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Short Cruise Report

R/V MARIA S. MERIAN Cruise MSM 76

Reykjavik – Longyearbyen
August 11 – September 11, 2018

Chief Scientist: Torsten Kanzow
Captain: Ralf Schmidt

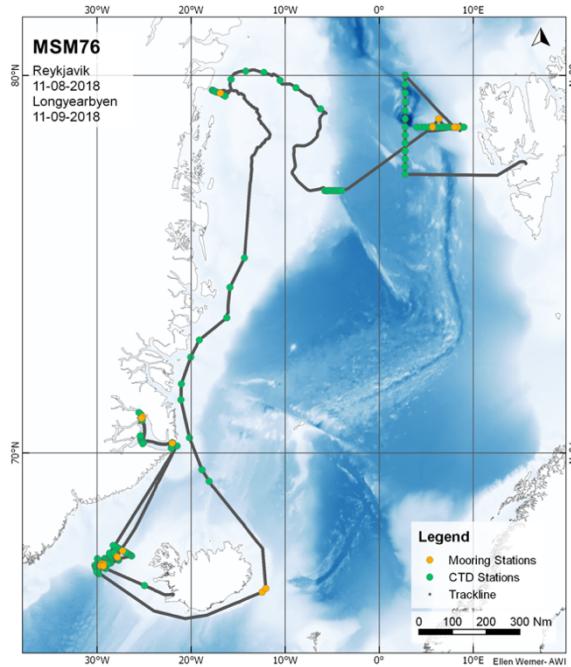


Fig. 1: Cruise track (grey lines) and CTD stations (green dots) as well as mooring stations (orange dots) during the expedition MSM 76.

Objectives

The entrainment of ambient water into the Denmark Strait Overflow (DSO) exiting the Nordic Seas has been found to be most effective within the first 100 – 200 km downstream of the Greenland-Scotland Ridge, where warm Atlantic Water and cold East Greenland shelf water are mixed into the plume. Neither the processes and locations of intense mixing, nor the pathways of dense water on the Greenland shelf have been well-captured by observations so far. During the expedition we (1) continued the monitoring of the DSO transport at the sill of Demark Strait using moorings; (2) carried out a process study in the region of intense mixing, and (3) studied the subsurface circulation of Atlantic Water on the shelf of Northeast Greenland in particular in Scoresby Sound and close to the 79°N Glacier, and (4) continued to monitoring of the circulation of Atlantic Water in the West Spitsbergen Current at the transition between the Nordic Seas and the Arctic Ocean in Fram Strait.

Narrative

In the early afternoon of 11 August the research vessel Maria S. Merian left the port of Reykjavik to start the MSM 76 expedition “Nordic Seas Exchanges”. On board there were scientists from the Alfred-Wegener-Institute for Polar and Marine Research, and from the Universities of Hamburg, Delaware (USA) and Bremen. Our work area included Denmark Strait between Iceland and Greenland, the shelf of East Greenland and Fram Strait at the transition from the Nordic Seas and the Arctic Ocean.

On 13 August we reached our work area in Denmark Strait. Six moorings were deployed near 29°30'W in the DSO plume and intense hydrographic section work was carried out along the pathway of the DSO plume within 90 nm from the sill in Denmark Strait. We also recovered and – after servicing the sensors – redeployed a mooring operated by Hamburg University at the sill of Denmark Strait, where moorings have been maintained continuously since 1996 for the monitoring of the strength of the DSO. In the evening of 20 August we left the work area after a one day-long transit across the shelf of East Greenland at the mouth of Scoresby Sound, across which we carried out a hydrographic section. We continued our voyage into Scoresby Sound, and arrived at the transition to the narrow Nordvest Fjord in the afternoon of 21 August. Surveys using echosounder and the CTD / LADCP system suggested the existence of two possible passages for the bottom intensified throughflow of Atlantic Water. In the afternoon of 22 August we deployed two moorings (one in each passage). Next morning we headed back to the mouth of Scoresby Sound, where we deployed a third mooring for the continuous observation of the Atlantic Water circulation.

After another one-day transit we returned to Denmark Strait. Here we successfully recovered two moorings deployed on the deep overflow plume one year ago. On August 25 we first failed to recover a third mooring, while later in the afternoon and during the subsequent morning all six moorings deployed during the first days of our expedition were recovered successfully. The work in Denmark Strait ended with the conduction of continuous water mass and ocean current surveys at an isolated rise located right in the flow path of the overflow plume.

On 29 August we successfully recovered two PIES, which had been deployed on the Iceland-Faroe Ridge in order to observe a possible pathway of overflow of dense water from the Nordic Seas toward the Atlantic. On 31 August we reached the shelf of Greenland and conducted occasional hydrographic measurements on our transit to the north. We reached the entry to the embayment of the 79°N Glacier on 3 September. We found the bay filled by compact sea ice, such that there was no possibility for us to move further onshore in order to recover a mooring located right at the calving front. We repeated a hydrographic survey across Windwind Trough and deployed in it, that shall observe continuously the circulation changes of the Atlantic Water for the duration of one year. Favorable sea ice condition on 5 September allowed us to conduct a survey of the strength and hydrographic structure of the East Greenland Current.

In the afternoon of 6 September we began our work on the eastern side of Fram Strait in the area of the West Spitsbergen Current. In the following days, AWI's long-term moorings were serviced during daytime and hydrographic measurements were conducted during nighttime. We succeeded in recovering three moorings that had been sampling the

strength and structure of the West Spitsbergen Current for two years. A fourth mooring at the shelf break could not be recovered. In order to maintain the observatory, four moorings were re-deployed.

After completion of the mooring and hydrographic work along the 79°N section, we carried out hydrographic section along the 002°45'E meridian over a distance of 120 nautical miles to capture the part of the warm waters that recirculate within Fram Strait. On 11 September our expedition came to an end in the port of Longyearbyen.

Acknowledgements

I am looking back with joy on a very successful expedition. Our time on board has been highly enjoyable owing to both the spirit and professionalism of all parts of the crew of R/V Maria S. Merian and to the impressive engagement and solidarity among the scientific participants.

Teilnehmerliste

Name / Name	Task	Institut/Institute
1. Torsten Kanzow	Fahrtleiter / Chief Scientist	AWI
2. Stylianos Kritsotakis	Mooring Data	UHB
3. Andreas Münchow	vessel-based data	UDEL
4. Luisa von Albedyll	CTD Watch Leader	AWI
5. Julius Lauber	CTD Watch	UHH
6. Alena Zippel	CTD Watch	AWI
7. Ali Mubashshir	CTD Watch	AWI
8. Sunke Trace-Kleeburg	CTD Watch	AWI
9. Mara Muchow	CTD Watch	UHH
10. Frederike Benz	Oxygen sampling	UHH
11. Simon Wett	Leader Oxygen sampling	UHH
12. Andreas Welsch	CTD Technology	UHH
13. Ulrich Drübbisch	Moorings	UHH
14. Cassandra Elmer	Moorings	UDEL
15. Dragonfly Leathrum-Simons	vessel-based data	UDEL
16. Matthias Monsees	Moorings	AWI
17. David Kuhlmeier	Moorings	AWI
18. Ellen Werner	Bathymetry	AWI

AWI: Alfred-Wegener-Institute
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UHB: Universität Bremen
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UHH: Universität Hamburg
CEN Centrum für Erdsystemforschung und Nachhaltigkeit
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UDEL: University of Delaware
112A Robinson Hall
Newark, DE 19716
United States

Stationsliste									
Cruise_StationNr_-CastNr	Device	Date(dd.mm.yy yy) Time (HH:mm, UTC)	Action	Latitude	Longitude	Depth [m]	max. depth CTD [m]	Depth above bottom [m]	Comments
MSM76_1-1	RO/CTD/ADCP	11.08.18 20:08	[in the water	64° 34.978'N	024° 58.157'W	241,7			
MSM76_1-1	RO/CTD/ADCP	11.08.18 20:20	max. depth	64° 34.977'N	024° 58.155'W	239,2		14,8	max. depth not noted
MSM76_1-1	RO/CTD/ADCP	11.08.18 20:33	on deck	64° 34.978'N	024° 58.156'W	241			salt and oxygen sampled for calibration
MSM76_2-1	RO/CTD/ADCP	12.08.18 06:34	[in the water	65° 21.080'N	029° 06.353'W	1404,2			
MSM76_2-1	RO/CTD/ADCP	12.08.18 07:05	max. depth	65° 21.082'N	029° 06.348'W	1405,6		13,7	max. depth not noted
MSM76_2-1	RO/CTD/ADCP	12.08.18 07:39	on deck	65° 21.084'N	029° 06.346'W	1403,9			salt and oxygen sampled for calibration
MSM76_3-1	RO/CTD/ADCP	12.08.18 08:17	[in the water	65° 24.177'N	029° 12.438'W	1331,5			
MSM76_3-1	RO/CTD/ADCP	12.08.18 08:47	max. depth	65° 24.179'N	029° 12.436'W	1331,5	1310	15	
MSM76_3-1	RO/CTD/ADCP	12.08.18 09:16	on deck	65° 24.344'N	029° 12.254'W	1329,1			salt and oxygen sampled for calibration
MSM76_4-1	RO/CTD/ADCP	12.08.18 09:50	[in the water	65° 26.079'N	029° 16.321'W	1245,1			
MSM76_4-1	RO/CTD/ADCP	12.08.18 10:18	max. depth	65° 26.085'N	029° 16.312'W	1245,3	1231	14,9	
MSM76_4-1	RO/CTD/ADCP	12.08.18 10:46	on deck	65° 26.083'N	029° 16.306'W	1244,1			salt and oxygen sampled for calibration
MSM76_5-1	RO/CTD/ADCP	12.08.18 11:26	[in the water	65° 28.007'N	029° 20.158'W	1122,3			
MSM76_5-1	RO/CTD/ADCP	12.08.18 11:53	max. depth	65° 28.004'N	029° 20.138'W	1119,8	1104	19	
MSM76_5-1	RO/CTD/ADCP	12.08.18 12:20	on deck	65° 28.005'N	029° 20.137'W	1121			salt and oxygen sampled for calibration
MSM76_6-1	RO/CTD/ADCP	12.08.18 13:05	[in the water	65° 29.917'N	029° 23.955'W	988,9			
MSM76_6-1	RO/CTD/ADCP	12.08.18 13:33	max. depth	65° 29.951'N	029° 24.037'W	987	909		depth above bottom not noted
MSM76_6-1	RO/CTD/ADCP	12.08.18 13:58	on deck	65° 29.945'N	029° 24.330'W	985,8			salt and oxygen sampled for calibration
MSM76_7-1	RO/CTD/ADCP	12.08.18 14:37	[in the water	65° 31.822'N	029° 27.779'W	858,3			
MSM76_7-1	RO/CTD/ADCP	12.08.18 15:04	max. depth	65° 31.823'N	029° 28.340'W	852,6	822,2	36	
MSM76_7-1	RO/CTD/ADCP	12.08.18 15:27	on deck	65° 31.792'N	029° 29.094'W	847,1			salt and oxygen sampled for calibration
MSM76_8-1	RO/CTD/ADCP	12.08.18 16:51	[in the water	65° 33.745'N	029° 31.658'W	700,2			x-pods attached
MSM76_8-1	RO/CTD/ADCP	12.08.18 17:09	max. depth	65° 33.749'N	029° 32.147'W	690,7	662,3	31,6	
MSM76_8-1	RO/CTD/ADCP	12.08.18 17:30	on deck	65° 33.710'N	029° 32.958'W	677,5			salt and oxygen sampled for calibration
MSM76_9-1	MOOR	12.08.18 18:46	start	65° 27.460'N	029° 22.686'W	1111,3			
MSM76_9-1	MOOR	12.08.18 19:53	deployed	65° 27.600'N	029° 19.170'W	1145,5			DS-C-18, short-term mooring
MSM76_10-1	MOOR	12.08.18 20:40	deployed	65° 28.339'N	029° 34.712'W	936,2			DS-A-18, ADCP mooring, short-term mooring
MSM76_11-1	RO/CTD/ADCP	12.08.18 20:58	[in the water	65° 28.550'N	029° 34.268'W	930,2			x-pods attached
MSM76_11-1	RO/CTD/ADCP	12.08.18 21:23	max. depth	65° 28.655'N	029° 34.656'W	918,6	896	17	
MSM76_11-1	RO/CTD/ADCP	12.08.18 21:49	on deck	65° 28.850'N	029° 35.502'W	901,7			salt and oxygen sampled for calibration
MSM76_12-1	MOOR	12.08.18 22:15	start	65° 28.579'N	029° 35.391'W	914,2			
MSM76_12-1	MOOR	12.08.18 22:44	deployed	65° 28.537'N	029° 34.205'W	929,5			DS-E-18, short-term mooring
MSM76_13-1	RO/CTD/ADCP	13.08.18 00:25	[in the water	65° 35.707'N	029° 35.481'W	434			x-pods attached
MSM76_13-1	RO/CTD/ADCP	13.08.18 00:37	max. depth	65° 35.705'N	029° 35.482'W	434,8	425	13,7	
MSM76_13-1	RO/CTD/ADCP	13.08.18 00:53	on deck	65° 35.707'N	029° 35.482'W	434,2			salt and oxygen sampled for calibration
MSM76_14-1	RO/CTD/ADCP	13.08.18 01:30	[in the water	65° 37.621'N	029° 39.400'W	362,4			x-pods attached
MSM76_14-1	RO/CTD/ADCP	13.08.18 01:41	max. depth	65° 37.620'N	029° 39.403'W	360,4	353	12,6	
MSM76_14-1	RO/CTD/ADCP	13.08.18 01:55	on deck	65° 37.620'N	029° 39.399'W	362,2			salt sampled for calibration
MSM76_15-1	RO/CTD/ADCP	13.08.18 02:36	[in the water	65° 39.554'N	029° 43.256'W	338,4			x-pods attached
MSM76_15-1	RO/CTD/ADCP	13.08.18 02:46	max. depth	65° 39.555'N	029° 43.258'W	339,5	320	15,7	
MSM76_15-1	RO/CTD/ADCP	13.08.18 02:59	on deck	65° 39.554'N	029° 43.259'W	338,7			salt and oxygen sampled for calibration
MSM76_16-1	RO/CTD/ADCP	13.08.18 05:11	[in the water	65° 24.164'N	029° 12.471'W	1325			x-pods attached
MSM76_16-1	RO/CTD/ADCP	13.08.18 05:40	max. depth	65° 24.162'N	029° 12.465'W	1324,2	1309,8	20,2	
MSM76_16-1	RO/CTD/ADCP	13.08.18 06:11	on deck	65° 24.164'N	029° 12.470'W	1324,6			salt sampled for calibration
MSM76_17-1	RO/CTD/ADCP	13.08.18 06:39	[in the water	65° 26.083'N	029° 16.311'W	1244,4			x-pods attached
MSM76_17-1	RO/CTD/ADCP	13.08.18 07:06	max. depth	65° 26.084'N	029° 16.308'W	1246,5	1231,5	13,5	
MSM76_17-1	RO/CTD/ADCP	13.08.18 07:38	on deck	65° 26.082'N	029° 16.308'W	1244,3			salt and oxygen sampled for calibration
MSM76_18-1	RO/CTD/ADCP	13.08.18 08:08	[in the water	65° 28.893'N	029° 17.439'W	1130,4			x-pods attached
MSM76_18-1	RO/CTD/ADCP	13.08.18 08:35	max. depth	65° 28.892'N	029° 17.437'W	1128	15		max. depth not noted
MSM76_18-1	RO/CTD/ADCP	13.08.18 08:57	on deck	65° 28.890'N	029° 17.436'W	1129,5			
MSM76_19-1	RO/CTD/ADCP	13.08.18 09:35	[in the water	65° 29.925'N	029° 23.973'W	988,1			x-pods attached
MSM76_19-1	RO/CTD/ADCP	13.08.18 09:59	max. depth	65° 29.936'N	029° 23.976'W	987,9	974	18,2	
MSM76_19-1	RO/CTD/ADCP	13.08.18 10:26	on deck	65° 29.935'N	029° 23.976'W	988,3			salt and oxygen sampled for calibration
MSM76_20-1	RO/CTD/ADCP	13.08.18 11:16	[in the water	65° 33.776'N	029° 31.666'W	697			x-pods attached
MSM76_20-1	RO/CTD/ADCP	13.08.18 11:36	max. depth	65° 33.773'N	029° 31.664'W	696,4	15		max. depth not noted
MSM76_20-1	RO/CTD/ADCP	13.08.18 11:51	on deck	65° 33.773'N	029° 31.664'W	696,7			
MSM76_20-2	MOOR	13.08.18 12:10	start	65° 33.770'N	029° 32.415'W	682,8			
MSM76_20-2	MOOR	13.08.18 12:34	deployed	65° 33.772'N	029° 31.676'W	697,4			DS-B-18, short-term mooring
MSM76_21-1	MOOR	13.08.18 12:58	deployed	65° 34.274'N	029° 30.411'W	692,5			DS-F-18, ADCP mooring, short-term mooring
MSM76_22-1	MOOR	13.08.18 14:40	start	65° 32.601'N	029° 18.630'W	971			
MSM76_22-1	MOOR	13.08.18 15:05	deployed	65° 32.602'N	029° 17.798'W	971,5			DS-D-18, short-term mooring
MSM76_23-1	VmADCP	13.08.18 17:03	profile start	65° 42.458'N	028° 33.660'W	958			true course= 352°
MSM76_23-1	VmADCP	13.08.18 18:51	alter course	66° 02.122'N	028° 39.991'W	383,8			true course= 049°
MSM76_23-1	VmADCP	13.08.18 19:48	alter course	66° 08.151'N	028° 20.896'W	435,5			true course= 148°
MSM76_23-1	VmADCP	13.08.18 20:54	continue profile	65° 58.734'N	028° 06.320'W	474			
MSM76_23-1	VmADCP	13.08.18 21:35	continue profile	65° 58.631'N	028° 06.350'W	476,1			
MSM76_23-1	VmADCP	13.08.18 21:59	continue profile	65° 56.617'N	028° 02.962'W	526,5			
MSM76_23-1	VmADCP	13.08.18 22:37	continue profile	65° 56.487'N	028° 02.983'W	528,3			
MSM76_23-1	VmADCP	13.08.18 22:58	continue profile	65° 54.593'N	027° 59.746'W	573,9			
MSM76_23-1	VmADCP	13.08.18 23:36	continue profile	65° 54.428'N	027° 59.693'W	590,8			
MSM76_23-1	VmADCP	14.08.18 00:00	continue profile	65° 52.507'N	027° 56.362'W	622,9			
MSM76_23-1	VmADCP	14.08.18 00:41	continue profile	65° 52.397'N	027° 56.350'W	631,8			
MSM76_23-1	VmADCP	14.08.18 01:02	continue profile	65° 50.347'N	027° 53.050'W	691			
MSM76_23-1	VmADCP	14.08.18 01:51	continue profile	65° 50.260'N	027° 53.227'W	691,6			
MSM76_23-1	VmADCP	14.08.18 02:14	continue profile	65° 48.270'N	027° 49.704'W	740,2			
MSM76_23-1	VmADCP	14.08.18 03:01	continue profile	65° 48.207'N	027° 49.781'W				no depth information
MSM76_23-1	VmADCP	14.08.18 03:25	continue profile	65° 46.073'N	027° 46.277'W	7307			
MSM76_23-1	VmADCP	14.08.18 04:12	continue profile	65° 46.165'N	027° 46.325'W	7314			
MSM76_23-1	VmADCP	14.08.18 07:31	continue profile	65° 53.984'N	026° 20.015'W	2806			
MSM76_23-1	VmADCP	14.08.18 07:57	continue profile	65° 53.991'N	026° 20.022'W	2814			
MSM76_23-1	VmADCP	14.08.18 08:33	continue profile	65° 56.532'N	026° 30.639'W	2829			
MSM76_23-1	VmADCP	14.08.18 09:06	continue profile	65° 56.517'N	026° 30.623'W	2840			
MSM76_23-1	VmADCP	14.08.18 09:33	continue profile	65° 57.781'N	026° 36.028'W	2829			
MSM76_23-1	VmADCP	14.08.18 10:04	continue profile	65° 57.973'N	026° 36.337'W	2752			
MSM76_23-1	VmADCP	14.08.18 10:25	continue profile	65° 59.038'N	026° 41.375'W	2869			
MSM76_23-1	VmADCP	14.08.18 10:54	continue profile	65° 59.221'N	026° 41.301'W	2894			
MSM76_23-1	VmADCP	14.08.18 11:25	continue profile	66° 00.317'N	026° 46.626'W	3856			
MSM76_23-1	VmADCP	14.08.18 11:54	continue profile	66° 00.670'N	026° 46.421'W	4007			
MSM76_23-1	VmADCP	14.08.18 12:23	continue profile	66° 01.567'N	026° 51.795'W	5159			
MSM76_23-1	VmADCP	14.08.18 13:06	continue profile	66° 02.056'N	026° 51.227'W	5255			
MSM76_23-1	VmADCP	14.08.18 13:40	continue profile	66° 02.761'N	026° 57.178'W	5904			
MSM76_23-1	VmADCP	14.08.18 14:20	continue profile	66° 03.205'N	026° 56.492'W	5922			
MSM76_23-1	VmADCP	14.08.18 14:46</td							

