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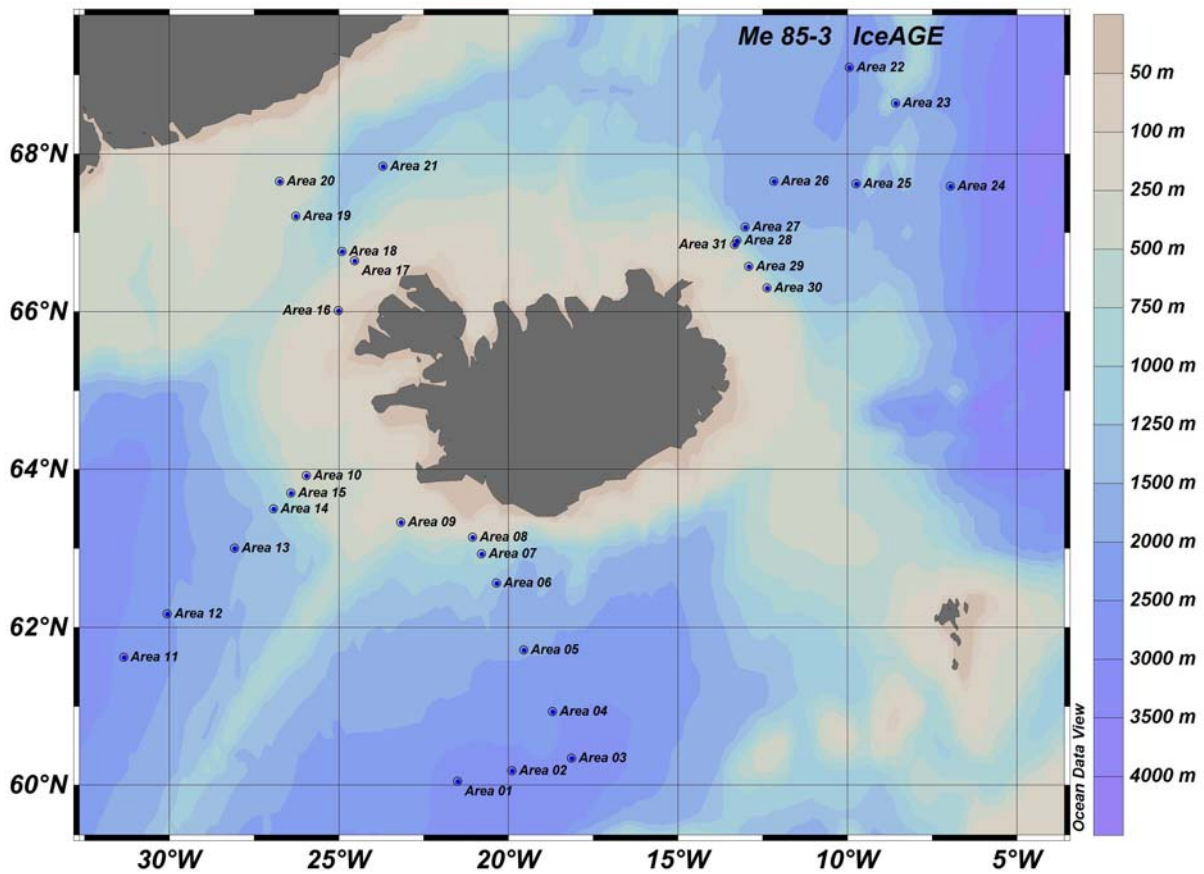
Short Cruise Report RV Meteor M85/3

Reykjavik / Iceland – Cuxhaven / Germany

August 27th – September 28th, 2011

Chief Scientist: Dr. Saskia Brix

Captain: Michael Schneider



RV Meteor leg 85/3 study area around Iceland

Objective

The Meteor M85/3 expedition was carried out jointly by Senckenberg am Meer, the University of Hamburg and the University of Iceland including scientists from 15 different institutions. The main objectives of the expedition were related to the biodiversity and distribution patterns of marine benthic species in Icelandic waters.

The IceAGE-project (Icelandic marine Animals: Genetics and Ecology) aims to combine classical taxonomic methods with modern aspects of biodiversity research, in particular phylogeography (population genetics and DNA barcoding) and ecological modeling in the climatically sensitive region around Iceland. The scientific approach of this expedition is imbedded in the umbrella of the Census of the Diversity of Abyssal Marine Life (CeDAMar). Financial support is provided by the German Science Foundation (DFG).

