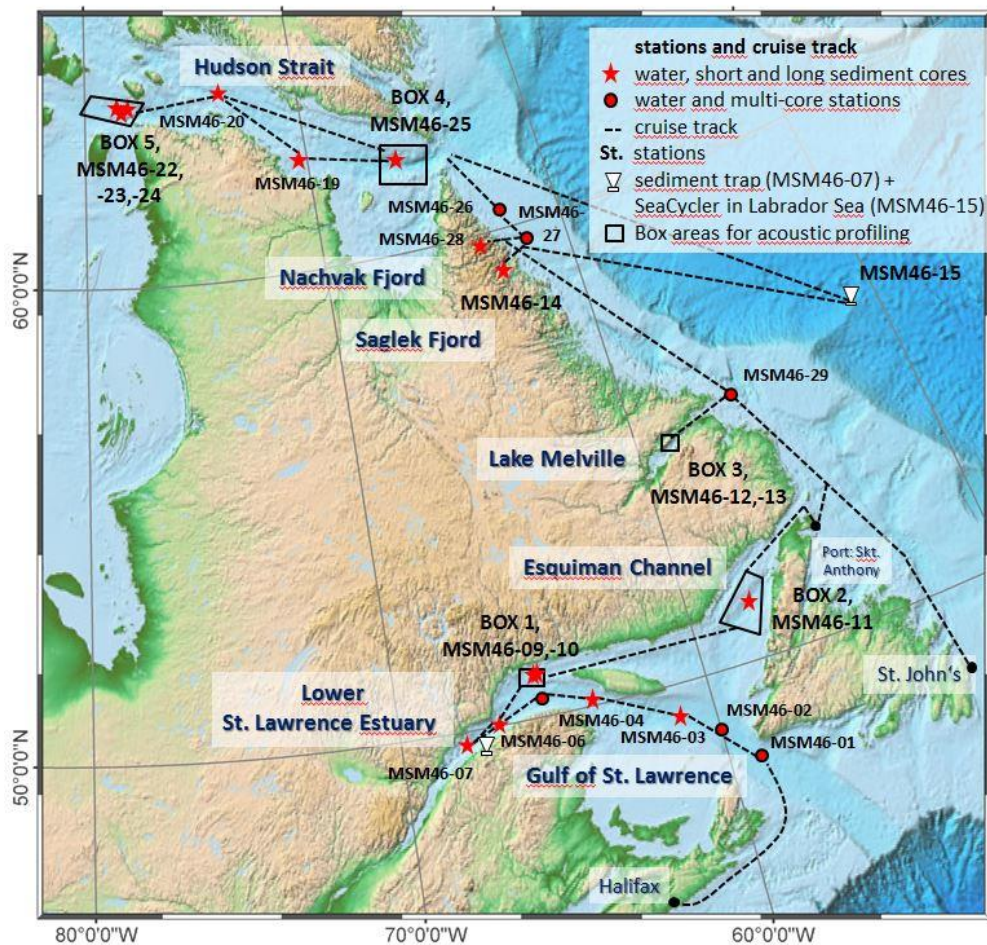


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Short Cruise Report
MARIA S. MERIAN MSM 46
Halifax - 25.08.2015
St. John's – 26.09.2015

Chief Scientist: Falk Pollehne

Captain: Ralf Schmidt



Objectives

The expedition MSM046 CECAS (*Response of (C)oastal (E)cosystems to biogeochemical and hydrographic changes in eastern (CA)nadian (S)eas during Holocene and Anthropocene*) was planned to increase the understanding of both coastal ecosystem functioning and the external forcing, that lead to long term changes within these systems. Studies on recent processes covered biogeochemical and microbiological processes and an assessment of zoobenthos in the St. Lawrence estuary, seasonal changes in vertical particle flux at the center of the oxygen minimum in the same area, bio-optical measurements along the Eastern Canadian coast and the assessment of organic anthropogenic pollutants. The historical development of ecosystem changes over the holocene will be assessed from cores that were obtained at several sites along the Canadian east coast between Nova Scotia and the Hudson Bay, particularly in marginal basins and large fjord systems. The collected material allows the reconstruction of ecosystem fluctuations over the mid to late holocene climatic evolution driven by ocean circulation changes in the eastern Canadian coastal waters. Monitoring historic changes in hydrographic and biogeochemical properties and comparing those with recent measurements in major surface water masses in the open Labrador Sea (MSM45/46) as well as with other climate data, will help to explain mechanisms causing holocene climate fluctuations in the North Atlantic region. With investigations of recent processes, the observation of historic developments and the attempt to establish links between the processes and the sedimentary signals by models, the research agenda of our cruise covered broad temporal scales. On the process level recent microbiological and biogeochemical processes in hypoxic areas and coastal ecosystems with pelagic salinity and oxygen gradients were investigated. Biological studies included microbial adaptation (biodiversity and activity of size-fractionated microbial communities) along the horizontal salinity gradient from the Gulf of St. Lawrence (GSL) to the Lower St. Lawrence estuary (LSLE) and the long term adaptation of benthic macrofauna to oxygen minimum conditions along dissolved oxygen gradients from GSL to LSLE. Biogeochemical measurements in the water column (dissolved oxygen, alkalinity, nutrients) could identify the contribution of different water masses to the low oxygen bottom waters of the LSLE, whereas studies on annual suspended matter fluxes using sediment traps will quantify the organic input into the oxygen-minimum-zone. For the pollution status and history the full range of organic POPs (PCBs, DDTs, PAH, HCB, chlorinated pesticides) and inorganic (Hg) was sampled in the water column and the sediments. Bio-optical measurements were performed both to improve the accuracy of remote sensing derived data and to feed into a three-dimensional ecosystem model for the Gulf of St. Lawrence region. The combined approach of proxy studies and numerical simulations will allow to extrapolate the regional proxy investigations to the whole LSLE/GSL area. Modell experiments will support field experiments and data for hypothesis testing and quantifying the impact of forcing parameters. It is hypothesized that physical processes are responsible for changes in coastal conditions that appear to be driven by ocean circulation and climate changes in the North Atlantic during the Holocene. These changes are recorded in the sedimentary archives and can be reconstructed at multidecadal to centennial time resolution. Suitable sites are found in the NE

Canadian Fjord systems and the GSL. Key-locations had been identified based on previous works by our Canadian partners. The Hudson Strait and Fjord sites capture changes in the Labrador Current (LC), an important component of the surface circulation in the northwest North Atlantic which also influences subsurface conditions in the GSL and LSLE. The LC draws water from the Arctic via the Baffin Current and water from the West Greenland Current.

The subsequent work on the material from the successfully collected cores from all of these sites will permit to address these critical issues about the West-East North Atlantic ocean circulation and climate.

Narrative

The cruise started in Halifax with an intense study of the St-Lawrence system. Seven stations on a gradient in surface salinity and midwater oxygen concentrations were serviced with measurements in water column and sediment, until in the inner estuary off Rimouski a sediment trap mooring was deployed in the center of the oxygen-minimum-zone. Measurements and sampling on these stations included spectral light profile measurements down to 60 m, CTD-profiles from sea surface to bottom with an attached profiler for spectral attenuation and absorption measurements, 13 bottle sampling for particle absorption, Chlorophyll a, basic chemical variables, dissolved gases and isotopes therein, microbiological and molecular biological variables (cytometric samples and DNA-extraction)and organic pollutants from selected depths. From Multicorer cores samples were taken for geochemical, mineralogical and pollutants analyses and at each station three boxcores were sieved for the assessment of benthic macrofauna and diversity changes in the oxygen minimum zone. On the inner- and outermost stations about 100 l of water were collected from surface and intermediate depths and incubated for a time series experiment on microbial adaptation patterns in the salinity gradient. After completion of the gradient-relevant measurements, we steamed to the Corossol-Impact-Crater, where a detailed profiling-program with Multibeam and Parasound was performed, that led to the identification of suitable coring sites, where several gravity cores of up to 14 m length were retrieved, besides short Multicorer- and boxcorer-samples for the study of the sediment surface. After transit to the next research area in the Esquiman Channel between Labrador and Newfoundland a similar program of echosounder- mapping, and surface sampling led to the acquisition of gravity cores (~11m), which cover the whole acoustic homogeneous area in the sediment-echosoundings and provide an ideal substrate for the assessment of changes in the middle and late holocene. After a port call in St. Anthony ,the exchange of part of the scientific crew (3 persons) and a short stormy period on transit, Lake Melville and Saglek Fjord were mapped by means of different echo-sounding devices and cores were taken at the appropriate sites. Then the weather conditions allowed to steam to a position in the central Labrador Sea and deploy the mooring of the Canadian Dalhousie group (Seacycler) at 3500 m depth.

Unfortunately a cable of the surface undulating sensor device broke, both sensor float and communication device separated from the winch upon descent and therefore the mooring had to be retrieved on the following day, which was accomplished by the ship's crew in an efficient and professional manner, so that all components were hauled on board without loss. We then steamed up north into the Hudson Strait and further into the Hudson Bay and again performed the routine of echo-mapping large areas with consecutive coring at those positions, which were selected from the sounder-profiles. This way several cores were retrieved which covered the whole chronology of the holocene and will allow the respective Canadian and German groups to assess the climate driven fluctuations on a high resolution core matrix. The last station with the full geological program was in the Nachvak-Fjord, where several gravity cores were obtained. In all of these areas and on several stations on our way back along the Labrador coast water column measurements of basic biogeochemical variables, pollutants and optical active compounds in the dissolved and particulate fractions (as described above) were performed as well as sampling of surface sediment for geochemical and mineralogical analysis.

After five weeks the cruise ended in St.John's, New Foundland. The research cruise MSM 046 went completely according to plans. Except for the Seacycler-System we had no technical problems and we retrieved a wealth of data and material which will surely provide the base of many excellent Canadian-German projects over the next years. Besides the well-meaning and rather untypical calm weather, a basic prerequisite for this successful operation was the professional performance of ship and crew.

Acknowledgements

We would like to thank Captain Ralf Schmidt, officers and crew of the "Maria S.Merian" for the efficient and success-oriented operation of the ship to our highest benefit. We enjoyed the friendly and pleasant atmosphere on board and can highly recommend this vessel as a premium base for ocean research. Excellent technical capabilities of the ship and professional teamwork of the crew provided the base for the successful completion of our expedition. We thank our Canadian colleagues for excellent groundwork and coring site preselection and we are very much obliged to the Senate Commission of the German Science Foundation for the provision of ship time on the "Maria S.Merian" .

LIST OF SCIENTISTS, MSM 046

No.	NAME	Discipline	Institution
1	Dr. Pollehne, Falk	ch-scientist, biol.oceanogr.	IOW
2	Dr. Leipe, Axel Thomas	mar. geol.	IOW
3	Dr. Neumann, Thomas	phys. oceanogr.	IOW
4	Dr. Moros, Matthias	mar. geol.	IOW
5	Dr. Perner, Kerstin	mar. geol.	IOW
6	Dr. Kienast, Stephanie	mar. geol.	Dal
7	Dr. Siegel, Herbert	phys. oceanogr.	IOW
8	Hand, Ines	mar. chem.	IOW
9	Gerth, Monika	phys. oceanogr.	IOW
10	Plewe, Sascha	mar. geol.	IOW
11	Hehl, Uwe	biol.oceanogr.	IOW
12	Nickel, Gerald Rüdiger	mar. geol.	IOW
13	Trottier, Annie-Pier	mar. geol.	Laval
14	Shen, Dandan	biol.oceanogr.	IOW
15	Velle, Julie Heggdal	mar. geol.	UQAR
16	Barber, Andrew	mar. chem.	Concordia
17	Marshall, Nicole	mar. geol.	McGill
18	Nowakowski, Ryszard Lubomir	mar. geol.	USZ
19	Wlost, Klaus-Peter Wilfried	instrumentation	IOW
20	Allan, Estelle	mar. geol.	UQAM
21	Dr. Atamanchuk, Dariia	mar. chem.	Dal
22	Siddall, Greg	instrumentation	Dal.
23	Chua, Paul	instrumentation	Scr
24	Lai, Jeremy Ming Jun	instrumentation	Dal
25	Beisiegel, Kolja	biol.oceanogr.	IOW
26	Brice, Camille	mar. geol.	UQAM

USZ - University of Szczecin

DAL - Dalhousie University, Halifax

Laval - Université Laval, Montreal

UQAR - Université du Québec à Rimouski

Scr - Scripps Oceanographic Institution, La Jolla

Concordia- Concordia University, Montreal

IOW- Institut für Ostseeforschung, Warnemünde

McGill - McGill University , Montreal

UQAM - Université du Québec à Montréal

List of stations/operations

Station	Date	Time	Position	Position	Depth	Gear
No.		[UTC]	Lat	Lon	[m]	
MSM46/443-1	26.08.2015	16:34	47° 11,18' N	59° 32,30' W	486	Satlantic Lichtsonde
MSM46/443-1	26.08.2015	16:47	47° 11,17' N	59° 32,18' W	485	Satlantic Lichtsonde
MSM46/443-2	26.08.2015	16:58	47° 11,17' N	59° 32,27' W	484	CTD/rosette water sampler
MSM46/443-3	26.08.2015	16:59	47° 11,17' N	59° 32,27' W	484	Secchi disc
MSM46/443-3	26.08.2015	17:02	47° 11,17' N	59° 32,27' W	484	Secchi disc
MSM46/443-2	26.08.2015	17:32	47° 11,16' N	59° 32,30' W	480	CTD/rosette water sampler
MSM46/443-2	26.08.2015	17:50	47° 11,15' N	59° 32,30' W	480	CTD/rosette water sampler
MSM46/443-2	26.08.2015	18:13	47° 11,15' N	59° 32,30' W	477	CTD/rosette water sampler
MSM46/443-2	26.08.2015	18:38	47° 11,15' N	59° 32,29' W	475	CTD/rosette water sampler
MSM46/443-4	26.08.2015	19:14	47° 11,16' N	59° 32,29' W	475	CTD/rosette water sampler
MSM46/443-4	26.08.2015	19:29	47° 11,15' N	59° 32,29' W	476	CTD/rosette water sampler
MSM46/443-4	26.08.2015	19:43	47° 11,16' N	59° 32,29' W	477	CTD/rosette water sampler
MSM46/443-5	26.08.2015	20:09	47° 11,15' N	59° 32,29' W	477	CTD/rosette water sampler
MSM46/443-5	26.08.2015	20:17	47° 11,15' N	59° 32,30' W	475	CTD/rosette water sampler
MSM46/443-5	26.08.2015	20:19	47° 11,16' N	59° 32,29' W	476	CTD/rosette water sampler
MSM46/443-6	26.08.2015	20:24	47° 11,16' N	59° 32,29' W	473	Multi corer
MSM46/443-6	26.08.2015	20:39	47° 11,16' N	59° 32,29' W	477	Multi corer
MSM46/443-6	26.08.2015	20:52	47° 11,16' N	59° 32,29' W	473	Multi corer
MSM46/443-7	26.08.2015	21:14	47° 11,15' N	59° 32,29' W	476	Multi corer
MSM46/443-7	26.08.2015	21:28	47° 11,15' N	59° 32,29' W	477	Multi corer
MSM46/443-7	26.08.2015	21:40	47° 11,15' N	59° 32,28' W	476	Multi corer
MSM46/443-8	26.08.2015	22:00	47° 11,15' N	59° 32,28' W	477	Box corer
MSM46/443-8	26.08.2015	22:12	47° 11,15' N	59° 32,28' W	476	Box corer
MSM46/443-8	26.08.2015	22:26	47° 11,15' N	59° 32,28' W	476	Box corer
MSM46/443-9	26.08.2015	22:39	47° 11,15' N	59° 32,27' W	475	Box corer
MSM46/443-9	26.08.2015	22:53	47° 11,15' N	59° 32,27' W	476	Box corer
MSM46/443-9	26.08.2015	23:05	47° 11,15' N	59° 32,27' W	472	Box corer
MSM46/443-10	26.08.2015	23:18	47° 11,14' N	59° 32,27' W	476	Box corer
MSM46/443-10	26.08.2015	23:32	47° 11,14' N	59° 32,27' W	476	Box corer
MSM46/443-10	26.08.2015	23:44	47° 11,14' N	59° 32,27' W	472	Box corer