MSM76_23-1	VmADCP	14.08.18 21:15	continue profile	66° 10.242'N 027° 29.053'W	4826		
MSM76_23-1	VmADCP	14.08.18 21:40	continue profile	66° 11.547'N 027° 34.522'W	4844		
MSM76_23-1	VmADCP	14.08.18 22:19	continue profile	66° 11.551'N 027° 34.526'W	4848		
MSM76_23-1	VmADCP	14.08.18 22:45	continue profile	66° 12.828'N 027° 39.822'W	4842		
MSM76_23-1	VmADCP	14.08.18 23:27	continue profile	66° 12.811'N 027° 39.813'W	4844		
MSM76_23-1	VmADCP	14.08.18 23:55	continue profile	66° 14.071'N 027° 45.244'W	4745		
MSM76_23-1	VmADCP	15.08.18 00:35	continue profile	66° 14.068'N 027° 45.241'W	4745		
MSM76_23-1	VmADCP	15.08.18 01:04	continue profile	66° 15.311'N 027° 50.537'W	4491		
MSM76_23-1	VmADCP	15.08.18 02:13	continue profile	66° 15.300'N 027° 50.423'W	4586		
MSM76_23-1	VmADCP	15.08.18 02:44	continue profile	66° 16.572'N 027° 55.958'W	4303		
MSM76_23-1	VmADCP	15.08.18 03:16	continue profile	66° 16.572'N 027° 55.944'W	4299		
MSM76_23-1	VmADCP	15.08.18 03:58	continue profile	66° 19.067'N 028° 06.702'W	3380		
MSM76_23-1	VmADCP	15.08.18 04:31	continue profile	66° 19.151'N 028° 06.525'W	3427		
MSM76_23-1	VmADCP	15.08.18 05:06	profile end	66° 21.591'N 028° 17.472'W	3296		
MSM76_24-1	RO/CTD/ADCP	13.08.18 21:03	In the water	65° 58.754'N 028° 06.266'W	4746	x-pods attached	
MSM76_24-1	RO/CTD/ADCP	13.08.18 21:17	max. depth	65° 58.762'N 028° 06.242'W	4736	460	18,4
MSM76_24-1	RO/CTD/ADCP	13.08.18 21:34	on deck	65° 58.640'N 028° 06.344'W	4753		salt and oxygen sampled for calibration
MSM76_25-1	RO/CTD/ADCP	13.08.18 22:08	In the water	65° 56.621'N 028° 02.981'W	5263		x-pods attached
MSM76_25-1	RO/CTD/ADCP	13.08.18 22:24	max. depth	65° 56.574'N 028° 02.983'W	5272		16,1 max. depth not noted
MSM76_25-1	RO/CTD/ADCP	13.08.18 22:36	on deck	65° 56.493'N 028° 02.982'W	5332		
MSM76_26-1	RO/CTD/ADCP	13.08.18 23:00	In the water	65° 54.589'N 027° 59.725'W	5733		x-pods attached
MSM76_26-1	RO/CTD/ADCP	13.08.18 23:17	max. depth	65° 54.512'N 027° 59.663'W	5751	570	15,8
MSM76_26-1	RO/CTD/ADCP	13.08.18 23:35	max. depth	65° 54.430'N 027° 59.692'W	5772		salt and oxygen sampled for calibration
MSM76_27-1	RO/CTD/ADCP	13.08.18 00:02	In the water	65° 52.500'N 027° 56.365'W	6238		x-pods attached
MSM76_27-1	RO/CTD/ADCP	14.08.18 00:19	max. depth	65° 52.436'N 027° 56.358'W	6299	615	13
MSM76_27-1	RO/CTD/ADCP	14.08.18 00:37	on deck	65° 52.398'N 027° 56.352'W	6301		salt sampled for calibration
MSM76_28-1	RO/CTD/ADCP	14.08.18 01:10	In the water	65° 50.343'N 027° 53.080'W	6928		x-pods attached
MSM76_28-1	RO/CTD/ADCP	14.08.18 01:30	max. depth	65° 50.329'N 027° 53.108'W	6918	669	17,5
MSM76_28-1	RO/CTD/ADCP	14.08.18 01:49	on deck	65° 50.270'N 027° 53.251'W	6917		salt and oxygen sampled for calibration
MSM76_29-1	RO/CTD/ADCP	14.08.18 02:19	In the water	65° 48.260'N 027° 49.721'W	7398		x-pods attached
MSM76_29-1	RO/CTD/ADCP	14.08.18 02:37	max. depth	65° 48.267'N 027° 49.696'W	7401	714	22,3
MSM76_29-1	RO/CTD/ADCP	14.08.18 02:58	on deck	65° 48.217'N 027° 49.830'W	7381		salt sampled for calibration
MSM76_30-1	RO/CTD/ADCP	14.08.18 03:33	In the water	65° 46.060'N 027° 46.322'W	7330		x-pods attached
MSM76_30-1	RO/CTD/ADCP	14.08.18 03:51	max. depth	65° 46.108'N 027° 46.490'W	7339	718	20
MSM76_30-1	RO/CTD/ADCP	14.08.18 04:11	on deck	65° 46.165'N 027° 46.327'W	7317		salt and oxygen sampled for calibration
MSM76_31-1	RO/CTD/ADCP	14.08.18 07:33	In the water	65° 53.987'N 026° 20.021'W	2818		x-pods attached
MSM76_31-1	RO/CTD/ADCP	14.08.18 07:44	max. depth	65° 53.994'N 026° 20.026'W	2814	271,3	14,8
MSM76_31-1	RO/CTD/ADCP	14.08.18 07:56	on deck	65° 53.992'N 026° 20.022'W	2815		salt sampled for calibration
MSM76_32-1	RO/CTD/ADCP	14.08.18 08:39	In the water	65° 55.516'N 026° 30.622'W	2829		x-pods attached
MSM76_32-1	RO/CTD/ADCP	14.08.18 08:52	max. depth	65° 55.516'N 026° 30.624'W	2826	273	15,1
MSM76_32-1	RO/CTD/ADCP	14.08.18 09:05	on deck	65° 55.517'N 026° 30.620'W	2834		salt and oxygen sampled for calibration
MSM76_33-1	RO/CTD/ADCP	14.08.18 09:36	In the water	65° 57.773'N 026° 36.016'W	2817		x-pods attached
MSM76_33-1	RO/CTD/ADCP	14.08.18 09:47	max. depth	65° 57.800'N 026° 36.060'W	2811	296,7	14,8
MSM76_33-1	RO/CTD/ADCP	14.08.18 09:59	on deck	65° 57.855'N 026° 36.140'W	2747		salt sampled for calibration
MSM76_34-1	RO/CTD/ADCP	14.08.18 10:29	In the water	65° 59.034'N 026° 41.355'W	2880		x-pods attached
MSM76_34-1	RO/CTD/ADCP	14.08.18 10:40	max. depth	65° 59.087'N 026° 41.361'W	2919	277	14,1
MSM76_34-1	RO/CTD/ADCP	14.08.18 10:54	on deck	65° 59.221'N 026° 41.301'W	2894		salt and oxygen sampled for calibration
MSM76_35-1	RO/CTD/ADCP	14.08.18 11:23	In the water	66° 00.308'N 026° 46.629'W	3856		x-pods attached
MSM76_35-1	RO/CTD/ADCP	14.08.18 11:36	max. depth	66° 00.426'N 026° 46.570'W	3887	383	15,3
MSM76_35-1	RO/CTD/ADCP	14.08.18 11:53	on deck	66° 00.665'N 026° 46.428'W	4005		salt and oxygen sampled for calibration
MSM76_36-1	RO/CTD/ADCP	14.08.18 12:30	In the water	66° 01.573'N 026° 51.794'W	5155		x-pods attached
MSM76_36-1	RO/CTD/ADCP	14.08.18 12:44	max. depth	66° 01.753'N 026° 51.696'W	5181	501	21
MSM76_36-1	RO/CTD/ADCP	14.08.18 13:01	on deck	66° 02.054'N 026° 51.241'W	5267		salt and oxygen sampled for calibration
MSM76_37-1	RO/CTD/ADCP	14.08.18 13:42	In the water	66° 02.761'N 026° 57.184'W	5907		x-pods attached
MSM76_37-1	RO/CTD/ADCP	14.08.18 13:59	max. depth	66° 02.945'N 026° 56.896'W	5931	576	17,9
MSM76_37-1	RO/CTD/ADCP	14.08.18 14:18	on deck	66° 03.198'N 026° 56.501'W	5929		salt sampled for calibration
MSM76_38-1	RO/CTD/ADCP	14.08.18 14:49	In the water	66° 04.020'N 027° 02.510'W	6410		x-pods attached
MSM76_38-1	RO/CTD/ADCP	14.08.18 15:05	max. depth	66° 04.174'N 027° 02.269'W	6425	621,6	18,6
MSM76_38-1	RO/CTD/ADCP	14.08.18 15:25	on deck	66° 04.395'N 027° 01.927'W	6428		salt and oxygen sampled for calibration
MSM76_39-1	RO/CTD/ADCP	14.08.18 16:02	In the water	66° 05.279'N 027° 07.656'W	6414		x-pods attached
MSM76_39-1	RO/CTD/ADCP	14.08.18 16:20	max. depth	66° 05.278'N 027° 07.656'W	6419	624,6	14,6
MSM76_39-1	RO/CTD/ADCP	14.08.18 16:37	on deck	66° 05.280'N 027° 07.652'W	6427		salt sampled for calibration
MSM76_40-1	RO/CTD/ADCP	14.08.18 17:11	In the water	66° 06.541'N 027° 13.190'W	6103		x-pods attached
MSM76_40-1	RO/CTD/ADCP	14.08.18 17:27	max. depth	66° 06.538'N 027° 13.184'W	6034	581,1	29,1
MSM76_40-1	RO/CTD/ADCP	14.08.18 17:46	on deck	66° 06.480'N 027° 13.279'W	6064		salt and oxygen sampled for calibration
MSM76_41-1	RO/CTD/ADCP	14.08.18 18:37	In the water	66° 07.785'N 027° 18.454'W	5201		x-pods attached
MSM76_41-1	RO/CTD/ADCP	14.08.18 18:52	max. depth	66° 07.782'N 027° 18.473'W	5207	502,7	23,5
MSM76_41-1	RO/CTD/ADCP	14.08.18 19:09	on deck	66° 07.739'N 027° 18.597'W	5229		salt and oxygen sampled for calibration
MSM76_42-1	RO/CTD/ADCP	14.08.18 19:44	In the water	66° 09.034'N 027° 23.845'W	4846		x-pods attached
MSM76_42-1	RO/CTD/ADCP	14.08.18 19:58	max. depth	66° 09.034'N 027° 23.851'W	4839	471,3	depth above bottom not noted
MSM76_42-1	RO/CTD/ADCP	14.08.18 20:16	on deck	66° 08.953'N 027° 24.037'W	4840		salt and oxygen sampled for calibration
MSM76_43-1	RO/CTD/ADCP	14.08.18 20:44	In the water	66° 10.241'N 027° 29.049'W	4812		x-pods attached
MSM76_43-1	RO/CTD/ADCP	14.08.18 20:59	max. depth	66° 10.242'N 027° 29.048'W	4816	467	15,9
MSM76_43-1	RO/CTD/ADCP	14.08.18 21:14	on deck	66° 10.243'N 027° 29.052'W	4829		salt sampled for calibration
MSM76_44-1	RO/CTD/ADCP	14.08.18 21:45	In the water	66° 11.551'N 027° 34.527'W	4843		x-pods attached
MSM76_44-1	RO/CTD/ADCP	14.08.18 22:00	max. depth	66° 11.552'N 027° 34.525'W	4845	469,8	14,7
MSM76_44-1	RO/CTD/ADCP	14.08.18 22:18	on deck	66° 11.550'N 027° 34.525'W	4839		salt and oxygen sampled for calibration
MSM76_45-1	RO/CTD/ADCP	14.08.18 22:57	In the water	66° 12.793'N 027° 39.820'W	4844		x-pods attached
MSM76_45-1	RO/CTD/ADCP	14.08.18 23:12	max. depth	66° 12.810'N 027° 39.813'W	4843	471,3	14,9
MSM76_45-1	RO/CTD/ADCP	14.08.18 23:27	on deck	66° 12.811'N 027° 39.813'W	4849		salt sampled for calibration
MSM76_46-1	RO/CTD/ADCP	14.08.18 23:58	In the water	66° 14.068'N 027° 45.240'W	4748		x-pods attached
MSM76_46-1	RO/CTD/ADCP	15.08.18 00:12	max. depth	66° 14.067'N 027° 45.243'W	4752	462	15,2
MSM76_46-1	RO/CTD/ADCP	15.08.18 00:29	on deck	66° 14.069'N 027° 45.242'W	4739		salt and oxygen sampled for calibration
MSM76_47-1	RO/CTD/ADCP	15.08.18 01:42	In the water	66° 15.297'N 027° 50.421'W	4589		x-pods attached
MSM76_47-1	RO/CTD/ADCP	15.08.18 01:55	max. depth	66° 15.300'N 027° 50.422'W	4589	452	5,9
MSM76_47-1	RO/CTD/ADCP	15.08.18 02:11	on deck	66° 15.299'N 027° 50.427'W	4588		salt sampled for calibration
MSM76_48-1	RO/CTD/ADCP	15.08.18 02:45	In the water	66° 16.570'N 027° 55.965'W	4302		x-pods attached
MSM76_48-1	RO/CTD/ADCP	15.08.18 02:59	max. depth	66° 16.570'N 027° 55.955'W	4291	418	15,9
MSM76_48-1	RO/CTD/ADCP	15.08.18 03:13	on deck	66° 16.572'N 027° 55.957'W	4297		salt and oxygen sampled for calibration
MSM76_49-1	RO/CTD/ADCP	15.08.18 04:03	In the water	66° 19.064'N 028° 06.702'W	3379		x-pods attached
MSM76_49-1	RO/CTD/ADCP	15.08.18 04:14	max. depth	66° 19.068'N 028° 06.698'W	3382	325,3	13,6
MSM76_49-1	RO/CTD/ADCP	15.08.18 04:28	on deck	66° 19.066'N 028° 06.697'W	3382		salt sampled for calibration
MSM76_50-1	RO/CTD/ADCP	15.08.18 05:09	In the water	66° 21.588'N 028° 17.478'W	3295		x-pods attached
MSM76_50-1	RO/CTD/ADCP	15.08.18 05:19	max. depth	66° 21.590'N 028° 17.472'W	3296	320,5	12,4
MSM76_50-1	RO/CTD/ADCP	15.08.18 05:29	on deck	66° 21.589'N 028° 17.471'W	3285		salt and oxygen sampled for calibration
MSM76_51-1	MOOR	15.08.18 08:42	released	66° 07.018'N 027° 17.431'W	5650		
MSM76_51-1	MOOR	15.08.18 08:45	at surface	66° 07.005'N 027° 17.468'W	5650		
MSM76_51-1	MOOR	15.08.18 08:59	recovered	66° 07.276'N 027° 16.852'W	5650		DS-2-17
MSM76_52-1	MOOR	15.08.18 11:24	begin dredging	66° 03.358'N 026° 59.327'W	6231		
MSM76_52-1	MOOR	15.08.18 14:38	course 050°, begin dredging	66° 02.962'N 027° 00.334'W			