Narrative

Starting in Reykjavik on the 27th August 2011 at 08:00 o'clock we went to the Iceland Basin for the first transect from the deep sea to the southern shelf close to the volcano eruptions from 2010 and 2011. After a successful sampling on this first transect we crossed the Reykjanes Ridge. A deviation was made going back to Reykjavik on the September 5th, due to illness of one scientist. Station work continued in the evening of the same day and we finished the second transect from the deep sea of the Irminger Basin to the west Icelandic shelf in the second week. Stormy weather conditions made it necessary to hide in the west Icelandic fjords for two days. The third transect could be started on Tuesday, September 13th and we got good samples as well from both sides of the Denmark Strait comparing the faunal elements of the Icelandic and Greenlandic shelf. The fourth and last transect of the expedition started in the deep sea of the Norwegian Basin and ended on the east Icelandic shelf on September 23rd. Stormy weather conditions made further station work impossible.

In total, we sampled 31 working-areas (241 stations) on four transects during M85/3 representing different faunal communities and habitats. Prior to each station PARASOUND and MULTIBEAM (EM 122/710) gave information about the sampling area in a circle of minimum 2 sm to pick the best location for the station coordinates. At each working area the following gear were deployed: CTD, Multicorer (MUC), a grab (boxcorer: GKG, Van Veen:VV or Shipek grab: SG) and two trawled gears (epibenthic sledge: EBS, Agassiz Trawl: AGT or Triangle Dredge: TAD). If possible in the timeframe, station work replicates were taken. Which type of gear was deployed depended on the conditions we found in the substrate (sediment type, rocks, depth etc.).

Sorting of the samples started on board. Subsamples were taken from each station for the sorting process on board. The complete sample amount will be sorted in the home laboratories of the DZMB (HH and WHV) in Germany and the UIRCS-TNC in Iceland. All samples and sorted animals will be available in a project database. For as many specimens as possible we prepared DNA extractions on board. Frozen material was stored in -20, -80 °C or liquid nitrogen. The last station work ended on September 23rd, switching off logging of EM122/170 and ADCP. On S. 28th RV METEOR reached Cuxhaven on schedule and was moored alongside the pier at 8:30 o'clock.

Acknowledgements

We like to thank Captain Michael Schneider, the officers and crew of RV Meteor for their support and their help during our stationwork. The ship and expedition funding was provided by the German Science Foundation within the Meteor/Merian core program (leg M85/3) and supported by the Federal Ministry of Education, Science, Research and Technology (BMBF). The CTD system was kindly calibrated prior to our cruise by our colleagues from M85/2.

Cruise participants

Name	Function/working group	Institute
1. Brix, Saskia Dr.	Fahrtleiter / <i>Chief Scientist</i>	DZMB HH
2. Martínez Arbizu, Pedro Prof. Dr.	Meiofauna/MUC	DZMB WHV
3. Yasuhara, Moriaki Prof. Dr.	Meiofauna/MUC	UHong Kong
4. Bauernfeind, Wiebke	Meiofauna/MUC	DZMB WHV
5. Ostmann, Alexandra	Meiofauna/MUC	DZMB WHV
6. Khodami, Sahar	Meiofauna/MUC	DZMB WHV
7. Meißner, Karin Dr.	Macrofauna/GKG	DZMB HH
8. Hoffmann, Sven	Macrofauna/GKG	DZMB HH
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10. Fiege, Dieter Dr.	Macrofauna/GKG	Senckenberg
11. Fiorentino, Dario Dr.	Macrofauna/GKG	DZMB HH
12. Murray, Anna	Macrofauna/GKG	Australian Museum
13. Riehl, Torben	Macrofauna/EBS	UHH
14. Svavarsson, Jörundur Prof. Dr.	Macrofauna/EBS	Uiceland
15. Brenke, Nils Dr.	Macrofauna/EBS	Oktopus
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18. Blazewicz, Magdalena Prof. Dr.	Macrofauna/EBS	ULodz
19. Holst, Sabine Dr.	Megafauna/AGT	DZMB HH
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25. Cannon, Johanna	AGT/Labor	UAuburn
26. Kocot, Kevin	AGT/Labor	UAuburn
27. Lucas-Rodriguez, Yolanda	AGT/Labor	USantiagoCompostela
28. Haraldsdottir, Sigrún	AGT/Labor	UIRCS-TNC
29. Miller, Max	Bordwetterwarte	DWD
30. Buldt, Klaus	Bordwetterwarte	DWD

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USantiagoCompostela

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List of Stations

(on following pages)

