° 12,713' N	81° 0,007' E	0	0,1	252,2	7,5	28,3
SO258/2 5-4	24.07.2017 18:46:32	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 04 aufgetaucht	f	3° 12,975' N	81° 0,033' E	0	1,7	251	6,9	350,6
SO258/2 5-4	24.07.2017 19:06:45	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 04 an Deck	f	3° 12,900' N	80° 59,810' E	0	0,9	243,8	9	349,8
SO258/2 5-5	24.07.2017 19:08:06	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 05 ausgelöst (Hydrophone zu Wasser)	f	3° 12,915' N	80° 59,814' E	0	0,8	239,2	8,4	18,9
SO258/2 5-5	24.07.2017 19:12:19	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophone an Deck	f	3° 12,961' N	80° 59,835' E	0	0,7	232,8	8,5	14,1
SO258/2 5-5	24.07.2017 20:27:21	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 05 gesichtet	f	3° 19,173' N	81° 0,081' E	0	0,6	253,8	7,3	160,8
SO258/2 5-5	24.07.2017 20:45:43	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 05 an Deck	f	3° 18,991' N	81° 0,018' E	0	1,8	236,1	10,8	26,6
SO258/2 5-6	24.07.2017 20:48:17	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 06 ausgelöst, (Hydrophon zu Wasser)	f	3° 19,040' N	81° 0,042' E	0	0,9	244,5	9,7	28,3
SO258/2 5-6	24.07.2017 20:54:27	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 19,120' N	81° 0,120' E	0	1,2	246,6	10,7	53,1
SO258/2 5-6	24.07.2017 21:45:40	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 06 gesichtet	f	3° 25,215' N	81° 0,331' E	0	1,7	264,6	8,8	284,2
SO258/2 5-6	24.07.2017 22:05:29	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 06 an Deck	f	3° 25,181' N	80° 59,947' E	0	1,2	246,7	11,1	37,8
SO258/2 5-7	24.07.2017 22:08:54	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 07 ausgelöst??, (Hydrophon zu Wasser)	f	3° 25,232' N	80° 59,984' E	0	1,8	244,5	11,2	56,7

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2_5-7	24.07.2017 22:20:16	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 25,265' N	81° 0,199' E	0	1,2	249,5	9,7	93,6
SO258/2_5-7	24.07.2017 23:04:55	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	3° 31,394' N	81° 0,389' E	0	0,2	261,9	8,4	234,9
SO258/2_5-7	24.07.2017 23:23:21	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 31,397' N	81° 0,389' E	0	0,9	265	9,7	343,1
SO258/2_5-7	25.07.2017 00:02:16	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 7 aufgetaucht	f	3° 31,396' N	81° 0,393' E	0	0,2	277,6	9,6	251,3
SO258/2_5-7	25.07.2017 00:19:51	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 7 an Deck	f	3° 31,378' N	80° 59,926' E	0	0,7	260,4	8	174,1
SO258/2_5-8	25.07.2017 00:22:40	Seismic Ocean Bottom Receiver	SEISOBR	information			Bergung OBS # 08: Hydrophon zu Wasser	f	3° 31,386' N	80° 59,942' E	0	0,4	272,3	9,1	54
SO258/2_5-8	25.07.2017 00:35:34	Seismic Ocean Bottom Receiver	SEISOBR	released			kein Signal von OBS #08 - Hydrophon an Deck	f	3° 31,394' N	80° 59,893' E	0	0,2	273	8,8	7,3
SO258/2_5-8	25.07.2017 01:23:05	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	3° 37,489' N	81° 0,322' E	0	0,4	257,4	8,6	154,1
SO258/2_5-8	25.07.2017 01:27:22	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 37,488' N	81° 0,320' E	0	0,3	266,1	9	206,4
SO258/2_5-8	25.07.2017 01:41:25	Seismic Ocean Bottom Receiver	SEISOBR	information			aufgetaucht	f	3° 37,493' N	81° 0,325' E	0	0,5	259,2	8,4	64,5
SO258/2_5-8	25.07.2017 01:55:07	Seismic Ocean Bottom Receiver	SEISOBR	recovered				f	3° 37,601' N	81° 0,015' E	0	0,1	264	8,6	63
SO258/2_5-9	25.07.2017 01:57:08	Seismic Ocean Bottom Receiver	SEISOBR	information			Recovery OBS # 09, Hydrophon zu Wasser	f	3° 37,604' N	81° 0,023' E	0	0,6	254,2	8,3	200,9
SO258/2_5-9	25.07.2017 02:02:11	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 09 ausgelöst	f	3° 37,623' N	81° 0,040' E	0	0,5	258,6	7,8	5,5
SO258/2_5-9	25.07.2017 02:02:32	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 37,626' N	81° 0,039' E	0	0,2	263,5	7,7	245,7
SO258/2_5-9	25.07.2017 02:53:28	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	3° 43,917' N	81° 0,421' E	0	0,1	265,2	7,5	66,8
SO258/2_5-9	25.07.2017 03:00:55	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	3° 43,917' N	81° 0,416' E	0	0,2	264,5	6,7	164,8
SO258/2_5-9	25.07.2017 03:53:57	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 09 aufgetaucht	f	3° 43,924' N	81° 0,418' E	0	0,5	258,7	9,6	164,4
SO258/2_5-9	25.07.2017 04:15:06	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 09	f	3° 43,826' N	81° 0,157' E	0	0,2	258,4	8,6	283,4
SO258/2_5-10	25.07.2017 04:16:42	Seismic Ocean Bottom Receiver	SEISOBR	released			Hydrophon z. W. / OBS 10 ausgelöst	f	3° 43,828' N	81° 0,157' E	0	1	254,6	8,1	11,9
SO258/2_5-10	25.07.2017 04:30:27	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D., Anfahr OBS 10, rwK: 360°, d: 6 sm	f	3° 44,066' N	81° 0,163' E	0	5,9	260,7	8,7	7,8
SO258/2_5-10	25.07.2017 05:16:08	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 10 aufgetaucht	f	3° 50,096' N	81° 0,442' E	0	1,1	257,7	8,4	171,5
SO258/2_5-10	25.07.2017 05:35:03	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 10 a. D.	f	3° 49,984' N	81° 0,036' E	0	0,9	267,1	8,1	203
SO258/2_5-11	25.07.2017 05:37:13	Seismic Ocean Bottom Receiver	SEISOBR	released			Hydrophon z. W.	f	3° 49,982' N	81° 0,036' E	0	0,6	266,8	8,3	7,3
SO258/2_5-11	25.07.2017 05:43:23	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D., Anfahr OBS 11, rwK: 360°, d: 6 sm	f	3° 49,978' N	81° 0,037' E	0	0,2	275,9	8,7	319,9
SO258/2_5-11	25.07.2017 07:00:58	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 11 gesichtet	f	3° 56,216' N	81° 0,301' E	0	0,7	273,4	8,9	165,3
SO258/2_5-11	25.07.2017 07:15:55	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 11 an Deck	f	3° 56,138' N	81° 0,043' E	0	1,4	259,3	11,7	66
SO258/2_5-12	25.07.2017 07:17:54	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 12 ausgelöst, (Hydrophon zu Wasser)	f	3° 56,152' N	81° 0,085' E	0	1,8	261	9,8	68
SO258/2_5-12	25.07.2017 07:19:29	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 56,160' N	81° 0,122' E	0	1,8	260,2	10,2	99,5
SO258/2_5-12	25.07.2017 08:15:47	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 12 gesichtet	f	4° 2,260' N	81° 0,449' E	0	0,7	276,2	7,8	94,7
SO258/2_5-12	25.07.2017 08:30:40	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 12 an Deck	f	4° 2,411' N	81° 0,260' E	0	1,9	265,1	9,7	72
SO258/2_5-13	25.07.2017 08:46:53	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 13 ausgelöst	f	4° 2,393' N	81° 0,725' E	0	1	264,8	9,8	98,6
SO258/2_5-13	25.07.2017 09:57:05	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 13 gesichtet	f	4° 8,477' N	81° 0,378' E	0	1	269,5	8,5	321
SO258/2_5-13	25.07.2017 10:05:37	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 13 an Deck	f	4° 8,560' N	81° 0,289' E	0	2,4	259	11,3	50,1
SO258/2_5-14	25.07.2017 10:13:24	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 14 ausgelöst	f	4° 8,628' N	81° 0,551' E	0	2,8	256,8	11	75,3
SO258/2_5-14	25.07.2017 11:01:54	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 14 aufgetaucht	f	4° 14,038' N	81° 0,723' E	0	7,3	252,4	12,2	11
SO258/2_5-14	25.07.2017 11:38:57	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 14 an Deck	f	4° 14,873' N	81° 1,026' E	0	1,6	NaN	NaN	62,8
SO258/2_5-15	25.07.2017 11:42:53	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 15 ausgelöst	f	4° 14,948' N	81° 1,061' E	0	1,5	252,8	13	16,9
SO258/2_5-15	25.07.2017 12:38:57	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 15 aufgetaucht	f	4° 20,970' N	81° 1,142' E	0	0,3	255,4	10,9	32,9
SO258/2_5-15	25.07.2017 13:04:46	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 15 an Deck	f	4° 20,958' N	81° 0,685' E	0	2	252,4	14,1	72,2
SO258/2_5-16	25.07.2017 13:07:10	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 16 ausgelöst	f	4° 20,974' N	81° 0,765' E	0	2,1	253,3	12,1	78,8