MSM76_54-1	MOOR	15.08.18 19:40	deployed	66° 07.294'N 027° 16.729'W	5656		DS2-18, ADCP mooring
MSM76_55-1	RO/CTD/ADCP	15.08.18 21:53	in the water	66° 02.696'N 028° 12.144'W	4646		x-pods attached
MSM76_55-1	RO/CTD/ADCP	15.08.18 22:09	max. depth	66° 02.599'N 028° 12.166'W	4660	451	15
MSM76_55-1	RO/CTD/ADCP	15.08.18 22:23	on deck	66° 02.457'N 028° 12.199'W	4656		salt sampled for calibration
MSM76_56-1	RO/CTD/ADCP	15.08.18 23:19	in the water	65° 58.743'N 028° 06.223'W	4700		x-pods attached
MSM76_56-1	RO/CTD/ADCP	15.08.18 23:34	max. depth	65° 58.693'N 028° 06.152'W	4740	463,3	15,7
MSM76_56-1	RO/CTD/ADCP	15.08.18 23:52	on deck	65° 58.560'N 028° 05.856'W	4803		salt and oxygen sampled for calibration
MSM76_57-1	RO/CTD/ADCP	16.08.18 00:28	in the water	65° 56.635'N 028° 02.916'W	5221		x-pods attached
MSM76_57-1	RO/CTD/ADCP	16.08.18 00:41	max. depth	65° 56.570'N 028° 02.770'W	5230	510	15,7
MSM76_57-1	RO/CTD/ADCP	16.08.18 00:57	on deck	65° 56.432'N 028° 02.485'W	5254		
MSM76_58-1	RO/CTD/ADCP	16.08.18 01:30	in the water	65° 54.548'N 027° 59.627'W	5719		x-pods attached
MSM76_58-1	RO/CTD/ADCP	16.08.18 01:44	max. depth	65° 54.455'N 027° 59.402'W	5767	563	14,6
MSM76_58-1	RO/CTD/ADCP	16.08.18 02:02	on deck	65° 54.301'N 027° 59.082'W	5817		salt and oxygen sampled for calibration
MSM76_59-1	RO/CTD/ADCP	16.08.18 02:41	in the water	65° 52.442'N 027° 56.359'W	6197		x-pods attached
MSM76_59-1	RO/CTD/ADCP	16.08.18 02:56	max. depth	65° 52.351'N 027° 56.170'W	6301		17,1
MSM76_59-1	RO/CTD/ADCP	16.08.18 03:13	on deck	65° 52.154'N 027° 55.760'W	6346		max. depth not noted
MSM76_60-1	RO/CTD/ADCP	16.08.18 03:44	in the water	65° 50.341'N 027° 53.100'W	6829		x-pods attached
MSM76_60-1	RO/CTD/ADCP	16.08.18 04:00	max. depth	65° 50.241'N 027° 52.876'W	6851	674	17,9
MSM76_60-1	RO/CTD/ADCP	16.08.18 04:19	on deck	65° 50.094'N 027° 52.878'W	6894		salt and oxygen sampled for calibration
MSM76_61-1	RO/CTD/ADCP	16.08.18 04:46	in the water	65° 48.215'N 027° 49.785'W	7324		x-pods attached
MSM76_61-1	RO/CTD/ADCP	16.08.18 05:05	max. depth	65° 48.099'N 027° 49.855'W	7340	723,9	15,6
MSM76_61-1	RO/CTD/ADCP	16.08.18 05:26	on deck	65° 47.963'N 027° 49.944'W	7342		salt sampled for calibration
MSM76_62-1	RO/CTD/ADCP	16.08.18 05:55	in the water	65° 46.095'N 027° 46.506'W	7344		x-pods attached
MSM76_62-1	RO/CTD/ADCP	16.08.18 06:12	max. depth	65° 45.984'N 027° 46.550'W	7354		depth above bottom not noted
MSM76_62-1	RO/CTD/ADCP	16.08.18 06:31	on deck	65° 45.851'N 027° 46.602'W	7376		salt and oxygen sampled for calibration
MSM76_63-1	RO/CTD/ADCP	16.08.18 07:10	in the water	65° 43.113'N 027° 43.325'W	6706		x-pods attached
MSM76_63-1	RO/CTD/ADCP	16.08.18 07:26	max. depth	65° 43.114'N 027° 43.323'W	6701	662,5	15
MSM76_63-1	RO/CTD/ADCP	16.08.18 07:45	on deck	65° 43.114'N 027° 43.323'W	6694		salt sampled for calibration
MSM76_64-1	RO/CTD/ADCP	16.08.18 09:56	in the water	65° 35.842'N 028° 32.501'W	10274		x-pods attached
MSM76_64-1	RO/CTD/ADCP	16.08.18 10:21	max. depth	65° 35.843'N 028° 32.499'W	10291	1017	13
MSM76_64-1	RO/CTD/ADCP	16.08.18 10:49	on deck	65° 35.843'N 028° 32.501'W	10280		salt and oxygen sampled for calibration
MSM76_65-1	RO/CTD/ADCP	16.08.18 11:17	in the water	65° 38.676'N 028° 33.024'W	10552		x-pods attached
MSM76_65-1	RO/CTD/ADCP	16.08.18 11:42	max. depth	65° 38.676'N 028° 33.023'W	10540	1041	15,3
MSM76_65-1	RO/CTD/ADCP	16.08.18 12:08	on deck	65° 38.677'N 028° 33.026'W	10555		salt sampled for calibration
MSM76_66-1	RO/CTD/ADCP	16.08.18 12:42	in the water	65° 41.109'N 028° 33.803'W	9973		x-pods attached
MSM76_66-1	RO/CTD/ADCP	16.08.18 13:04	max. depth	65° 41.110'N 028° 33.802'W	9990	981	19
MSM76_66-1	RO/CTD/ADCP	16.08.18 13:27	on deck	65° 41.110'N 028° 33.802'W	9974		salt and oxygen sampled for calibration
MSM76_67-1	RO/CTD/ADCP	16.08.18 13:59	in the water	65° 43.628'N 028° 34.771'W	9191		x-pods attached
MSM76_67-1	RO/CTD/ADCP	16.08.18 14:18	max. depth	65° 43.629'N 028° 34.769'W	9184	903	16,8
MSM76_67-1	RO/CTD/ADCP	16.08.18 14:42	on deck	65° 43.628'N 028° 34.770'W	9177		
MSM76_68-1	RO/CTD/ADCP	16.08.18 15:11	in the water	65° 46.095'N 028° 35.621'W	8127		x-pods attached
MSM76_68-1	RO/CTD/ADCP	16.08.18 15:30	max. depth	65° 46.099'N 028° 35.620'W	8118	800	18,1
MSM76_68-1	RO/CTD/ADCP	16.08.18 15:49	on deck	65° 45.987'N 028° 35.741'W	8208		salt and oxygen sampled for calibration
MSM76_69-1	RO/CTD/ADCP	16.08.18 16:26	in the water	65° 48.558'N 028° 36.516'W	6611		x-pods attached
MSM76_69-1	RO/CTD/ADCP	16.08.18 16:43	max. depth	65° 48.496'N 028° 36.608'W	6644	653,7	16,3
MSM76_69-1	RO/CTD/ADCP	16.08.18 17:01	on deck	65° 48.391'N 028° 36.757'W	6693		
MSM76_70-1	RO/CTD/ADCP	16.08.18 17:32	in the water	65° 51.035'N 028° 37.340'W	5684		x-pods attached
MSM76_70-1	RO/CTD/ADCP	16.08.18 17:46	max. depth	65° 50.994'N 028° 37.414'W	5706	558,7	15,8
MSM76_70-1	RO/CTD/ADCP	16.08.18 18:04	max. depth	65° 50.852'N 028° 37.653'W	5712		salt and oxygen sampled for calibration
MSM76_71-1	RO/CTD/ADCP	16.08.18 18:36	in the water	65° 53.518'N 028° 38.197'W	5064		x-pods attached
MSM76_71-1	RO/CTD/ADCP	16.08.18 18:48	max. depth	65° 53.480'N 028° 38.272'W	5061	490,1	15,6
MSM76_71-1	RO/CTD/ADCP	16.08.18 19:04	on deck	65° 53.338'N 028° 38.545'W	5104		
MSM76_72-1	RO/CTD/ADCP	16.08.18 19:37	in the water	65° 55.987'N 028° 39.066'W	4514		x-pods attached
MSM76_72-1	RO/CTD/ADCP	16.08.18 19:51	max. depth	65° 55.938'N 028° 39.166'W	4519	439	16,6
MSM76_72-1	RO/CTD/ADCP	16.08.18 20:05	on deck	65° 55.884'N 028° 39.507'W	4577		salt and oxygen sampled for calibration
MSM76_73-1	RO/CTD/ADCP	16.08.18 20:51	in the water	66° 01.178'N 028° 40.803'W	3829		x-pods attached
MSM76_73-1	RO/CTD/ADCP	16.08.18 21:04	max. depth	66° 01.144'N 028° 40.929'W	3832	367	14,5
MSM76_73-1	RO/CTD/ADCP	16.08.18 21:18	on deck	66° 01.058'N 028° 41.257'W	3843		
MSM76_74-1	RO/CTD/ADCP	16.08.18 23:23	in the water	65° 47.455'N 029° 11.826'W	4033		x-pods attached
MSM76_74-1	RO/CTD/ADCP	16.08.18 23:37	max. depth	65° 47.375'N 029° 12.112'W	3964	396	16,4
MSM76_74-1	RO/CTD/ADCP	16.08.18 23:54	on deck	65° 47.252'N 029° 12.577'W	4183		salt and oxygen sampled for calibration
MSM76_75-1	RO/CTD/ADCP	17.08.18 00:28	in the water	65° 45.354'N 029° 08.682'W	5873		x-pods attached
MSM76_75-1	RO/CTD/ADCP	17.08.18 00:44	max. depth	65° 45.294'N 029° 08.866'W	5863	574	17,2
MSM76_75-1	RO/CTD/ADCP	17.08.18 01:03	on deck	65° 45.204'N 029° 09.144'W	5884		
MSM76_76-1	RO/CTD/ADCP	17.08.18 01:35	in the water	65° 43.213'N 029° 05.755'W	7466		x-pods attached
MSM76_76-1	RO/CTD/ADCP	17.08.18 01:53	max. depth	65° 43.161'N 029° 05.887'W	7463	734	18,2
MSM76_76-1	RO/CTD/ADCP	17.08.18 02:15	on deck	65° 43.069'N 029° 06.119'W	7466		salt and oxygen sampled for calibration
MSM76_77-1	RO/CTD/ADCP	17.08.18 02:46	in the water	65° 40.809'N 029° 03.395'W	8543		x-pods attached
MSM76_77-1	RO/CTD/ADCP	17.08.18 03:05	max. depth	65° 40.810'N 029° 03.403'W	8539	844	16,5
MSM76_77-1	RO/CTD/ADCP	17.08.18 03:28	on deck	65° 40.810'N 029° 03.397'W	8555		
MSM76_78-1	RO/CTD/ADCP	17.08.18 04:04	in the water	65° 38.568'N 029° 00.523'W	9505		x-pods attached
MSM76_78-1	RO/CTD/ADCP	17.08.18 04:24	max. depth	65° 38.569'N 029° 00.524'W	9504	940	17,5
MSM76_78-1	RO/CTD/ADCP	17.08.18 04:49	on deck	65° 38.567'N 029° 00.523'W	9501		salt and oxygen sampled for calibration
MSM76_79-1	RO/CTD/ADCP	17.08.18 05:14	in the water	65° 36.387'N 028° 57.795'W	10396		x-pods attached
MSM76_79-1	RO/CTD/ADCP	17.08.18 05:39	max. depth	65° 36.387'N 028° 57.793'W	10442	1030	17,7
MSM76_79-1	RO/CTD/ADCP	17.08.18 06:03	on deck	65° 36.387'N 028° 57.796'W	10415		
MSM76_80-1	RO/CTD/ADCP	17.08.18 06:16	in the water	65° 35.514'N 028° 56.291'W	10736		x-pods attached
MSM76_80-1	RO/CTD/ADCP	17.08.18 06:59	max. depth	65° 34.172'N 028° 54.976'W	11200	1111,6	17,2
MSM76_80-1	RO/CTD/ADCP	17.08.18 07:26	on deck	65° 34.173'N 028° 54.975'W	11186		salt and oxygen sampled for calibration
MSM76_81-1	RO/CTD/ADCP	17.08.18 07:58	in the water	65° 31.967'N 028° 52.197'W	11735		x-pods attached
MSM76_81-1	RO/CTD/ADCP	17.08.18 08:24	max. depth	65° 31.967'N 028° 52.197'W	11766	1168	14,5
MSM76_81-1	RO/CTD/ADCP	17.08.18 08:51	on deck	65° 31.967'N 028° 52.197'W	11797		
MSM76_82-1	RO/CTD/ADCP	17.08.18 10:30	in the water	65° 21.026'N 029° 06.414'W	13992		x-pods attached
MSM76_82-1	RO/CTD/ADCP	17.08.18 11:00	max. depth	65° 21.025'N 029° 06.416'W	13976		14,7
MSM76_82-1	RO/CTD/ADCP	17.08.18 11:32	on deck	65° 21.024'N 029° 06.415'W	13980		max. depth not noted
MSM76_83-1	RO/CTD/ADCP	17.08.18 12:11	in the water	65° 24.145'N 029° 12.421'W	13277		salt and oxygen sampled for calibration
MSM76_83-1	RO/CTD/ADCP	17.08.18 12:38	max. depth	65° 24.146'N 029° 12.420'W	13271	1326,8	14,9
MSM76_83-1	RO/CTD/ADCP	17.08.18 13:07	on deck	65° 24.144'N 029° 12.416'W	13270		
MSM76_84-1	RO/CTD/ADCP	17.08.18 13:54	in the water	65° 26.070'N 029° 16.298'W	12465		x-pods attached
MSM76_84-1	RO/CTD/ADCP	17.08.18 14:21	max. depth	65° 26.069'N 029° 16.293'W	12447	1229	15,2
MSM76_84-1	RO/CTD/ADCP	17.08.18 14:49	on deck	65° 26.069'N 029° 16.293'W	12456		salt and oxygen sampled for calibration
MSM76_85-1	RO/CTD/ADCP	17.08.18 15:24	in the water	65° 28.490'N 029° 19.138'W	11225		x-pods attached
MSM76_85-1	RO/CTD/ADCP	17.08.18 15:48	max. depth	65° 28.488'N 029° 19.142'W	11194	1104,8	14,3
MSM76_85-1	RO/CTD/ADCP	17.08.18 16:14	on deck	65° 28.489'N 029° 19.132'W	11187		
MSM76_86-1	RO/CTD/ADCP	17.08.18 16:46	in the water	65° 29.921'N 029° 23.949'W	9892		x-pods attached
MSM76_86-1	RO/CTD/ADCP	17.08.18 17:07	max. depth	65° 29.922'N 029° 23.952'W	9890	971,2	19,5
MSM76_86-1	RO/CTD/ADCP	17.08.18 17:30	on deck	65° 29.922'N 029° 23.948'W	9883		salt and oxygen sampled for calibration
MSM76_87-1	RO/CTD/ADCP	17.08.18 17:59	in the water	65° 31.842'N 029° 27.816'W	8594		x-pods attached