MSM46/444-1	27.08.2015	4:45	47° 50,01' N	60° 4,99' W	500	CTD/rosette water sampler
MSM46/444-1	27.08.2015	5:03	47° 50,00' N	60° 5,00' W	500	CTD/rosette water sampler
MSM46/444-1	27.08.2015	5:13	47° 50,00' N	60° 4,99' W	500	CTD/rosette water sampler
MSM46/444-1	27.08.2015	5:30	47° 50,00' N	60° 5,00' W	500	CTD/rosette water sampler
MSM46/444-1	27.08.2015	5:43	47° 50,00' N	60° 5,00' W	501	CTD/rosette water sampler
MSM46/444-2	27.08.2015	6:21	47° 50,00' N	60° 5,00' W	500	CTD/rosette water sampler
MSM46/444-2	27.08.2015	6:36	47° 50,00' N	60° 5,00' W	505	CTD/rosette water sampler
MSM46/444-2	27.08.2015	6:44	47° 50,00' N	60° 5,00' W	500	CTD/rosette water sampler
MSM46/444-3	27.08.2015	6:59	47° 50,00' N	60° 5,00' W	505	CTD/rosette water sampler
MSM46/444-3	27.08.2015	7:15	47° 49,99' N	60° 5,01' W	509	CTD/rosette water sampler
MSM46/444-3	27.08.2015	7:26	47° 50,00' N	60° 5,00' W	500	CTD/rosette water sampler
MSM46/444-4	27.08.2015	7:30	47° 50,00' N	60° 5,00' W	500	Box corer
MSM46/444-4	27.08.2015	7:42	47° 50,00' N	60° 5,00' W	500	Box corer
MSM46/444-4	27.08.2015	7:55	47° 50,00' N	60° 5,00' W	500	Box corer
MSM46/444-5	27.08.2015	8:09	47° 49,99' N	60° 5,00' W	501	Box corer
MSM46/444-5	27.08.2015	8:22	47° 50,00' N	60° 5,00' W	501	Box corer
MSM46/444-5	27.08.2015	8:34	47° 50,00' N	60° 4,99' W	500	Box corer
MSM46/444-6	27.08.2015	8:43	47° 49,99' N	60° 4,99' W	500	Box corer
MSM46/444-6	27.08.2015	8:54	47° 49,99' N	60° 4,98' W	500	Box corer
MSM46/444-6	27.08.2015	9:07	47° 49,99' N	60° 4,99' W	500	Box corer
MSM46/444-7	27.08.2015	9:21	47° 49,99' N	60° 4,98' W	500	Multi corer
MSM46/444-7	27.08.2015	9:33	47° 49,99' N	60° 4,98' W	500	Multi corer
MSM46/444-7	27.08.2015	9:47	47° 49,99' N	60° 4,98' W	500	Multi corer
MSM46/444-8	27.08.2015	10:02	47° 49,98' N	60° 4,97' W	500	Multi corer
MSM46/444-8	27.08.2015	10:17	47° 49,98' N	60° 4,97' W	504	Multi corer
MSM46/444-8	27.08.2015	10:29	47° 49,98' N	60° 4,97' W	504	Multi corer
MSM46/445-1	27.08.2015	19:00	48° 32,80' N	62° 14,46' W	447	Multibeam und ParaSound
MSM46/445-1	27.08.2015	19:06	48° 33,14' N	62° 15,38' W	448	Multibeam und ParaSound
MSM46/445-1	27.08.2015	19:16	48° 32,66' N	62° 15,28' W	447	Multibeam und ParaSound
MSM46/445-1	27.08.2015	19:22	48° 33,28' N	62° 14,73' W	450	Multibeam und ParaSound
MSM46/445-2	27.08.2015	19:40	48° 33,04' N	62° 14,96' W	449	Satlantic Lichtsonde
MSM46/445-2	27.08.2015	19:49	48° 33,04' N	62° 14,96' W	448	Satlantic Lichtsonde
MSM46/445-3	27.08.2015	19:53	48° 33,04' N	62° 14,96' W	448	Secchi disc

MSM46/445-3	27.08.2015	19:56	48° 33,04' N	62° 14,96' W	449	Secchi disc
MSM46/445-4	27.08.2015	19:59	48° 33,04' N	62° 14,96' W	448	CTD/rosette water sampler
MSM46/445-4	27.08.2015	20:21	48° 33,02' N	62° 14,81' W	449	CTD/rosette water sampler
MSM46/445-4	27.08.2015	20:33	48° 33,02' N	62° 14,81' W	450	CTD/rosette water sampler
MSM46/445-4	27.08.2015	20:49	48° 33,00' N	62° 14,76' W	448	CTD/rosette water sampler
MSM46/445-4	27.08.2015	21:01	48° 33,00' N	62° 14,75' W	448	CTD/rosette water sampler
MSM46/445-5	27.08.2015	21:50	48° 33,02' N	62° 14,94' W	449	CTD/rosette water sampler
MSM46/445-5	27.08.2015	22:03	48° 33,02' N	62° 14,95' W	448	CTD/rosette water sampler
MSM46/445-5	27.08.2015	22:12	48° 33,02' N	62° 14,95' W	449	CTD/rosette water sampler
MSM46/445-6	27.08.2015	22:30	48° 33,02' N	62° 14,95' W	449	CTD/rosette water sampler
MSM46/445-6	27.08.2015	22:36	48° 33,02' N	62° 14,96' W	449	CTD/rosette water sampler
MSM46/445-6	27.08.2015	22:39	48° 33,02' N	62° 14,95' W	449	CTD/rosette water sampler
MSM46/445-7	27.08.2015	22:42	48° 33,02' N	62° 14,95' W	449	Multi corer
MSM46/445-7	27.08.2015	22:55	48° 33,02' N	62° 14,95' W	449	Multi corer
MSM46/445-7	27.08.2015	23:09	48° 33,02' N	62° 14,95' W	449	Multi corer
MSM46/445-8	27.08.2015	23:22	48° 33,02' N	62° 14,96' W	448	Multi corer
MSM46/445-8	27.08.2015	23:36	48° 33,01' N	62° 14,96' W	449	Multi corer
MSM46/445-8	27.08.2015	23:46	48° 33,02' N	62° 14,97' W	449	Multi corer
MSM46/445-9	27.08.2015	23:58	48° 33,02' N	62° 14,97' W	449	Box corer
MSM46/445-9	28.08.2015	0:11	48° 33,02' N	62° 14,97' W	449	Box corer
MSM46/445-9	28.08.2015	0:24	48° 33,02' N	62° 14,97' W	450	Box corer
MSM46/445-10	28.08.2015	0:36	48° 33,01' N	62° 14,98' W	449	Box corer
MSM46/445-10	28.08.2015	0:48	48° 33,01' N	62° 14,99' W	449	Box corer
MSM46/445-10	28.08.2015	1:01	48° 33,01' N	62° 14,98' W	449	Box corer
MSM46/445-11	28.08.2015	1:13	48° 33,01' N	62° 14,99' W	449	Box corer
MSM46/445-11	28.08.2015	1:25	48° 33,01' N	62° 14,99' W	450	Box corer
MSM46/445-11	28.08.2015	1:38	48° 33,01' N	62° 14,99' W	450	Box corer
MSM46/445-12	28.08.2015	1:59	48° 33,00' N	62° 15,00' W	449	Frahm Corer
MSM46/445-12	28.08.2015	2:16	48° 33,00' N	62° 15,01' W	448	Frahm Corer
MSM46/445-12	28.08.2015	2:30	48° 33,00' N	62° 15,01' W	451	Frahm Corer
MSM46/445-13	28.08.2015	2:46	48° 33,00' N	62° 15,00' W	449	Gravity corer
MSM46/445-13	28.08.2015	2:56	48° 33,00' N	62° 15,00' W	450	Gravity corer
MSM46/445-13	28.08.2015	3:12	48° 33,00' N	62° 15,00' W	449	Gravity corer

MSM46/445-14	28.08.2015	3:53	48° 33,00' N	62° 15,00' W	449	Gravity corer
MSM46/445-14	28.08.2015	4:05	48° 33,00' N	62° 15,00' W	450	Gravity corer
MSM46/445-14	28.08.2015	4:19	48° 33,00' N	62° 14,99' W	450	Gravity corer
MSM46/445-15	28.08.2015	5:17	48° 32,81' N	62° 13,59' W	449	In situ pump
MSM46/445-15	28.08.2015	5:23	48° 32,81' N	62° 13,60' W	449	In situ pump
MSM46/445-15	28.08.2015	11:42	48° 32,71' N	62° 13,56' W	448	In situ pump
MSM46/445-15	28.08.2015	11:46	48° 32,69' N	62° 13,54' W	448	In situ pump
MSM46/446-1	28.08.2015	20:14	49° 17,68' N	63° 59,03' W	381	Multibeam und ParaSound
MSM46/446-1	28.08.2015	20:20	49° 17,15' N	63° 59,70' W	382	Multibeam und ParaSound
MSM46/446-1	28.08.2015	20:42	49° 17,73' N	63° 59,91' W	381	Multibeam und ParaSound
MSM46/446-1	28.08.2015	20:49	49° 17,18' N	63° 58,99' W	382	Multibeam und ParaSound
MSM46/446-2	28.08.2015	21:13	49° 17,38' N	63° 59,24' W	50,1	Satlantic Lichtsonde
MSM46/446-2	28.08.2015	21:28	49° 17,40' N	63° 59,26' W	51	Satlantic Lichtsonde
MSM46/446-3	28.08.2015	21:30	49° 17,40' N	63° 59,26' W	382	Secchi disc
MSM46/446-3	28.08.2015	21:31	49° 17,40' N	63° 59,27' W	381	Secchi disc
MSM46/446-4	28.08.2015	21:36	49° 17,40' N	63° 59,28' W	382	CTD/rosette water sampler
MSM46/446-4	28.08.2015	21:56	49° 17,41' N	63° 59,34' W	381	CTD/rosette water sampler
MSM46/446-4	28.08.2015	22:04	49° 17,41' N	63° 59,34' W	384	CTD/rosette water sampler
MSM46/446-4	28.08.2015	22:16	49° 17,41' N	63° 59,34' W	382	CTD/rosette water sampler
MSM46/446-4	28.08.2015	22:34	49° 17,41' N	63° 59,34' W	381	CTD/rosette water sampler
MSM46/446-5	28.08.2015	23:08	49° 17,41' N	63° 59,34' W	381	CTD/rosette water sampler
MSM46/446-5	28.08.2015	23:24	49° 17,41' N	63° 59,34' W	381	CTD/rosette water sampler
MSM46/446-5	28.08.2015	23:32	49° 17,41' N	63° 59,34' W	384	CTD/rosette water sampler
MSM46/446-6	28.08.2015	23:41	49° 17,41' N	63° 59,34' W	381	Multi corer
MSM46/446-6	28.08.2015	23:55	49° 17,41' N	63° 59,34' W	381	Multi corer
MSM46/446-6	29.08.2015	0:06	49° 17,41' N	63° 59,34' W	381	Multi corer
MSM46/446-7	29.08.2015	0:26	49° 17,41' N	63° 59,34' W	381	Multi corer
MSM46/446-7	29.08.2015	0:37	49° 17,42' N	63° 59,34' W	381	Multi corer
MSM46/446-7	29.08.2015	0:48	49° 17,42' N	63° 59,34' W	381	Multi corer
MSM46/446-8	29.08.2015	0:52	49° 17,42' N	63° 59,34' W	381	CTD/rosette water sampler
MSM46/446-8	29.08.2015	0:56	49° 17,42' N	63° 59,35' W	381	CTD/rosette water sampler
MSM46/446-8	29.08.2015	0:58	49° 17,42' N	63° 59,35' W	384	CTD/rosette water sampler
MSM46/446-9	29.08.2015	1:01	49° 17,42' N	63° 59,34' W	382	CTD/rosette water sampler