										Meteor	ME 85- 3	IceAGE			
Area 01			South Iceland	Iceland Basin	Deep Sea		CTD values (ground)			measurement depth [m]: 2736	temperature [°C] 2.5253	salinity [psu] 34.9916	oxygen saturation [mg/l] 5.85461		
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction
957	MB-PS	28. Aug. 11	12:22	12:43	-21.57800	-21.49783	60.04650	60.04633		2730	2746.5	93.3	6.8		6 WSW valid
958	CTD	28. Aug. 11	12:56	14:00	-21.50167	-21.50233	60.04533	60.04550		2745.9	2747.6	304	0.4	2738	6 WSW valid
959	MUC	28. Aug. 11	15:52		-21.50233		60.04550			2749		294.8	0	2754	6 W valid
960	GKG	28. Aug. 11	18:02		-21.50233		60.04550			2750.4		108	0	2756	5 W valid
961	GKG	28. Aug. 11	20:10		-21.50233		60.04550			2748.3		233.8	0	2756	6 SW valid
962	MB-PS	28. Aug. 11	21:08	21:42	-21.50233	-21.41733	60.04550	60.04533		2747.1	2740.6	359.8	-0.2		6 SW valid
963	EBS	28. Aug. 11	23:34	01:12	-21.46767	-21.49800	60.04550	60.04550	2679	2749.4	2747	277	0.9	4000	6 SW valid
964	PLA 300 µ	28. Aug. 11	22:00	22:17	-21.41800	-21.42650	60.04600	60.04566		2741.8	2742.4	246.5	0.6		7 WSW valid
965	PLA 300 µ	28. Aug. 11	22:20	22:34	-21.42800	-21.43533	60.04566	60.04550		2743	2745.2	270.2	1		7 WSW valid
966	MB-PS	29. Aug. 11	02:26	02:46	-21.49850	-21.42133	60.04633	60.04650		2747.9	2743.1	105.9	6.2		7 SW valid
967	EBS	29. Aug. 11	04:52	06:25	-21.47567	-21.50116	60.04616	60.04633	2462,067	2750.4	2747.1	260	0.8	4000	8 SW valid
968	AGT	29. Aug. 11	10:12	10:28	-21.57683	-21.59283	60.04550	60.04550	4233,7	2732	2729	259.9	1.9	4951	8 SSW
Area 02			South Iceland	Iceland Basin	Deep Sea		CTD values (ground)			measurement depth [m]: 2655	temperature [°C] 2.7575	salinity [psu] 34.9891	oxygen saturation [mg/l] 255.493		
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction
969	MB-PS	29. Aug. 11	20:00	20:11	-19.91033	-19.88333	60.17266	60.18766		2652.2	2644.9	35	7.9		9 SSW valid
970	CTD	29. Aug. 11	20:24	21:59	-19.89200	-19.89250	60.18316	60.18283		2674	2673.9	97.3	0.3	2641	7 SSW valid
971	MUC	30. Aug. 11	23:52		-19.89250		60.18283			2670.1		71.9	0	2655	8 S valid
Area 03			South Iceland	Iceland Basin	Deep Sea		CTD values (ground)			measurement depth [m]: 2568	temperature [°C] 2.6581	salinity [psu] 34.9955	oxygen saturation [mg/l] 258.389		
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction
972	MB-PS	30. Aug. 11	05:45	06:09	-18.16050	-18.14516	60.29950	60.34200		2564.5	2564.3	14.5	7.3		3 SSW valid
973	CTD	30. Aug. 11	06:28	07:25	-18.14483	-18.14483	60.34216	60.34233		2564.4	2563.7	137.4	0.6	2569	4 S valid
974	MUC	30. Aug. 11	09:18		-18.14483		60.34233			2562.9		171.5	0.6	2582	5 SSE valid
975	GKG	30. Aug. 11	11:16		-18.14483		60.34233			2571.8		355.4	0.6	2582	7 SSE failed
976	GKG	30. Aug. 11	13:14		-18.14450		60.34233			2568.6		73.8	0	2582	8 SSE failed
977	GKG	30. Aug. 11	15:08		-18.14483		60.34233			2571.7		95.5	0	2583	8 SSE valid
978	MB-PS	30. Aug. 11	16:17	16:38	-18.14767	-18.12483	60.34216	60.38300		2572	2564.6	11.8	3.7		7 SSE valid
979	EBS	30. Aug. 11	18:25	19:50	-18.13733	-18.14333	60.35800	60.34533	2280,333	2567.6	2572.2	210	0.9	3800	6 SSW valid

980	PLA 300 μ	30. Aug. 11	16:58	17:15	-18.12517	-18.12766	60.38250	60.37766		2568.2	2563.9	189.3	0.9	6	SSE	valid	
981	PLA 300 μ	30. Aug. 11	17:19	17:30	-18.12817	-18.12966	60.37650	60.37366		2563.2	2574.2	156.3	1.1	6	S	valid	
982	MB-PS	30. Sep. 11	20:43	21:15	-18.14283	-18.13033	60.49516	60.38200		2570.6	2565.2	183.6	0	7	S	valid	
983	EBS	30. Aug. 11	23:23	00:42	-18.13567	-18.14183	60.35733	60.34450	2102,933	2567.7	2568.5	262	0.5	3802	7	S	valid
984	AGT	31. Aug. 11	04:32	04:48	-18.14917	-18.15283	60.32616	60.31850	3218	2572	2573	160.4	1.4	4501	9	S	valid