SO258/2_5-16	25.07.2017 14:25:02	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 16 aufgetaucht	f	4° 27,137' N	81° 1,024' E	0	0,7	261,5	10,6	224,9
SO258/2_5-16	25.07.2017 14:51:29	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OLBS 16 a. D.	f	4° 27,232' N	81° 0,515' E	0	0,2	257,3	11,6	279,7
SO258/2_5-17	25.07.2017 14:55:06	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS 17	f	4° 27,233' N	81° 0,514' E	0	0,1	245,9	12,4	152,3
SO258/2_5-17	25.07.2017 15:49:25	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 17 aufgetaucht	f	4° 32,904' N	81° 1,217' E	0	7	257,6	13,9	12,7
SO258/2_5-17	25.07.2017 16:19:22	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 17 a. D.	f	4° 33,327' N	81° 0,643' E	0	0,3	253,7	11,5	119,6
SO258/2_5-18	25.07.2017 16:22:10	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS 18 ausgelöst	f	4° 33,329' N	81° 0,641' E	0	0,6	252,9	10,5	345,8
SO258/2_5-18	25.07.2017 17:19:45	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 18 aufgetaucht	f	4° 39,010' N	81° 1,288' E	0	7,7	242,9	13	2,4
SO258/2_5-18	25.07.2017 17:42:34	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 18 a. D.	f	4° 39,443' N	81° 0,712' E	0	0,1	243,1	11,6	72,3
SO258/2_5-19	25.07.2017 17:47:16	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS 19	f	4° 39,446' N	81° 0,713' E	0	0,5	243,5	15,1	336,1
SO258/2_5-19	25.07.2017 19:00:45	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 19 gesichtet	f	4° 45,698' N	81° 0,966' E	4379,7	0,3	255,7	10,8	314,7
SO258/2_5-19	25.07.2017 19:20:27	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 19 an Deck	f	4° 45,724' N	81° 0,692' E	0	2,7	253,2	13	65
SO258/2_5-20	25.07.2017 19:21:05	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 20 ausgelöst, (Hydrophon zu Wasser)	f	4° 45,728' N	81° 0,715' E	0	2,8	252,9	13,7	71,2
SO258/2_5-20	25.07.2017 19:25:58	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	4° 45,756' N	81° 0,927' E	0	3,1	251,8	13,2	85,8

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2_5-20	25.07.2017 20:21:24	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 20 gesichtet	f	4° 51,797' N	81° 0,898' E	0	0,3	245,5	12,5	171,7
SO258/2_5-20	25.07.2017 20:40:01	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 20 an Deck	f	4° 51,759' N	81° 0,716' E	0	2,4	251,2	14,7	55,6
SO258/2_5-21	25.07.2017 20:41:07	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 21 ausgelöst, (Hydrophon zu Wasser)	f	4° 51,773' N	81° 0,752' E	0	2,3	256,9	14,3	63,9
SO258/2_5-21	25.07.2017 20:46:11	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	4° 51,819' N	81° 0,974' E	0	2,5	246,3	14	87,4
SO258/2_5-21	25.07.2017 21:43:10	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 21 gesichtet	f	4° 57,762' N	81° 0,926' E	0	0,6	258	12,4	252,9
SO258/2_5-21	25.07.2017 22:04:34	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 21 an Deck	f	4° 58,097' N	81° 0,805' E	0	2,2	267,2	11,9	88,6
SO258/2_5-22	25.07.2017 22:05:46	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 22 ausgelöst, (Hydrophon zu Wasser)	f	4° 58,095' N	81° 0,848' E	0	2,2	271	12,8	88,9
SO258/2_5-22	25.07.2017 22:11:51	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	4° 58,019' N	81° 1,102' E	0	2,1	267,9	14,5	142
SO258/2_5-22	25.07.2017 22:58:21	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	5° 4,198' N	81° 1,068' E	0	0,7	259	10,9	146,7
SO258/2_5-22	25.07.2017 23:03:52	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	5° 4,203' N	81° 1,071' E	0	0,3	256,4	11	333,1
SO258/2_5-22	25.07.2017 23:24:26	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 22 aufgetaucht	f	5° 4,200' N	81° 1,063' E	0	0,5	258,9	10,6	307
SO258/2_5-22	26.07.2017 00:13:19	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS#22 an Deck	f	5° 4,334' N	81° 1,891' E	0	1,8	249,1	12,3	96,6
SO258/2_5-23	26.07.2017 00:16:52	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	5° 4,359' N	81° 2,008' E	0	1,7	248,2	13,6	80,3
SO258/2_5-23	26.07.2017 00:20:18	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 23 ausgelöst	f	5° 4,392' N	81° 2,128' E	0	2,5	243,8	12,6	74,8
SO258/2_5-23	26.07.2017 00:21:18	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	5° 4,402' N	81° 2,168' E	0	1,9	251,4	13,3	81,9
SO258/2_5-23	26.07.2017 01:09:35	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 23 aufgetaucht	f	5° 10,380' N	81° 1,092' E	0	0,8	256,3	10,7	93,6
SO258/2_5-23	26.07.2017 01:48:00	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 23 an Deck	f	5° 10,545' N	81° 1,759' E	0	1,8	259	12,2	75
SO258/2_5-24	26.07.2017 01:49:01	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	5° 10,561' N	81° 1,787' E	0	1,2	256,1	10,4	70,4
SO258/2_5-24	26.07.2017 01:53:24	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 24 ausgelöst	f	5° 10,618' N	81° 1,856' E	0	2,3	256,5	9,8	110,3
SO258/2_5-24	26.07.2017 01:55:02	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	5° 10,630' N	81° 1,940' E	0	4,5	256,3	11	84,8
SO258/2_5-24	26.07.2017 02:47:03	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 24 aufgetaucht	f	5° 16,632' N	81° 1,216' E	0	0,6	274,4	13,1	265,4
SO258/2_5-24	26.07.2017 03:04:52	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 24 a. D.	f	5° 16,770' N	81° 0,947' E	0	0,5	266	12,1	87,6
SO258/2_5-25	26.07.2017 03:07:22	Seismic Ocean Bottom Receiver	SEISOBR	released			Hydrophon z. W., OBS 25	f	5° 16,778' N	81° 0,956' E	0	0,6	256,7	13,5	192,6
SO258/2_5-25	26.07.2017 03:12:35	Seismic Ocean Bottom Receiver	SEISOBR	information				f	5° 16,770' N	81° 0,951' E	4379,7	1	272,4	12,9	192,1
SO258/2_5-25	26.07.2017 04:03:18	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	5° 22,829' N	81° 1,234' E	3962,2	0,5	259,5	11,5	9,9
SO258/2_5-25	26.07.2017 04:09:28	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	5° 22,830' N	81° 1,234' E	3962,2	0,5	260,4	13,8	16,4
SO258/2_5-25	26.07.2017 04:15:58	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 25 aufgetaucht	f	5° 22,830' N	81° 1,237' E	3966,3	0,7	269,9	13,6	105,8
SO258/2_5-25	26.07.2017 04:31:22	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 25 a. D.	f	5° 22,815' N	81° 0,916' E	3958,7	1,4	264,8	12,7	50
SO258/2_5-26	26.07.2017 04:33:53	Seismic Ocean Bottom Receiver	SEISOBR	released			Hysdrophon z. W., OBS 26	f	5° 22,818' N	81° 0,925' E	3958	0,3	269,8	11,2	349,3
SO258/2_5-26	26.07.2017 04:38:02	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	5° 22,814' N	81° 0,925' E	0	0,5	275,1	12,4	41,2
SO258/2_5-26	26.07.2017 05:25:52	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 26 aufgetaucht	f	5° 28,993' N	81° 1,224' E	3721,3	3	269,6	12,4	252,8
SO258/2_5-26	26.07.2017 05:42:00	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 26 a. D.	f	5° 29,067' N	81° 1,041' E	3719,6	0,1	270,1	13,7	205,2
SO258/2_5-27	26.07.2017 06:41:05	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 27 ausgelöst, (Hydrophon zu Wasser)	f	5° 35,121' N	81° 1,158' E	3308,5	1,2	272	15,7	355,7
SO258/2_5-27	26.07.2017 06:48:43	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	5° 35,118' N	81° 1,148' E	0	0,1	271,8	14,3	28,1
SO258/2_5-27	26.07.2017 07:22:51	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 27 gesichtet	f	5° 35,125' N	81° 1,153' E	0	1,1	263,2	15,2	11,9
SO258/2_5-27	26.07.2017 07:39:11	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 27 an Deck	f	5° 35,445' N	81° 1,137' E	0	5,6	259,6	18,6	12,6
SO258/2_5-28	26.07.2017 08:05:45	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 28 ausgelöst, (Hydrophon zu Wasser)	f	5° 38,433' N	81° 1,186' E	1649,5	0,5	257,5	15,6	311,7
SO258/2_5-28	26.07.2017 08:09:03	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	5° 38,438' N	81° 1,183' E	0	0,6	263,5	15,7	247,4