MSM46/446-9	29.08.2015	1:03	49° 17,42' N	63° 59,34' W	381	CTD/rosette water sampler
MSM46/446-9	29.08.2015	1:04	49° 17,42' N	63° 59,34' W	381	CTD/rosette water sampler
MSM46/446-10	29.08.2015	1:10	49° 17,41' N	63° 59,36' W	382	Box corer
MSM46/446-10	29.08.2015	1:20	49° 17,42' N	63° 59,36' W	381	Box corer
MSM46/446-10	29.08.2015	1:32	49° 17,42' N	63° 59,36' W	382	Box corer
MSM46/446-11	29.08.2015	1:43	49° 17,41' N	63° 59,37' W	382	Box corer
MSM46/446-11	29.08.2015	1:53	49° 17,41' N	63° 59,37' W	382	Box corer
MSM46/446-11	29.08.2015	2:06	49° 17,41' N	63° 59,37' W	382	Box corer
MSM46/446-12	29.08.2015	2:15	49° 17,41' N	63° 59,38' W	382	Box corer
MSM46/446-12	29.08.2015	2:25	49° 17,41' N	63° 59,38' W	382	Box corer
MSM46/446-12	29.08.2015	2:37	49° 17,41' N	63° 59,38' W	382	Box corer
MSM46/447-1	29.08.2015	10:48	49° 30,03' N	65° 59,89' W	336	CTD/rosette water sampler
MSM46/447-1	29.08.2015	11:03	49° 30,03' N	65° 59,89' W	335	CTD/rosette water sampler
MSM46/447-1	29.08.2015	11:11	49° 30,03' N	65° 59,89' W	335	CTD/rosette water sampler
MSM46/447-1	29.08.2015	11:23	49° 30,02' N	65° 59,89' W	336	CTD/rosette water sampler
MSM46/447-1	29.08.2015	11:34	49° 30,03' N	65° 59,89' W	335	CTD/rosette water sampler
MSM46/447-2	29.08.2015	12:08	49° 30,03' N	65° 59,89' W	335	CTD/rosette water sampler
MSM46/447-2	29.08.2015	12:13	49° 30,03' N	65° 59,89' W	335	CTD/rosette water sampler
MSM46/447-2	29.08.2015	12:26	49° 30,03' N	65° 59,89' W	336	CTD/rosette water sampler
MSM46/447-2	29.08.2015	12:39	49° 30,03' N	65° 59,89' W	335	CTD/rosette water sampler
MSM46/447-3	29.08.2015	12:43	49° 30,03' N	65° 59,89' W	335	Satlantic Lichtsonde
MSM46/447-3	29.08.2015	12:57	49° 30,05' N	65° 59,91' W	335	Satlantic Lichtsonde
MSM46/447-4	29.08.2015	12:58	49° 30,05' N	65° 59,91' W	336	Secchi disc
MSM46/447-4	29.08.2015	13:01	49° 30,05' N	65° 59,92' W	338	Secchi disc
MSM46/447-5	29.08.2015	13:02	49° 30,05' N	65° 59,92' W	335	Box corer
MSM46/447-5	29.08.2015	13:12	49° 30,05' N	65° 59,92' W	335	Box corer
MSM46/447-5	29.08.2015	13:23	49° 30,05' N	65° 59,92' W	335	Box corer
MSM46/447-6	29.08.2015	13:34	49° 30,04' N	65° 59,92' W	335	Box corer
MSM46/447-6	29.08.2015	13:43	49° 30,04' N	65° 59,92' W	335	Box corer
MSM46/447-6	29.08.2015	13:53	49° 30,05' N	65° 59,92' W	335	Box corer
MSM46/447-7	29.08.2015	14:03	49° 30,04' N	65° 59,93' W	336	Box corer
MSM46/447-7	29.08.2015	14:11	49° 30,04' N	65° 59,93' W	336	Box corer
MSM46/447-7	29.08.2015	14:23	49° 30,04' N	65° 59,93' W	337	Box corer

MSM46/447-8	29.08.2015	14:40	49° 30,04' N	65° 59,94' W	336	Multi corer
MSM46/447-8	29.08.2015	14:50	49° 30,04' N	65° 59,94' W	336	Multi corer
MSM46/447-8	29.08.2015	15:00	49° 30,04' N	65° 59,94' W	336	Multi corer
MSM46/447-9	29.08.2015	15:16	49° 30,04' N	65° 59,94' W	336	Multi corer
MSM46/447-9	29.08.2015	15:27	49° 30,04' N	65° 59,94' W	337	Multi corer
MSM46/447-9	29.08.2015	15:37	49° 30,04' N	65° 59,94' W	337	Multi corer
MSM46/448-1	29.08.2015	21:11	49° 6,86' N	67° 16,50' W	340	Multibeam und ParaSound
MSM46/448-1	29.08.2015	21:17	49° 7,43' N	67° 17,01' W	328	Multibeam und ParaSound
MSM46/448-1	29.08.2015	21:30	49° 7,00' N	67° 17,31' W	339	Multibeam und ParaSound
MSM46/448-1	29.08.2015	21:36	49° 7,33' N	67° 16,40' W	328	Multibeam und ParaSound
MSM46/448-2	29.08.2015	21:46	49° 7,22' N	67° 16,71' W	339	Satlantic Lichtsonde
MSM46/448-2	29.08.2015	21:57	49° 7,18' N	67° 16,68' W	328	Satlantic Lichtsonde
MSM46/448-3	29.08.2015	22:00	49° 7,18' N	67° 16,68' W	339	Secchi disc
MSM46/448-3	29.08.2015	22:01	49° 7,18' N	67° 16,68' W	327	Secchi disc
MSM46/448-4	29.08.2015	22:04	49° 7,18' N	67° 16,68' W	338	CTD/rosette water sampler
MSM46/448-4	29.08.2015	22:20	49° 7,18' N	67° 16,68' W	339	CTD/rosette water sampler
MSM46/448-4	29.08.2015	22:30	49° 7,18' N	67° 16,68' W	338	CTD/rosette water sampler
MSM46/448-4	29.08.2015	22:42	49° 7,18' N	67° 16,68' W	338	CTD/rosette water sampler
MSM46/448-4	29.08.2015	22:53	49° 7,18' N	67° 16,68' W	338	CTD/rosette water sampler
MSM46/448-5	29.08.2015	23:24	49° 7,18' N	67° 16,75' W	337	CTD/rosette water sampler
MSM46/448-5	29.08.2015	23:29	49° 7,18' N	67° 16,75' W	338	CTD/rosette water sampler
MSM46/448-5	29.08.2015	23:41	49° 7,18' N	67° 16,75' W	337	CTD/rosette water sampler
MSM46/448-5	29.08.2015	23:53	49° 7,18' N	67° 16,75' W	337	CTD/rosette water sampler
MSM46/448-6	29.08.2015	23:58	49° 7,18' N	67° 16,75' W	337	Multi corer
MSM46/448-6	30.08.2015	0:07	49° 7,18' N	67° 16,75' W	337	Multi corer
MSM46/448-6	30.08.2015	0:24	49° 7,18' N	67° 16,76' W	338	Multi corer
MSM46/448-7	30.08.2015	0:33	49° 7,18' N	67° 16,76' W	337	Multi corer
MSM46/448-7	30.08.2015	0:43	49° 7,18' N	67° 16,76' W	327	Multi corer
MSM46/448-7	30.08.2015	0:54	49° 7,18' N	67° 16,76' W	326	Multi corer
MSM46/448-8	30.08.2015	0:59	49° 7,18' N	67° 16,77' W	326	Multi corer
MSM46/448-8	30.08.2015	1:09	49° 7,18' N	67° 16,77' W	326	Multi corer
MSM46/448-8	30.08.2015	1:20	49° 7,18' N	67° 16,77' W	338	Multi corer
MSM46/448-9	30.08.2015	1:25	49° 7,18' N	67° 16,77' W	326	Box corer

MSM46/448-9	30.08.2015	1:35	49° 7,18' N	67° 16,78' W	338	Box corer
MSM46/448-9	30.08.2015	1:46	49° 7,18' N	67° 16,78' W	338	Box corer
MSM46/448-10	30.08.2015	1:53	49° 7,17' N	67° 16,78' W	326	Box corer
MSM46/448-10	30.08.2015	2:01	49° 7,17' N	67° 16,78' W	338	Box corer
MSM46/448-10	30.08.2015	2:12	49° 7,17' N	67° 16,78' W	326	Box corer
MSM46/448-11	30.08.2015	2:20	49° 7,17' N	67° 16,79' W	338	Box corer
MSM46/448-11	30.08.2015	2:29	49° 7,17' N	67° 16,79' W	338	Box corer
MSM46/448-11	30.08.2015	2:40	49° 7,17' N	67° 16,79' W	327	Box corer
MSM46/448-12	30.08.2015	2:48	49° 7,17' N	67° 16,80' W	327	Box corer
MSM46/448-12	30.08.2015	2:57	49° 7,17' N	67° 16,80' W	339	Box corer
MSM46/448-12	30.08.2015	3:09	49° 7,17' N	67° 16,80' W	339	Box corer
MSM46/448-13	30.08.2015	3:17	49° 7,17' N	67° 16,80' W	327	Frahm Corer
MSM46/448-13	30.08.2015	3:31	49° 7,17' N	67° 16,80' W	328	Frahm Corer
MSM46/448-13	30.08.2015	3:40	49° 7,17' N	67° 16,80' W	328	Frahm Corer
MSM46/448-14	30.08.2015	3:55	49° 7,17' N	67° 16,80' W	328	Gravity corer
MSM46/448-14	30.08.2015	4:07	49° 7,17' N	67° 16,80' W	328	Gravity corer
MSM46/448-14	30.08.2015	4:23	49° 7,17' N	67° 16,80' W	328	Gravity corer
MSM46/448-15	30.08.2015	5:35	49° 7,17' N	67° 16,81' W	341	Gravity corer
MSM46/448-15	30.08.2015	5:46	49° 7,17' N	67° 16,81' W	330	Gravity corer
MSM46/448-15	30.08.2015	6:02	49° 7,17' N	67° 16,81' W	342	Gravity corer
MSM46/449-1	30.08.2015	12:48	48° 38,33' N	68° 37,90' W	324	In situ pump
MSM46/449-1	30.08.2015	12:56	48° 38,33' N	68° 37,90' W	325	In situ pump
MSM46/449-1	30.08.2015	17:09	48° 38,33' N	68° 37,90' W	326	In situ pump
MSM46/449-2	30.08.2015	17:53	48° 42,66' N	68° 37,79' W	349	Mooring
MSM46/449-2	30.08.2015	18:02	48° 42,63' N	68° 37,86' W	348	Mooring
MSM46/449-2	30.08.2015	18:10	48° 42,58' N	68° 37,97' W	349	Mooring
MSM46/449-2	30.08.2015	18:21	48° 42,49' N	68° 38,20' W	349	Mooring
MSM46/449-2	30.08.2015	18:32	48° 42,42' N	68° 38,36' W	350	Mooring
MSM46/449-3	30.08.2015	19:07	48° 38,34' N	68° 37,89' W	328	Satlantic Lichtsonde
MSM46/449-3	30.08.2015	19:22	48° 38,34' N	68° 38,00' W	329	Satlantic Lichtsonde
MSM46/449-4	30.08.2015	19:24	48° 38,34' N	68° 38,00' W	329	Secchi disc
MSM46/449-4	30.08.2015	19:25	48° 38,34' N	68° 38,00' W	329	Secchi disc
MSM46/449-5	30.08.2015	19:33	48° 38,35' N	68° 38,01' W	328	CTD/rosette water sampler
MSM46/449-5	30.08.2015	19:52	48° 38,35' N	68° 38,01' W	328	CTD/rosette water sampler

MSM46/449-5	30.08.2015	20:00	48° 38,35' N	68° 38,01' W	330	CTD/rosette water sampler
MSM46/449-5	30.08.2015	20:27	48° 38,35' N	68° 38,00' W	328	CTD/rosette water sampler
MSM46/449-5	30.08.2015	20:39	48° 38,34' N	68° 37,97' W	327	CTD/rosette water sampler
MSM46/449-6	30.08.2015	21:13	48° 38,34' N	68° 37,91' W	328	CTD/rosette water sampler
MSM46/449-6	30.08.2015	21:32	48° 38,34' N	68° 37,91' W	326	CTD/rosette water sampler
MSM46/449-6	30.08.2015	21:45	48° 38,34' N	68° 37,91' W	326	CTD/rosette water sampler
MSM46/449-7	30.08.2015	22:04	48° 38,34' N	68° 37,91' W	326	CTD/rosette water sampler
MSM46/449-7	30.08.2015	22:06	48° 38,34' N	68° 37,91' W	326	CTD/rosette water sampler
MSM46/449-7	30.08.2015	22:14	48° 38,34' N	68° 37,91' W	326	CTD/rosette water sampler
MSM46/449-8	30.08.2015	22:17	48° 38,34' N	68° 37,91' W	326	In situ pump
MSM46/449-8	30.08.2015	22:26	48° 38,34' N	68° 37,91' W	325	In situ pump
MSM46/449-8	31.08.2015	2:41	48° 38,34' N	68° 37,91' W	324	In situ pump
MSM46/449-9	31.08.2015	3:06	48° 38,34' N	68° 37,91' W	324	In situ pump
MSM46/449-9	31.08.2015	3:10	48° 38,34' N	68° 37,91' W	324	In situ pump
MSM46/449-9	31.08.2015	7:18	48° 38,34' N	68° 37,91' W	328	In situ pump
MSM46/449-9	31.08.2015	7:20	48° 38,34' N	68° 37,91' W	329	In situ pump
MSM46/449-10	31.08.2015	7:26	48° 38,34' N	68° 37,91' W	329	Box corer
MSM46/449-10	31.08.2015	7:36	48° 38,34' N	68° 37,91' W	328	Box corer
MSM46/449-10	31.08.2015	7:46	48° 38,34' N	68° 37,91' W	328	Box corer
MSM46/449-11	31.08.2015	7:55	48° 38,33' N	68° 37,91' W	328	Box corer
MSM46/449-11	31.08.2015	8:04	48° 38,33' N	68° 37,91' W	328	Box corer
MSM46/449-11	31.08.2015	8:12	48° 38,33' N	68° 37,91' W	329	Box corer
MSM46/449-12	31.08.2015	8:21	48° 38,33' N	68° 37,92' W	328	Box corer
MSM46/449-12	31.08.2015	8:29	48° 38,33' N	68° 37,92' W	328	Box corer
MSM46/449-12	31.08.2015	8:38	48° 38,33' N	68° 37,92' W	328	Box corer
MSM46/449-13	31.08.2015	8:45	48° 38,32' N	68° 37,92' W	328	Box corer
MSM46/449-13	31.08.2015	8:53	48° 38,32' N	68° 37,92' W	327	Box corer
MSM46/449-13	31.08.2015	9:03	48° 38,32' N	68° 37,92' W	328	Box corer
MSM46/449-14	31.08.2015	9:08	48° 38,32' N	68° 37,93' W	328	Multi corer
MSM46/449-14	31.08.2015	9:18	48° 38,32' N	68° 37,93' W	327	Multi corer
MSM46/449-14	31.08.2015	9:28	48° 38,32' N	68° 37,93' W	327	Multi corer
MSM46/449-15	31.08.2015	9:38	48° 38,31' N	68° 37,93' W	326	Multi corer
MSM46/449-15	31.08.2015	9:48	48° 38,31' N	68° 37,93' W	326	Multi corer