Area 04	South Iceland	Iceland Basin	Deep Sea	CTD values (ground)						measurement depth [m]: 2487	temperature [°C] 2.2983	salinity [psu] 34.9864	oxygen saturation [mg/l] 261.1616
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Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
985	MB-PS	31. Aug. 11	11:29	11:38	-18.68883	-18.69716	60.91950	60.93300		2497.1	2493.4	331.7	9.6		10	S	valid
986	CTD	31. Aug. 11	11:49	12:42	-18.69667	-18.69683	60.92833	60.92800		2494.6	2491.8	249	0.7	2489	9	S	valid
987	MUC	31. Aug. 11	14:29		-18.69683		60.92800			2493.3		295.8	0.5	2501	10	SSE	valid

Area 05	South Iceland	Iceland Basin	Deep Sea	CTD values (ground)						measurement depth [m]: 1910	temperature [°C] 2.7443	salinity [psu] 34.9866	oxygen saturation [mg/l] 258.5425
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Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
988	MB-PS	31. Aug. 11	20:09	20:30	-19.51283	-19.57333	61.69250	61.72266		1937.3	1897.4	306.3	7.5		13	SE	valid
989	EBS	31. Aug. 11	21:50	22:54	-19.54933	-19.53366	61.71050	61.70283	1648,6	1912.3	1920.6	129	1.4	2900	13	SSE	valid
990	PLA 300 μ	31. Aug. 11	21:04	21:21	-19.56967	-19.56233	61.72150	61.71733		1901.1	1902.7	146.3	2.3		12	SE	valid
991	PLA 300 μ	31. Aug. 11	21:25	21:44	-19.56050	-19.55200	61.71633	61.71183		1906.6	1913.5	196.6	1		14	SE	valid
992	MB-PS	01. Sep. 11	00:18	00:52	-19.52217	-19.57150	61.68983	61.69766		1940.4	4320.6	336.9	6.1		15	SE	valid
993	AGT	01. Sep. 11	02:25	02:40	-19.53200	-19.52483	61.73050	61.69100	2906	1926	1940	271.6	1.7	3401	13	SE	valid
994	CTD	01. Sep. 11	05:34	06:16	-19.54633	-19.54633	61.70816	61.70816		1915.5	1915.1	285.2	0.4	1919	15	SE	valid
995	MUC	01. Sep. 11	07:52		-19.54633		61.70700			1918.2		183.5	0.1	1932	16	ESE	failed
996	GKG	01. Sep. 11	08:31		-19.54633		61.70816			1913		240.6	0.2	1923	18	ESE	valid
997	MUC	01. Sep. 11	11:09		-19.54633		61.70816			1914.5		225.4	0.3	1928	18	ESE	valid
998	MB-PS	01. Sep. 11	17:47	18:07	-20.27450	-20.35233	62.54133	62.55816		1467.8	1392.6	301.6	8.9		17	E	valid

Area 06	South Iceland	Iceland Basin	Slope	CTD values (ground)						measurement depth [m]: 1386	temperature [°C] 3.8804	salinity [psu] 35.02456	oxygen saturation [mg/l] 254.57
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Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
999	MB-PS	02. Sep. 11	18:40	08:17	-20.35617	-20.35683	62.56133	62.55833		1391.3	1393.6	332.9	3.7		17	E	valid
1000	CTD	02. Sep. 11	08:22	09:09	-20.35483	-20.35300	62.55850	62.55833		1394.7	1394.4	194.9	0.1	1382	11	E	valid
1001	MUC	02. Sep. 11	10:12		-20.35300		62.55833			1393		178.7	0.7	1405	12	ENE	failed
1002	GKG	02. Sep. 11	11:28		-20.35300		62.55833			1392.4		129.1	0.3	1404	11	E	valid
1003	GKG	02. Sep. 11	12:43		-20.35300		62.55833			1390		302.7	0.2	1404	13	ENE	valid
1004	MUC	02. Sep. 11	14:02		-20.35300		62.55833			1392.2		162.9	0.3	1396	12	ENE	failed

1005	MB-PS	02. Sep. 11	14:38	15:18	-20.35150	-20.40850	62.55933	62.54633		1388.9	1377.2	86	1.7	14	ENE	valid	
1006	EBS	02. Sep. 11	16:25	17:23	-23.38883	-20.37016	62.55083	62.55483	1338,2	1386.8	1390.1	142	0.9	2100	10	ENE	valid
1007	PLA 300 μ	02. Sep. 11	15:35	15:59	-20.41767	-20.40366	62.54566	62.54766		1377.1	1378	87.6	0.7	12	ENE	valid	
1008	PLA 300 μ	02. Sep. 11	16:00	16:18	-20.40300	-20.39250	62.54783	62.55000		1379.9	1382.7	358.4	1.3	10	ENE	valid	
1009	MB-PS	02. Sep. 11	18:22	18:36	-20.36500	-20.42000	62.55600	62.54783		1386.7	1370.3	256.4	4.9	9	ENE	valid	
1010	EBS	02. Sep. 11	19:49	20:41	-20.39517	-20.38116	62.55166	62.55366	1183	1384.8	1389	97.9	0.9	2101	7	NE	valid
1011	AGT	02. Sep. 11	22:50	23:06	-20.37500	-20.35900	62.55583	62.55783	2144	1389	1390	75.4	1.9	2501	5	NE	valid