MSM76_90-1	RO/CTD/ADCP	17.08.18 21:17	In the water	65° 37.597'N 029° 39.386'W	3644		x-pods attached
MSM76_90-1	RO/CTD/ADCP	17.08.18 21:31	max. depth	65° 37.555'N 029° 39.540'W	3599	360,7	14,4
MSM76_90-1	RO/CTD/ADCP	17.08.18 21:47	on deck	65° 37.482'N 029° 39.800'W	3691		salt and oxygen sampled for calibration
MSM76_91-1	RO/CTD/ADCP	17.08.18 22:13	In the water	65° 39.529'N 029° 43.349'W	3375		x-pods attached
MSM76_91-1	RO/CTD/ADCP	17.08.18 22:26	max. depth	65° 39.516'N 029° 43.384'W	3396	326,3	15
MSM76_91-1	RO/CTD/ADCP	17.08.18 22:40	on deck	65° 39.442'N 029° 43.613'W	3370		
MSM76_92-1	RO/CTD/ADCP	17.08.18 23:23	In the water	65° 43.217'N 029° 50.383'W	3133		x-pods attached
MSM76_92-1	RO/CTD/ADCP	17.08.18 23:32	max. depth	65° 43.218'N 029° 50.385'W	3123	302,7	15,4
MSM76_92-1	RO/CTD/ADCP	17.08.18 23:46	on deck	65° 43.218'N 029° 50.385'W	3120		salt and oxygen sampled for calibration
MSM76_93-1	RO/CTD/ADCP	18.08.18 00:33	In the water	65° 46.990'N 029° 58.351'W	3546		x-pods attached
MSM76_93-1	RO/CTD/ADCP	18.08.18 00:44	max. depth	65° 46.990'N 029° 58.351'W	3543	354	15
MSM76_93-1	RO/CTD/ADCP	18.08.18 00:58	on deck	65° 46.989'N 029° 58.354'W	3545		
MSM76_94-1	RO/CTD/ADCP	18.08.18 03:06	In the water	65° 29.362'N 030° 14.347'W	3827		x-pods attached
MSM76_94-1	RO/CTD/ADCP	18.08.18 03:18	max. depth	65° 29.341'N 030° 14.368'W	3844	375	15,6
MSM76_94-1	RO/CTD/ADCP	18.08.18 03:32	on deck	65° 29.199'N 030° 14.362'W	3865		salt and oxygen sampled for calibration
MSM76_95-1	RO/CTD/ADCP	18.08.18 04:14	In the water	65° 24.755'N 030° 09.513'W	7412		x-pods attached
MSM76_95-1	RO/CTD/ADCP	18.08.18 04:33	max. depth	65° 24.713'N 030° 09.388'W	7476	737,1	15,6
MSM76_95-1	RO/CTD/ADCP	18.08.18 04:55	on deck	65° 24.694'N 030° 09.421'W	7476		
MSM76_96-1	RO/CTD/ADCP	18.08.18 05:22	In the water	65° 22.473'N 030° 07.150'W	9048		x-pods attached
MSM76_96-1	RO/CTD/ADCP	18.08.18 05:46	max. depth	65° 22.475'N 030° 07.155'W	9067	890,7	24
MSM76_96-1	RO/CTD/ADCP	18.08.18 06:13	on deck	65° 22.476'N 030° 07.154'W	9059		salt and oxygen sampled for calibration
MSM76_97-1	RO/CTD/ADCP	18.08.18 06:44	In the water	65° 20.207'N 030° 04.661'W	10700		x-pods attached
MSM76_97-1	RO/CTD/ADCP	18.08.18 07:08	max. depth	65° 20.110'N 030° 04.702'W	10755	1065	16,6
MSM76_97-1	RO/CTD/ADCP	18.08.18 07:36	on deck	65° 19.936'N 030° 04.988'W	10805		
MSM76_98-1	RO/CTD/ADCP	18.08.18 08:03	In the water	65° 17.890'N 030° 02.311'W	12109		x-pods attached
MSM76_98-1	RO/CTD/ADCP	18.08.18 08:32	max. depth	65° 17.886'N 030° 02.330'W	12140	1203	14,8
MSM76_98-1	RO/CTD/ADCP	18.08.18 09:03	on deck	65° 17.824'N 030° 02.581'W	12121		salt and oxygen sampled for calibration
MSM76_99-1	RO/CTD/ADCP	18.08.18 09:31	In the water	65° 15.573'N 029° 59.827'W	13323		x-pods attached
MSM76_99-1	RO/CTD/ADCP	18.08.18 10:01	max. depth	65° 15.573'N 029° 59.828'W	13320	1320	16,7
MSM76_99-1	RO/CTD/ADCP	18.08.18 10:34	on deck	65° 15.615'N 030° 00.108'W	13276		
MSM76_100-1	RO/CTD/ADCP	18.08.18 11:03	In the water	65° 13.330'N 029° 57.489'W	14410		x-pods attached
MSM76_100-1	RO/CTD/ADCP	18.08.18 11:34	max. depth	65° 13.365'N 029° 57.723'W	14360	1427	14
MSM76_100-1	RO/CTD/ADCP	18.08.18 12:07	on deck	65° 13.422'N 029° 58.091'W	14261		salt and oxygen sampled for calibration
MSM76_101-1	RO/CTD/ADCP	18.08.18 12:44	In the water	65° 11.032'N 029° 55.053'W	15707		x-pods attached
MSM76_101-1	RO/CTD/ADCP	18.08.18 13:16	max. depth	65° 11.060'N 029° 55.090'W	15658	1551	19,3
MSM76_101-1	RO/CTD/ADCP	18.08.18 13:50	on deck	65° 11.061'N 029° 55.089'W	15677		
MSM76_102-1	RO/CTD/ADCP	18.08.18 14:39	In the water	65° 06.475'N 029° 50.348'W	17123		x-pods attached
MSM76_102-1	RO/CTD/ADCP	18.08.18 15:13	max. depth	65° 06.481'N 029° 50.307'W	17137	1699,3	13,8
MSM76_102-1	RO/CTD/ADCP	18.08.18 15:51	on deck	65° 06.482'N 029° 50.305'W	17111		salt sampled for calibration
MSM76_103-1	RO/CTD/ADCP	18.08.18 18:55	In the water	65° 30.710'N 029° 25.531'W	9338		yoyo CTD - max. depth not noted for the whole yoyo cast
MSM76_103-1	RO/CTD/ADCP	18.08.18 19:16	max. depth	65° 30.663'N 029° 25.628'W	9339		15,9
MSM76_103-1	RO/CTD/ADCP	18.08.18 19:36	surface and lowering again	65° 30.554'N 029° 25.854'W	9414		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	18.08.18 19:56	max. depth	65° 30.532'N 029° 25.901'W	9365		16,6
MSM76_103-1	RO/CTD/ADCP	18.08.18 20:15	surface and lowering again	65° 30.479'N 029° 25.997'W	9367		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	18.08.18 20:36	max. depth	65° 30.433'N 029° 26.083'W	9367		15
MSM76_103-1	RO/CTD/ADCP	18.08.18 20:54	surface and lowering again	65° 30.390'N 029° 26.165'W	9377		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	18.08.18 21:15	max. depth	65° 30.345'N 029° 26.251'W	9397		14,7
MSM76_103-1	RO/CTD/ADCP	18.08.18 21:34	surface and lowering again	65° 30.300'N 029° 26.333'W	9431		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	18.08.18 21:55	max. depth	65° 30.251'N 029° 26.425'W	9463		14,9
MSM76_103-1	RO/CTD/ADCP	18.08.18 22:13	surface and lowering again	65° 30.214'N 029° 26.497'W	9464		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	18.08.18 22:34	max. depth	65° 30.174'N 029° 26.566'W	9492		15,5
MSM76_103-1	RO/CTD/ADCP	18.08.18 22:53	surface and lowering again	65° 30.148'N 029° 26.617'W	9512		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	18.08.18 23:13	max. depth	65° 30.118'N 029° 26.674'W	9496		15,3
MSM76_103-1	RO/CTD/ADCP	18.08.18 23:32	surface and lowering again	65° 30.086'N 029° 26.730'W	9525		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	18.08.18 23:53	max. depth	65° 30.060'N 029° 26.785'W	9510		14,8
MSM76_103-1	RO/CTD/ADCP	19.08.18 00:14	surface and lowering again	65° 30.036'N 029° 26.830'W	9518		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 00:34	max. depth	65° 30.035'N 029° 26.835'W	9522		14,6
MSM76_103-1	RO/CTD/ADCP	19.08.18 00:54	surface and lowering again	65° 30.020'N 029° 26.859'W	9517		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 01:15	max. depth	65° 30.018'N 029° 26.861'W	9519		13,3
MSM76_103-1	RO/CTD/ADCP	19.08.18 01:34	surface and lowering again	65° 30.019'N 029° 26.865'W	9532		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 01:54	max. depth	65° 30.018'N 029° 26.867'W	9525		12,8
MSM76_103-1	RO/CTD/ADCP	19.08.18 02:12	surface and lowering again	65° 30.018'N 029° 26.866'W	9523		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 02:35	max. depth	65° 30.018'N 029° 26.865'W	9516		13,2
MSM76_103-1	RO/CTD/ADCP	19.08.18 02:55	surface and lowering again	65° 30.019'N 029° 26.867'W	9523		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 03:17	max. depth	65° 30.019'N 029° 26.868'W	9515		13,9
MSM76_103-1	RO/CTD/ADCP	19.08.18 03:36	surface and lowering again	65° 30.019'N 029° 26.868'W	9529		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 03:58	max. depth	65° 30.019'N 029° 26.868'W	9519		15,3
MSM76_103-1	RO/CTD/ADCP	19.08.18 04:20	surface and lowering again	65° 30.019'N 029° 26.868'W	9519		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 04:39	max. depth	65° 30.019'N 029° 26.869'W	9514		13,9
MSM76_103-1	RO/CTD/ADCP	19.08.18 05:01	surface and lowering again	65° 30.024'N 029° 26.861'W	9516		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 05:21	max. depth	65° 30.079'N 029° 26.762'W	9518		16,4
MSM76_103-1	RO/CTD/ADCP	19.08.18 05:43	surface and lowering again	65° 30.104'N 029° 26.718'W	9504		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 06:05	max. depth	65° 30.141'N 029° 26.650'W	9499		16,4
MSM76_103-1	RO/CTD/ADCP	19.08.18 06:26	surface and lowering again	65° 30.141'N 029° 26.649'W	9504		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 06:46	max. depth	65° 30.140'N 029° 26.651'W	9505		14,4
MSM76_103-1	RO/CTD/ADCP	19.08.18 07:06	surface and lowering again	65° 30.141'N 029° 26.650'W	9507		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 07:30	max. depth	65° 30.141'N 029° 26.650'W	9503		14,2
MSM76_103-1	RO/CTD/ADCP	19.08.18 07:52	surface and lowering again	65° 30.146'N 029° 26.642'W	9514		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 08:36	surface and lowering again	65° 30.109'N 029° 26.868'W	9529		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 08:58	max. depth	65° 30.019'N 029° 26.868'W	9519		15,3
MSM76_103-1	RO/CTD/ADCP	19.08.18 08:32	surface and lowering again	65° 30.153'N 029° 26.637'W	9564		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 08:56	max. depth	65° 30.154'N 029° 26.639'W	9505		18,4
MSM76_103-1	RO/CTD/ADCP	19.08.18 09:15	surface and lowering again	65° 30.136'N 029° 26.653'W	9520		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 09:39	max. depth	65° 30.135'N 029° 26.656'W	9518		20,7
MSM76_103-1	RO/CTD/ADCP	19.08.18 10:21	max. depth	65° 30.111'N 029° 26.665'W	9522		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 10:40	surface and lowering again	65° 30.071'N 029° 26.681'W	9534		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 10:55	max. depth	65° 30.063'N 029° 26.683'W	9547		22,7
MSM76_103-1	RO/CTD/ADCP	19.08.18 11:24	surface and lowering again	65° 29.982'N 029° 26.716'W	9566		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 11:47	max. depth	65° 29.982'N 029° 26.717'W	9564		19,9
MSM76_103-1	RO/CTD/ADCP	19.08.18 12:05	surface and lowering again	65° 29.927'N 029° 26.739'W	9587		yoyo CTD
MSM76_103-1	RO/CTD/ADCP	19.08.18 12:30	max. depth	65° 29.926'N 029° 26.742'W	9590		27,6
MSM76_103-1	RO/CTD/ADCP	19.08.18 12:52	on deck	65° 29.876'N 029° 26.761'W	9609		yoyo CTD
MSM76_104-1	RO/CTD/ADCP	20.08.18 17:34	In the water	70° 15.399'N 021° 29.904'W	4789		x-pods attached
MSM76_104-1	RO/CTD/ADCP	20.08.18 17:46	max. depth	70° 15.399'N 021° 29.903'W	4789	464,8	15,1
MSM76_105-1	RO/CTD/ADCP	20.08.18 18:04	on deck	70° 15.398'N 021° 29.903'W	4802		salt and oxygen sampled for calibration
MSM76_105-1	RO/CTD/ADCP	20.08.18 19:33	In the water	70° 10.231'N 022° 05.933'W	3908		x-pods attached
MSM76_105-1	RO/CTD/ADCP	20.08.18 19:45	max. depth	70° 10.231'N 022° 05.933'W	3909	382,6	13,1
MSM76_105-1	RO/CTD/ADCP	20.08.18 20:02	on deck	70° 10.231'N 022° 05.934'W			