MSM46/449-15	31.08.2015	9:56	48° 38,31' N	68° 37,93' W	326	Multi corer
MSM46/449-16	31.08.2015	10:04	48° 38,31' N	68° 37,93' W	326	Frahm Corer
MSM46/449-16	31.08.2015	10:18	48° 38,31' N	68° 37,93' W	326	Frahm Corer
MSM46/449-16	31.08.2015	10:27	48° 38,31' N	68° 37,93' W	327	Frahm Corer
MSM46/449-17	31.08.2015	11:18	48° 38,31' N	68° 37,94' W	325	Gravity corer
MSM46/449-17	31.08.2015	11:28	48° 38,30' N	68° 37,94' W	326	Gravity corer
MSM46/449-17	31.08.2015	11:44	48° 38,30' N	68° 37,94' W	324	Gravity corer
MSM46/449-18	31.08.2015	22:54	49° 51,03' N	66° 7,82' W	302	Multibeam und ParaSound
MSM46/449-18	01.09.2015	0:03	49° 58,70' N	66° 13,73' W	252	Multibeam und ParaSound
MSM46/449-19	01.09.2015	0:05	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-19	01.09.2015	0:21	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-19	01.09.2015	0:26	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-19	01.09.2015	0:37	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-19	01.09.2015	0:46	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-20	01.09.2015	1:18	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-20	01.09.2015	1:24	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-20	01.09.2015	1:34	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-20	01.09.2015	1:42	49° 58,71' N	66° 13,73' W	251	CTD/rosette water sampler
MSM46/449-18	01.09.2015	1:53	49° 59,15' N	66° 13,95' W	238	Multibeam und ParaSound
MSM46/449-18	01.09.2015	2:45	50° 5,24' N	66° 19,05' W	115	Multibeam und ParaSound
MSM46/449-18	01.09.2015	3:00	50° 4,52' N	66° 21,94' W	152	Multibeam und ParaSound
MSM46/449-18	01.09.2015	3:24	50° 1,49' N	66° 23,11' W	91	Multibeam und ParaSound
MSM46/449-18	01.09.2015	4:02	49° 56,56' N	66° 22,16' W	215	Multibeam und ParaSound
MSM46/449-18	01.09.2015	5:27	50° 0,75' N	66° 6,29' W	220	Multibeam und ParaSound
MSM46/449-21	01.09.2015	6:13	50° 5,74' N	66° 9,07' W	121	Multibeam und ParaSound
MSM46/449-21	01.09.2015	6:43	50° 3,21' N	66° 13,70' W	143	Multibeam und ParaSound
MSM46/449-21	01.09.2015	7:29	49° 59,16' N	66° 20,82' W	200	Multibeam und ParaSound
MSM46/449-21	01.09.2015	7:44	49° 58,06' N	66° 23,42' W	228	Multibeam und ParaSound
MSM46/449-21	01.09.2015	7:53	49° 57,85' N	66° 23,37' W	229	Multibeam und ParaSound
MSM46/449-21	01.09.2015	8:11	49° 59,01' N	66° 20,38' W	212	Multibeam und ParaSound
MSM46/449-21	01.09.2015	8:56	50° 2,96' N	66° 13,53' W	175	Multibeam und ParaSound
MSM46/449-21	01.09.2015	9:24	50° 5,30' N	66° 9,05' W	129	Multibeam und ParaSound
MSM46/449-21	01.09.2015	9:30	50° 4,92' N	66° 9,07' W	131	Multibeam und ParaSound

MSM46/449-21	01.09.2015	9:56	50° 2,73' N	66° 13,36' W	194	Multibeam und ParaSound
MSM46/449-21	01.09.2015	10:40	49° 58,81' N	66° 20,11' W	220	Multibeam und ParaSound
MSM46/449-21	01.09.2015	10:57	49° 57,58' N	66° 23,07' W	225	Multibeam und ParaSound
MSM46/449-21	01.09.2015	11:06	49° 57,43' N	66° 22,60' W	220	Multibeam und ParaSound
MSM46/449-21	01.09.2015	11:22	49° 58,65' N	66° 19,80' W	225	Multibeam und ParaSound
MSM46/449-21	01.09.2015	12:08	50° 2,60' N	66° 12,92' E	0	Multibeam und ParaSound
MSM46/449-21	01.09.2015	12:39	50° 3,99' N	66° 9,64' E	0	Multibeam und ParaSound
MSM46/449-21	01.09.2015	12:39	50° 3,91' N	66° 9,71' W	0	Multibeam und ParaSound
MSM46/449-21	01.09.2015	12:58	50° 2,33' N	66° 12,90' W	217	Multibeam und ParaSound
MSM46/449-21	01.09.2015	13:44	49° 58,24' N	66° 19,98' W	225	Multibeam und ParaSound
MSM46/449-21	01.09.2015	13:59	49° 57,14' N	66° 22,59' W	220	Multibeam und ParaSound
MSM46/449-22	01.09.2015	14:40	50° 1,74' N	66° 23,12' W	95,4	Multibeam und ParaSound
MSM46/449-22	01.09.2015	14:54	50° 3,54' N	66° 22,37' W	82,1	Multibeam und ParaSound
MSM46/449-22	01.09.2015	15:07	50° 4,79' N	66° 20,81' W	137	Multibeam und ParaSound
MSM46/450-1	01.09.2015	15:20	50° 4,84' N	66° 20,71' W	137	Multi corer
MSM46/450-1	01.09.2015	15:25	50° 4,84' N	66° 20,71' W	137	Multi corer
MSM46/450-1	01.09.2015	15:33	50° 4,84' N	66° 20,71' W	137	Multi corer
MSM46/450-2	01.09.2015	15:39	50° 4,84' N	66° 20,71' W	137	Gravity corer
MSM46/450-2	01.09.2015	15:44	50° 4,84' N	66° 20,71' W	137	Gravity corer
MSM46/450-2	01.09.2015	16:00	50° 4,84' N	66° 20,71' W	137	Gravity corer
MSM46/451-1	01.09.2015	17:02	50° 2,66' N	66° 22,77' W	202	Satlantic Lichtsonde
MSM46/451-2	01.09.2015	17:14	50° 2,73' N	66° 22,83' W	197	Secchi disc
MSM46/451-1	01.09.2015	17:14	50° 2,73' N	66° 22,83' W	197	Satlantic Lichtsonde
MSM46/451-2	01.09.2015	17:15	50° 2,73' N	66° 22,84' W	196	Secchi disc
MSM46/451-3	01.09.2015	17:25	50° 2,65' N	66° 22,77' W	201	CTD/rosette water sampler
MSM46/451-3	01.09.2015	17:40	50° 2,65' N	66° 22,76' W	201	CTD/rosette water sampler
MSM46/451-3	01.09.2015	17:47	50° 2,65' N	66° 22,76' W	201	CTD/rosette water sampler
MSM46/451-3	01.09.2015	17:59	50° 2,65' N	66° 22,76' W	202	CTD/rosette water sampler
MSM46/451-3	01.09.2015	18:05	50° 2,65' N	66° 22,76' W	202	CTD/rosette water sampler
MSM46/451-4	01.09.2015	18:52	50° 2,65' N	66° 22,76' W	202	CTD/rosette water sampler
MSM46/451-4	01.09.2015	19:03	50° 2,65' N	66° 22,76' W	202	CTD/rosette water sampler
MSM46/451-4	01.09.2015	19:16	50° 2,65' N	66° 22,76' W	202	CTD/rosette water sampler
MSM46/451-5	01.09.2015	19:23	50° 2,65' N	66° 22,76' W	202	Multi corer

MSM46/451-5	01.09.2015	19:30	50° 2,65' N	66° 22,76' W	202	Multi corer
MSM46/451-5	01.09.2015	19:39	50° 2,65' N	66° 22,76' W	203	Multi corer
MSM46/451-6	01.09.2015	19:43	50° 2,65' N	66° 22,75' W	202	Box corer
MSM46/451-6	01.09.2015	19:51	50° 2,65' N	66° 22,75' W	203	Box corer
MSM46/451-6	01.09.2015	20:03	50° 2,64' N	66° 22,74' W	202	Box corer
MSM46/451-7	01.09.2015	20:09	50° 2,65' N	66° 22,73' W	202	Box corer
MSM46/451-7	01.09.2015	20:15	50° 2,64' N	66° 22,73' W	202	Box corer
MSM46/451-7	01.09.2015	20:24	50° 2,64' N	66° 22,73' W	202	Box corer
MSM46/451-8	01.09.2015	20:32	50° 2,65' N	66° 22,72' W	202	Box corer
MSM46/451-8	01.09.2015	20:38	50° 2,65' N	66° 22,72' W	202	Box corer
MSM46/451-8	01.09.2015	20:46	50° 2,65' N	66° 22,72' W	202	Box corer
MSM46/451-9	01.09.2015	20:56	50° 2,65' N	66° 22,71' W	202	Box corer
MSM46/451-9	01.09.2015	21:02	50° 2,65' N	66° 22,71' W	202	Box corer
MSM46/451-9	01.09.2015	21:11	50° 2,65' N	66° 22,71' W	202	Box corer
MSM46/451-10	01.09.2015	21:20	50° 2,65' N	66° 22,70' W	201	Box corer
MSM46/451-10	01.09.2015	21:25	50° 2,65' N	66° 22,70' W	201	Box corer
MSM46/451-10	01.09.2015	21:34	50° 2,65' N	66° 22,70' W	201	Box corer
MSM46/451-11	01.09.2015	21:50	50° 2,66' N	66° 22,69' W	201	Frahm Corer
MSM46/451-11	01.09.2015	21:58	50° 2,66' N	66° 22,69' W	201	Frahm Corer
MSM46/451-11	01.09.2015	22:06	50° 2,66' N	66° 22,69' W	201	Frahm Corer
MSM46/451-12	01.09.2015	22:20	50° 2,64' N	66° 22,78' W	202	Gravity corer
MSM46/451-12	01.09.2015	22:27	50° 2,64' N	66° 22,77' W	202	Gravity corer
MSM46/451-12	01.09.2015	22:43	50° 2,64' N	66° 22,78' W	202	Gravity corer
MSM46/451-13	01.09.2015	23:43	50° 0,67' N	66° 25,35' W	130	Multibeam und ParaSound
MSM46/451-13	02.09.2015	0:09	49° 58,70' N	66° 22,18' W	197	Multibeam und ParaSound
MSM46/451-13	02.09.2015	0:37	50° 1,58' N	66° 26,04' W	140	Multibeam und ParaSound
MSM46/451-13	02.09.2015	0:46	50° 1,79' N	66° 25,83' W	136	Multibeam und ParaSound
MSM46/451-13	02.09.2015	1:14	49° 58,90' N	66° 22,11' W	198	Multibeam und ParaSound
MSM46/451-13	02.09.2015	1:23	49° 58,91' N	66° 21,55' W	200	Multibeam und ParaSound
MSM46/451-13	02.09.2015	1:52	50° 1,87' N	66° 25,45' W	131	Multibeam und ParaSound
MSM46/451-13	02.09.2015	2:01	50° 2,14' N	66° 25,19' W	122	Multibeam und ParaSound
MSM46/451-13	02.09.2015	2:30	49° 59,15' N	66° 21,40' W	194	Multibeam und ParaSound
MSM46/451-13	02.09.2015	2:58	49° 56,87' N	66° 22,57' W	216	Multibeam und ParaSound

MSM46/451-13	02.09.2015	3:10	49° 57,68' N	66° 20,42' W	219	Multibeam und ParaSound
MSM46/451-13	02.09.2015	4:20	50° 3,74' N	66° 9,51' W	171	Multibeam und ParaSound
MSM46/451-13	02.09.2015	5:30	49° 57,59' N	66° 19,72' W	216	Multibeam und ParaSound
MSM46/451-13	02.09.2015	5:44	49° 56,71' N	66° 22,28' W	219	Multibeam und ParaSound
MSM46/451-13	02.09.2015	6:05	49° 57,16' N	66° 19,97' W	225	Multibeam und ParaSound
MSM46/451-13	02.09.2015	7:08	50° 2,62' N	66° 10,10' W	227	Multibeam und ParaSound
MSM46/451-13	02.09.2015	7:16	50° 2,29' N	66° 10,16' W	230	Multibeam und ParaSound
MSM46/451-13	02.09.2015	8:20	49° 56,98' N	66° 19,39' W	231	Multibeam und ParaSound
MSM46/451-13	02.09.2015	8:26	49° 56,72' N	66° 19,20' W	236	Multibeam und ParaSound
MSM46/451-13	02.09.2015	9:24	50° 1,95' N	66° 10,25' W	217	Multibeam und ParaSound
MSM46/451-13	02.09.2015	9:32	50° 1,34' N	66° 10,50' W	197	Multibeam und ParaSound
MSM46/451-13	02.09.2015	10:20	49° 57,02' N	66° 17,92' W	249	Multibeam und ParaSound
MSM46/451-13	02.09.2015	10:31	49° 57,36' N	66° 16,61' W	249	Multibeam und ParaSound
MSM46/451-13	02.09.2015	11:08	50° 0,62' N	66° 10,85' W	222	Multibeam und ParaSound
MSM46/451-13	02.09.2015	11:13	50° 0,28' N	66° 10,71' W	223	Multibeam und ParaSound
MSM46/451-13	02.09.2015	11:43	49° 57,61' N	66° 15,45' W	262	Multibeam und ParaSound
MSM46/451-13	02.09.2015	11:50	49° 57,27' N	66° 15,32' W	268	Multibeam und ParaSound
MSM46/451-13	02.09.2015	12:22	50° 0,08' N	66° 10,32' W	228	Multibeam und ParaSound
MSM46/451-13	02.09.2015	13:02	50° 5,25' N	66° 8,80' W	126	Multibeam und ParaSound
MSM46/451-13	02.09.2015	13:15	50° 5,89' N	66° 8,35' W	114	Multibeam und ParaSound
MSM46/451-13	02.09.2015	13:59	49° 59,98' N	66° 9,59' W	223	Multibeam und ParaSound
MSM46/451-13	02.09.2015	14:29	49° 59,99' N	66° 9,01' W	228	Multibeam und ParaSound
MSM46/451-13	02.09.2015	15:17	50° 5,78' N	66° 8,13' W	114	Multibeam und ParaSound
MSM46/452-1	03.09.2015	15:31	50° 8,64' N	58° 44,60' W	266	Multibeam und ParaSound
MSM46/452-1	03.09.2015	15:56	50° 6,62' N	58° 40,63' W	320	Multibeam und ParaSound
MSM46/452-1	03.09.2015	16:25	50° 5,98' N	58° 45,58' W	305	Multibeam und ParaSound
MSM46/452-1	03.09.2015	18:17	50° 13,93' N	58° 26,52' W	345	Multibeam und ParaSound
MSM46/452-1	03.09.2015	20:48	50° 29,01' N	58° 5,82' W	267	Multibeam und ParaSound
MSM46/452-1	03.09.2015	20:55	50° 28,32' N	58° 5,04' W	291	Multibeam und ParaSound
MSM46/452-1	03.09.2015	21:18	50° 29,02' N	58° 8,58' W	264	Multibeam und ParaSound
MSM46/452-2	03.09.2015	23:00	50° 15,66' N	58° 29,76' W	338	Multibeam und ParaSound
MSM46/452-2	03.09.2015	23:44	50° 12,09' N	58° 22,70' W	309	Multibeam und ParaSound