SO258/2_5-28	26.07.2017 08:42:37	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 28 gesichtet	f	5° 38,417' N	81° 1,068' E	0	4	258,1	13,7	263,4
SO258/2_5-28	26.07.2017 08:57:12	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 28 an Deck	f	5° 38,552' N	81° 1,102' E	1630,5	3,5	268,4	17,7	117,7
SO258/2_5-29	26.07.2017 09:56:10	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 29 ausgelöst, (Hydrophon zu Wasser)	f	5° 45,771' N	81° 1,399' E	1386,7	0,3	259,2	16,3	25,2
SO258/2_5-29	26.07.2017 10:01:50	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	5° 45,769' N	81° 1,387' E	0	0,7	262,7	14,4	353,5
SO258/2_5-29	26.07.2017 10:26:08	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	5° 45,764' N	81° 1,289' E	1390,5	0,5	258,4	14	352,1
SO258/2_5-29	26.07.2017 10:30:00	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 29 gesichtet	f	5° 45,765' N	81° 1,289' E	0	0,1	266,1	17,3	60,6
SO258/2_5-29	26.07.2017 10:31:44	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophone an Deck	f	5° 45,764' N	81° 1,290' E	0	0,6	261,5	16,5	172
SO258/2_5-29	26.07.2017 10:44:58	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 29 an Deck	f	5° 45,934' N	81° 1,557' E	1373,5	1,5	270,5	19,4	97
SO258/2_5-30	26.07.2017 11:37:48	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	5° 52,675' N	81° 1,464' E	587,4	0,1	258,2	14,3	67,7
SO258/2_5-30	26.07.2017 11:43:31	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	5° 52,677' N	81° 1,459' E	0	0,2	254,3	14	308,5
SO258/2_5-30	26.07.2017 11:45:07	Seismic Ocean Bottom Receiver	SEISOBR	released			auslösen OBS # 30	f	5° 52,677' N	81° 1,458' E	0	0,5	259,3	14,9	341,4
SO258/2_5-30	26.07.2017 12:41:16	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	5° 52,649' N	80° 59,860' E	0	2	252,2	14,9	49,2
SO258/2_5-30	26.07.2017 12:45:23	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 30 ausgelöst	f	5° 52,677' N	80° 59,985' E	0	2,1	259,1	15,3	107,6
SO258/2_5-30	26.07.2017 12:45:46	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	5° 52,678' N	80° 59,999' E	0	2,6	260,8	13,9	78,3
SO258/2_5-30	26.07.2017 12:52:22	Seismic Ocean Bottom Receiver	SEISOBR	information			aufgetaucht	f	5° 52,684' N	81° 0,069' E	0	0,5	255,5	14	350,7

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2_5-30	26.07.2017 12:58:48	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 30 an Deck	f	5° 52,762' N	81° 0,320' E	408,4	0,6	263,4	12,9	93,4
SO258/2_6-1	26.07.2017 13:26:12	Magnetometer	MAG	station start				f	5° 52,861' N	81° 1,397' E	477,6	0,9	260,2	14,8	231,8
SO258/2_6-1	26.07.2017 13:26:12	Magnetometer	MAG	in the water			Magnetometer zu Wasser	f	5° 52,861' N	81° 1,397' E	477,6	0,9	260,2	14,8	231,8
SO258/2_6-1	26.07.2017 13:54:37	Magnetometer	MAG	information			Magnetometer vollständig ausgesteckt, SL: 700m	f	5° 52,666' N	81° 1,112' E	522,4	1,1	267,9	13,3	259,6
SO258/2_6-1	26.07.2017 15:00:08	Magnetometer	MAG	profile start			rwK: 180°, d: 632 sm, FdWmax: 12,0 kn	f	5° 50,026' N	81° 9,294' E	748,7	8,8	271,4	14,9	176,6
SO258/2_6-1	28.07.2017 23:08:26	Magnetometer	MAG	alter course			Kursänderung rwK: 090°	f	3° 29,884' S	81° 9,761' E	5042,4	6,9	134,9	11,2	114,2
SO258/2_6-1	29.07.2017 00:15:34	Magnetometer	MAG	alter course			Kursänderung rwK: 360°	f	3° 29,317' S	81° 18,622' E	5066,8	11	135,4	11,3	356,7
SO258/2_6-1	29.07.2017 02:32:35	Magnetometer	MAG	information			Unterbrechung Profil, rwK: 115°	f	3° 4,537' S	81° 19,274' E	5077,1	6,7	118,2	10,1	93,7
SO258/2_6-1	29.07.2017 02:40:22	Magnetometer	MAG	information			Start einholen Mag.-Kabel, FdW: 2,5 kn	f	3° 4,685' S	81° 19,792' E	5078,4	2	102,9	12,1	105,7
SO258/2_6-1	29.07.2017 03:00:57	Magnetometer	MAG	on deck			Mag.-Kabel a. D.	f	3° 4,791' S	81° 20,420' E	5077,4	1,9	123,4	11,5	121,5
SO258/2_6-1	29.07.2017 04:14:10	Magnetometer	MAG	information			Start Kalibrierung; 1 x STB, 1 x BB Kreis, ROT: 30°, FdG: 4 - 6 kn	f	3° 5,154' S	81° 23,073' E	5087,8	3,7	101,8	9,4	111,7
SO258/2_6-1	29.07.2017 04:36:29	Magnetometer	MAG	information			Ende STB-Kreis, Beginn BB-Kreis	f	3° 5,289' S	81° 23,302' E	5088,2	4,6	109,1	10,8	128,3
SO258/2_6-1	29.07.2017 04:55:06	Magnetometer	MAG	information			Ende BB-Kreis / Kalibrierung	f	3° 5,350' S	81° 23,349' E	5090,6	1,8	103,6	10	98,8
SO258/2_6-1	29.07.2017 04:59:33	Magnetometer	MAG	information			Magnetometer wird ausgesetzt	f	3° 5,378' S	81° 23,486' E	5092,7	2	118,1	8,6	108,5
SO258/2_6-1	29.07.2017 05:21:26	Magnetometer	MAG	in the water			SL: 690 m	f	3° 5,478' S	81° 24,292' E	5087	2,2	116,1	8,1	89
SO258/2_6-1	29.07.2017 06:10:16	Magnetometer	MAG	profile start			Fortsetzung Magnetikprofil	f	3° 5,010' S	81° 18,641' E	5068,3	11	119,4	8,1	357,7
SO258/2_6-1	31.07.2017 08:04:02	Magnetometer	MAG	alter course			auf rwK: 066°, d: 2,45nm	f	5° 51,698' N	81° 18,629' E	360	10,8	228,9	11,3	15,4
SO258/2_6-1	31.07.2017 08:16:40	Magnetometer	MAG	alter course			auf rwK: 046°, d: 8,60nm	f	5° 52,851' N	81° 20,529' E	374,4	10,8	233,8	11,1	61,8
SO258/2_6-1	31.07.2017 09:04:04	Magnetometer	MAG	alter course			auf rwK: 180°, d: 59,74nm	f	5° 58,891' N	81° 26,776' E	263,5	11,3	229,2	7,6	50,6
SO258/2_6-1	31.07.2017 18:41:00	Magnetometer	MAG	alter course			auf rwK: 090°, d: 18,63nm	f	4° 30,515' N	81° 27,935' E	4273	9,4	257,2	14,3	162,3
SO258/2_6-1	31.07.2017 20:15:00	Magnetometer	MAG	alter course			auf rwK: 144°, d: 87,28nm	f	4° 29,957' N	81° 46,415' E	4244,7	11,4	250,2	12,1	113,6
SO258/2_6-1	01.08.2017 03:22:46	Magnetometer	MAG	profile end			KÄ, rwK: 250°	f	3° 31,027' N	82° 28,974' E	4248,3	9,5	255,2	10,9	143,6
SO258/2_6-1	01.08.2017 03:35:56	Magnetometer	MAG	information			Beginn Einholen Magnetometer, FdW: 2,5 kn	f	3° 29,813' N	82° 28,226' E	4253,1	2,4	232,2	7,7	259,6
SO258/2_6-1	01.08.2017 03:58:18	Magnetometer	MAG	on deck			Magnetometer a. D.	f	3° 29,485' N	82° 27,243' E	4256,5	2,8	225,7	8,4	263,7
SO258/2_6-1	01.08.2017 04:04:13	Magnetometer	MAG	station end				f	3° 29,408' N	82° 26,998' E	4257,4	2,8	231,1	8,9	242,3
SO258/2_7-1	01.08.2017 05:48:02	Seismic Ocean Bottom Receiver	SEISOBR	station start				f	3° 19,242' N	82° 37,598' E	4266,2	4,8	234,8	8,6	259,2
SO258/2_7-1	01.08.2017 05:50:16	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 01 z. W., Anfahr OBS 02, rwK: 143°, d: 7 sm	f	3° 19,212' N	82° 37,502' E	4264,6	1,4	229,7	7,7	206,2
SO258/2_7-2	01.08.2017 06:46:17	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 02 zu Wasser	f	3° 13,489' N	82° 41,838' E	4266,1	0,5	255,6	11,1	280,6
SO258/2_7-3	01.08.2017 07:43:07	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 03 zu Wasser	f	3° 7,715' N	82° 46,210' E	4263,5	1	224,1	10,1	294,5
SO258/2_7-4	01.08.2017 08:42:37	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 04 zu Wasser	f	3° 1,989' N	82° 50,560' E	4274,9	1,3	245,6	6,5	263
SO258/2_7-5	01.08.2017 09:36:04	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 05 zu Wasser	f	2° 56,258' N	82° 54,908' E	4284	1,3	260,1	10	196,2
SO258/2_7-6	01.08.2017 10:30:00	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 06 zu Wasser	f	2° 50,493' N	82° 59,207' E	4293	0,7	240,7	8	231,5
SO258/2_7-7	01.08.2017 11:27:06	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 07 zu Wasser	f	2° 44,744' N	83° 3,539' E	4299,3	1,4	244,1	7,9	241,6
SO258/2_7-8	01.08.2017 12:20:59	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 08 zu Wasser	f	2° 39,017' N	83° 7,890' E	4309,7	0,9	228,6	9,4	253
SO258/2_7-9	01.08.2017 13:14:07	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 09 zu Wasser	f	2° 33,263' N	83° 12,238' E	4313,6	1,3	242,7	8,4	258,9
SO258/2_7-10	01.08.2017 14:07:42	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 10 zu Wasser	f	2° 27,529' N	83° 16,569' E	4320,8	2,3	217,3	9,3	224,8