MSM76_108-1	RO/CTD/ADCP	20.08.18 23:11	on deck	70° 17.617'N 022° 01.928'W	5465		salt and oxygen sampled for calibration
MSM76_109-1	RO/CTD/ADCP	20.08.18 23:41	in the water	70° 20.040'N 022° 00.586'W	4426		x-pods attached
MSM76_109-1	RO/CTD/ADCP	20.08.18 23:54	max. depth	70° 20.041'N 022° 00.587'W	4428	433,3	13,7
MSM76_109-1	RO/CTD/ADCP	21.08.18 00:11	on deck	70° 20.040'N 022° 00.587'W	4451		
MSM76_110-1	RO/CTD/ADCP	21.08.18 00:36	in the water	70° 22.408'N 021° 59.322'W	3655		x-pods attached
MSM76_110-1	RO/CTD/ADCP	21.08.18 00:47	max. depth	70° 22.401'N 021° 59.322'W	3664	351,9	14,8
MSM76_110-1	RO/CTD/ADCP	21.08.18 01:01	on deck	70° 22.401'N 021° 59.323'W	3661		salt and oxygen sampled for calibration
MSM76_111-1	RO/CTD/ADCP	21.08.18 08:34	in the water	70° 25.831'N 025° 18.423'W	3909		x-pods attached
MSM76_111-1	RO/CTD/ADCP	21.08.18 08:45	max. depth	70° 25.832'N 025° 18.423'W	3910	380	14,6
MSM76_111-1	RO/CTD/ADCP	21.08.18 09:01	on deck	70° 25.833'N 025° 18.424'W	3907		
MSM76_112-1	RO/CTD/ADCP	21.08.18 09:43	in the water	70° 28.262'N 025° 19.678'W	4804		x-pods attached
MSM76_112-1	RO/CTD/ADCP	21.08.18 09:57	max. depth	70° 28.267'N 025° 19.689'W	4800	467,2	14,8
MSM76_112-1	RO/CTD/ADCP	21.08.18 10:14	on deck	70° 28.268'N 025° 19.691'W	4805		salt and oxygen sampled for calibration
MSM76_113-1	RO/CTD/ADCP	21.08.18 10:40	in the water	70° 30.731'N 025° 20.941'W	5876		x-pods attached
MSM76_113-1	RO/CTD/ADCP	21.08.18 10:56	max. depth	70° 30.731'N 025° 20.941'W	5877	575	14,8
MSM76_113-1	RO/CTD/ADCP	21.08.18 11:13	on deck	70° 30.731'N 025° 20.939'W	5878		
MSM76_114-1	RO/CTD/ADCP	21.08.18 11:41	in the water	70° 33.194'N 025° 22.232'W	5609		x-pods attached
MSM76_114-1	RO/CTD/ADCP	21.08.18 11:55	max. depth	70° 33.198'N 025° 22.229'W	5610	546	18
MSM76_114-1	RO/CTD/ADCP	21.08.18 12:13	on deck	70° 33.198'N 025° 22.230'W	5609		salt and oxygen sampled for calibration
MSM76_115-1	RO/CTD/ADCP	21.08.18 12:42	in the water	70° 35.656'N 025° 23.512'W	4791		x-pods attached
MSM76_115-1	RO/CTD/ADCP	21.08.18 12:55	max. depth	70° 35.657'N 025° 23.501'W	4788	463,4	17,8
MSM76_116-1	RO/CTD/ADCP	21.08.18 13:12	on deck	70° 35.657'N 025° 23.501'W	4793		
MSM76_116-1	RO/CTD/ADCP	21.08.18 13:34	in the water	70° 37.283'N 025° 24.389'W	1524		2 releasers were attached to the rosette and tested
MSM76_116-1	RO/CTD/ADCP	21.08.18 13:42	max. depth	70° 37.286'N 025° 24.360'W	1529	146	15,4
MSM76_116-1	RO/CTD/ADCP	21.08.18 13:57	on deck	70° 37.290'N 025° 24.396'W	1517		salt and oxygen sampled for calibration
MSM76_117-1	EM122	21.08.18 14:06	profile start	70° 37.336'N 025° 23.981'W	1988		varying courses to complete existing bathymetry profiles
MSM76_117-1	EM122	22.08.18 00:26	profile end	71° 10.418'N 025° 13.074'W	6279		
MSM76_118-1	RO/CTD/ADCP	22.08.18 00:28	in the water	71° 10.426'N 025° 13.094'W	6271		x-pods attached
MSM76_118-1	RO/CTD/ADCP	22.08.18 00:44	max. depth	71° 10.429'N 025° 13.118'W	6292	613	16,4
MSM76_118-1	RO/CTD/ADCP	22.08.18 01:02	on deck	71° 10.430'N 025° 13.117'W	6289		salt and oxygen sampled for calibration
MSM76_119-1	RO/CTD/ADCP	22.08.18 01:51	in the water	71° 13.133'N 025° 20.251'W	7500		x-pods attached
MSM76_119-1	RO/CTD/ADCP	22.08.18 02:07	max. depth	71° 13.128'N 025° 20.288'W	7485	728	15,9
MSM76_119-1	RO/CTD/ADCP	22.08.18 02:27	on deck	71° 13.129'N 025° 20.291'W	7476		
MSM76_120-1	RO/CTD/ADCP	22.08.18 02:53	in the water	71° 13.849'N 025° 17.966'W	8038		x-pods attached
MSM76_120-1	RO/CTD/ADCP	22.08.18 03:12	max. depth	71° 13.851'N 025° 17.964'W	8046	783	16,8
MSM76_120-1	RO/CTD/ADCP	22.08.18 03:44	on deck	71° 13.850'N 025° 17.966'W	8045		salt and oxygen sampled for calibration
MSM76_121-1	RO/CTD/ADCP	22.08.18 04:36	in the water	71° 16.972'N 025° 09.809'W	6345		x-pods attached
MSM76_121-1	RO/CTD/ADCP	22.08.18 04:53	max. depth	71° 16.972'N 025° 09.808'W	6346	626,2	13,3
MSM76_121-1	RO/CTD/ADCP	22.08.18 05:13	on deck	71° 16.973'N 025° 09.809'W	6345		
MSM76_122-1	RO/CTD/ADCP	22.08.18 05:39	in the water	71° 16.187'N 025° 12.894'W	3831		x-pods attached
MSM76_122-1	RO/CTD/ADCP	22.08.18 05:51	max. depth	71° 16.187'N 025° 12.892'W	3822	372,1	14,5
MSM76_122-1	RO/CTD/ADCP	22.08.18 06:05	on deck	71° 16.188'N 025° 12.890'W	3827		salt and oxygen sampled for calibration
MSM76_123-1	RO/CTD/ADCP	22.08.18 06:49	in the water	71° 16.054'N 025° 18.522'W	9022		x-pods attached
MSM76_123-1	RO/CTD/ADCP	22.08.18 07:10	max. depth	71° 16.054'N 025° 18.522'W	9035	894,3	13
MSM76_123-1	RO/CTD/ADCP	22.08.18 07:36	on deck	71° 16.053'N 025° 18.521'W	9036		
MSM76_124-1	RO/CTD/ADCP	22.08.18 08:44	in the water	71° 18.905'N 025° 16.943'W	11945		x-pods attached
MSM76_124-1	RO/CTD/ADCP	22.08.18 09:14	max. depth	71° 18.893'N 025° 17.013'W	11932	1186,7	15,8
MSM76_124-1	RO/CTD/ADCP	22.08.18 09:45	on deck	71° 18.893'N 025° 17.012'W	11967		salt and oxygen sampled for calibration
MSM76_125-1	RO/CTD/ADCP	22.08.18 10:26	in the water	71° 21.530'N 025° 21.217'W	12478		x-pods attached
MSM76_125-1	RO/CTD/ADCP	22.08.18 10:52	max. depth	71° 21.525'N 025° 21.235'W	12468	1234,1	14,3
MSM76_125-1	RO/CTD/ADCP	22.08.18 11:22	on deck	71° 21.523'N 025° 21.219'W	12482		
MSM76_126-1	RO/CTD/ADCP	22.08.18 12:59	in the water	71° 25.420'N 025° 32.894'W	12498		x-pods attached
MSM76_126-1	RO/CTD/ADCP	22.08.18 13:26	max. depth	71° 25.428'N 025° 32.927'W	12471	1231	17,4
MSM76_126-1	RO/CTD/ADCP	22.08.18 13:56	on deck	71° 25.429'N 025° 32.925'W	12502		salt and oxygen sampled for calibration
MSM76_127-1	MOOR	22.08.18 15:39	start	71° 16.965'N 025° 09.862'W	6383		
MSM76_127-1	MOOR	22.08.18 16:13	deployed	71° 16.970'N 025° 09.879'W	6381		SC01-1
MSM76_128-1	MOOR	22.08.18 17:27	start	71° 13.863'N 025° 17.916'W	8160		
MSM76_128-1	MOOR	22.08.18 17:45	deployed	71° 13.855'N 025° 17.986'W	8160		SC02-1
MSM76_129-1	RO/CTD/ADCP	23.08.18 00:35	in the water	70° 23.491'N 025° 09.050'W	5749		x-pods attached
MSM76_129-1	RO/CTD/ADCP	23.08.18 00:51	max. depth	70° 23.475'N 025° 09.041'W	5752	562,8	15,3
MSM76_129-1	RO/CTD/ADCP	23.08.18 01:09	on deck	70° 23.474'N 025° 09.045'W	5751		
MSM76_130-1	RO/CTD/ADCP	23.08.18 01:51	in the water	70° 22.248'N 025° 05.311'W	5421		x-pods attached
MSM76_130-1	RO/CTD/ADCP	23.08.18 02:07	max. depth	70° 22.249'N 025° 05.307'W	5423	529	15,3
MSM76_130-1	RO/CTD/ADCP	23.08.18 02:22	on deck	70° 22.249'N 025° 05.306'W	5426		salt and oxygen sampled for calibration
MSM76_131-1	RO/CTD/ADCP	23.08.18 03:34	in the water	70° 20.060'N 025° 09.532'W	5123		x-pods attached
MSM76_131-1	RO/CTD/ADCP	23.08.18 03:46	max. depth	70° 20.056'N 025° 09.576'W	5043	489,7	14,8
MSM76_131-1	RO/CTD/ADCP	23.08.18 04:01	on deck	70° 20.054'N 025° 09.621'W	5057		
MSM76_132-1	MOOR	23.08.18 12:13	start	70° 21.251'N 021° 59.747'W	4158		
MSM76_132-1	MOOR	23.08.18 12:25	deployed	70° 21.252'N 021° 59.736'W	4162		SC03-1
MSM76_133-1	RO/CTD/ADCP	23.08.18 12:45	in the water	70° 22.408'N 021° 59.404'W	3660		x-pods attached
MSM76_133-1	RO/CTD/ADCP	23.08.18 12:55	max. depth	70° 22.409'N 021° 59.396'W	3660	354	15,2
MSM76_133-1	RO/CTD/ADCP	23.08.18 13:09	on deck	70° 22.408'N 021° 59.397'W	3658		
MSM76_134-1	RO/CTD/ADCP	23.08.18 13:09	in the water	70° 22.408'N 021° 59.397'W	3657		x-pods attached
MSM76_134-1	RO/CTD/ADCP	23.08.18 13:50	max. depth	70° 20.067'N 022° 00.665'W	4452	431,2	18,4
MSM76_134-1	RO/CTD/ADCP	23.08.18 14:05	on deck	70° 20.066'N 022° 00.665'W	4452		salt and oxygen sampled for calibration
MSM76_135-1	RO/CTD/ADCP	23.08.18 14:37	in the water	70° 17.603'N 022° 01.972'W	5445		x-pods attached
MSM76_135-1	RO/CTD/ADCP	23.08.18 14:51	max. depth	70° 17.607'N 022° 01.999'W	5460	529,3	19,5
MSM76_135-1	RO/CTD/ADCP	23.08.18 15:07	on deck	70° 17.607'N 022° 01.998'W	5487		
MSM76_136-1	RO/CTD/ADCP	23.08.18 15:39	in the water	70° 15.146'N 022° 03.315'W	5690		
MSM76_136-1	RO/CTD/ADCP	23.08.18 15:52	max. depth	70° 15.148'N 022° 03.314'W	5681	556	15,4
MSM76_136-1	RO/CTD/ADCP	23.08.18 16:09	on deck	70° 15.148'N 022° 03.314'W	5687		salt and oxygen sampled for calibration
MSM76_137-1	RO/CTD/ADCP	23.08.18 16:42	in the water	70° 12.680'N 022° 04.637'W	5748		
MSM76_137-1	RO/CTD/ADCP	23.08.18 16:57	max. depth	70° 12.681'N 022° 04.636'W	5739	573,1	6,7
MSM76_137-1	RO/CTD/ADCP	23.08.18 17:13	on deck	70° 12.681'N 022° 04.636'W	5740		
MSM76_138-1	RO/CTD/ADCP	23.08.18 17:42	in the water	70° 10.219'N 022° 05.939'W	3887		
MSM76_138-1	RO/CTD/ADCP	23.08.18 17:52	max. depth	70° 10.219'N 022° 05.940'W	3884	374	14,8
MSM76_138-1	RO/CTD/ADCP	23.08.18 18:06	on deck	70° 10.219'N 022° 05.938'W	3889		salt and oxygen sampled for calibration
MSM76_139-1	MOOR	24.08.18 18:32	released	65° 50.901'N 027° 50.406'W			no depth information
MSM76_139-1	MOOR	24.08.18 18:47	at surface	65° 52.513'N 027° 53.789'W			
MSM76_139-1	MOOR	24.08.18 18:53	recovered	65° 52.790'N 027° 54.320'W			DS-27-17
MSM76_140-1	MOOR	24.08.18 18:04	released	65° 50.651'N 027° 50.052'W			no depth information
MSM76_140-1	MOOR	24.08.18 18:17	at surface	65° 50.650'N 027° 49.984'W			
MSM76_140-1	MOOR	24.08.18 18:25	recovered	65° 50.850'N 027° 50.346'W			DS-28-17
MSM76_141-1	RO/CTD/ADCP	24.08.18 20:07	in the water	65° 43.107'N 027° 43.337'W	6704		x-pods attached
MSM76_141-1	RO/CTD/ADCP	24.08.18 20:23	max. depth	65° 43.107'N 027° 43.337'W	6704	664	14,6
MSM76_141-1	RO/CTD/ADCP	24.08.18 20:44	on deck	65° 43.107'N 027° 43.337'W	6703		
MSM76_142-1	RO/CTD/ADCP	24.08.18 21:25	in the water	65° 46.134'N 027° 46.433'W	7379		x-pods attached
MSM76_142-1	RO/CTD/ADCP	24.08.18 21:55	max. depth	65° 46.134'N 027° 46.430'W	7374	730	10
MSM76_142-1	RO/CTD/ADCP	24.08.18 22:22	in the water	65° 46.130			