MSM46/452-2	03.09.2015	23:55	50° 11,95' N	58° 23,30' W	310	Multibeam und ParaSound
MSM46/452-2	04.09.2015	0:37	50° 15,44' N	58° 30,15' W	334	Multibeam und ParaSound
MSM46/452-2	04.09.2015	0:54	50° 15,13' N	58° 30,99' W	330	Multibeam und ParaSound
MSM46/452-2	04.09.2015	1:39	50° 11,75' N	58° 23,80' W	310	Multibeam und ParaSound
MSM46/452-2	04.09.2015	1:49	50° 11,45' N	58° 24,14' W	311	Multibeam und ParaSound
MSM46/452-2	04.09.2015	2:36	50° 15,03' N	58° 31,18' W	329	Multibeam und ParaSound
MSM46/452-2	04.09.2015	2:43	50° 14,85' N	58° 31,72' W	330	Multibeam und ParaSound
MSM46/452-2	04.09.2015	3:25	50° 11,42' N	58° 24,90' W	312	Multibeam und ParaSound
MSM46/452-2	04.09.2015	3:30	50° 10,95' N	58° 24,31' W	308	Multibeam und ParaSound
MSM46/452-2	04.09.2015	4:18	50° 14,66' N	58° 32,05' W	330	Multibeam und ParaSound
MSM46/452-2	04.09.2015	4:24	50° 14,54' N	58° 32,61' W	327	Multibeam und ParaSound
MSM46/452-2	04.09.2015	5:07	50° 11,01' N	58° 25,64' W	311	Multibeam und ParaSound
MSM46/452-2	04.09.2015	5:12	50° 10,64' N	58° 25,67' W	309	Multibeam und ParaSound
MSM46/452-2	04.09.2015	5:54	50° 14,10' N	58° 32,59' W	335	Multibeam und ParaSound
MSM46/452-2	04.09.2015	6:00	50° 14,15' N	58° 33,42' W	324	Multibeam und ParaSound
MSM46/452-2	04.09.2015	6:42	50° 10,63' N	58° 26,61' W	311	Multibeam und ParaSound
MSM46/452-2	04.09.2015	6:48	50° 10,22' N	58° 26,61' W	310	Multibeam und ParaSound
MSM46/452-2	04.09.2015	7:31	50° 13,80' N	58° 33,69' W	327	Multibeam und ParaSound
MSM46/452-2	04.09.2015	7:36	50° 13,63' N	58° 34,19' W	327	Multibeam und ParaSound
MSM46/452-2	04.09.2015	8:20	50° 9,94' N	58° 27,12' W	308	Multibeam und ParaSound
MSM46/452-3	04.09.2015	8:58	50° 13,41' N	58° 27,92' W	57,5	CTD/rosette water sampler
MSM46/452-3	04.09.2015	9:14	50° 13,44' N	58° 27,95' W	59	CTD/rosette water sampler
MSM46/452-3	04.09.2015	9:23	50° 13,46' N	58° 27,95' W	65,9	CTD/rosette water sampler
MSM46/452-3	04.09.2015	9:36	50° 13,46' N	58° 27,95' W	68,5	CTD/rosette water sampler
MSM46/452-3	04.09.2015	9:51	50° 13,47' N	58° 27,95' W	52,7	CTD/rosette water sampler
MSM46/452-4	04.09.2015	10:26	50° 13,39' N	58° 27,95' W	48,4	CTD/rosette water sampler
MSM46/452-4	04.09.2015	10:39	50° 13,39' N	58° 27,94' W	78	CTD/rosette water sampler
MSM46/452-4	04.09.2015	10:50	50° 13,39' N	58° 27,94' W	78,8	CTD/rosette water sampler
MSM46/452-5	04.09.2015	10:54	50° 13,39' N	58° 27,94' W	82,7	Satlantic Lichtsonde
MSM46/452-5	04.09.2015	11:21	50° 13,53' N	58° 27,90' W	334	Satlantic Lichtsonde
MSM46/452-6	04.09.2015	11:22	50° 13,53' N	58° 27,90' W	332	Secchi disc
MSM46/452-6	04.09.2015	11:24	50° 13,54' N	58° 27,90' W	332	Secchi disc
MSM46/452-7	04.09.2015	11:38	50° 13,37' N	58° 27,92' W	329	Multi corer

MSM46/452-7	04.09.2015	11:48	50° 13,37' N	58° 27,94' W	330	Multi corer
MSM46/452-7	04.09.2015	11:58	50° 13,37' N	58° 27,94' W	330	Multi corer
MSM46/452-8	04.09.2015	12:09	50° 13,37' N	58° 27,94' W	330	Box corer
MSM46/452-8	04.09.2015	12:16	50° 13,37' N	58° 27,94' W	330	Box corer
MSM46/452-8	04.09.2015	12:27	50° 13,37' N	58° 27,94' W	333	Box corer
MSM46/452-9	04.09.2015	12:40	50° 13,38' N	58° 27,94' W	331	Box corer
MSM46/452-9	04.09.2015	12:47	50° 13,38' N	58° 27,94' W	330	Box corer
MSM46/452-9	04.09.2015	12:57	50° 13,38' N	58° 27,94' W	330	Box corer
MSM46/452-10	04.09.2015	13:09	50° 13,38' N	58° 27,94' W	330	Box corer
MSM46/452-10	04.09.2015	13:16	50° 13,38' N	58° 27,94' W	331	Box corer
MSM46/452-10	04.09.2015	13:25	50° 13,38' N	58° 27,94' W	330	Box corer
MSM46/452-11	04.09.2015	13:34	50° 13,38' N	58° 27,94' W	330	Box corer
MSM46/452-11	04.09.2015	13:42	50° 13,38' N	58° 27,94' W	331	Box corer
MSM46/452-11	04.09.2015	13:52	50° 13,38' N	58° 27,94' W	332	Box corer
MSM46/452-12	04.09.2015	14:01	50° 13,37' N	58° 27,95' W	330	Box corer
MSM46/452-12	04.09.2015	14:09	50° 13,38' N	58° 27,94' W	330	Box corer
MSM46/452-12	04.09.2015	14:18	50° 13,37' N	58° 27,94' W	331	Box corer
MSM46/452-13	04.09.2015	14:30	50° 13,37' N	58° 27,94' W	331	Frahm Corer
MSM46/452-13	04.09.2015	14:42	50° 13,37' N	58° 27,94' W	331	Frahm Corer
MSM46/452-13	04.09.2015	14:52	50° 13,36' N	58° 27,94' W	330	Frahm Corer
MSM46/452-14	04.09.2015	15:24	50° 13,36' N	58° 27,91' W	330	Gravity corer
MSM46/452-14	04.09.2015	15:32	50° 13,36' N	58° 27,92' W	330	Gravity corer
MSM46/452-14	04.09.2015	15:47	50° 13,36' N	58° 27,92' W	330	Gravity corer
MSM46/452-15	04.09.2015	16:55	50° 13,37' N	58° 27,92' W	331	Gravity corer
MSM46/452-15	04.09.2015	17:03	50° 13,37' N	58° 27,92' W	331	Gravity corer
MSM46/452-15	04.09.2015	17:18	50° 13,37' N	58° 27,92' W	331	Gravity corer
MSM46/453-1	07.09.2015	1:43	53° 51,81' N	59° 1,60' W	232	Multibeam und ParaSound
MSM46/453-1	07.09.2015	2:43	53° 45,89' N	59° 10,68' W	213	Multibeam und ParaSound
MSM46/453-1	07.09.2015	2:57	53° 46,88' N	59° 13,15' W	194	Multibeam und ParaSound
MSM46/453-1	07.09.2015	3:46	53° 53,35' N	59° 13,58' W	104	Multibeam und ParaSound
MSM46/453-1	07.09.2015	3:52	53° 53,90' N	59° 12,76' W	79,6	Multibeam und ParaSound
MSM46/453-1	07.09.2015	4:47	53° 51,34' N	59° 1,40' W	227	Multibeam und ParaSound
MSM46/453-1	07.09.2015	5:44	53° 53,80' N	59° 12,42' W	87,5	Multibeam und ParaSound
MSM46/453-1	07.09.2015	6:42	53° 50,86' N	59° 1,81' W	228	Multibeam und

						ParaSound
MSM46/453-1	07.09.2015	7:42	53° 53,52' N	59° 13,39' W	95,1	Multibeam und ParaSound
MSM46/453-1	07.09.2015	8:40	53° 50,40' N	59° 2,47' W	229	Multibeam und ParaSound
MSM46/453-1	07.09.2015	9:41	53° 53,21' N	59° 14,33' W	101	Multibeam und ParaSound
MSM46/453-1	07.09.2015	10:42	53° 49,95' N	59° 3,04' W	209	Multibeam und ParaSound
MSM46/453-1	07.09.2015	10:45	53° 49,69' N	59° 3,06' W	198	Multibeam und ParaSound
MSM46/453-1	07.09.2015	11:43	53° 52,87' N	59° 15,04' W	104	Multibeam und ParaSound
MSM46/453-1	07.09.2015	11:46	53° 52,73' N	59° 15,40' W	107	Multibeam und ParaSound
MSM46/453-1	07.09.2015	12:43	53° 49,53' N	59° 3,75' W	227	Multibeam und ParaSound
MSM46/453-1	07.09.2015	12:47	53° 49,27' N	59° 3,89' W	227	Multibeam und ParaSound
MSM46/453-1	07.09.2015	13:46	53° 52,61' N	59° 16,01' W	97,5	Multibeam und ParaSound
MSM46/454-1	07.09.2015	14:38	53° 47,45' N	59° 8,30' W	216	Satlantic Lichtsonde
MSM46/454-2	07.09.2015	14:50	53° 47,45' N	59° 8,31' W	216	Secchi disc
MSM46/454-1	07.09.2015	14:50	53° 47,45' N	59° 8,31' W	216	Satlantic Lichtsonde
MSM46/454-2	07.09.2015	14:50	53° 47,45' N	59° 8,31' W	216	Secchi disc
MSM46/454-3	07.09.2015	15:03	53° 47,45' N	59° 8,30' W	216	CTD/rosette water sampler
MSM46/454-3	07.09.2015	15:04	53° 47,45' N	59° 8,30' W	216	CTD/rosette water sampler
MSM46/454-3	07.09.2015	15:21	53° 47,45' N	59° 8,30' W	216	CTD/rosette water sampler
MSM46/454-3	07.09.2015	15:30	53° 47,45' N	59° 8,30' W	217	CTD/rosette water sampler
MSM46/454-3	07.09.2015	15:39	53° 47,45' N	59° 8,30' W	216	CTD/rosette water sampler
MSM46/454-3	07.09.2015	15:41	53° 47,45' N	59° 8,30' W	216	CTD/rosette water sampler
MSM46/454-3	07.09.2015	15:45	53° 47,45' N	59° 8,30' W	216	CTD/rosette water sampler
MSM46/454-3	07.09.2015	15:57	53° 47,45' N	59° 8,30' W	216	CTD/rosette water sampler
MSM46/454-4	07.09.2015	16:02	53° 47,45' N	59° 8,30' W	216	Multi corer
MSM46/454-4	07.09.2015	16:13	53° 47,45' N	59° 8,30' W	216	Multi corer
MSM46/454-4	07.09.2015	16:20	53° 47,45' N	59° 8,30' W	216	Multi corer
MSM46/454-5	07.09.2015	16:24	53° 47,45' N	59° 8,30' W	216	Box corer
MSM46/454-5	07.09.2015	16:29	53° 47,46' N	59° 8,29' W	216	Box corer
MSM46/454-5	07.09.2015	16:39	53° 47,46' N	59° 8,30' W	216	Box corer
MSM46/454-6	07.09.2015	16:47	53° 47,46' N	59° 8,29' W	216	Box corer
MSM46/454-6	07.09.2015	16:53	53° 47,46' N	59° 8,29' W	216	Box corer
MSM46/454-6	07.09.2015	17:01	53° 47,46' N	59° 8,29' W	216	Box corer
MSM46/454-7	07.09.2015	17:09	53° 47,47' N	59° 8,28' W	216	Box corer

MSM46/454-7	07.09.2015	17:16	53° 47,47' N	59° 8,28' W	216	Box corer
MSM46/454-7	07.09.2015	17:24	53° 47,47' N	59° 8,28' W	217	Box corer
MSM46/454-8	07.09.2015	17:35	53° 47,47' N	59° 8,28' W	217	Box corer
MSM46/454-8	07.09.2015	17:40	53° 47,47' N	59° 8,28' W	217	Box corer
MSM46/454-8	07.09.2015	17:48	53° 47,47' N	59° 8,27' W	217	Box corer
MSM46/454-9	07.09.2015	17:59	53° 47,48' N	59° 8,27' W	217	Box corer
MSM46/454-9	07.09.2015	18:03	53° 47,48' N	59° 8,28' W	217	Box corer
MSM46/454-9	07.09.2015	18:14	53° 47,48' N	59° 8,28' W	217	Box corer
MSM46/454-10	07.09.2015	18:28	53° 47,48' N	59° 8,27' W	217	Frahm Corer
MSM46/454-10	07.09.2015	18:35	53° 47,48' N	59° 8,27' W	217	Frahm Corer
MSM46/454-10	07.09.2015	18:45	53° 47,48' N	59° 8,27' W	217	Frahm Corer
MSM46/454-11	07.09.2015	19:03	53° 47,45' N	59° 8,30' W	216	Gravity corer
MSM46/454-11	07.09.2015	19:11	53° 47,45' N	59° 8,30' W	216	Gravity corer
MSM46/454-11	07.09.2015	19:25	53° 47,45' N	59° 8,30' W	216	Gravity corer
MSM46/454-12	07.09.2015	20:44	53° 47,44' N	59° 8,30' W	215	Gravity corer
MSM46/454-12	07.09.2015	20:52	53° 47,44' N	59° 8,30' W	216	Gravity corer
MSM46/454-12	07.09.2015	21:16	53° 47,44' N	59° 8,31' W	216	Gravity corer
MSM46/454-13	07.09.2015	22:21	53° 52,43' N	59° 14,09' W	122	CTD/rosette water sampler
MSM46/454-13	07.09.2015	22:33	53° 52,43' N	59° 14,09' W	122	CTD/rosette water sampler
MSM46/454-14	07.09.2015	22:36	53° 52,43' N	59° 14,09' W	122	Hydrophon
MSM46/454-14	07.09.2015	22:38	53° 52,43' N	59° 14,09' W	122	Hydrophon
MSM46/454-13	07.09.2015	22:45	53° 52,43' N	59° 14,10' W	122	CTD/rosette water sampler
MSM46/454-15	07.09.2015	22:51	53° 52,43' N	59° 14,10' W	122	Gravity corer
MSM46/454-15	07.09.2015	23:00	53° 52,43' N	59° 14,10' W	122	Gravity corer
MSM46/454-15	07.09.2015	23:09	53° 52,43' N	59° 14,10' W	122	Gravity corer
MSM46/454-16	08.09.2015	0:13	53° 52,42' N	59° 14,12' W	122	Gravity corer
MSM46/454-16	08.09.2015	0:19	53° 52,42' N	59° 14,11' W	122	Gravity corer
MSM46/454-16	08.09.2015	0:31	53° 52,42' N	59° 14,11' W	122	Gravity corer
MSM46/454-17	08.09.2015	1:35	53° 52,48' N	59° 16,42' W	100	Multibeam und ParaSound
MSM46/454-17	08.09.2015	2:37	53° 49,08' N	59° 4,24' W	226	Multibeam und ParaSound
MSM46/454-17	08.09.2015	3:40	53° 52,20' N	59° 16,43' W	110	Multibeam und ParaSound
MSM46/454-17	08.09.2015	4:43	53° 48,67' N	59° 4,94' W	223	Multibeam und ParaSound
MSM46/454-17	08.09.2015	5:48	53° 51,99' N	59° 17,52' W	94	Multibeam und ParaSound