SO258/2_7-11	01.08.2017 15:02:41	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 11 zu Wasser	f	2° 21,803' N	83° 20,890' E	4328,4	0,2	222,2	6,9	205,3
SO258/2_7-12	01.08.2017 15:14:14	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 12 z. W.	f	2° 21,632' N	83° 21,016' E	4334,5	1,3	236,1	9,2	135,4
SO258/2_7-13	01.08.2017 16:06:19	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 13 z. W.	f	2° 16,032' N	83° 25,247' E	4347,2	1,2	239,6	8	263,9
SO258/2_7-14	01.08.2017 16:58:53	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 14 z. W.	f	2° 10,294' N	83° 29,581' E	4362	1	239	8	171,2
SO258/2_7-15	01.08.2017 17:51:30	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 15 z. W.	f	2° 4,551' N	83° 33,917' E	4371,2	1,3	230,4	8,2	232,4
SO258/2_7-16	01.08.2017 18:42:47	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS 16 zu Wasser	f	1° 58,832' N	83° 38,288' E	4390,4	1,1	234,4	7,7	248,6
SO258/2_7-17	01.08.2017 19:37:33	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 17 zu Wasser	f	1° 53,085' N	83° 42,658' E	4401,8	1,5	235,6	10,3	296,7
SO258/2_7-18	01.08.2017 20:32:09	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 18 zu Wasser	f	1° 47,354' N	83° 47,008' E	4410,2	1,7	255	8,1	221
SO258/2_7-19	01.08.2017 21:24:21	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 19 zu Wasser	f	1° 41,588' N	83° 51,333' E	4415,3	1,3	264	9	246
SO258/2_7-20	01.08.2017 22:16:00	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 20 zu Wasser	f	1° 35,857' N	83° 55,667' E	4427,9	1,6	234,5	9,4	223,9
SO258/2_7-21	01.08.2017 23:08:48	Seismic Ocean Bottom Receiver	SEISOBR	OBS deployed			OBS # 21 zu Wasser	f	1° 30,010' N	84° 0,022' E	4428,2	1,8	221,1	8,5	6,5
SO258/2_7-21	01.08.2017 23:08:48	Seismic Ocean Bottom Receiver	SEISOBR	station end				f	1° 30,010' N	84° 0,022' E	4428,2	1,8	221,1	8,5	6,5
SO258/2_8-1	02.08.2017 02:28:33	Seismic Towed Receiver	SEISTR	station start				f	1° 18,715' N	84° 27,189' E	4448,7	1,3	226	9,8	156
SO258/2_8-1	02.08.2017 02:36:01	Seismic Towed Receiver	SEISTR	information			Beginn Aussetzen Streamer	f	1° 18,636' N	84° 27,097' E	4373,9	1,9	233,3	9,6	216,2
SO258/2_8-1	02.08.2017 02:42:50	Seismic Towed Receiver	SEISTR	information			Bird 01 z. W.	f	1° 18,540' N	84° 26,958' E	4697,7	1,1	216,8	8,4	241,1
SO258/2_8-1	02.08.2017 02:46:28	Seismic Towed Receiver	SEISTR	information			Bird 02 z. W.	f	1° 18,507' N	84° 26,887' E	4697,2	1	217,5	9,5	217,9
SO258/2_8-1	02.08.2017 02:58:22	Seismic Towed Receiver	SEISTR	information			Bird 03 z. W.	f	1° 18,318' N	84° 26,604' E	4449	2,2	239,7	9,1	199,7

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2_8-1	02.08.2017 03:06:27	Seismic Towed Receiver	SEISTR	information			Bird 04 z. W.	f	1° 18,140' N	84° 26,366' E	4454	1,7	220,8	8,1	230
SO258/2_8-1	02.08.2017 03:14:37	Seismic Towed Receiver	SEISTR	information			Bird 05 z. W.	f	1° 17,997' N	84° 26,173' E	4447,6	2,3	227,4	9	216,3
SO258/2_8-1	02.08.2017 03:22:58	Seismic Towed Receiver	SEISTR	information			Bird 06 z. W.	f	1° 17,847' N	84° 25,993' E	4451,9	1,7	225,8	9,1	257,9
SO258/2_8-1	02.08.2017 03:31:44	Seismic Towed Receiver	SEISTR	information			Bird 07 z. W.	f	1° 17,712' N	84° 25,812' E	4451	1,5	237	8,2	254,9
SO258/2_8-1	02.08.2017 03:41:19	Seismic Towed Receiver	SEISTR	information			Bird 08 z. W.	f	1° 17,532' N	84° 25,569' E	4450,7	2,1	226,2	8,8	251,6
SO258/2_8-1	02.08.2017 03:51:00	Seismic Towed Receiver	SEISTR	information			Bird 09 z. W.	f	1° 17,354' N	84° 25,339' E	4450,4	2,5	222,2	7,7	284,1
SO258/2_8-1	02.08.2017 04:00:45	Seismic Towed Receiver	SEISTR	information			Bird 10 z. W.	f	1° 17,168' N	84° 25,069' E	4453,4	1,9	224,5	8,9	243,8
SO258/2_8-1	02.08.2017 04:11:27	Seismic Towed Receiver	SEISTR	information			Bird 11 z. W.	f	1° 16,992' N	84° 24,821' E	4452,8	1,9	226,2	8,5	236,2
SO258/2_8-1	02.08.2017 04:26:06	Seismic Towed Receiver	SEISTR	information			Bird 12 z. W.	f	1° 16,756' N	84° 24,468' E	4453,3	1,4	223,4	9,3	270,5
SO258/2_8-1	02.08.2017 04:45:49	Seismic Towed Receiver	SEISTR	deployed			Streamer z. W. mit 12 Birds, SL : 3200 m	f	1° 16,459' N	84° 24,052' E	4453,6	1,9	223,8	7,4	226,9
SO258/2_8-1	02.08.2017 04:51:18	Seismic Towed Receiver	SEISTR	information			Beginn Aussetzen STB-Airguns	f	1° 16,371' N	84° 23,926' E	4453,6	1,7	228	8,6	210,6
SO258/2_8-1	02.08.2017 04:59:16	Seismic Towed Receiver	SEISTR	deployed			STB-Airgun z. W., SL: ca. 25 m	f	1° 16,215' N	84° 23,750' E	4453,5	1,7	227,9	8,6	218,7
SO258/2_8-1	02.08.2017 05:03:27	Seismic Towed Receiver	SEISTR	information			Beginn Aussetzen BB-Airguns	f	1° 16,142' N	84° 23,658' E	4452,4	2,1	225,9	8,3	222,8
SO258/2_8-1	02.08.2017 05:10:35	Seismic Towed Receiver	SEISTR	deployed			BB-Airguns z. W., SL: ca. 25 m	f	1° 16,021' N	84° 23,511' E	4453	1,4	222,2	7,6	227,3
SO258/2_8-1	02.08.2017 05:12:38	Seismic Towed Receiver	SEISTR	information			Beginn Aussetzen Magnetometer	f	1° 15,984' N	84° 23,474' E	4454	1,6	234,1	9,8	234,3
SO258/2_8-1	02.08.2017 05:39:14	Seismic Towed Receiver	SEISTR	deployed			Magnetometer z. W., SL: 690 m	f	1° 15,527' N	84° 22,913' E	4454	2	237,7	8,4	206,5
SO258/2_8-1	02.08.2017 05:42:15	Seismic Towed Receiver	SEISTR	station end				f	1° 15,471' N	84° 22,852' E	4455,3	1,5	222,9	8,8	215,8
SO258/2_9-1	02.08.2017 05:43:02	Seismic Towed Receiver	SEISTR	station start				f	1° 15,458' N	84° 22,835' E	4727,4	1,5	223	9,1	248,2
SO258/2_9-1	02.08.2017 05:45:14	Seismic Towed Receiver	SEISTR	information			Beginn Softstart	f	1° 15,418' N	84° 22,777' E	4454,9	2,2	224,3	8,6	259,5
SO258/2_9-1	02.08.2017 06:04:33	Seismic Towed Receiver	SEISTR	profile start			Beginn Profil, rwK: 240°, d: sm, FdW: 5,0 kn	f	1° 14,731' N	84° 21,742' E	4703	4,6	237,4	7,9	245
SO258/2_9-1	02.08.2017 07:30:00	Seismic Towed Receiver	SEISTR	profile end				f	1° 11,615' N	84° 16,896' E	4469,7	4,3	233,4	8,3	240,4
SO258/2_10-1	02.08.2017 08:12:00	Seismic Towed Receiver	SEISTR	profile start			rwK: 320°	f	1° 12,749' N	84° 14,473' E	4472,9	4,5	230,1	10,5	325,8
SO258/2_10-1	03.08.2017 23:00:04	Seismic Towed Receiver	SEISTR	profile end				f	3° 38,291' N	82° 22,513' E	4251,4	5,6	257	16,5	320,7
SO258/2_10-1	03.08.2017 23:00:35	Seismic Towed Receiver	SEISTR	station end				f	3° 38,327' N	82° 22,485' E	4249,3	5,6	257,4	15,9	322,4
SO258/2_11-1	03.08.2017 23:24:53	Seismic Towed Receiver	SEISTR	station start			Beginn hieven Magnetometer	f	3° 38,665' N	82° 20,772' E	4258,5	3	272,7	12,8	263,1
SO258/2_11-1	03.08.2017 23:46:02	Seismic Towed Receiver	SEISTR	on deck			Magnetometer an Deck	f	3° 38,773' N	82° 19,552' E	4250,6	3,8	274,6	10,9	271,4
SO258/2_11-1	03.08.2017 23:52:57	Seismic Towed Receiver	SEISTR	information			Beginn hieven BB-Airguns	f	3° 38,827' N	82° 19,153' E	4237,9	4,1	266,4	12,9	296,6
SO258/2_11-1	04.08.2017 00:08:42	Seismic Towed Receiver	SEISTR	information			Bb-Auftriebskörper an Deck	f	3° 38,880' N	82° 18,299' E	4234,1	3,2	271,2	12,9	252,4
SO258/2_11-1	04.08.2017 00:10:09	Seismic Towed Receiver	SEISTR	information			Bb-Array an Deck	f	3° 38,876' N	82° 18,226' E	4236,6	3,2	270,5	11,6	264,7
SO258/2_11-1	04.08.2017 00:19:24	Seismic Towed Receiver	SEISTR	information			Beginn hieven Stb.-Airguns	f	3° 38,805' N	82° 17,743' E	4233,9	2,9	281,3	12,4	276,3
SO258/2_11-1	04.08.2017 00:31:01	Seismic Towed Receiver	SEISTR	on deck			Stb.-Array + Stb.-Auftriebskörper an Deck	f	3° 38,739' N	82° 17,036' E	4272,7	3,5	277	10,3	258,9
SO258/2_11-1	04.08.2017 00:35:14	Seismic Towed Receiver	SEISTR	information			Beginn hieven Streamer	f	3° 38,685' N	82° 16,816' E	4314,5	3,3	276,1	12	273,9
SO258/2_11-1	04.08.2017 00:49:11	Seismic Towed Receiver	SEISTR	information			Bird 01 an Deck	f	3° 38,626' N	82° 16,050' E	4239,4	4,7	272,4	11,1	266,6
SO258/2_11-1	04.08.2017 01:07:18	Seismic Towed Receiver	SEISTR	information			Bird 02 an Deck	f	3° 38,626' N	82° 14,960' E	4239,2	2,9	272,3	10,5	280