MSM76_145-1	RO/CTD/ADCP	25.08.18 00:56	max. depth	65° 52.442'N 027° 56.353'W	6247	614	13,4	
MSM76_145-1	RO/CTD/ADCP	25.08.18 01:13	on deck	65° 52.420'N 027° 56.475'W	6268			
MSM76_146-1	RO/CTD/ADCP	25.08.18 01:45	in the water	65° 54.543'N 027° 59.643'W	5752			x-pods attached
MSM76_146-1	RO/CTD/ADCP	25.08.18 02:01	max. depth	65° 54.543'N 027° 59.645'W	5761	561	15,6	
MSM76_146-1	RO/CTD/ADCP	25.08.18 02:18	on deck	65° 54.546'N 027° 59.776'W	5742			salt and oxygen sampled for calibration
MSM76_147-1	RO/CTD/ADCP	25.08.18 02:53	in the water	65° 56.653'N 028° 02.944'W	5232			x-pods attached
MSM76_147-1	RO/CTD/ADCP	25.08.18 03:07	max. depth	65° 56.654'N 028° 02.992'W	5210	511	14	
MSM76_147-1	RO/CTD/ADCP	25.08.18 03:23	on deck	65° 56.655'N 028° 03.045'W	5213			
MSM76_148-1	RO/CTD/ADCP	25.08.18 03:55	in the water	65° 58.754'N 028° 06.235'W	4718			x-pods attached
MSM76_148-1	RO/CTD/ADCP	25.08.18 04:07	max. depth	65° 58.753'N 028° 06.235'W	4719	461,8	13	
MSM76_148-1	RO/CTD/ADCP	25.08.18 04:27	on deck	65° 58.753'N 028° 06.236'W	4727			salt and oxygen sampled for calibration
MSM76_149-1	RO/CTD/ADCP	25.08.18 05:09	in the water	66° 02.738'N 028° 12.189'W	4654			x-pods attached
MSM76_149-1	RO/CTD/ADCP	25.08.18 05:22	max. depth	66° 02.742'N 028° 12.170'W	4643	451,9	13,2	
MSM76_149-1	RO/CTD/ADCP	25.08.18 05:38	on deck	66° 02.742'N 028° 12.172'W	4665			
MSM76_150-1	MOOR	25.08.18 07:20	course 005*	65° 57.019'N 028° 01.992'W	5344			
MSM76_150-1	MOOR	25.08.18 07:46	begin dredging	65° 57.831'N 028° 01.820'W	5261			
MSM76_150-1	MOOR	25.08.18 09:52	all on deck	65° 57.330'N 028° 01.925'W	5320			
MSM76_150-1	MOOR	25.08.18 10:53	course 005*	65° 57.155'N 028° 01.977'W	5362			
MSM76_150-1	MOOR	25.08.18 11:16	begin dredging	65° 57.846'N 028° 01.806'W	5239			
MSM76_150-1	MOOR	25.08.18 13:05	all on deck	65° 57.655'N 028° 01.539'W	5317			dredging of DS 26-17 unsuccessful
MSM76_151-1	MOOR	25.08.18 17:23	released	65° 33.503'N 029° 31.753'W				no depth information
MSM76_151-1	MOOR	25.08.18 17:29	at surface	65° 33.504'N 029° 31.751'W				
MSM76_151-1	MOOR	25.08.18 18:08	recovered	65° 32.236'N 029° 33.142'W				DS-B-18
MSM76_152-1	MOOR	25.08.18 18:31	released	65° 33.531'N 029° 30.621'W				no depth information
MSM76_152-1	MOOR	25.08.18 18:35	at surface	65° 33.530'N 029° 30.640'W				
MSM76_152-1	MOOR	25.08.18 18:47	recovered	65° 33.760'N 029° 30.376'W				DS-F-18
MSM76_153-1	MOOR	25.08.18 19:27	released	65° 31.817'N 029° 18.085'W				no depth information
MSM76_153-1	MOOR	25.08.18 19:33	at surface	65° 31.833'N 029° 18.162'W				
MSM76_153-1	MOOR	25.08.18 20:25	recovered	65° 32.473'N 029° 18.558'W	9704			DS-D-18
MSM76_154-1	RO/CTD/ADCP	25.08.18 22:49	(in the water	65° 13.305'N 029° 56.067'W	14547			x-pods attached
MSM76_154-1	RO/CTD/ADCP	25.08.18 23:19	max. depth	65° 13.275'N 029° 56.165'W	14561			Tow-Yo CTD at varying depths, course 244° v=0,5kn
MSM76_154-1	RO/CTD/ADCP	26.08.18 01:16	information	65° 12.838'N 029° 58.241'W	14516			Tow-Yo CTD at varying depths, course 248° v=0,5kn
MSM76_154-1	RO/CTD/ADCP	26.08.18 03:16	Information	65° 12.457'N 030° 00.431'W	13477			Tow-Yo CTD at varying depths, course 272° v=0,5kn
MSM76_154-1	RO/CTD/ADCP	26.08.18 05:01	Information	65° 12.487'N 030° 02.497'W	14543			Tow-Yo CTD at varying depths, course 270° v=0,5kn
MSM76_154-1	RO/CTD/ADCP	26.08.18 07:09	profile end	65° 12.488'N 030° 05.004'W	14453			
MSM76_154-1	RO/CTD/ADCP	26.08.18 07:40	on deck	65° 12.532'N 030° 05.461'W	14507			
MSM76_155-1	MOOR	26.08.18 10:38	released	65° 28.053'N 029° 34.391'W				no depth information
MSM76_155-1	MOOR	26.08.18 10:42	at surface	65° 28.053'N 029° 34.492'W				
MSM76_155-1	MOOR	26.08.18 11:19	recovered	65° 28.843'N 029° 36.570'W				DS-E-18
MSM76_156-1	MOOR	26.08.18 11:38	released	65° 27.820'N 029° 34.800'W				no depth information
MSM76_156-1	MOOR	26.08.18 11:45	at surface	65° 27.814'N 029° 35.064'W				
MSM76_156-1	MOOR	26.08.18 12:00	recovered	65° 28.367'N 029° 36.023'W				DS-A-18
MSM76_157-1	MOOR	26.08.18 12:57	released	65° 26.963'N 029° 19.810'W				no depth information
MSM76_157-1	MOOR	26.08.18 13:12	at surface	65° 26.974'N 029° 19.842'W				
MSM76_157-1	MOOR	26.08.18 13:50	recovered	65° 27.642'N 029° 21.191'W				DS-C-18
MSM76_158-1	RO/CTD/ADCP	26.08.18 16:07	(in the water	65° 11.163'N 029° 59.185'W	15636			x-pods attached
MSM76_158-1	RO/CTD/ADCP	26.08.18 16:38	max. depth	65° 11.169'N 029° 59.192'W	15647			Tow-Yo CTD at varying depths, course 337° v=0,5kn
MSM76_158-1	RO/CTD/ADCP	26.08.18 20:35	information	65° 12.989'N 030° 01.008'W	14217			Tow-Yo CTD at varying depths, course 335° v=0,5kn
MSM76_158-1	RO/CTD/ADCP	26.08.18 22:45	profile end	65° 13.934'N 030° 02.073'W	13820			
MSM76_158-1	RO/CTD/ADCP	26.08.18 23:00	on deck	65° 14.037'N 030° 02.229'W	13737			
MSM76_159-1	RO/CTD/ADCP	26.08.18 23:51	(in the water	65° 11.428'N 030° 01.554'W	15285			
MSM76_159-1	RO/CTD/ADCP	27.08.18 00:25	max. depth	65° 11.429'N 030° 01.553'W	15292			Tow-Yo CTD at varying depths, course 337° v=0,5kn
MSM76_159-1	RO/CTD/ADCP	27.08.18 04:15	profile end	65° 13.172'N 030° 03.302'W	14093			
MSM76_159-1	RO/CTD/ADCP	27.08.18 04:40	on deck	65° 13.319'N 030° 03.481'W	13996			
MSM76_160-1	PIES	29.08.18 07:07	released	64° 17.317'N 012° 27.012'W				no depth information
MSM76_160-1	PIES	29.08.18 07:25	at surface	64° 17.314'N 012° 27.012'W				
MSM76_160-1	PIES	29.08.18 07:32	recovered	64° 17.191'N 012° 26.698'W				WICE-P2-16
MSM76_161-1	PIES	29.08.18 09:09	released	64° 26.798'N 012° 03.385'W				no depth information
MSM76_161-1	PIES	29.08.18 09:25	at surface	64° 26.804'N 012° 03.332'W				
MSM76_161-1	PIES	29.08.18 09:32	recovered	64° 27.078'N 012° 03.342'W				WICE-P1-16
MSM76_162-1	RO/CTD/ADCP	30.08.18 16:48	(in the water	68° 56.926'N 018° 05.489'W	16158			x-pods attached, temperature loggers were attached for calibration
MSM76_162-1	RO/CTD/ADCP	30.08.18 17:19	max. depth	68° 56.926'N 018° 05.495'W	16209	1603,7	19,3	
MSM76_162-1	RO/CTD/ADCP	30.08.18 18:09	on deck	68° 56.927'N 018° 05.493'W	16166			oxygen sampled for calibration
MSM76_163-1	RO/CTD/ADCP	30.08.18 21:00	(in the water	69° 22.972'N 018° 50.986'W	15834			x-pods attached, temperature loggers were attached for calibration
MSM76_163-1	RO/CTD/ADCP	30.08.18 21:31	max. depth	69° 22.972'N 018° 50.982'W	15833	1566	14	
MSM76_163-1	RO/CTD/ADCP	30.08.18 22:26	on deck	69° 22.972'N 018° 50.982'W	15820			salt sampled for calibration
MSM76_164-1	RO/CTD/ADCP	31.08.18 04:54	(in the water	70° 33.035'N 020° 10.838'W	2579			
MSM76_164-1	RO/CTD/ADCP	31.08.18 05:05	max. depth	70° 33.034'N 020° 10.835'W	2565	246,6	13,7	
MSM76_164-1	RO/CTD/ADCP	31.08.18 05:16	on deck	70° 33.035'N 020° 10.833'W	2590			salt and oxygen sampled for calibration
MSM76_165-1	RO/CTD/ADCP	31.08.18 11:37	(in the water	71° 50.967'N 021° 05.291'W	3911			
MSM76_165-1	RO/CTD/ADCP	31.08.18 11:48	max. depth	71° 50.967'N 021° 05.291'W	3912	381,9	14,6	
MSM76_165-1	RO/CTD/ADCP	31.08.18 12:01	on deck	71° 50.967'N 021° 05.291'W	3922			
MSM76_166-1	RO/CTD/ADCP	31.08.18 14:42	(in the water	72° 22.186'N 021° 02.397'W	2088			
MSM76_166-1	RO/CTD/ADCP	31.08.18 14:51	max. depth	72° 22.188'N 021° 02.396'W	2088	195,8	14,7	
MSM76_166-1	RO/CTD/ADCP	31.08.18 15:00	on deck	72° 22.188'N 021° 02.396'W	2100			salt and oxygen sampled for calibration
MSM76_167-1	RO/CTD/ADCP	31.08.18 19:32	(in the water	73° 12.583'N 020° 03.042'W	4611			
MSM76_167-1	RO/CTD/ADCP	31.08.18 19:45	max. depth	73° 12.596'N 020° 03.070'W	4588	446,7	13,7	
MSM76_167-1	RO/CTD/ADCP	31.08.18 20:01	on deck	73° 12.593'N 020° 03.053'W	4623			
MSM76_168-1	RO/CTD/ADCP	31.08.18 22:59	(in the water	73° 43.867'N 019° 07.747'W	1858			
MSM76_168-1	RO/CTD/ADCP	31.08.18 23:08	max. depth	73° 43.866'N 019° 07.716'W	1862	174,4	14,4	
MSM76_168-1	RO/CTD/ADCP	31.08.18 23:21	on deck	73° 43.865'N 019° 07.715'W	1861			salt and oxygen sampled for calibration
MSM76_169-1	RO/CTD/ADCP	01.09.18 05:44	(in the water	74° 22.702'N 016° 13.178'W	2657			
MSM76_169-1	RO/CTD/ADCP	01.09.18 05:56	max. depth	74° 22.701'N 016° 13.178'W	2652	249,1	13,9	
MSM76_169-1	RO/CTD/ADCP	01.09.18 06:07	on deck	74° 22.702'N 016° 13.178'W	2666			
MSM76_170-1	RO/CTD/ADCP	01.09.18 11:08	(in the water	75° 13.666'N 015° 52.501'W	1686			
MSM76_170-1	RO/CTD/ADCP	01.09.18 11:12	max. depth	75° 13.665'N 015° 52.493'W	1679	156,7	15	
MSM76_170-1	RO/CTD/ADCP	01.09.18 11:24	on deck	75° 13.667'N 015° 52.495'W	1692			salt and oxygen sampled for calibration
MSM76_171-1	RO/CTD/ADCP	01.09.18 16:09	(in the water	76° 00.286'N 014° 19.918'W	3360			
MSM76_171-1	RO/CTD/ADCP	01.09.18 16:22	max. depth	76° 00.287'N 014° 19.908'W	3364	325,2	11,7	
MSM76_171-1	RO/CTD/ADCP	01.09.18 16:35	on deck	76° 00.287'N 014° 19.906'W	3356			
MSM76_172-1	RO/CTD/ADCP	03.09.18 06:27	(in the water	79° 43.444'N 017° 45.738'W	1009			
MSM76_172-1	RO/CTD/ADCP	03.09.18 06:33	max. depth	79° 43.444'N 017° 45.739'W	1010	100	14,3	
MSM76_172-1	RO/CTD/ADCP	03.09.18 06:40	on deck	79° 43.444'N 017° 45.739'W	1007			
MSM76_173-1	RO/CTD/ADCP	03.09.18 07:31	(in the water	79° 43.205'N 017° 40.538'W	3923			
MSM76_173-1	RO/CTD/ADCP	03.09.18 07:45	max. depth	79° 43.210'N 017° 40.542'W	4007	378	15	
MSM76_173-1	RO/CTD/ADCP	03.09.18 07:59	on deck	79° 43.212'N 017° 40.539'W	4000			salt and oxygen sampled for calibration
MSM76_174-1	RO/CTD/ADCP	03.09.18 08:45	(in the water	79° 42.433				