MSM46/454-17	08.09.2015	6:51	53° 48,30' N	59° 5,57' W	222	Multibeam und ParaSound
MSM46/454-17	08.09.2015	7:57	53° 51,65' N	59° 18,32' W	90,5	Multibeam und ParaSound
MSM46/454-17	08.09.2015	9:03	53° 47,84' N	59° 6,04' W	216	Multibeam und ParaSound
MSM46/454-17	08.09.2015	10:13	53° 51,37' N	59° 19,29' W	79,4	Multibeam und ParaSound
MSM46/455-1	09.09.2015	22:22	58° 29,33' N	63° 8,02' W	249	Multibeam und ParaSound
MSM46/455-1	09.09.2015	22:31	58° 29,63' N	63° 9,73' W	257	Multibeam und ParaSound
MSM46/455-1	09.09.2015	22:47	58° 29,02' N	63° 9,34' W	230	Multibeam und ParaSound
MSM46/455-1	09.09.2015	22:58	58° 30,18' N	63° 8,52' W	146	Multibeam und ParaSound
MSM46/455-2	09.09.2015	23:21	58° 29,55' N	63° 9,01' W	250	CTD/rosette water sampler
MSM46/455-2	09.09.2015	23:39	58° 29,55' N	63° 9,01' W	249	CTD/rosette water sampler
MSM46/455-2	09.09.2015	23:46	58° 29,55' N	63° 9,01' W	248	CTD/rosette water sampler
MSM46/455-2	09.09.2015	23:57	58° 29,55' N	63° 9,01' W	258	CTD/rosette water sampler
MSM46/455-3	09.09.2015	23:57	58° 29,55' N	63° 9,01' W	258	Hydrophon
MSM46/455-3	10.09.2015	0:12	58° 29,55' N	63° 9,01' W	248	Hydrophon
MSM46/455-2	10.09.2015	0:20	58° 29,55' N	63° 9,01' W	248	CTD/rosette water sampler
MSM46/455-4	10.09.2015	0:25	58° 29,55' N	63° 9,02' W	248	Multi corer
MSM46/455-4	10.09.2015	0:34	58° 29,55' N	63° 9,02' W	258	Multi corer
MSM46/455-4	10.09.2015	0:42	58° 29,54' N	63° 9,02' W	248	Multi corer
MSM46/455-5	10.09.2015	0:59	58° 29,51' N	63° 9,04' W	258	Multi corer
MSM46/455-5	10.09.2015	1:08	58° 29,51' N	63° 9,04' W	247	Multi corer
MSM46/455-5	10.09.2015	1:16	58° 29,51' N	63° 9,04' W	247	Multi corer
MSM46/455-6	10.09.2015	1:33	58° 29,51' N	63° 9,03' W	248	Frahm Corer
MSM46/455-6	10.09.2015	1:47	58° 29,51' N	63° 9,04' W	248	Frahm Corer
MSM46/455-6	10.09.2015	1:54	58° 29,51' N	63° 9,04' W	247	Frahm Corer
MSM46/455-7	10.09.2015	2:22	58° 29,51' N	63° 9,03' W	248	Gravity corer
MSM46/455-7	10.09.2015	2:31	58° 29,51' N	63° 9,03' W	247	Gravity corer
MSM46/455-7	10.09.2015	2:52	58° 29,51' N	63° 9,03' W	248	Gravity corer
MSM46/456-1	11.09.2015	8:20	56° 47,56' N	52° 26,99' W	3502	Expendable bathythermograph
MSM46/456-2	11.09.2015	9:30	56° 46,40' N	52° 17,85' W	3527	Multibeam und ParaSound
MSM46/456-2	11.09.2015	9:35	56° 45,75' N	52° 18,08' W	3528	Multibeam und ParaSound
MSM46/456-2	11.09.2015	9:47	56° 46,06' N	52° 18,63' W	3527	Multibeam und ParaSound
MSM46/456-2	11.09.2015	9:54	56° 45,81' N	52° 17,09' W	3527	Multibeam und ParaSound
MSM46/456-3	11.09.2015	10:19	56° 46,03' N	52° 18,81' W	3525	CTD/rosette water sampler

MSM46/456-3	11.09.2015	11:21	56° 46,04' N	52° 18,81' W	3527	CTD/rosette water sampler
MSM46/456-3	11.09.2015	11:30	56° 46,04' N	52° 18,81' W	3527	CTD/rosette water sampler
MSM46/456-3	11.09.2015	11:43	56° 46,04' N	52° 18,81' W	3527	CTD/rosette water sampler
MSM46/456-3	11.09.2015	11:49	56° 46,03' N	52° 18,81' W	3527	CTD/rosette water sampler
MSM46/456-3	11.09.2015	12:33	56° 46,04' N	52° 18,81' W	3526	CTD/rosette water sampler
MSM46/456-4	11.09.2015	14:10	56° 37,21' N	52° 11,68' W	3542	Mooring
MSM46/456-4	11.09.2015	14:25	56° 37,28' N	52° 11,74' W	3543	Mooring
MSM46/456-4	11.09.2015	14:26	56° 37,29' N	52° 11,74' W	3543	Mooring
MSM46/456-4	11.09.2015	14:50	56° 37,58' N	52° 11,98' W	3543	Mooring
MSM46/456-4	11.09.2015	15:05	56° 37,78' N	52° 12,14' W	3542	Mooring
MSM46/456-4	11.09.2015	15:20	56° 38,01' N	52° 12,33' W	3540	Mooring
MSM46/456-4	11.09.2015	15:31	56° 38,23' N	52° 12,50' W	3542	Mooring
MSM46/456-4	11.09.2015	15:38	56° 38,34' N	52° 12,59' W	3541	Mooring
MSM46/456-4	11.09.2015	15:49	56° 38,54' N	52° 12,75' W	3540	Mooring
MSM46/456-4	11.09.2015	15:58	56° 38,76' N	52° 12,94' W	3540	Mooring
MSM46/456-4	11.09.2015	16:15	56° 39,19' N	52° 13,28' W	3540	Mooring
MSM46/456-4	11.09.2015	16:24	56° 39,46' N	52° 13,50' W	3540	Mooring
MSM46/456-4	11.09.2015	16:47	56° 40,11' N	52° 14,02' W	3537	Mooring
MSM46/456-4	11.09.2015	17:12	56° 40,53' N	52° 14,36' W	3538	Mooring
MSM46/456-4	11.09.2015	18:08	56° 41,14' N	52° 14,85' W	3537	Mooring
MSM46/456-4	11.09.2015	18:13	56° 41,18' N	52° 14,88' W	3541	Mooring
MSM46/456-4	11.09.2015	18:20	56° 41,23' N	52° 14,93' W	3537	Mooring
MSM46/456-4	11.09.2015	18:38	56° 41,37' N	52° 15,04' W	3537	Mooring
MSM46/456-4	11.09.2015	19:26	56° 41,79' N	52° 15,38' W	3537	Mooring
MSM46/456-4	11.09.2015	21:25	56° 44,20' N	52° 17,33' W	3534	Mooring
MSM46/456-4	11.09.2015	21:49	56° 44,43' N	52° 17,52' W	3531	Mooring
MSM46/456-5	11.09.2015	22:08	56° 44,68' N	52° 17,98' W	3530	CTD/rosette water sampler
MSM46/456-5	11.09.2015	22:14	56° 44,68' N	52° 17,98' W	3530	CTD/rosette water sampler
MSM46/456-6	11.09.2015	22:18	56° 44,68' N	52° 17,98' W	3531	Float
MSM46/456-5	11.09.2015	22:24	56° 44,68' N	52° 17,98' W	3530	CTD/rosette water sampler
MSM46/456-7	11.09.2015	22:32	56° 44,68' N	52° 17,98' W	3530	Float
MSM46/456-5	11.09.2015	22:51	56° 44,68' N	52° 17,98' W	3530	CTD/rosette water sampler
MSM46/456-5	11.09.2015	22:54	56° 44,68' N	52° 17,98' W	3530	CTD/rosette water sampler

MSM46/456-4	11.09.2015	23:00	56° 44,68' N	52° 17,98' W	0	Mooring
MSM46/456-4	11.09.2015	23:10	56° 44,68' N	52° 17,98' W	0	Mooring
MSM46/456-8	11.09.2015	23:42	56° 43,72' N	52° 17,76' W	3530	In situ pump
MSM46/456-8	11.09.2015	23:47	56° 43,72' N	52° 17,76' W	3530	In situ pump
MSM46/456-4	11.09.2015	23:48	56° 43,72' N	52° 17,76' W	3531	Mooring
MSM46/456-4	11.09.2015	23:54	56° 43,72' N	52° 17,76' W	3531	Mooring
MSM46/456-4	12.09.2015	0:24	56° 43,72' N	52° 17,76' W	3530	Mooring
MSM46/456-4	12.09.2015	2:12	56° 43,72' N	52° 17,76' W	3530	Mooring
MSM46/456-8	12.09.2015	6:02	56° 43,72' N	52° 17,76' W	0	In situ pump
MSM46/456-8	12.09.2015	6:07	56° 43,72' N	52° 17,76' W	3530	In situ pump
MSM46/456-4	12.09.2015	6:31	56° 44,27' N	52° 16,38' W	0	Mooring
MSM46/456-4	12.09.2015	6:32	56° 44,27' N	52° 16,38' W	0	Mooring
MSM46/456-4	12.09.2015	6:34	56° 44,27' N	52° 16,38' W	0	Mooring
MSM46/456-4	12.09.2015	6:41	56° 44,27' N	52° 16,38' W	0	Mooring
MSM46/456-4	12.09.2015	6:42	56° 44,27' N	52° 16,38' W	0	Mooring
MSM46/456-4	12.09.2015	6:46	56° 44,25' N	52° 16,38' W	3532	Mooring
MSM46/456-4	12.09.2015	6:49	56° 44,22' N	52° 16,37' W	3531	Mooring
MSM46/456-4	12.09.2015	6:52	56° 44,22' N	52° 16,39' W	0	Mooring
MSM46/456-4	12.09.2015	6:53	56° 44,22' N	52° 16,39' W	0	Mooring
MSM46/456-4	12.09.2015	6:59	56° 44,18' N	52° 16,36' W	3532	Mooring
MSM46/456-4	13.09.2015	0:36	56° 37,36' N	52° 17,55' W	3536	Mooring
MSM46/456-4	13.09.2015	0:48	56° 37,66' N	52° 17,94' W	3535	Mooring
MSM46/456-4	13.09.2015	1:31	56° 44,17' N	52° 17,79' W	0	Mooring
MSM46/456-4	13.09.2015	1:34	56° 44,18' N	52° 17,81' W	0	Mooring
MSM46/456-4	13.09.2015	1:51	56° 44,26' N	52° 17,88' W	0	Mooring
MSM46/456-4	13.09.2015	1:52	56° 44,25' N	52° 17,88' W	0	Mooring
MSM46/456-4	13.09.2015	2:01	56° 44,43' N	52° 17,59' W	0	Mooring
MSM46/456-4	13.09.2015	2:09	56° 44,37' N	52° 17,55' W	0	Mooring
MSM46/456-4	13.09.2015	2:21	56° 44,34' N	52° 17,54' W	0	Mooring
MSM46/456-4	13.09.2015	2:41	56° 44,59' N	52° 17,61' W	0	Mooring
MSM46/456-4	13.09.2015	2:48	56° 44,54' N	52° 17,57' W	0	Mooring
MSM46/456-4	13.09.2015	3:02	56° 44,02' N	52° 17,31' W	0	Mooring
MSM46/456-4	13.09.2015	3:25	56° 43,85' N	52° 17,47' W	0	Mooring
MSM46/456-4	13.09.2015	3:39	56° 43,76' N	52° 17,49' W	0	Mooring

MSM46/456-4	13.09.2015	3:42	56° 43,76' N	52° 17,47' W	0	Mooring
MSM46/456-4	13.09.2015	3:43	56° 43,76' N	52° 17,47' W	0	Mooring
MSM46/456-4	13.09.2015	3:50	56° 43,89' N	52° 17,60' W	0	Mooring
MSM46/456-4	13.09.2015	5:08	56° 43,91' N	52° 17,42' W	0	Mooring
MSM46/456-4	13.09.2015	5:18	56° 43,87' N	52° 17,54' W	0	Mooring
MSM46/456-4	13.09.2015	5:29	56° 43,84' N	52° 17,67' W	0	Mooring
MSM46/456-4	13.09.2015	5:52	56° 43,75' N	52° 17,74' W	0	Mooring
MSM46/456-4	13.09.2015	6:00	56° 43,71' N	52° 17,82' W	0	Mooring
MSM46/456-4	13.09.2015	6:05	56° 43,70' N	52° 17,83' W	0	Mooring
MSM46/456-4	13.09.2015	6:35	56° 43,61' N	52° 18,02' W	0	Mooring
MSM46/456-4	13.09.2015	6:48	56° 43,57' N	52° 17,99' W	0	Mooring
MSM46/456-4	13.09.2015	6:54	56° 43,55' N	52° 17,96' W	0	Mooring
MSM46/456-4	13.09.2015	7:02	56° 43,53' N	52° 17,94' W	0	Mooring
MSM46/456-4	13.09.2015	7:10	56° 43,52' N	52° 17,92' W	0	Mooring
MSM46/456-4	13.09.2015	7:19	56° 43,51' N	52° 17,91' W	0	Mooring
MSM46/456-4	13.09.2015	7:30	56° 43,49' N	52° 17,90' W	0	Mooring
MSM46/456-4	13.09.2015	7:44	56° 43,45' N	52° 17,92' W	0	Mooring
MSM46/456-4	13.09.2015	8:13	56° 43,37' N	52° 18,01' W	0	Mooring
MSM46/456-4	13.09.2015	9:06	56° 43,23' N	52° 18,09' W	0	Mooring
MSM46/456-4	13.09.2015	9:08	56° 43,23' N	52° 18,09' W	0	Mooring
MSM46/456-4	13.09.2015	9:15	56° 43,21' N	52° 18,11' W	0	Mooring
MSM46/456-4	13.09.2015	9:19	56° 43,20' N	52° 18,13' W	0	Mooring
MSM46/456-4	13.09.2015	9:20	56° 43,19' N	52° 18,13' W	0	Mooring
MSM46/457-1	14.09.2015	19:00	60° 51,38' N	64° 42,57' W	453	Expendable bathythermograph
MSM46/457-2	14.09.2015	19:51	60° 52,58' N	64° 59,95' W	204	Multibeam und ParaSound
MSM46/457-2	15.09.2015	1:28	60° 58,09' N	66° 31,75' W	187	Multibeam und ParaSound
MSM46/457-2	15.09.2015	3:28	61° 9,24' N	65° 49,65' W	413	Multibeam und ParaSound
MSM46/457-2	15.09.2015	7:22	60° 38,41' N	65° 48,75' W	277	Multibeam und ParaSound
MSM46/457-2	15.09.2015	8:26	60° 38,44' N	65° 31,85' W	417	Multibeam und ParaSound
MSM46/457-2	15.09.2015	12:11	61° 9,59' N	65° 31,13' W	416	Multibeam und ParaSound
MSM46/457-2	15.09.2015	13:25	61° 8,94' N	65° 12,67' W	549	Multibeam und ParaSound
MSM46/457-2	15.09.2015	16:17	60° 46,49' N	65° 12,68' W	945	Multibeam und ParaSound
MSM46/457-2	15.09.2015	16:59	60° 52,48' N	65° 9,02' W	302	Multibeam und ParaSound