SO258/2_11-1	04.08.2017 01:31:07	Seismic Towed Receiver	SEISTR	information			Bird 03 an Deck	f	3° 38,722' N	82° 13,413' E	4241,1	3,7	264,8	10,6	286,5
SO258/2_11-1	04.08.2017 01:55:56	Seismic Towed Receiver	SEISTR	information			Bird 04 an Deck	f	3° 38,770' N	82° 11,871' E	4242,2	4,5	278,2	12	272,7
SO258/2_11-1	04.08.2017 02:13:00	Seismic Towed Receiver	SEISTR	information			Bird 05 an Deck	f	3° 38,807' N	82° 10,867' E	4248,6	3,5	268	11,4	254,7
SO258/2_11-1	04.08.2017 02:26:29	Seismic Towed Receiver	SEISTR	information			Bird 06 an Deck	f	3° 38,805' N	82° 10,084' E	4248,4	3,2	277,1	14,3	267,7
SO258/2_11-1	04.08.2017 02:42:03	Seismic Towed Receiver	SEISTR	information			Bird 07 an Deck	f	3° 38,905' N	82° 9,185' E	4248	3,2	273,3	11,3	276,1
SO258/2_11-1	04.08.2017 02:55:06	Seismic Towed Receiver	SEISTR	information			Bird 08 an Deck	f	3° 38,952' N	82° 8,507' E	4249,6	3,5	283,1	9	266,5
SO258/2_11-1	04.08.2017 03:03:42	Seismic Towed Receiver	SEISTR	information			Bird 09 an Deck	f	3° 38,940' N	82° 8,027' E	4249,2	3,8	280,9	10	260,8
SO258/2_11-1	04.08.2017 03:13:53	Seismic Towed Receiver	SEISTR	information			Bird 10 an Deck	f	3° 39,003' N	82° 7,492' E	4253,1	3,9	256,1	9,7	284,7
SO258/2_11-1	04.08.2017 03:21:38	Seismic Towed Receiver	SEISTR	information			Bird 11 an Deck	f	3° 39,022' N	82° 7,006' E	4254	3,6	292,1	17,7	246,5
SO258/2_11-1	04.08.2017 03:26:00	Seismic Towed Receiver	SEISTR	information			Bird 12 an Deck	f	3° 38,927' N	82° 6,801' E	4254,3	3,5	277,4	9,1	287,5
SO258/2_11-1	04.08.2017 03:29:21	Seismic Towed Receiver	SEISTR	on deck			Streamer an Deck	f	3° 38,946' N	82° 6,604' E	4255,2	3	272,7	9,8	258,4
SO258/2_11-1	04.08.2017 03:33:16	Seismic Towed Receiver	SEISTR	station end			Anfahrt OBS 01, rwK: 122°, d: 37 sm	f	3° 38,935' N	82° 6,387' E	4257,2	4	275,8	10,3	264,6
SO258/2_12-1	04.08.2017 07:21:19	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 01 ausgelöst, Hydrophon zu Wasser	f	3° 19,267' N	82° 38,163' E	4262,8	1,1	256,4	11,8	2,4
SO258/2_12-1	04.08.2017 07:26:43	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 19,265' N	82° 38,161' E	4280,5	0,6	260,4	12,1	248
SO258/2_12-1	04.08.2017 08:40:22	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 01 aufgetaucht	f	3° 19,264' N	82° 38,163' E	0	0,6	261,3	11,1	246,2
SO258/2_12-1	04.08.2017 09:03:41	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 01 an Deck	f	3° 19,280' N	82° 37,461' E	0	1,9	289,7	15,8	124
SO258/2_12-2	04.08.2017 09:18:23	CTD	CTD	station start				f	3° 19,118' N	82° 37,765' E	0	0,1	318,3	10,9	207
SO258/2_12-2	04.08.2017 09:20:47	CTD	CTD	in the water			EL 2	f	3° 19,114' N	82° 37,762' E	0	0,2	304,9	8,1	61,4
SO258/2_12-2	04.08.2017 10:28:00	CTD	CTD	max depth/on ground			SLmax: 2500m	f	3° 19,122' N	82° 37,767' E	4264,3	0,7	280,2	13,7	323,2

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2 12-2	04.08.2017 10:29:03	CTD	CTD	hoisting				f	3° 19,117' N	82° 37,770' E	4263,3	0,2	279,1	12	104,3
SO258/2 12-2	04.08.2017 11:20:41	CTD	CTD	on deck				f	3° 19,118' N	82° 37,764' E	4263,6	0,4	262,3	9,3	230
SO258/2 12-3	04.08.2017 11:24:33	Expendable Sound Velocimeter	XSV	station start				f	3° 19,114' N	82° 37,680' E	4266,5	4	269,4	9,2	264,7
SO258/2 12-3	04.08.2017 11:25:14	Expendable Sound Velocimeter	XSV	in the water				f	3° 19,110' N	82° 37,640' E	4263,6	4,3	272,4	9,6	259,8
SO258/2 12-3	04.08.2017 11:34:55	Expendable Sound Velocimeter	XSV	information			Kabel gerissen	f	3° 19,046' N	82° 37,248' E	4264,8	2,7	268,1	8,5	261,7
SO258/2 12-3	04.08.2017 11:38:48	Expendable Sound Velocimeter	XSV	in the water			2.Probe zu Wasser	f	3° 19,014' N	82° 37,092' E	4265,2	2,9	278,5	12,5	233,3
SO258/2 12-3	04.08.2017 11:48:37	Expendable Sound Velocimeter	XSV	station end			Kabel gerissen	f	3° 18,976' N	82° 36,725' E	4208,5	2,8	263,8	13,2	302,8
SO258/2 12-4	04.08.2017 11:52:37	Seismic Ocean Bottom Receiver	SEISOBR	station start			Bergung OBS # 02, Hydrophon zu Wasser	f	3° 18,973' N	82° 36,711' E	0	0,3	267,6	12,9	353,3
SO258/2 12-4	04.08.2017 12:00:08	Seismic Ocean Bottom Receiver	SEISOBR	released			ausgelöst, keine Antwort	f	3° 18,976' N	82° 36,679' E	0	1,4	255,9	12,1	268,6
SO258/2 12-4	04.08.2017 12:00:51	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 18,977' N	82° 36,668' E	0	1	250	11,2	263,4
SO258/2 12-4	04.08.2017 13:07:26	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	3° 13,515' N	82° 42,251' E	0	0,3	253,4	12,3	49,7
SO258/2 12-4	04.08.2017 13:10:41	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 02 ausgelöst	f	3° 13,514' N	82° 42,251' E	0	0,7	261,3	11,1	300,7
SO258/2 12-4	04.08.2017 13:12:22	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 13,509' N	82° 42,254' E	0	0,4	255,8	12,1	320,2
SO258/2 12-4	04.08.2017 14:00:27	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 02 aufgetaucht	f	3° 13,508' N	82° 42,250' E	0	0,7	246,2	9,7	330,8
SO258/2 12-4	04.08.2017 14:17:17	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 02 an Deck	f	3° 13,624' N	82° 41,824' E	0	0,9	240,5	9,4	305,6
SO258/2 12-5	04.08.2017 14:22:54	Seismic Ocean Bottom Receiver	SEISOBR	information			Bergung OBS # 03, Hydrophon zu Wasser	f	3° 13,641' N	82° 41,776' E	0	0,5	239,5	8,8	20,8
SO258/2 12-5	04.08.2017 14:30:58	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	3° 13,646' N	82° 41,779' E	0	0,4	242,3	10,3	344,5
SO258/2 12-5	04.08.2017 15:20:50	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z.W.	f	3° 10,296' N	82° 44,899' E	0	0,6	242,1	10,4	298,2
SO258/2 12-5	04.08.2017 15:26:01	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	3° 10,298' N	82° 44,896' E	0	0,7	242,1	10,6	181,5
SO258/2 12-5	04.08.2017 15:50:00	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS gesichtet	f	3° 8,771' N	82° 46,367' E	0	2,8	286	20	179,2
SO258/2 12-5	04.08.2017 16:22:21	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 03 a. D.	f	3° 7,841' N	82° 46,063' E	0	0,4	271,3	9,4	277,3
SO258/2 12-6	04.08.2017 17:12:01	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	3° 4,710' N	82° 49,102' E	0	0,7	247	12,4	29,7
SO258/2 12-6	04.08.2017 17:20:11	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	3° 4,730' N	82° 49,110' E	0	0,9	258,1	10,1	185,6
SO258/2 12-6	04.08.2017 18:02:45	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	3° 2,115' N	82° 50,897' E	0	1	268,5	10,5	220
SO258/2 12-6	04.08.2017 18:07:50	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 04 aufgetaucht	f	3° 2,116' N	82° 50,893' E	0	0,2	260	10,6	141,9
SO258/2 12-6	04.08.2017 18:08:41	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	3° 2,117' N	82° 50,890' E	0	0,3	251,7	12	114,1
SO258/2 12-6	04.08.2017 18:24:12	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 04 a. D.	f	3° 2,100' N	82° 50,547' E	0	0,8	248,2	10,8	242,5
SO258/2 12-7	04.08.2017 19:13:51	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 58,747' N	82° 53,675' E	0	0,4	257,8	12,5	353
SO258/2 12-7	04.08.2017 19:18:58	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 05 ausgelöst? Hydrophon an Deck	f	2° 58,749' N	82° 53,673' E	0	0,2	250,3	13	96,8
SO258/2 12-7	04.08.2017 20:00:25	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 56,368' N	82° 55,408' E	0	0,5	244,4	10,3	11,8
SO258/2 12-7	04.08.2017 20:05:23	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 56,361' N	82° 55,405' E	0	1,9	250	10,5	169,8
SO258/2 12-7	04.08.2017 20:19:43	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 56,361' N	82° 55,409' E	0	0,6	245,5	11,8	313,1
SO258/2 12-7	04.08.2017 20:28:13	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 05 aufgetaucht	f	2° 56,357' N	82° 55,405' E	0	1	258,4	9,9	293,1
SO258/2 12-7	04.08.2017 20:29:47	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 56,356' N	82° 55,408' E	0	1	253,2	11,7	326,8