Area 07				South Iceland	Iceland Basin	Shelf	CTD values (ground)		measurement depth [m]: 902	temperature [°C] 5.29	salinity [psu] 35.08	oxygen saturation [mg/l] 242.79					
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1012	MB-PS	03. Sep. 11	03:37	04:15	-20.71133	-20.85216	62.94050	62.91033		902.2	916.5	338.6	8.5		4	NE	valid
1013	CTD	03. Sep. 11	04:37	04:59	-20.78983	-20.78966	62.92650	62.92633		908	907.9	176.5	0.3	899	4	NE	valid
1014	MUC	03. Sep. 11	05:56		-20.78967		62.92633			911.8		36.7	0	919	6	NE	valid
1015	GKG	03. Sep. 11	07:04		-20.78967		62.92650			913.2		14.1	0	920	6	ENE	valid
1016	GKG	03. Sep. 11	08:08		-20.78950		62.92633			917.5		0	0	916	5	NE	failed
1017	EBS	03. Sep. 11	09:29	10:03	-20.77383	-20.76133	62.93066	62.93400	733	891.7	910.3	97.1	0.7	1401	7	ENE	valid
1018	PLA 300 μ	03. Sep. 11	09:44	10:02	-20.76633	-20.76133	62.93266	62.93400		909.5	912.3	57	1		6	ENE	valid
1019	EBS	03. Sep. 11	11:20	12:02	-20.74350	-20.72950	62.93866	62.94216	974,7333	913.6	905.9	32.3	1	1400	6	ENE	valid
1020	PLA 300 μ	03. Sep. 11	10:55	11:12	-20.75667	-20.74783	62.93533	62.93766		910.9	910.5	340.6	0.9		6	ENE	valid
1021	AGT	03. Sep. 11	13:42	13:57	-20.77767	-20.76350	62.93133	62.93566	1412	886.6	908.1	32.8	1.8	1600	4	NNW	valid
1022	GKG	03. Sep. 11	15:44		-20.78933		62.92633			906.8		207.7	0.2	911	6	NW	valid

Area 08				South Iceland	Iceland Basin	Shelf	CTD values (ground)		measurement depth [m]: 265	temperature [°C] 8.36	salinity [psu] 35.23	oxygen saturation [mg/l] 240.43					
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1023	MB-PS	03. Sep. 11	17:38	17:47	-21.02917	-21.06283	63.13516	63.14450		290.4	258.9	295.1	7.2		7	WNW	valid
1024	CTD	03. Sep. 11	18:01	18:12	-21.04750	-21.04750	63.14016	63.14016		270.2	270.5	301	0.9	264	7	WNW	valid
1025	MUC	03. Sep. 11	18:40		-21.04750		63.14016			270.6		258.9	0	282	7	W	failed
1026	MB-PS	04. Sep. 11	00:46	01:20	-23.15950	-23.15733	63.36866	63.30816		272.4	290.9	293.4	9.4		9	N	valid

Area 09				South Iceland	Reykjanes Ridg	Shelf	CTD values (ground)		measurement depth [m]: 305	temperature [°C] 8.01	salinity [psu] 35.22	oxygen saturation [mg/l] 241.44					
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1027	CTD	04. Sep. 11	01:46	01:59	-23.16800	-23.16750	63.33266	63.33333		307.8	307.3	270.3	-0.6	304	8	NNW	valid
1028	van Veen	04. Sep. 11	02:20		-23.16667		63.33333			305		59	0	0	8	NNW	valid
1029	van Veen	04. Sep. 11	02:42		-23.16667		62.50000			305.7		206	0	315	8	NNW	failed

1030	van Veen	04. Sep. 11	02:58			-23.16667		63.33333		305.6		179	0	308	7	N	valid	
1031	GKG	04. Sep. 11	03:34			-23.16667		63.33333		305.3		88.8	0.1	316	6	N	valid	
1032	EBS	04. Sep. 11	05:08	05:38		-23.15767	-23.15950	63.30850	63.31266	273,4667	289.4	284.7	359	1.7	450	6	N	valid
1033	EBS	04. Sep. 11	06:10	06:33		-23.16017	-23.16150	63.31466	63.31866	365,2	288.5	293.6	338	0.8	450	8	N	valid
1034	AGT	04. Sep. 11	07:07	07:22		-23.16383	-23.16716	63.32466	63.33216	1166,8	297.2	307	336.7	1.8	540	8	N	valid
1035	MUC	04. Sep. 11	08:32			-23.16683		63.33333			306.7		251.7	0	328	7	N	valid