MSM46/457-2	15.09.2015	19:40	60° 54,56' N	65° 52,75' W	157	Multibeam und ParaSound
MSM46/457-2	15.09.2015	20:00	60° 57,02' N	65° 53,18' W	451	Multibeam und ParaSound
MSM46/457-2	15.09.2015	20:54	61° 1,29' N	66° 12,07' W	418	Multibeam und ParaSound
MSM46/457-2	15.09.2015	21:27	61° 3,10' N	66° 20,27' W	325	Multibeam und ParaSound
MSM46/457-2	15.09.2015	23:53	60° 48,76' N	65° 36,23' W	284	Multibeam und ParaSound
MSM46/457-2	16.09.2015	0:36	60° 48,65' N	65° 24,70' W	255	Multibeam und ParaSound
MSM46/457-2	16.09.2015	0:46	60° 49,12' N	65° 24,67' W	317	Multibeam und ParaSound
MSM46/457-2	16.09.2015	1:32	60° 49,21' N	65° 36,15' W	285	Multibeam und ParaSound
MSM46/457-2	16.09.2015	1:42	60° 49,73' N	65° 36,08' W	403	Multibeam und ParaSound
MSM46/457-2	16.09.2015	2:24	60° 49,73' N	65° 24,50' W	290	Multibeam und ParaSound
MSM46/457-2	16.09.2015	3:13	60° 50,25' N	65° 35,85' W	201	Multibeam und ParaSound
MSM46/457-2	16.09.2015	4:06	60° 50,73' N	65° 24,45' W	132	Multibeam und ParaSound
MSM46/457-2	16.09.2015	4:57	60° 51,27' N	65° 36,23' W	341	Multibeam und ParaSound
MSM46/457-2	16.09.2015	5:51	60° 51,75' N	65° 24,27' W	58,2	Multibeam und ParaSound
MSM46/457-2	16.09.2015	6:41	60° 52,03' N	65° 35,99' W	185	Multibeam und ParaSound
MSM46/457-2	16.09.2015	7:36	60° 51,50' N	65° 24,47' W	270	Multibeam und ParaSound
MSM46/457-2	16.09.2015	8:31	60° 50,93' N	65° 36,63' W	645	Multibeam und ParaSound
MSM46/458-1	16.09.2015	10:15	60° 53,57' N	65° 31,07' W	436	CTD/rosette water sampler
MSM46/458-1	16.09.2015	11:01	60° 53,95' N	65° 31,31' W	944	CTD/rosette water sampler
MSM46/458-1	16.09.2015	11:58	60° 53,88' N	65° 32,32' W	943	CTD/rosette water sampler
MSM46/458-3	16.09.2015	12:11	60° 53,88' N	65° 32,24' W	944	Secchi disc
MSM46/458-3	16.09.2015	12:17	60° 53,88' N	65° 32,21' W	944	Secchi disc
MSM46/458-4	16.09.2015	12:38	60° 53,88' N	65° 32,15' W	944	CTD/rosette water sampler
MSM46/458-4	16.09.2015	12:50	60° 53,84' N	65° 31,96' W	947	CTD/rosette water sampler
MSM46/458-4	16.09.2015	13:02	60° 53,77' N	65° 31,87' W	948	CTD/rosette water sampler
MSM46/458-5	16.09.2015	13:14	60° 53,75' N	65° 31,90' W	948	Satlantic Lichtsonde
MSM46/458-5	16.09.2015	13:25	60° 53,61' N	65° 31,78' W	949	Satlantic Lichtsonde
MSM46/458-6	16.09.2015	14:16	60° 53,52' N	65° 31,14' W	223	Multi corer
MSM46/458-6	16.09.2015	14:41	60° 53,52' N	65° 31,14' W	955	Multi corer
MSM46/458-6	16.09.2015	15:01	60° 53,52' N	65° 31,14' W	952	Multi corer
MSM46/458-7	16.09.2015	15:10	60° 53,53' N	65° 31,15' W	951	Box corer
MSM46/458-7	16.09.2015	15:28	60° 53,53' N	65° 31,15' W	951	Box corer
MSM46/458-7	16.09.2015	15:47	60° 53,53' N	65° 31,15' W	950	Box corer

MSM46/459-1	16.09.2015	17:03	60° 48,66' N	65° 31,12' W	881	Box corer
MSM46/459-1	16.09.2015	17:19	60° 48,68' N	65° 30,99' W	880	Box corer
MSM46/459-1	16.09.2015	17:40	60° 48,73' N	65° 30,70' W	883	Box corer
MSM46/460-1	16.09.2015	19:14	60° 55,80' N	65° 53,44' W	888	Box corer
MSM46/460-1	16.09.2015	19:33	60° 55,81' N	65° 53,38' W	888	Box corer
MSM46/460-1	16.09.2015	19:55	60° 55,84' N	65° 53,42' W	892	Box corer
MSM46/461-1	16.09.2015	21:14	61° 3,39' N	66° 22,41' W	784	Multibeam und ParaSound
MSM46/461-1	17.09.2015	3:14	61° 12,82' N	68° 0,14' W	451	Multibeam und ParaSound
MSM46/462-1	17.09.2015	10:46	61° 18,37' N	71° 2,52' W	201	Multibeam und ParaSound
MSM46/462-1	17.09.2015	10:54	61° 17,74' N	71° 4,32' W	199	Multibeam und ParaSound
MSM46/462-1	17.09.2015	11:07	61° 17,38' N	71° 3,01' W	182	Multibeam und ParaSound
MSM46/462-1	17.09.2015	11:17	61° 18,58' N	71° 4,10' W	200	Multibeam und ParaSound
MSM46/462-2	17.09.2015	11:36	61° 18,01' N	71° 3,68' W	207	CTD/rosette water sampler
MSM46/462-2	17.09.2015	11:54	61° 18,00' N	71° 3,68' W	208	CTD/rosette water sampler
MSM46/462-2	17.09.2015	12:00	61° 18,00' N	71° 3,68' W	208	CTD/rosette water sampler
MSM46/462-2	17.09.2015	12:12	61° 18,00' N	71° 3,69' W	209	CTD/rosette water sampler
MSM46/462-2	17.09.2015	12:18	61° 18,00' N	71° 3,69' W	209	CTD/rosette water sampler
MSM46/462-3	17.09.2015	12:29	61° 17,97' N	71° 3,81' W	208	Satlantic Lichtsonde
MSM46/462-3	17.09.2015	12:40	61° 17,85' N	71° 4,15' W	206	Satlantic Lichtsonde
MSM46/462-4	17.09.2015	12:41	61° 17,85' N	71° 4,18' W	206	Secchi disc
MSM46/462-4	17.09.2015	12:44	61° 17,82' N	71° 4,26' W	205	Secchi disc
MSM46/462-5	17.09.2015	13:06	61° 17,82' N	71° 3,45' W	51,2	Box corer
MSM46/462-5	17.09.2015	13:12	61° 17,82' N	71° 3,45' W	207	Box corer
MSM46/462-5	17.09.2015	13:17	61° 17,82' N	71° 3,45' W	208	Box corer
MSM46/462-6	17.09.2015	13:30	61° 17,81' N	71° 3,44' W	209	Box corer
MSM46/462-6	17.09.2015	13:34	61° 17,81' N	71° 3,45' W	208	Box corer
MSM46/462-6	17.09.2015	13:40	61° 17,81' N	71° 3,45' W	209	Box corer
MSM46/462-7	17.09.2015	13:51	61° 17,81' N	71° 3,44' W	208	Frahm Corer
MSM46/462-7	17.09.2015	13:58	61° 17,81' N	71° 3,44' W	207	Frahm Corer
MSM46/462-7	17.09.2015	14:05	61° 17,81' N	71° 3,44' W	208	Frahm Corer
MSM46/462-8	17.09.2015	14:18	61° 17,81' N	71° 3,45' W	209	Gravity corer
MSM46/462-8	17.09.2015	14:24	61° 17,81' N	71° 3,45' W	210	Gravity corer
MSM46/462-8	17.09.2015	14:40	61° 17,81' N	71° 3,45' W	209	Gravity corer

MSM46/463-1	18.09.2015	6:09	63° 2,95' N	74° 18,29' W	78	Multibeam und ParaSound
MSM46/463-1	18.09.2015	6:15	63° 3,01' N	74° 19,39' W	75,6	Multibeam und ParaSound
MSM46/463-1	18.09.2015	6:26	63° 3,11' N	74° 18,92' W	77,3	Multibeam und ParaSound
MSM46/463-1	18.09.2015	6:29	63° 2,84' N	74° 18,85' W	71	Multibeam und ParaSound
MSM46/463-2	18.09.2015	6:46	63° 2,96' N	74° 18,90' W	75,7	CTD/rosette water sampler
MSM46/463-2	18.09.2015	7:04	63° 2,97' N	74° 19,00' W	426	CTD/rosette water sampler
MSM46/463-2	18.09.2015	7:11	63° 2,96' N	74° 19,07' W	425	CTD/rosette water sampler
MSM46/463-2	18.09.2015	7:23	63° 2,94' N	74° 19,06' W	425	CTD/rosette water sampler
MSM46/463-2	18.09.2015	7:31	63° 2,94' N	74° 19,08' W	425	CTD/rosette water sampler
MSM46/463-3	18.09.2015	7:51	63° 2,98' N	74° 18,65' W	426	Box corer
MSM46/463-3	18.09.2015	8:00	63° 2,97' N	74° 18,67' W	425	Box corer
MSM46/463-3	18.09.2015	8:10	63° 2,97' N	74° 18,67' W	425	Box corer
MSM46/463-4	18.09.2015	8:19	63° 2,98' N	74° 18,67' W	425	Box corer
MSM46/463-4	18.09.2015	8:28	63° 2,97' N	74° 18,69' W	425	Box corer
MSM46/463-4	18.09.2015	8:39	63° 2,97' N	74° 18,68' W	425	Box corer
MSM46/463-5	18.09.2015	8:53	63° 2,97' N	74° 18,70' W	426	Gravity corer
MSM46/463-5	18.09.2015	9:08	63° 2,96' N	74° 18,68' W	424	Gravity corer
MSM46/463-5	18.09.2015	9:22	63° 2,94' N	74° 18,66' W	423	Gravity corer
MSM46/463-6	18.09.2015	11:49	63° 2,98' N	74° 18,70' W	425	Gravity corer
MSM46/463-6	18.09.2015	12:03	63° 2,97' N	74° 18,66' W	424	Gravity corer
MSM46/463-6	18.09.2015	12:16	63° 2,98' N	74° 18,66' W	426	Gravity corer
MSM46/463-7	18.09.2015	12:38	63° 2,98' N	74° 18,73' W	425	Satlantic Lichtsonde
MSM46/463-8	18.09.2015	12:58	63° 3,12' N	74° 18,48' W	427	Secchi disc
MSM46/463-7	18.09.2015	12:58	63° 3,12' N	74° 18,48' W	427	Satlantic Lichtsonde
MSM46/463-8	18.09.2015	13:03	63° 3,17' N	74° 18,41' W	356	Secchi disc
MSM46/464-1	18.09.2015	23:19	62° 45,27' N	78° 53,16' W	410	Multibeam und ParaSound
MSM46/464-1	18.09.2015	23:44	62° 45,44' N	79° 0,21' W	391	Multibeam und ParaSound
MSM46/465-1	19.09.2015	0:12	62° 45,45' N	79° 0,08' W	392	CTD/rosette water sampler
MSM46/465-1	19.09.2015	0:35	62° 45,45' N	79° 0,06' W	393	CTD/rosette water sampler
MSM46/465-1	19.09.2015	0:45	62° 45,45' N	79° 0,04' W	392	CTD/rosette water sampler
MSM46/465-2	19.09.2015	0:48	62° 45,45' N	79° 0,02' W	392	CTD/rosette water sampler
MSM46/465-2	19.09.2015	1:06	62° 45,47' N	79° 0,07' W	393	CTD/rosette water sampler
MSM46/465-2	19.09.2015	1:16	62° 45,46' N	79° 0,02' W	324	CTD/rosette water sampler