MSM76_177-1	RO/CTD/ADCP	03.09.18 11:57	max. depth	79° 40.375'N 016° 53.789'W	2651	252	16,2	
MSM76_177-1	RO/CTD/ADCP	03.09.18 12:09	on deck	79° 40.375'N 016° 53.791'W	2652			
MSM76_178-1	EM122	03.09.18 13:33	profile start	79° 41.029'N 017° 41.102'W	3999		v=10kn	
MSM76_178-1	EM122	03.09.18 17:28	profile end	79° 40.378'N 016° 57.211'W	2658			
MSM76_179-1	MOOR	03.09.18 17:41	start	79° 40.183'N 016° 53.848'W	2633			
MSM76_179-1	MOOR	03.09.18 18:04	deployed	79° 40.159'N 016° 53.876'W	2623		79N6-2	
MSM76_180-1	RO/CTD/ADCP	03.09.18 19:19	(in the water	79° 38.352'N 016° 38.451'W	2424			
MSM76_180-1	RO/CTD/ADCP	03.09.18 19:31	max. depth	79° 38.351'N 016° 38.451'W	2424	231	13	
MSM76_180-1	RO/CTD/ADCP	03.09.18 19:43	on deck	79° 38.351'N 016° 38.449'W	2418		salt and oxygen sampled for calibration	
MSM76_181-1	RO/CTD/ADCP	03.09.18 21:07	(in the water	79° 36.735'N 016° 23.900'W	2818			
MSM76_181-1	RO/CTD/ADCP	03.09.18 21:19	max. depth	79° 36.731'N 016° 23.880'W	2816	269,4	15,3	
MSM76_181-1	RO/CTD/ADCP	03.09.18 21:34	on deck	79° 36.734'N 016° 23.904'W	2813			
MSM76_182-1	RO/CTD/ADCP	04.09.18 01:53	(in the water	79° 55.681'N 015° 45.833'W	3012			
MSM76_182-1	RO/CTD/ADCP	04.09.18 02:06	max. depth	79° 55.682'N 015° 45.834'W	3011	291	14,4	
MSM76_182-1	RO/CTD/ADCP	04.09.18 02:16	on deck	79° 55.682'N 015° 45.833'W	3011		salt and oxygen sampled for calibration	
MSM76_183-1	RO/CTD/ADCP	04.09.18 06:35	(in the water	80° 04.697'N 014° 11.998'W	1283			
MSM76_183-1	RO/CTD/ADCP	04.09.18 06:40	max. depth	80° 04.697'N 014° 11.997'W	1283		117,6	14,4
MSM76_183-1	RO/CTD/ADCP	04.09.18 06:49	on deck	80° 04.697'N 014° 11.998'W	1285			
MSM76_184-1	RO/CTD/ADCP	04.09.18 10:08	(in the water	80° 03.314'N 012° 15.881'W	1344			
MSM76_184-1	RO/CTD/ADCP	04.09.18 10:15	max. depth	80° 03.315'N 012° 15.882'W	1345	120,9	14,3	
MSM76_184-1	RO/CTD/ADCP	04.09.18 10:24	on deck	80° 03.314'N 012° 15.882'W	1344		salt and oxygen sampled for calibration	
MSM76_185-1	RO/CTD/ADCP	04.09.18 13:23	(in the water	79° 54.454'N 010° 32.435'W	1138			
MSM76_185-1	RO/CTD/ADCP	04.09.18 13:29	max. depth	79° 54.454'N 010° 32.434'W	1136		102,6	14,8
MSM76_185-1	RO/CTD/ADCP	04.09.18 13:38	on deck	79° 54.454'N 010° 32.435'W	1136			
MSM76_186-1	RO/CTD/ADCP	04.09.18 15:36	(in the water	79° 46.188'N 008° 51.339'W	1863			
MSM76_186-1	RO/CTD/ADCP	04.09.18 15:44	max. depth	79° 46.188'N 008° 51.334'W	1854	173	14,7	
MSM76_186-1	RO/CTD/ADCP	04.09.18 15:54	on deck	79° 46.188'N 008° 51.334'W	1850		salt and oxygen sampled for calibration	
MSM76_187-1	RO/CTD/ADCP	04.09.18 17:32	(in the water	79° 36.698'N 007° 22.792'W	2306			
MSM76_187-1	RO/CTD/ADCP	04.09.18 17:41	max. depth	79° 36.707'N 007° 22.777'W	2292		218,8	14,6
MSM76_187-1	RO/CTD/ADCP	04.09.18 17:51	on deck	79° 36.707'N 007° 22.776'W	2299			
MSM76_188-1	RO/CTD/ADCP	04.09.18 20:02	(in the water	79° 21.810'N 006° 15.280'W	2718			
MSM76_188-1	RO/CTD/ADCP	04.09.18 20:12	max. depth	79° 21.810'N 006° 15.280'W	2714	261	14,7	
MSM76_188-1	RO/CTD/ADCP	04.09.18 20:26	on deck	79° 21.810'N 006° 15.281'W	2710		salt and oxygen sampled for calibration	
MSM76_189-1	RO/CTD/ADCP	05.09.18 11:43	(in the water	77° 37.999'N 005° 48.095'W	3633			
MSM76_189-1	RO/CTD/ADCP	05.09.18 11:57	max. depth	77° 37.995'N 005° 48.090'W	3446	334	13,9	
MSM76_189-1	RO/CTD/ADCP	05.09.18 12:13	on deck	77° 37.995'N 005° 48.091'W	3447			
MSM76_190-1	RO/CTD/ADCP	05.09.18 12:44	(in the water	77° 37.735'N 005° 33.235'W	3880			
MSM76_190-1	RO/CTD/ADCP	05.09.18 12:55	max. depth	77° 37.735'N 005° 33.236'W	3906	379,3	12,1	
MSM76_190-1	RO/CTD/ADCP	05.09.18 13:08	on deck	77° 37.735'N 005° 33.239'W	3891		salt and oxygen sampled for calibration	
MSM76_191-1	RO/CTD/ADCP	05.09.18 14:06	(in the water	77° 37.989'N 005° 24.571'W	4605			
MSM76_191-1	RO/CTD/ADCP	05.09.18 14:18	max. depth	77° 37.990'N 005° 24.568'W	4599	451,8	12,3	
MSM76_191-1	RO/CTD/ADCP	05.09.18 14:33	on deck	77° 37.989'N 005° 24.568'W	4605			
MSM76_192-1	RO/CTD/ADCP	05.09.18 15:14	(in the water	77° 37.962'N 005° 13.605'W	7580			temperature loggers were attached for calibration
MSM76_192-1	RO/CTD/ADCP	05.09.18 15:33	max. depth	77° 37.963'N 005° 13.603'W	7570		748,4	13,2
MSM76_192-1	RO/CTD/ADCP	05.09.18 16:12	on deck	77° 37.963'N 005° 13.608'W	7566			salt and oxygen sampled for calibration
MSM76_193-1	RO/CTD/ADCP	05.09.18 16:45	(in the water	77° 37.976'N 004° 56.335'W	11303			temperature loggers were attached for calibration
MSM76_193-1	RO/CTD/ADCP	05.09.18 17:12	max. depth	77° 37.984'N 004° 56.383'W	11284	1118,7	15,4	
MSM76_193-1	RO/CTD/ADCP	05.09.18 17:59	on deck	77° 37.984'N 004° 56.387'W	11304			
MSM76_194-1	RO/CTD/ADCP	05.09.18 18:42	(in the water	77° 37.989'N 004° 42.300'W	15058			
MSM76_194-1	RO/CTD/ADCP	05.09.18 19:12	max. depth	77° 37.990'N 004° 42.315'W	15041	1490,2	16,5	
MSM76_194-1	RO/CTD/ADCP	05.09.18 19:45	on deck	77° 37.990'N 004° 42.314'W	15028			salt and oxygen sampled for calibration
MSM76_195-1	RO/CTD/ADCP	05.09.18 20:55	(in the water	77° 37.985'N 004° 28.156'W	18967			
MSM76_195-1	RO/CTD/ADCP	05.09.18 21:32	max. depth	77° 37.985'N 004° 28.156'W	18970	1888,8	15	
MSM76_195-1	RO/CTD/ADCP	05.09.18 22:14	on deck	77° 37.986'N 004° 28.155'W	18973			
MSM76_196-1	RO/CTD/ADCP	05.09.18 22:46	(in the water	77° 37.986'N 004° 14.167'W	22976			
MSM76_196-1	RO/CTD/ADCP	05.09.18 23:30	max. depth	77° 37.984'N 004° 14.146'W	23003		2288	14,3
MSM76_196-1	RO/CTD/ADCP	06.09.18 00:20	on deck	77° 37.984'N 004° 14.127'W	22978			salt and oxygen sampled for calibration
MSM76_197-1	RO/CTD/ADCP	06.09.18 00:57	(in the water	77° 37.987'N 003° 59.661'W	25947			
MSM76_197-1	RO/CTD/ADCP	06.09.18 01:49	max. depth	77° 37.992'N 003° 59.598'W	25890	2579	14,7	
MSM76_197-1	RO/CTD/ADCP	06.09.18 02:40	on deck	77° 37.992'N 003° 59.560'W	25871			
MSM76_198-1	MOOR	06.09.18 14:10	released	78° 59.473'N 005° 39.962'W				no depth information
MSM76_198-1	MOOR	06.09.18 14:13	at surface	78° 59.475'N 005° 39.960'E				
MSM76_198-1	MOOR	06.09.18 15:52	recovered	79° 01.261'N 005° 40.395'E	19315			F5-17
MSM76_199-1	RO/CTD/ADCP	06.09.18 17:39	(in the water	79° 00.001'N 004° 00.067'E	27092			done with the CTD of the ship
MSM76_199-1	RO/CTD/ADCP	06.09.18 18:30	max. depth	78° 59.999'N 003° 59.934'E	27105			
MSM76_199-1	RO/CTD/ADCP	06.09.18 19:19	on deck	78° 59.998'N 003° 59.935'E	27073			
MSM76_200-1	RO/CTD/ADCP	06.09.18 19:49	(in the water	78° 59.999'N 003° 59.936'E	27099			
MSM76_200-1	RO/CTD/ADCP	06.09.18 20:39	max. depth	78° 59.999'N 003° 59.937'E	27099		2695,2	15,1
MSM76_200-1	RO/CTD/ADCP	06.09.18 21:33	on deck	79° 00.012'N 003° 59.985'E	27096			salt and oxygen sampled for calibration
MSM76_201-1	RO/CTD/ADCP	06.09.18 22:25	(in the water	79° 00.012'N 004° 29.846'E	24908			
MSM76_201-1	RO/CTD/ADCP	06.09.18 23:10	max. depth	79° 00.013'N 004° 29.871'E	24934	2479	12,9	
MSM76_201-1	RO/CTD/ADCP	07.09.00 00:01	on deck	79° 00.012'N 004° 29.860'E	24960			
MSM76_202-1	MOOR	07.09.18 04:54	released	79° 00.517'N 008° 00.674'E				no depth information
MSM76_202-1	MOOR	07.09.18 04:57	at surface	79° 00.531'N 008° 00.549'E				
MSM76_202-1	MOOR	07.09.18 06:17	recovered	78° 59.815'N 007° 59.044'E	10733			F3-17
MSM76_203-1	MOOR	07.09.18 06:58	released	79° 00.402'N 008° 20.568'E				no depth information
MSM76_203-1	MOOR	07.09.18 07:01	at surface	79° 00.395'N 008° 20.637'E				
MSM76_203-1	MOOR	07.09.18 07:53	recovered	78° 59.954'N 008° 18.907'E	8004			F2-18
MSM76_204-1	MOOR	07.09.18 08:54	released	79° 00.086'N 008° 33.062'E				no depth information
MSM76_204-1	MOOR	07.09.18 09:15	searching for F1-16	79° 00.036'N 008° 32.867'E				ship moved 4 miles north with hydrophone in water
MSM76_204-1	MOOR	07.09.18 10:12	searching for F1-16	79° 03.727'N 008° 35.815'E				ship moved 8 miles south with hydrophone in water
MSM76_204-1	MOOR	07.09.18 11:25	searching for F1-16	78° 56.010'N 008° 34.298'E				ship moved 4 miles north with hydrophone in water
MSM76_204-1	MOOR	07.09.18 12:28	Hydropon on deck	79° 00.026'N 008° 32.624'E				recovery of F1-16 unsuccessful
MSM76_205-1	MOOR	07.09.18 12:58	deployed	79° 00.000'N 008° 32.554'E				F1-17, no depth information
MSM76_206-1	MOOR	07.09.18 13:48	start	78° 59.997'N 008° 19.725'E	7830			
MSM76_206-1	MOOR	07.09.18 14:50	deployed	78° 59.994'N 008° 19.728'E	7830			F2-19
MSM76_207-1	RO/CTD/ADCP	07.09.18 18:25	(in the water	79° 00.008'N 004° 52.424'E	24230			
MSM76_207-1	RO/CTD/ADCP	07.09.18 19:11	max. depth	79° 00.008'N 004° 52.419'E	24217		2405,2	15
MSM76_207-1	RO/CTD/ADCP	07.09.18 20:00	on deck	79° 00.008'N 004° 52.420'E	24215			
MSM76_208-1	RO/CTD/ADCP	07.09.18 20:49	(in the water	79° 00.006'N 005° 18.616'E	22789			
MSM76_208-1	RO/CTD/ADCP	07.09.18 21:32	max. depth	79° 00.107'N 005° 18.349'E	22694	2252	14,5	
MSM76_208-1	RO/CTD/ADCP	07.09.18 22:20	on deck	79° 00.248'N 005° 17.958'E	22535			salt and oxygen sampled for calibration
MSM76_209-1	RO/CTD/ADCP	07.09.18 23:05	(in the water	79° 00.044'N 005° 44.563'E	20339			
MSM76_209-1	RO/CTD/ADCP	07.09.18 23:46	max. depth	79° 00.049'N 005° 44.581'E	20417		2024,2	13,2
MSM76_209-1	RO/CTD/ADCP	07.09.18 00:27	on deck	79° 00.049'N 005° 44.582'E	20387			
MSM76_210-1	RO/CTD/ADCP	07.09.18 01:14	(in the water	79° 00.012'N 006° 10.943'E	16810			
MSM76_210-1	RO/CTD/ADCP							