Area 10	South Iceland	Irminger Basin	Shelf	CTD values (ground)														
											measurement depth [m]:	212	temperature [°C]	7.42	salinity [psu]	35.19	oxygen saturation [mg/l]	246.74

Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
1036	MB-PS	05. Sep. 11	18:23	18:47	-25.91550	-25.96800	63.94833	63.92066		216.7	212.4	217.8	6.2		2	ENE	valid
1037	CTD	05. Sep. 11	18:53	19:05	-25.96433	-25.96433	63.92266	63.92266		214.5	214.2	287.3	0.2	211	2	NE	valid
1038	MUC	05. Sep. 11	19:39		-25.96433		63.92266			214.8		278.7	0.1	230	4	ENE	failed
1039	MUC	05. Sep. 11	20:08		-25.96433		63.92266			214.6		146.3	-0.1	223	4	NE	valid
1040	GKG	05. Sep. 11	20:47		-25.96417		63.92266			214.4		40.1	-0.1	225	5	ENE	failed
1041	GKG	05. Sep. 11	21:26		-25.96417		63.92266			214.9		28.9	-0.5	223	4	NE	failed
1042	GKG	05. Sep. 11	21:59		-25.96400		63.92283			214.9		102.6	0.1	223	3	ENE	failed
1043	EBS	05. Sep. 11	22:46	23:02	-25.96100	-25.95600	63.92433	63.92700	457,8	213.9	224.9	213.9	0.9	375	5	NE	valid
1044	PLA 300 μ	05. Sep. 11	22:43	22:58	-25.96250	-25.95600	63.92350	63.92700		214.7	215.8	48.3	1.1		5	NE	valid
1045	EBS	05. Sep. 11	23:37	23:54	-25.95350	-25.94800	63.92833	63.93100	381,5	218.4	217.3	26.1	1.2	375	4	ENE	valid
1046	PLA 300 μ	05. Sep. 11	23:32	23:52	-25.95583	-25.94800	63.92716	63.93100		215.3	217.8	26.7	0.8		4	ENE	valid
1047	AGT	06. Sep. 11	00:28	00:33	-25.94217	-25.93816	63.93450	63.93666	1100	209.4	212.4	51.4	1.5	381	3	ENE	valid
1048	MB-PS	06. Sep. 11	20:32	20:58	-31.33700	-31.37583	61.66350	61.61966		2551.9	2541.9	200.6	0		4	N	valid

Area 11	South Iceland	Irminger Basin	Deep Sea	CTD values (ground)														
											measurement depth [m]:	2530	temperature [°C]	3.16	salinity [psu]	34.94	oxygen saturation [mg/l]	254.17

Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
1049	CTD	06. Sep. 11	21:12	22:12	-31.35183	-32.36850	61.62350	61.62333		2542.4	2539	212.7	0.4	2522	3	NNE	valid
1050	MUC	07. Sep. 11	00:01		-31.36850		61.62333			2547.5		353.2	-0.2	2538	3	N	valid
1051	GKG	07. Sep. 11	01:52		-31.36850		61.62350			2538.9		199.7	0.1	2541	5	N	valid
1052	GKG	07. Sep. 11	03:39		-31.36850		61.62350			2539		289	-0.1	2543	6	NNE	valid
1053	MB-PS	07. Sep. 11	04:42	05:05	-31.36833	-31.38716	61.62250	61.58166		2537.8	2549.5	195.5	1.6		6	NNE	valid
1054	EBS	07. Sep. 11	06:49	08:21	-31.37667	-31.36966	61.60316	61.61616	2434,667	2537.3	2538.1	360	1.1	3750	7	NNW	valid
1055	PLA 300 μ	07. Sep. 11	05:21	05:39	-31.38750	-31.38566	61.58050	61.58516		2547.3	2544.4	11.9	0.9		6	NNE	valid
1056	PLA 300 μ	07. Sep. 11	05:41	05:46	-31.38550	-31.38483	61.58550	61.58700		2545.2	2543.4	0.5	1.2		6	NE	valid
1057	EBS	07. Sep. 11	11:07	12:24	-31.35617	-31.34916	61.64166	61.65400	1982,933	2504.7	2531.8	24	0.9	3750	4	NW	valid
1058	MB-PS	07. Sep. 11	13:33	14:30	-31.35033	-31.30400	61.65500	61.65900		2535.7	2433.6	164.8	3.2		6	NW	valid
1059	AGT	07. Sep. 11	16:17	16:28	-31.34467	-31.34550	61.65400	61.65900	2933,3	2539	2543	343.6	1.6	4000	7	NNW	valid