MSM46/465-3	19.09.2015	1:22	62° 45,46' N	79° 0,02' W	393	In situ pump
MSM46/465-3	19.09.2015	1:27	62° 45,46' N	79° 0,02' W	393	In situ pump
MSM46/465-3	19.09.2015	7:36	62° 45,47' N	79° 0,03' W	396	In situ pump
MSM46/465-3	19.09.2015	7:36	62° 45,47' N	79° 0,03' W	396	In situ pump
MSM46/464-1	19.09.2015	8:12	62° 45,44' N	79° 0,55' W	392	Multibeam und ParaSound
MSM46/464-1	19.09.2015	12:22	62° 47,68' N	80° 12,54' W	285	Multibeam und ParaSound
MSM46/466-1	19.09.2015	13:13	62° 48,93' N	79° 56,93' W	289	Multibeam und ParaSound
MSM46/466-1	19.09.2015	16:27	62° 47,29' N	79° 1,07' W	374	Multibeam und ParaSound
MSM46/466-1	19.09.2015	16:42	62° 45,34' N	79° 0,02' W	392	Multibeam und ParaSound
MSM46/466-1	19.09.2015	18:13	62° 45,58' N	79° 26,30' W	336	Multibeam und ParaSound
MSM46/466-1	19.09.2015	18:24	62° 44,97' N	79° 26,85' W	336	Multibeam und ParaSound
MSM46/466-1	19.09.2015	20:16	62° 44,46' N	78° 54,45' W	402	Multibeam und ParaSound
MSM46/466-1	19.09.2015	20:26	62° 43,95' N	78° 54,91' W	396	Multibeam und ParaSound
MSM46/466-1	19.09.2015	22:15	62° 44,32' N	79° 26,26' W	336	Multibeam und ParaSound
MSM46/466-1	19.09.2015	22:25	62° 43,79' N	79° 26,32' W	336	Multibeam und ParaSound
MSM46/466-1	20.09.2015	0:11	62° 43,37' N	78° 55,60' W	388	Multibeam und ParaSound
MSM46/466-1	20.09.2015	0:24	62° 42,79' N	78° 56,10' W	379	Multibeam und ParaSound
MSM46/466-1	20.09.2015	2:10	62° 43,12' N	79° 26,52' W	334	Multibeam und ParaSound
MSM46/466-1	20.09.2015	4:00	62° 42,23' N	78° 56,97' W	380	Multibeam und ParaSound
MSM46/466-1	20.09.2015	5:51	62° 41,97' N	79° 26,70' W	334	Multibeam und ParaSound
MSM46/466-1	20.09.2015	7:36	62° 41,13' N	78° 58,44' W	391	Multibeam und ParaSound
MSM46/466-1	20.09.2015	7:46	62° 40,51' N	78° 58,94' W	397	Multibeam und ParaSound
MSM46/466-1	20.09.2015	9:21	62° 40,78' N	79° 26,10' W	333	Multibeam und ParaSound
MSM46/466-1	20.09.2015	9:32	62° 40,19' N	79° 26,22' W	330	Multibeam und ParaSound
MSM46/466-1	20.09.2015	11:02	62° 39,87' N	79° 0,05' W	400	Multibeam und ParaSound
MSM46/466-1	20.09.2015	11:13	62° 39,35' N	79° 0,54' W	413	Multibeam und ParaSound
MSM46/466-1	20.09.2015	12:44	62° 39,62' N	79° 26,59' W	324	Multibeam und ParaSound
MSM46/467-1	20.09.2015	13:45	62° 46,67' N	79° 9,84' W	355	Multibeam und ParaSound
MSM46/467-1	20.09.2015	14:40	62° 46,18' N	78° 53,35' W	403	Multibeam und ParaSound
MSM46/468-1	20.09.2015	14:56	62° 45,43' N	78° 55,66' W	407	Satlantic Lichtsonde
MSM46/468-1	20.09.2015	15:25	62° 45,43' N	78° 58,35' W	399	Satlantic Lichtsonde
MSM46/468-2	20.09.2015	15:27	62° 45,44' N	78° 58,34' W	400	Secchi disc
MSM46/468-2	20.09.2015	15:28	62° 45,44' N	78° 58,34' W	400	Secchi disc

MSM46/468-3	20.09.2015	15:36	62° 45,41' N	78° 58,41' W	399	CTD/rosette water sampler
MSM46/468-3	20.09.2015	15:58	62° 45,39' N	78° 58,45' W	398	CTD/rosette water sampler
MSM46/468-3	20.09.2015	16:05	62° 45,39' N	78° 58,44' W	399	CTD/rosette water sampler
MSM46/468-3	20.09.2015	16:18	62° 45,39' N	78° 58,44' W	399	CTD/rosette water sampler
MSM46/468-3	20.09.2015	16:27	62° 45,39' N	78° 58,44' W	399	CTD/rosette water sampler
MSM46/468-4	20.09.2015	16:32	62° 45,39' N	78° 58,45' W	399	Box corer
MSM46/468-4	20.09.2015	16:41	62° 45,39' N	78° 58,44' W	398	Box corer
MSM46/468-5	20.09.2015	16:54	62° 45,39' N	78° 58,45' W	399	Box corer
MSM46/468-4	20.09.2015	16:54	62° 45,39' N	78° 58,45' W	399	Box corer
MSM46/468-5	20.09.2015	17:14	62° 45,39' N	78° 58,44' W	399	Box corer
MSM46/468-5	20.09.2015	17:24	62° 45,39' N	78° 58,45' W	399	Box corer
MSM46/468-6	20.09.2015	17:34	62° 45,40' N	78° 58,44' W	398	Gravity corer
MSM46/468-6	20.09.2015	17:43	62° 45,40' N	78° 58,44' W	398	Gravity corer
MSM46/468-6	20.09.2015	18:05	62° 45,40' N	78° 58,44' W	398	Gravity corer
MSM46/468-7	20.09.2015	18:07	62° 45,40' N	78° 58,43' W	398	Box corer
MSM46/468-7	20.09.2015	18:17	62° 45,40' N	78° 58,43' W	398	Box corer
MSM46/468-7	20.09.2015	18:29	62° 45,40' N	78° 58,43' W	399	Box corer
MSM46/468-8	20.09.2015	18:43	62° 45,41' N	78° 58,42' W	398	Box corer
MSM46/468-8	20.09.2015	18:50	62° 45,41' N	78° 58,42' W	399	Box corer
MSM46/468-8	20.09.2015	19:06	62° 45,41' N	78° 58,42' W	396	Box corer
MSM46/468-9	20.09.2015	19:14	62° 45,42' N	78° 58,42' W	399	Box corer
MSM46/468-9	20.09.2015	19:23	62° 45,42' N	78° 58,43' W	395	Box corer
MSM46/468-9	20.09.2015	19:35	62° 45,41' N	78° 58,43' W	397	Box corer
MSM46/468-10	20.09.2015	20:01	62° 45,39' N	78° 58,44' W	395	Gravity corer
MSM46/468-10	20.09.2015	20:13	62° 45,39' N	78° 58,44' W	396	Gravity corer
MSM46/468-10	20.09.2015	20:30	62° 45,39' N	78° 58,44' W	398	Gravity corer
MSM46/469-1	20.09.2015	21:17	62° 45,45' N	78° 57,56' W	401	Multibeam und ParaSound
MSM46/469-1	20.09.2015	21:43	62° 45,12' N	79° 4,53' W	378	Multibeam und ParaSound
MSM46/470-1	20.09.2015	22:10	62° 45,16' N	79° 3,83' W	381	Box corer
MSM46/470-1	20.09.2015	22:19	62° 45,16' N	79° 3,83' W	381	Box corer
MSM46/470-1	20.09.2015	22:30	62° 45,16' N	79° 3,83' W	382	Box corer
MSM46/470-2	20.09.2015	22:40	62° 45,16' N	79° 3,82' W	382	Gravity corer
MSM46/470-2	20.09.2015	22:51	62° 45,16' N	79° 3,82' W	382	Gravity corer
MSM46/470-2	20.09.2015	23:07	62° 45,16' N	79° 3,82' W	382	Gravity corer

MSM46/471-1	20.09.2015	23:57	62° 45,90' N	79° 0,28' W	394	Gravity corer
MSM46/471-1	21.09.2015	0:05	62° 45,90' N	79° 0,27' W	345	Gravity corer
MSM46/471-1	21.09.2015	0:29	62° 45,90' N	79° 0,26' W	394	Gravity corer
MSM46/472-1	22.09.2015	4:47	61° 6,22' N	66° 41,53' W	736	Box corer
MSM46/472-1	22.09.2015	5:02	61° 6,22' N	66° 41,52' W	736	Box corer
MSM46/472-1	22.09.2015	5:19	61° 6,22' N	66° 41,52' W	736	Box corer
MSM46/472-2	22.09.2015	5:35	61° 6,22' N	66° 41,52' W	736	Box corer
MSM46/472-2	22.09.2015	5:50	61° 6,21' N	66° 41,51' W	739	Box corer
MSM46/472-2	22.09.2015	6:07	61° 6,21' N	66° 41,51' W	739	Box corer
MSM46/472-3	22.09.2015	6:20	61° 6,21' N	66° 41,50' W	734	Gravity corer
MSM46/472-3	22.09.2015	6:34	61° 6,21' N	66° 41,50' W	737	Gravity corer
MSM46/472-3	22.09.2015	7:11	61° 6,21' N	66° 41,50' W	735	Gravity corer
MSM46/473-1	22.09.2015	22:00	59° 20,19' N	63° 0,12' W	147	CTD/rosette water sampler
MSM46/473-1	22.09.2015	22:15	59° 20,19' N	63° 0,10' W	145	CTD/rosette water sampler
MSM46/473-1	22.09.2015	22:20	59° 20,17' N	63° 0,07' W	144	CTD/rosette water sampler
MSM46/473-1	22.09.2015	22:28	59° 20,15' N	63° 0,04' W	146	CTD/rosette water sampler
MSM46/473-1	22.09.2015	22:35	59° 20,13' N	63° 0,01' W	143	CTD/rosette water sampler
MSM46/473-1	22.09.2015	22:39	59° 20,12' N	63° 0,01' W	145	Box corer
MSM46/473-1	22.09.2015	22:43	59° 20,12' N	63° 0,01' W	143	Box corer
MSM46/473-1	22.09.2015	22:51	59° 20,13' N	63° 0,01' W	144	Box corer
MSM46/474-1	23.09.2015	2:23	58° 46,34' N	62° 22,09' W	162	CTD/rosette water sampler
MSM46/474-1	23.09.2015	2:38	58° 46,34' N	62° 22,09' W	160	CTD/rosette water sampler
MSM46/474-1	23.09.2015	2:42	58° 46,34' N	62° 22,09' W	160	CTD/rosette water sampler
MSM46/474-1	23.09.2015	2:50	58° 46,34' N	62° 22,09' W	161	CTD/rosette water sampler
MSM46/474-1	23.09.2015	2:58	58° 46,34' N	62° 22,09' W	161	CTD/rosette water sampler
MSM46/475-1	23.09.2015	7:54	59° 3,11' N	63° 36,89' W	167	Multibeam und ParaSound
MSM46/475-1	23.09.2015	8:08	59° 2,98' N	63° 40,31' W	163	Multibeam und ParaSound
MSM46/475-1	23.09.2015	8:15	59° 2,63' N	63° 39,30' W	136	Multibeam und ParaSound
MSM46/475-1	23.09.2015	8:21	59° 3,22' N	63° 39,02' W	166	Multibeam und ParaSound
MSM46/475-2	23.09.2015	8:34	59° 3,01' N	63° 38,92' W	165	CTD/rosette water sampler
MSM46/475-2	23.09.2015	8:47	59° 3,00' N	63° 38,97' W	165	CTD/rosette water sampler
MSM46/475-2	23.09.2015	8:53	59° 3,00' N	63° 38,99' W	165	CTD/rosette water sampler
MSM46/475-2	23.09.2015	9:06	59° 3,00' N	63° 38,99' W	165	CTD/rosette water sampler

MSM46/475-2	23.09.2015	9:14	59° 3,00' N	63° 38,99' W	165	CTD/rosette water sampler
MSM46/475-3	23.09.2015	9:18	59° 3,00' N	63° 38,99' W	165	Box corer
MSM46/475-3	23.09.2015	9:25	59° 3,00' N	63° 38,99' W	165	Box corer
MSM46/475-3	23.09.2015	9:31	59° 3,00' N	63° 38,99' W	165	Box corer
MSM46/475-4	23.09.2015	10:23	59° 3,00' N	63° 38,99' W	165	Box corer
MSM46/475-4	23.09.2015	10:29	59° 3,00' N	63° 38,99' W	165	Box corer
MSM46/475-4	23.09.2015	10:35	59° 3,00' N	63° 38,99' W	165	Box corer
MSM46/475-5	23.09.2015	10:43	59° 2,99' N	63° 39,00' W	165	Gravity corer
MSM46/475-5	23.09.2015	10:50	59° 3,00' N	63° 39,00' W	165	Gravity corer
MSM46/475-6	23.09.2015	10:53	59° 3,00' N	63° 39,00' W	165	Satlantic Lichtsonde
MSM46/475-5	23.09.2015	11:02	59° 2,99' N	63° 39,00' W	165	Gravity corer
MSM46/475-6	23.09.2015	11:06	59° 3,00' N	63° 39,00' W	165	Satlantic Lichtsonde
MSM46/475-7	23.09.2015	11:07	59° 3,00' N	63° 39,00' W	165	Secchi disc
MSM46/475-7	23.09.2015	11:09	59° 3,00' N	63° 39,00' W	165	Secchi disc
MSM46/476-1	23.09.2015	11:18	59° 2,94' N	63° 39,84' W	163	Multibeam und ParaSound
MSM46/476-1	23.09.2015	16:00	59° 3,77' N	63° 8,84' W	61	Multibeam und ParaSound
MSM46/477-1	24.09.2015	18:49	54° 33,94' N	56° 43,32' W	158	CTD/rosette water sampler
MSM46/477-2	24.09.2015	18:54	54° 33,94' N	56° 43,34' W	160	Secchi disc
MSM46/477-2	24.09.2015	18:56	54° 33,95' N	56° 43,35' W	157	Secchi disc
MSM46/477-1	24.09.2015	19:04	54° 33,95' N	56° 43,34' W	156	CTD/rosette water sampler
MSM46/477-1	24.09.2015	19:09	54° 33,95' N	56° 43,34' W	158	CTD/rosette water sampler
MSM46/477-1	24.09.2015	19:18	54° 33,95' N	56° 43,34' W	158	CTD/rosette water sampler
MSM46/477-1	24.09.2015	19:26	54° 33,95' N	56° 43,34' W	157	CTD/rosette water sampler

Leitstelle Deutsche Forschungsschiffe

Anlage zum Short Cruise Report

Schiffsname: M.S.Merian

Reise Nr. MSM 046 / Abschnitt: 1/2

Anzahl der eingeschifften Personen insgesamt	26
davon Wissenschaftler	9
davon Techniker	8
davon Studenten	9
davon Sonstige (z.B. Journalisten, Politiker, Schüler)	-
davon Beobachter für Staat xy	-
davon Universitätsmitarbeiter	10
davon Mitarbeiter von außeruniversitären Forschungsinstitutionen (z.B. MPG, BSH, DOD)	14
davon Mitarbeiter von Firmen für Wissenschaft	2
davon Techniker / Service für das Schiff	-
davon Mitarbeiter ausländischer Institutionen/ Staat xy	10 Kanada, 1 Polen, 1 USA
davon Fachgebiet physikalische Ozeanographie/ Meteorologie	3
davon Fachgebiet Biologie/Biogeochemie/Chemie	4
davon Fachgebiet Geologie/Geophysik	12
davon Andere (Fachgebiet benennen)	Messtechnik 4, Meereschemie 3
davon Frauen	11
davon Männer	15
Einsatz von Großgeräten: z.B. ROV, AUV, MeBo, Rockdrill, Kompressorcontainer	Seacycler, Sinkstofffalle, Schwerelot
Einsatz von Winden und Drähten: z.B. LWL, Einleiter, Dredgedraht	Einleiter, 12 mm Last-Draht