MSM76_214-1	MOOR	08.09.18 09:36	start	79° 10.010'N 006° 20.009'E	14139		
MSM76_214-1	MOOR	08.09.18 10:23	deployed	79° 09.985'N 006° 19.982'E	14143		F4-OZA, 100 m too long, therefore mooring was released again
MSM76_214-1	MOOR	08.09.18 13:03	released	79° 10.163'N 006° 21.770'E			no depth information
MSM76_214-1	MOOR	08.09.18 13:04	at surface	79° 10.159'N 006° 21.812'E			
MSM76_214-1	MOOR	08.09.18 14:01	recovered	79° 09.642'N 006° 20.590'E			F4-OZA
MSM76_214-2	MOOR	08.09.18 14:51	deployed	79° 09.988'N 006° 19.962'E	14180		F4-OZA
MSM76_215-1	RO/CTD/ADCP	08.09.18 16:12	in the water	79° 00.012'N 007° 04.349'E	12317		
MSM76_215-1	RO/CTD/ADCP	08.09.18 16:36	max. depth	79° 00.011'N 007° 04.344'E	12288	1215,8	16,9
MSM76_215-1	RO/CTD/ADCP	08.09.18 17:04	on deck	79° 00.010'N 007° 04.341'E	12289		
MSM76_216-1	RO/CTD/ADCP	08.09.18 17:34	in the water	79° 00.011'N 007° 16.435'E	12547		
MSM76_216-1	RO/CTD/ADCP	08.09.18 18:01	max. depth	79° 00.010'N 007° 16.430'E	12530	1236,9	16
MSM76_216-1	RO/CTD/ADCP	08.09.18 18:30	on deck	79° 00.010'N 007° 16.436'E	12537		oxygen sampled for calibration
MSM76_217-1	RO/CTD/ADCP	08.09.18 19:00	in the water	79° 00.011'N 007° 29.536'E	12227		
MSM76_217-1	RO/CTD/ADCP	08.09.18 19:26	max. depth	79° 00.010'N 007° 29.536'E	12181		14,7 max. depth not noted
MSM76_217-1	RO/CTD/ADCP	08.09.18 19:51	on deck	79° 00.010'N 007° 29.540'E	12190		
MSM76_218-1	RO/CTD/ADCP	08.09.18 20:25	in the water	79° 00.009'N 007° 42.632'E	11738		
MSM76_218-1	RO/CTD/ADCP	08.09.18 20:50	max. depth	79° 00.008'N 007° 42.637'E	11736	1163	14,5
MSM76_218-1	RO/CTD/ADCP	08.09.18 21:19	on deck	79° 00.008'N 007° 42.637'E	11727		oxygen sampled for calibration
MSM76_219-1	RO/CTD/ADCP	08.09.18 21:57	in the water	79° 00.007'N 007° 55.717'E	11080		
MSM76_219-1	RO/CTD/ADCP	08.09.18 22:21	max. depth	79° 00.009'N 007° 55.729'E	11074		14,5 max. depth not noted
MSM76_219-1	RO/CTD/ADCP	08.09.18 22:44	on deck	79° 00.009'N 007° 55.723'E	11086		
MSM76_220-1	RO/CTD/ADCP	08.09.18 23:31	in the water	79° 00.021'N 008° 08.803'E	9691		
MSM76_220-1	RO/CTD/ADCP	08.09.18 23:52	max. depth	79° 00.010'N 008° 08.807'E	9705	962,2	12,2
MSM76_220-1	RO/CTD/ADCP	08.09.18 00:16	on deck	79° 00.010'N 008° 08.808'E	9698		oxygen sampled for calibration
MSM76_221-1	RO/CTD/ADCP	08.09.18 01:02	in the water	79° 00.013'N 008° 22.852'E	7186		
MSM76_221-1	RO/CTD/ADCP	08.09.18 01:22	max. depth	79° 00.009'N 008° 22.820'E	7188		13,1 max. depth not noted
MSM76_221-1	RO/CTD/ADCP	08.09.18 01:39	on deck	79° 00.008'N 008° 22.822'E	7178		
MSM76_222-1	RO/CTD/ADCP	08.09.18 02:15	in the water	79° 00.010'N 008° 35.766'E	2641		
MSM76_222-1	RO/CTD/ADCP	08.09.18 02:27	max. depth	79° 00.009'N 008° 35.765'E	2654	256	12,1
MSM76_222-1	RO/CTD/ADCP	08.09.18 02:40	on deck	79° 00.009'N 008° 35.768'E	2654		oxygen sampled for calibration
MSM76_223-1	RO/CTD/ADCP	08.09.18 03:14	in the water	79° 00.011'N 008° 48.091'E	2200		
MSM76_223-1	RO/CTD/ADCP	08.09.18 03:24	max. depth	79° 00.010'N 008° 48.087'E	2220		15 max. depth not noted
MSM76_223-1	RO/CTD/ADCP	08.09.18 03:32	on deck	79° 00.011'N 008° 48.087'E	2204		
MSM76_224-1	RO/CTD/ADCP	08.09.18 04:01	in the water	79° 00.011'N 009° 00.040'E	2024		
MSM76_224-1	RO/CTD/ADCP	08.09.18 04:10	max. depth	79° 00.010'N 009° 00.036'E	2025	189,3	14,9
MSM76_224-1	RO/CTD/ADCP	08.09.18 04:22	on deck	79° 00.011'N 009° 00.035'E	2028		
MSM76_225-1	MOOR	08.09.18 05:34	start	78° 59.997'N 007° 59.733'E	10711		
MSM76_225-1	MOOR	08.09.18 06:16	deployed	78° 59.988'N 007° 59.718'E	10729		F3-18
MSM76_226-1	RO/CTD/ADCP	08.09.18 14:04	in the water	80° 00.026'N 002° 44.709'E	25983		done with the CTD of the ship
MSM76_226-1	RO/CTD/ADCP	08.09.18 14:51	max. depth	80° 00.042'N 002° 44.995'E	25975		
MSM76_226-1	RO/CTD/ADCP	08.09.18 15:39	on deck	80° 00.042'N 002° 44.996'E	25971		
MSM76_227-1	RO/CTD/ADCP	08.09.18 15:57	in the water	80° 00.042'N 002° 44.995'E	25980		temperature loggers were attached for calibration
MSM76_227-1	RO/CTD/ADCP	08.09.18 16:27	max. depth	80° 00.042'N 002° 44.994'E	1497		no depth information, lowering only to 1500 m
MSM76_227-1	RO/CTD/ADCP	08.09.18 17:10	on deck	80° 00.042'N 002° 44.993'E	25969		
MSM76_228-1	RO/CTD/ADCP	08.09.18 18:17	in the water	79° 50.040'N 002° 45.058'E	34901		lowering only to 800 m
MSM76_228-1	RO/CTD/ADCP	08.09.18 18:34	max. depth	79° 50.040'N 002° 45.059'E	34815	797	
MSM76_228-1	RO/CTD/ADCP	08.09.18 18:51	on deck	79° 50.040'N 002° 45.054'E	34908		
MSM76_229-1	RO/CTD/ADCP	08.09.18 19:59	in the water	79° 40.073'N 002° 45.078'E	31608		lowering only to 800 m
MSM76_229-1	RO/CTD/ADCP	08.09.18 20:16	max. depth	79° 40.073'N 002° 45.073'E	31614	800,5	
MSM76_229-1	RO/CTD/ADCP	08.09.18 20:34	on deck	79° 40.074'N 002° 45.071'E	31506		
MSM76_230-1	RO/CTD/ADCP	08.09.18 21:37	in the water	79° 30.072'N 002° 45.159'E	27964		lowering only to 800 m
MSM76_230-1	RO/CTD/ADCP	08.09.18 21:56	max. depth	79° 30.066'N 002° 45.195'E	27945	798,4	
MSM76_230-1	RO/CTD/ADCP	08.09.18 22:14	on deck	79° 30.067'N 002° 45.188'E	27990		
MSM76_231-1	RO/CTD/ADCP	08.09.18 23:23	in the water	79° 20.079'N 002° 44.985'E	28070		lowering only to 800 m
MSM76_231-1	RO/CTD/ADCP	08.09.18 23:41	max. depth	79° 20.071'N 002° 45.022'E	28181	797,1	
MSM76_231-1	RO/CTD/ADCP	08.09.18 23:59	on deck	79° 20.073'N 002° 45.017'E	28068		
MSM76_232-1	RO/CTD/ADCP	08.09.18 01:08	in the water	79° 10.059'N 002° 45.233'E	54829		lowering only to 800 m
MSM76_232-1	RO/CTD/ADCP	08.09.18 01:26	max. depth	79° 10.069'N 002° 45.052'E	54826	797,9	
MSM76_232-1	RO/CTD/ADCP	08.09.18 01:46	on deck	79° 10.068'N 002° 45.057'E	54843		
MSM76_233-1	RO/CTD/ADCP	08.09.18 02:56	in the water	79° 00.079'N 002° 45.047'E	23835		lowering only to 800 m
MSM76_233-1	RO/CTD/ADCP	08.09.18 03:14	max. depth	79° 00.079'N 002° 45.046'E	24007	797,7	
MSM76_233-1	RO/CTD/ADCP	08.09.18 03:33	deck	79° 00.079'N 002° 45.047'E	24035		
MSM76_234-1	RO/CTD/ADCP	08.09.18 04:36	in the water	78° 50.091'N 002° 45.040'E	24465		lowering only to 800 m
MSM76_234-1	RO/CTD/ADCP	08.09.18 04:52	max. depth	78° 50.091'N 002° 45.034'E	24463	796,7	
MSM76_234-1	RO/CTD/ADCP	08.09.18 05:11	on deck	78° 50.091'N 002° 45.021'E	24466		
MSM76_235-1	RO/CTD/ADCP	08.09.18 06:03	in the water	78° 40.285'N 002° 45.410'E	25342		lowering only to 800 m
MSM76_235-1	RO/CTD/ADCP	08.09.18 06:35	max. depth	78° 40.101'N 002° 45.027'E	25344	797	
MSM76_235-1	RO/CTD/ADCP	08.09.18 06:54	on deck	78° 40.101'N 002° 45.028'E	25340		
MSM76_236-1	RO/CTD/ADCP	08.09.18 08:03	in the water	78° 30.124'N 002° 44.981'E	24054		lowering only to 800 m
MSM76_236-1	RO/CTD/ADCP	08.09.18 08:21	max. depth	78° 30.125'N 002° 44.950'E	24060	794,4	
MSM76_236-1	RO/CTD/ADCP	08.09.18 08:40	on deck	78° 30.125'N 002° 44.949'E	24050		
MSM76_237-1	RO/CTD/ADCP	08.09.18 09:52	in the water	78° 20.137'N 002° 44.931'E	28380		lowering only to 800 m
MSM76_237-1	RO/CTD/ADCP	08.09.18 10:11	max. depth	78° 20.137'N 002° 44.936'E	28370	800	
MSM76_237-1	RO/CTD/ADCP	08.09.18 10:31	on deck	78° 20.137'N 002° 44.935'E	28374		
MSM76_238-1	RO/CTD/ADCP	08.09.18 11:41	in the water	78° 10.134'N 002° 44.988'E	28829		lowering only to 800 m
MSM76_238-1	RO/CTD/ADCP	08.09.18 11:59	max. depth	78° 10.110'N 002° 44.964'E	28838	799,5	
MSM76_238-1	RO/CTD/ADCP	08.09.18 12:17	on deck	78° 10.110'N 002° 44.965'E	28851		
MSM76_239-1	RO/CTD/ADCP	08.09.18 13:25	in the water	78° 00.014'N 002° 44.951'E	29953		
MSM76_239-1	RO/CTD/ADCP	08.09.18 14:19	max. depth	78° 00.010'N 002° 44.964'E	29925	2992,5	15,9
MSM76_239-1	RO/CTD/ADCP	08.09.18 15:28	on deck	78° 00.010'N 002° 44.964'E	29929		