SO258/2 12-7	04.08.2017 20:52:23	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 05 an Deck	f	2° 56,340' N	82° 54,885' E	0	1,7	235,8	14,9	37,4
SO258/2 12-8	04.08.2017 21:57:00	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 50,608' N	82° 59,761' E	0	0,5	246,9	12,4	270,2
SO258/2 12-8	04.08.2017 22:02:22	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 06 ausgelöst, Hydrophon an Deck	f	2° 50,603' N	82° 59,762' E	0	0,9	243,6	15,2	186
SO258/2 12-8	04.08.2017 22:19:31	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 50,606' N	82° 59,761' E	0	0,6	247,2	12,9	328,1
SO258/2 12-8	04.08.2017 22:23:52	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 50,611' N	82° 59,760' E	0	0,3	255,3	13,4	324,4
SO258/2 12-8	04.08.2017 22:51:45	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 50,611' N	82° 59,760' E	0	0,8	244,6	12,5	249,7
SO258/2 12-8	04.08.2017 22:57:37	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 06 aufgetaucht, Hydrophon an Deck	f	2° 50,612' N	82° 59,759' E	0	0,4	244	12,1	101
SO258/2 12-8	04.08.2017 23:23:58	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 06 an Deck	f	2° 50,474' N	82° 59,503' E	0	0,7	240,7	14,1	38,1
SO258/2 12-9	05.08.2017 00:07:27	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 47,171' N	83° 1,754' E	0	0,8	235,2	13	256,6
SO258/2 12-9	05.08.2017 00:11:50	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 07 ausgelöst	f	2° 47,170' N	83° 1,750' E	0	1,5	241,5	13,7	168,1
SO258/2 12-9	05.08.2017 00:12:34	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 47,168' N	83° 1,752' E	0	0,5	241,2	13,3	186,1
SO258/2 12-9	05.08.2017 00:49:11	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 44,793' N	83° 4,062' E	0	0,2	249,3	14,2	58
SO258/2 12-9	05.08.2017 00:54:23	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 44,794' N	83° 4,058' E	0	0,5	249,4	15	257
SO258/2 12-9	05.08.2017 01:27:47	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 44,796' N	83° 4,063' E	0	0,8	249,2	11,2	358,1
SO258/2 12-9	05.08.2017 01:39:53	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 44,795' N	83° 4,068' E	0	0,4	250,1	14,9	208,9
SO258/2 12-9	05.08.2017 01:48:31	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 44,753' N	83° 3,835' E	0	0,8	249,7	13,4	309,2
SO258/2 12-9	05.08.2017 01:54:47	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 44,742' N	83° 3,770' E	0	1,6	253,5	13,7	215,9
SO258/2 12-9	05.08.2017 01:56:14	Seismic Ocean Bottom Receiver	SEISOBR	information			Auslöseversuch mit Ausfahreinheit	f	2° 44,742' N	83° 3,760' E	0	0,3	241,5	14,9	244,5
SO258/2 12-9	05.08.2017 02:03:24	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 44,746' N	83° 3,845' E	0	0,9	245,7	15	17,7

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2_12-9	05.08.2017 02:09:53	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 44,806' N	83° 3,815' E	0	0,8	235,9	14	280,7
SO258/2_12-9	05.08.2017 03:08:14	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	2° 44,814' N	83° 4,067' E	0	0,7	244,7	13,3	165
SO258/2_12-9	05.08.2017 03:12:00	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	2° 44,814' N	83° 4,064' E	0	0,9	251,7	11,3	178,4
SO258/2_12-9	05.08.2017 03:51:21	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	2° 44,809' N	83° 4,065' E	4267,1	0,9	249,8	13,3	180,9
SO258/2_12-9	05.08.2017 03:56:31	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D. (OBS 07 nicht aufgetaucht)	f	2° 44,799' N	83° 4,078' E	0	0,5	249,4	11,7	167,6
SO258/2_12-10	05.08.2017 03:56:30	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W., auslösen OBS 08	f	2° 44,799' N	83° 4,078' E	4267,1	0,4	249,8	11,8	198,1
SO258/2_12-10	05.08.2017 04:11:42	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D., Anfahr OBS 08, rwK: 143°, d: 7 sm	f	2° 43,534' N	83° 4,534' E	0	9,6	255,2	14,1	136,3
SO258/2_12-10	05.08.2017 04:58:48	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 08 aufgetaucht	f	2° 39,000' N	83° 8,300' E	0	3	243,1	12,7	274,4
SO258/2_12-10	05.08.2017 05:11:05	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 08 a. D.	f	2° 38,906' N	83° 7,935' E	0	0,7	241,7	10,8	9,6
SO258/2_12-11	05.08.2017 05:12:20	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	2° 38,907' N	83° 7,930' E	0	0,6	237,3	14,2	333,8
SO258/2_12-11	05.08.2017 05:20:01	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	2° 38,904' N	83° 7,931' E	0	0,4	242,7	14	223,1
SO258/2_12-11	05.08.2017 06:23:38	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	2° 33,241' N	83° 12,678' E	0	1,4	236,9	12,3	336,6
SO258/2_12-11	05.08.2017 06:28:08	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	2° 33,258' N	83° 12,654' E	0	0,4	233,4	11,1	317,7
SO258/2_12-11	05.08.2017 06:33:34	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 09 aufgetaucht	f	2° 33,261' N	83° 12,650' E	0	0,6	237,7	8,6	356,9
SO258/2_12-11	05.08.2017 06:50:55	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 09 an Deck	f	2° 33,183' N	83° 12,238' E	0	0,3	237,3	12,4	149,4
SO258/2_12-12	05.08.2017 06:53:01	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 33,185' N	83° 12,243' E	0	0,1	237,4	13,8	341,2
SO258/2_12-12	05.08.2017 06:59:08	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 10 ausgelöst? Hydrophon an Deck	f	2° 33,182' N	83° 12,242' E	0	0,5	236,7	10,9	194,1
SO258/2_12-12	05.08.2017 07:59:18	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 27,548' N	83° 17,012' E	0	1,2	239,3	11,6	247,6
SO258/2_12-12	05.08.2017 08:11:20	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 27,545' N	83° 16,995' E	0	1,4	255,8	12,8	271,6
SO258/2_12-12	05.08.2017 08:51:54	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 10 aufgetaucht	f	2° 27,533' N	83° 16,950' E	0	0,4	255,1	11	110,8
SO258/2_12-12	05.08.2017 09:07:19	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 10 an Deck	f	2° 27,530' N	83° 16,697' E	0	2	243,4	15	28,1
SO258/2_12-13	05.08.2017 09:09:06	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 27,544' N	83° 16,716' E	0	0,3	253	12,8	354,6
SO258/2_12-13	05.08.2017 09:15:32	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 12 ausgelöst? Hydrophon an Deck	f	2° 27,517' N	83° 16,696' E	0	0,7	250,8	10,6	119,3
SO258/2_12-13	05.08.2017 10:13:44	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 21,678' N	83° 21,437' E	0	0,8	246	12	349,8
SO258/2_12-13	05.08.2017 10:19:55	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 21,677' N	83° 21,435' E	0	0,9	244,5	11,2	187,2
SO258/2_12-13	05.08.2017 10:37:18	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 12 aufgetaucht	f	2° 21,684' N	83° 21,435' E	0	0,4	236,7	13,7	201,1
SO258/2_12-13	05.08.2017 10:50:03	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 12 an Deck	f	2° 21,698' N	83° 21,305' E	0	0,6	245,5	10,4	60,4
SO258/2_12-14	05.08.2017 10:52:12	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 21,710' N	83° 21,341' E	0	0,8	237,5	10,7	85,1
SO258/2_12-14	05.08.2017 10:56:12	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 11 ausgelöst	f	2° 21,697' N	83° 21,342' E	0	0,7	243,6	11,7	147,1
SO258/2_12-14	05.08.2017 10:57:18	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 21,694' N	83° 21,340' E	0	0,5	239,2	13,6	206,2
SO258/2_12-14	05.08.2017 12:10:36	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 11 aufgetaucht	f	2° 21,936' N	83° 21,474' E	0	1,1	236,6	10,9	122,8
SO258/2_12-14	05.08.2017 12:34:07	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS# 11 an Deck	f	2° 21,838' N	83° 20,936' E	0	2	236	11,5	70,9
SO258/2_12-15	05.08.2017 13:35:25	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 16,219' N	83° 25,888' E	0	1,3	223	10,1	131,7