1060	PLA 300 µ	07. Sep. 11	15:01	15:43	-31.31650	-31.33366	61.61900	61.63750		2394.5	2525.1	353.8	1.8	6	NW	valid	
Area 12				South Iceland	Irminger Basin	Deep Sea	CTD values (ground)			measurement depth [m]: 1923	temperature [°C] 3.27	salinity [psu] 34.94	oxygen saturation [mg/l] 253.69				
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1061	CTD	08. Sep. 11	00:53	01:38	-30.05833	-30.05750	62.17450	62.17483		1924	1924.8	83.4	0.8	1917	8	NNE	valid
1062	MUC	08. Sep. 11	03:11		-30.05750		62.17500			1927.4		241.8	0	1937	8	NNE	valid
1063	MB-PS	08. Sep. 11	12:32	13:03	-28.14250	-28.08083	62.95883	62.99883		1525.4	1626.4	40.8	6.4		10	NNE	valid
Area 13				South Iceland	Irminger Basin	Deep Sea	CTD values (ground)			measurement depth [m]: 1613	temperature [°C] 4.28	salinity [psu] 34.99	oxygen saturation [mg/l] 245.53				
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1064	CTD	08. Sep. 11	13:07	13:46	-28.08033	-28.07966	62.99883	62.99950		1621.8	1623.1	0	0	1609	10	NNE	valid
1065	MUC	08. Sep. 11	15:03		-28.07983		62.99950			1618.9		43.4	-1.3	1631	10	NNE	valid
1066	GKG	08. Sep. 11	16:26		-28.07967		62.99950			1621.8		31.8	0	1625	11	NNE	valid
1067	GKG	08. Sep. 11	17:48		-28.07967		62.99950			1624.5		136.7	-0.4	1622	10	NNE	valid
1068	MB-PS	08. Sep. 11	18:31	18:51	-28.07883	-28.02583	63.00016	63.03716		1620.2	1587.4	36	3.5		10	NE	valid
1069	EBS	08. Sep. 11	21:00	21:53	-28.09500	-28.08350	62.98883	62.99683	1312,533	1588.2	1626.5	26.1	0.3	2304	12	NE	valid
1070	PLA 300 µ	08. Sep. 11	20:05	20:23	-28.11283	-28.10650	62.97633	62.98083		1470.5	1531.5	71.7	0.5		12	NNE	valid
1071	PLA 300 µ	08. Sep. 11	20:26	20:43	-28.10567	-28.10050	62.98133	62.98500		1534.1	1574.5	24.2	0.6		10	NE	valid
1072	EBS	08. Sep. 11	23:47	01:04	-28.06817	-28.05250	63.00766	63.01833	1672,533	1593.8	1569.1	21.2	0.8	2400	8	NE	valid
1073	AGT	09. Sep. 11	03:23	03:38	-28.08050	-28.07116	63.00066	63.00700	1928	1614	1609	34.2	1.9	2500	7	NE	valid
Area 14				South Iceland	Irminger Basin	Slope	CTD values (ground)			measurement depth [m]: 1168	temperature [°C] 4.3688	salinity [psu] 34.998	oxygen saturation [mg/l] 244.56				
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1074	CTD	09. Sep. 11	10:17	10:46	-26.93167	-26.93000	63.49583	63.49550		1174.7	1173.3	38.8	0.2	1160	10	NE	valid
1075	MUC	09. Sep. 11	11:43		-26.93000		62.49550			1175.2		277.6	-0.4	1178	9	NE	valid
1076	MB-PS	09. Sep. 11	13:14	14:59	-26.67967	-26.35000	63.58000	63.72200		1039.3	618.2	49	9.5		7	NE	valid
Area 15				South Iceland	Irminger Basin	Slope	CTD values (ground)			measurement depth [m]: 733	temperature [°C] 6.19553	salinity [psu] 35.09964	oxygen saturation [mg/l] 231.5267				
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1077	CTD	09. Sep. 11	15:22	15:43	-26.40750	-26.40733	63.69833	63.69833		740.1	741.4	224.6	0.1	731	7	NE	valid
1078	MUC	09. Sep. 11	16:25		-26.40733		63.69833			741.6		227.7	-0.3	747	7	NNE	failed
1079	MUC	09. Sep. 11	17:09		-26.40750		63.69833			742.2		167.6	-0.4	747	11	NNE	failed