SO258/2_12-15	05.08.2017 13:40:55	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 13 ausgelöst	f	2° 16,212' N	83° 25,887' E	0	0,5	231,7	10,5	137,7
SO258/2_12-15	05.08.2017 13:41:45	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 16,211' N	83° 25,888' E	0	0,3	241,8	9,9	74,8
SO258/2_12-15	05.08.2017 14:32:46	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 13 aufgetaucht	f	2° 16,217' N	83° 25,822' E	0	0,6	227,7	10,8	63,4
SO258/2_12-15	05.08.2017 14:49:31	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 13 a. D.	f	2° 16,143' N	83° 25,229' E	0	0,2	225,5	10,8	288,6
SO258/2_12-16	05.08.2017 14:50:17	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	2° 16,145' N	83° 25,229' E	0	0,6	227,3	12,3	6,3
SO258/2_12-16	05.08.2017 14:57:47	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D. (OBS 14 ausgelöst)	f	2° 16,142' N	83° 25,228' E	0	0,8	226,1	10,4	358
SO258/2_12-16	05.08.2017 16:05:12	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	2° 10,391' N	83° 30,088' E	0	0,4	232,3	12	230,2
SO258/2_12-16	05.08.2017 16:09:17	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 14 aufgetaucht	f	2° 10,386' N	83° 30,086' E	0	0,3	241,8	9,5	17,2
SO258/2_12-16	05.08.2017 16:10:06	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	2° 10,387' N	83° 30,089' E	0	0,8	235,6	11,1	41,5
SO258/2_12-16	05.08.2017 16:25:19	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 14 a. D.	f	2° 10,388' N	83° 29,574' E	0	1,1	225	11,3	280,4
SO258/2_12-17	05.08.2017 16:26:56	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	2° 10,394' N	83° 29,581' E	0	0,2	215,2	13,4	181,7
SO258/2_12-17	05.08.2017 16:31:18	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D., Anfahr OBS 15, rwK: 143°, d: 7 sm	f	2° 10,395' N	83° 29,579' E	0	1,3	232,3	10,2	179,1
SO258/2_12-17	05.08.2017 17:25:53	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 15 aufgetaucht	f	2° 5,240' N	83° 34,367' E	0	10,3	235,7	14,3	150,8
SO258/2_12-17	05.08.2017 17:44:32	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 15 a. D.	f	2° 4,688' N	83° 34,005' E	0	0,9	227,3	12,3	146,5
SO258/2_12-18	05.08.2017 17:45:56	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	2° 4,689' N	83° 34,006' E	0	1	224,5	10,8	316,9
SO258/2_12-18	05.08.2017 17:52:32	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D., Anfahr OBS 16, rwK: 143°, d: 7 sm	f	2° 4,685' N	83° 34,006' E	0	1,1	217,6	12	163,5
SO258/2_12-18	05.08.2017 18:59:54	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	1° 59,100' N	83° 38,652' E	0	0,9	231,5	12	179,8
SO258/2_12-18	05.08.2017 19:04:18	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS #16 ausgelöst, Hydrophon an Deck	f	1° 59,101' N	83° 38,653' E	0	0,7	218	12,1	7
SO258/2_12-18	05.08.2017 20:17:06	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 16 aufgetaucht	f	1° 59,109' N	83° 38,649' E	0	0,7	230,8	10,8	305,4
SO258/2_12-18	05.08.2017 20:33:59	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 16 an Deck	f	1° 58,954' N	83° 38,417' E	0	0	214,8	12,9	24,6

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2 12-19	05.08.2017 20:34:41	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	1° 58,955' N	83° 38,415' E	0	1	221,1	14	3,1
SO258/2 12-19	05.08.2017 20:39:57	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 17 ausgelöst? Hydrophon an Deck	f	1° 58,944' N	83° 38,414' E	0	0,2	218,9	11,7	251,6
SO258/2 12-19	05.08.2017 21:32:57	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 17 aufgetaucht	f	1° 53,459' N	83° 43,143' E	0	3,3	224,5	12,7	229,7
SO258/2 12-19	05.08.2017 21:51:36	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 17 an Deck	f	1° 53,326' N	83° 42,877' E	0	0,8	224,3	16,2	42,8
SO258/2 12-20	05.08.2017 21:58:07	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	1° 53,338' N	83° 42,877' E	0	1,3	245,9	11,6	172,3
SO258/2 12-20	05.08.2017 22:03:11	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS #18 ausgelöst? Hydrophon an Deck	f	1° 53,337' N	83° 42,878' E	0	0,5	233	12,1	0,2
SO258/2 12-20	05.08.2017 22:58:09	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	1° 47,666' N	83° 47,606' E	0	0,4	232,1	13,5	122
SO258/2 12-20	05.08.2017 23:02:01	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	1° 47,666' N	83° 47,606' E	0	0,8	228,3	11,5	334,9
SO258/2 12-20	05.08.2017 23:16:02	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS# 18 aufgetaucht	f	1° 47,658' N	83° 47,602' E	0	0,8	215,9	10	178,3
SO258/2 12-20	05.08.2017 23:39:01	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 18 an Deck	f	1° 47,464' N	83° 47,298' E	0	1,1	229,2	12	77,7
SO258/2 12-21	05.08.2017 23:40:33	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	1° 47,454' N	83° 47,291' E	0	0,6	234	12	214,1
SO258/2 12-21	05.08.2017 23:44:47	Seismic Ocean Bottom Receiver	SEISOBR	released			OBS # 19 ausgelöst	f	1° 47,445' N	83° 47,298' E	0	0,7	232	11	14,2
SO258/2 12-21	05.08.2017 23:45:29	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	1° 47,447' N	83° 47,307' E	0	1,3	230,6	11,6	88,1
SO258/2 12-21	06.08.2017 00:40:31	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 19 aufgetaucht	f	1° 41,788' N	83° 51,767' E	0	1,2	235,5	9,8	269,6
SO258/2 12-21	06.08.2017 01:01:58	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS # 19 an Deck	f	1° 41,610' N	83° 51,528' E	0	0,5	227,4	11,3	142,8
SO258/2 12-22	06.08.2017 01:03:40	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	1° 41,604' N	83° 51,546' E	0	0,5	240	10,2	138,4
SO258/2 12-22	06.08.2017 01:06:56	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS # 20 ausgelöst	f	1° 41,585' N	83° 51,566' E	0	1,2	233,7	9	225,2
SO258/2 12-22	06.08.2017 01:07:45	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	1° 41,569' N	83° 51,554' E	0	2,3	226,1	10,6	237,1
SO258/2 12-22	06.08.2017 01:59:54	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	1° 35,897' N	83° 56,000' E	0	0,2	251,5	9,8	94
SO258/2 12-22	06.08.2017 02:05:56	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	1° 35,896' N	83° 55,994' E	0	0,8	254	10,8	74,7
SO258/2 12-22	06.08.2017 02:20:46	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS# 20 aufgetaucht	f	1° 35,905' N	83° 55,993' E	0	0,9	243,9	9,3	55,4
SO258/2 12-22	06.08.2017 02:33:38	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 20 a. D.	f	1° 35,878' N	83° 55,722' E	0	0,5	236,7	10	312,4
SO258/2 12-23	06.08.2017 02:35:23	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon z. W.	f	1° 35,882' N	83° 55,721' E	0	0,2	243,7	9,8	168,5
SO258/2 12-23	06.08.2017 02:42:11	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	1° 35,878' N	83° 55,724' E	0	0,3	236,7	12	60,1
SO258/2 12-23	06.08.2017 04:15:50	Seismic Ocean Bottom Receiver	SEISOBR	information			OBS 20 gesichtet	f	1° 30,181' N	84° 0,557' E	0	2,4	230,7	10,3	243,4
SO258/2 12-23	06.08.2017 04:46:00	Seismic Ocean Bottom Receiver	SEISOBR	recovered			OBS 21 a. D.	f	1° 29,518' N	84° 0,974' E	4429,6	0,6	241,3	10,7	220,1
SO258/2 12-23	06.08.2017 04:47:25	Seismic Ocean Bottom Receiver	SEISOBR	station end				f	1° 29,517' N	84° 0,972' E	4430	0,7	236,6	10,8	154,4
SO258/2 13-1	06.08.2017 04:48:41	Magnetometer	MAG	station start			rwK: °, FdW: 2,5 kn	f	1° 29,514' N	84° 0,973' E	4431,5	0,9	242,3	10,3	1,4
SO258/2 13-1	06.08.2017 04:58:02	Magnetometer	MAG	information			Beginn Aussetzen Magnetometer, BB über Kran 4	f	1° 29,444' N	84° 0,887' E	4430,5	3,4	243,2	9,3	215,1
SO258/2 13-1	06.08.2017 05:23:45	Magnetometer	MAG	in the water			Magnetometer z. W., SLmax: 690 m	f	1° 28,426' N	83° 59,956' E	4432,2	4,3	239,2	11,4	211,8
SO258/2 13-1	06.08.2017 06:23:32	Magnetometer	MAG	alter course			rwK: 323°	f	1° 23,712' N	83° 54,093' E	4455,1	10,5	237,4	9,9	240,6
SO258/2 13-1	06.08.2017 06:38:06	Magnetometer	MAG	profile start			rwK: 323°, d: 137nm	f	1° 24,779' N	83° 52,125' E	4447,7	10,5	240,6	15,4	321,7
SO258/2 13-1	06.08.2017 14:45:52	Magnetometer	MAG	alter course			rwK: 030°, (Verfolgung Signal auf Frequenz OBS 07)	f	2° 36,300' N	82° 58,347' E	4315	11,5	219,4	12,2	347,2
SO258/2 13-1	06.08.2017 15:45:57	Magnetometer	MAG	alter course			rwK:: 090°, (passieren Ausset-WP OBS 07)	f	2° 44,290' N	83° 2,559' E	4299,9	6,1	199,1	8	32,3
SO258/2 13-1	06.08.2017 16:02:09	Magnetometer	MAG	alter course			rwK: 270°	f	2° 44,689' N	83° 3,979' E	4299,9	7,6	223,7	12,9	87,4
SO258/2 13-1	06.08.2017 20:32:26	Magnetometer	MAG	alter course			rwK: 325°	f	3° 14,666' N	82° 29,482' E	4274,4	11,6	214,3	12,5	323,2
SO258/2 13-1	07.08.2017 05:06:54	Magnetometer	MAG	alter course			rwK: 180°, d: 488 sm	f	4° 36,902' N	81° 31,550' E	4263,7	11,2	246,2	15,2	325,3
SO258/2 13-1	08.08.2017 23:30:20	Magnetometer	MAG	alter course			rwK: 283°, d: 25nm	f	3° 29,766' S	81° 27,484' E	5069,4	12	193,5	5,2	248,3
SO258/2 13-1	09.08.2017 01:30:46	Magnetometer	MAG	alter course			rwK: 278°, d: 15nm	f	3° 24,655' S	81° 4,224' E	5043,1	12	237,4	1,8	282,7
SO258/2 13-1	09.08.2017 02:49:20	Magnetometer	MAG	alter course			rwK: 360°, d: 1 sm	f	3° 22,494' S	80° 48,691' E	5145,4	12,5	228	9,7	275,6
SO258/2 13-1	09.08.2017 02:55:19	Magnetometer	MAG	alter course			rwK: 090°, d: 72 sm	f	3° 21,683' S	80° 48,013' E	4997,1	12,1	228,1	7,9	1,5
SO258/2 13-1	09.08.2017 08:57:17	Magnetometer	MAG	alter course			rwK: 180°, d: 1nm	f	3° 21,002' S	81° 59,285' E	5109,4	12	217	7,4	89,2
SO258/2 13-1	09.08.2017 09:03:00	Magnetometer	MAG	alter course			rwK: 252°, d: 23nm	f	3° 21,756' S	81° 59,981' E	5111,5	11,9	222,1	5,9	178,1
SO258/2 13-1	09.08.2017 11:05:18	Magnetometer	MAG	alter course			rwK: 360°, d: 268nm	f	3° 29,304' S	81° 37,278' E	5081	12	239,5	5,3	341,4
SO258/2 13-1	10.08.2017 09:30:58	Magnetometer	MAG	alter course			rwK: 090°, d: 9nm	f	1° 0,663' N	81° 37,217' E	4511,9	11,2	298,5	15,1	1,9
SO258/2 13-1	10.08.2017 10:16:04	Magnetometer	MAG	alter course			rwK: 180°, d: 268nm	f	1° 1,504' N	81° 45,778' E	4754,4	11,9	281,8	9,7	86,3
SO258/2 13-1	11.08.2017 08:47:03	Magnetometer	MAG	alter course			rwK: 090°, d: 9nm	f	3° 29,218' S	81° 46,523' E	5097,6	12,1	283,2	8,7	181,2
SO258/2 13-1	11.08.2017 09:32:02	Magnetometer	MAG	alter course			rwK: 360°, d: 268nm	f	3° 29,999' S	81° 55,069' E	5105,7	11,6	294,1	7,8	84,9
SO258/2 13-1	12.08.2017 11:30:50	Magnetometer	MAG	alter course			rwK: 065°d: 111nm	f	1° 29,475' N	81° 55,843' E	4454,6	12,4	281,3	5,2	6,1
SO258/2 13-1	12.08.2017 20:48:06	Magnetometer	MAG	alter course			rwK: 323°, d: 32nm	f	2° 16,999' N	83° 36,349' E	4358,9	12,3	228,1	8,3	66,1
SO258/2 13-1	12.08.2017 23:30:46	Magnetometer	MAG	alter course			rwK: 276°, d: 14nm	f	2° 43,070' N	83° 17,710' E	4290,2	12,2	241,4	8,2	321,5
SO258/2 13-1	13.08.2017 00:23:39	Magnetometer	MAG	information			Beginn hieven Magnetometer	f	2° 44,109' N	83° 8,022' E	4301,1	3,8	231,1	5,5	227,2
SO258/2 13-1	13.08.2017 00:50:16	Magnetometer	MAG	on deck			Magnetometer an Deck	f	2° 43,205' N	83° 6,674' E	4301,4	3,2	239	4,6	229,1

Station	Date / Time UTC	Device	Device Abbreviation	Action	Comment (Station)	Comment (Device Op)	Comment (Action)	Expedition Fixed	Latitude	Longitude	Depth (m)	Speed (kn)	Wind Dir	Wind speed (m/s)	Course
SO258/2 13-1	13.08.2017 04:36:33	Magnetometer	MAG	information			Fortsetzung Profil, rwK: 247°, d: 73 sm	f	2° 44,719' N	83° 3,555' E	4302,7	0,5	202,8	6,3	63,8
SO258/2 13-1	13.08.2017 11:00:56	Magnetometer	MAG	alter course			rwK: 360°, d: 239nm	f	2° 17,208' N	81° 55,841' E	4365,3	11,6	252,2	6,5	357,1
SO258/2 13-1	14.08.2017 07:13:08	Magnetometer	MAG	alter course			rwK: 237°, d: 11nm	f	6° 16,672' N	81° 55,833' E	2311	11,6	234,4	10,5	360
SO258/2 13-1	14.08.2017 08:07:10	Magnetometer	MAG	alter course			rwK: 180°, d: 310nm	f	6° 12,250' N	81° 46,911' E	1078,4	12	230,8	9,3	237,8
SO258/2 13-1	15.08.2017 10:27:45	Magnetometer	MAG	alter course			rwK: 270°, d: 9nm	f	1° 0,811' N	81° 46,519' E	4498,6	11,6	235,5	7,6	179,6
SO258/2 13-1	15.08.2017 11:14:04	Magnetometer	MAG	alter course			rwK: 360°, d: 299nm	f	1° 0,023' N	81° 37,744' E	4507,6	12,1	230,2	6,6	287,1
SO258/2 13-1	16.08.2017 09:12:00	Magnetometer	MAG	alter course			rwK: 270°, d: 95nm	f	5° 36,167' N	81° 37,212' E	4192,6	13,9	253,9	14,5	359,7
SO258/2 13-1	16.08.2017 17:36:21	Magnetometer	MAG	station end			(+ Ende wiss. Datenaufzeichnung SO 258-2)	f	5° 37,711' N	80° 2,845' E	3512,4	12,4	258,3	8,5	277,8
SO258/2 13-2	06.08.2017 05:27:36	Expendable Sound Velocimeter	XSV	lowering			Beginn Aussetzen XCTD / zu Wasser	f	1° 28,281' N	83° 59,842' E	4432,4	2,3	253,1	10,7	204,2
SO258/2 13-2	06.08.2017 05:30:28	Expendable Sound Velocimeter	XSV	information			XCTD auf 500 m	f	1° 28,183' N	83° 59,786' E	4680,1	2,2	247,1	10,8	221,3
SO258/2 13-2	06.08.2017 05:33:42	Expendable Sound Velocimeter	XSV	information			XCTD auf 1000 m	f	1° 28,084' N	83° 59,705' E	4431,6	2,7	245	11,2	240,8
SO258/2 13-2	06.08.2017 05:36:02	Expendable Sound Velocimeter	XSV	information			XCTD auf 1500 m	f	1° 28,007' N	83° 59,639' E	4435,7	2,2	245,7	9,3	212,8
SO258/2 13-2	06.08.2017 05:38:10	Expendable Sound Velocimeter	XSV	information			XCTD auf Endtiefe 1850 m	f	1° 27,944' N	83° 59,592' E	4429,6	2,3	245,5	10,5	217,4
SO258/2 13-2	06.08.2017 05:39:02	Expendable Sound Velocimeter	XSV	information			Ende # 13-2 XCTD	f	1° 27,923' N	83° 59,573' E	4431,1	1,6	247,3	9,9	251,9
SO258/2 13-3	08.08.2017 20:48:51	CTD	CTD	in the water			XCTD zu Wasser	f	3° 0,019' S	81° 27,909' E	5057,5	5,2	207,3	4,2	181,1
SO258/2 13-3	08.08.2017 20:50:28	CTD	CTD	information			SL: 500m	f	3° 0,156' S	81° 27,907' E	5057,6	5,4	210,2	4	188,8
SO258/2 13-3	08.08.2017 20:52:03	CTD	CTD	information			SL: 1000m	f	3° 0,289' S	81° 27,906' E	5060,1	4,6	204,1	5	174,2
SO258/2 13-3	08.08.2017 20:53:47	CTD	CTD	information			SL: 1500m	f	3° 0,428' S	81° 27,911' E	5056,8	4,7	197,3	4,9	173,4
SO258/2 13-3	08.08.2017 20:55:43	CTD	CTD	information			XCTD auf 1600m Datenabbruch	f	3° 0,577' S	81° 27,911' E	5059,7	4,5	215,6	4,1	183
SO258/2 13-4	08.08.2017 20:59:13	CTD	CTD	in the water			XCTD zu Wasser	f	3° 0,841' S	81° 27,906' E	5057,4	4,9	209,8	4,4	184,8
SO258/2 13-4	08.08.2017 21:01:12	CTD	CTD	information			SL: 500m	f	3° 0,995' S	81° 27,910' E	5051,7	4,8	201,5	5,3	186,7
SO258/2 13-4	08.08.2017 21:02:32	CTD	CTD	information			SL: 1000m	f	3° 1,103' S	81° 27,910' E	5078,9	5,5	211	4,8	179,9
SO258/2 13-4	08.08.2017 21:04:16	CTD	CTD	information			SL: 1500m	f	3° 1,242' S	81° 27,908' E	5068,3	4,2	183,3	4,3	182,3
SO258/2 13-4	08.08.2017 21:04:55	CTD	CTD	information			XCTD überträgt schlechte Daten, wird bis 2000m weiter gefiert	f	3° 1,293' S	81° 27,908' E	5072,3	4,4	184,1	3,1	169,8
SO258/2 13-4	08.08.2017 21:06:25	CTD	CTD	information			XCTD auf Endtiefe SL: 2000m Ende Station	f	3° 1,411' S	81° 27,907' E	5072,5	4	207,2	4,4	174,7
SO258/2 14-1	13.08.2017 01:18:17	Seismic Ocean Bottom Receiver	SEISOBR	information			Bergung OBS # 07 - Hydrophon zu Wasser	f	2° 44,949' N	83° 4,129' E	4304,2	1	233,2	5,5	326,4
SO258/2 14-1	13.08.2017 01:58:04	Seismic Ocean Bottom Receiver	SEISOBR	released			Auslöseversuch	f	2° 44,949' N	83° 4,130' E	0	0,4	236,7	4,7	289,4
SO258/2 14-1	13.08.2017 02:12:23	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon an Deck	f	2° 44,952' N	83° 4,129' E	0	0,3	226,7	4,2	199,2
SO258/2 14-1	13.08.2017 02:23:33	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon zu Wasser	f	2° 44,721' N	83° 3,553' E	0	0,3	234	5,1	276,4
SO258/2 14-1	13.08.2017 04:04:23	Seismic Ocean Bottom Receiver	SEISOBR	information			Hydrophon a. D.	f	2° 44,722' N	83° 3,556' E	0	1,3	215,4	6,5	320,1
SO258/2 14-1	13.08.2017 04:30:05	Seismic Ocean Bottom Receiver	SEISOBR	station end				f	2° 44,724' N	83° 3,558' E	0	0,5	219,1	6	165