1080	GKG	09. Sep. 11	18:22		-26.40733		63.69833			741	43.3	-0.2	745	11	NNE	failed	
1081	GKG	09. Sep. 11	19:11		-26.40717		63.69500			741.4	133.6	-0.1	752	12	NNE	failed	
1082	EBS	09. Sep. 11	20:33	21:07	-23.44967	-26.39050	63.70166	63.70616	781,52	724.4	704.9	34.9	1.3	1100	12	NNE	valid
1083	PLA 300 µ	09. Sep. 11	20:17	20:34	-26.40683	-26.39916	63.69800	63.70183		737.8	723.6	358.4	1.2		10	NNE	valid
1084	PLA 300 µ	09. Sep. 11	20:36	20:51	-26.39833	-26.39216	63.70233	63.70533		722.4	707.7	27.6	1.1		14	NNE	valid
1085	PLA 300 µ	09. Sep. 11	20:52	21:00	-26.39183	-26.39050	63.70550	63.70616		705.8	705	79.2	0.9		14	NE	valid
1086	EBS	09. Sep. 11	22:06	22:42	-26.38417	-26.37550	63.70883	63.71300	729,5333	698.1	678.5	33.1	1.2	1100	14	NNE	valid
1087	TD	10. Sep. 11	23:49	23:52	-26.37783	-26.37766	63.71033	63.71050		686	685	52	-0.1	800	11	NNE	failed
1088	TD	10. Sep. 11	01:01	01:10	-26.37583	-26.37516	63.71066	63.71100		684	680	228.8	0	900	13	NE	failed

Area 16 West Iceland Denmark Strait Shelf **CTD values (ground)** measurement depth [m]: 116 temperature [°C] 7.87818 salinity [psu] 35.12831 oxygen saturation [mg/l] 228.812

Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
1089	MB-PS	10. Sep. 11	17:50	18:10	-25.05833	-24.98383	65.99883	66.02133		119.6	125.1	62.2	4.1		11	NE	valid
1090	EBS	10. Sep. 11	18:43	18:57	-25.05300	-25.04433	66.00050	66.00300	212,6	742.5	603.1	25.5	1.2	250	11	NE	valid
1091	TD	10. Sep. 11	19:42	19:47	-25.04067	-25.03766	66.00416	66.00500	359,2	118	118	23.5	1.2	250	13	NE	valid
1092	CTD	10. Sep. 11	20:38	20:45	-25.02050	-25.02083	66.00983	66.01016		110.3	137.3	9.4	0.3	113	14	NE	valid
1093	MUC	10. Sep. 11	21:05		-25.02083		66.11016			116.9		323	0.1	127	13	NE	valid
1094	GKG	10. Sep. 11	21:32		-25.02100		66.01033			116.4		262.4	0.1	127	12	NE	failed
1095	GKG	10. Sep. 11	21:59		-25.02083		66.01033			134.6		130.8	0	126	13	ENE	valid

Area 17 N/W Iceland Denmark Strait **CTD values (ground)** measurement depth [m]: 117 temperature [°C] 7.32249 salinity [psu] 35.1535 oxygen saturation [mg/l] 237.1402

Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
1096	MB-PS	13. Sep. 11	09:27	10:13	-24.43867	-24.64583	66.65650	66.63200		115.7	130.7	261.4	9.5		9	ENE	valid
1097	CTD	13. Sep. 11	10:44	10:52	-24.53550	-23.53550	66.64266	66.64266		119.7	120.3	199.1	0.1	116	7	ENE	valid
1098	MUC	13. Sep. 11	11:11		-24.53550		66.64250			120.3		287	0	128	9	NE	valid
1099	van Veen	13. Sep. 11	11:41		-24.53550		66.64250			120		178	0	120	9	ENE	valid
1100	van Veen	13. Sep. 11	11:54		-24.53550		66.64250			120		178	0	125	9	ENE	failed
1101	SG	13. Sep. 11	12:03		-24.53550		66.64266			120		219	0	127	8	ENE	valid
1102	SG	13. Sep. 11	12:14		-24.53550		66.64266			119		219	0	127	8	ENE	valid
1103	SG	13. Sep. 11	12:23		-24.53550		66.64266			119		46	0	128	7	ENE	valid
1104	EBS	13. Sep. 11	12:53	13:08	-24.53283	-24.52250	66.64333	66.64500	152,6	118.8	118.6	56.8	1.3	201	6	NE	valid
1105	PLA 300 µ	13. Sep. 11	12:56	13:09	-24.53050	-24.52250	66.64366	66.64500		118.8	118.1	65.2	1.2		6	ENE	valid
1106	TD	13. Sep. 11	13:48	13:56	-24.51500	-24.51150	66.64650	66.64700	185,2	117	116	34.4	1.4	134	6	NNE	valid
1107	PLA 300 µ	13. Sep. 11	13:43	14:00	-24.51933	-24.51150	66.64566	66.64700		118.5	117.1	72.9	0.8		6	NNE	valid
1108	PLA 300 µ	13. Sep. 11	14:02	14:11	-24.51117	-24.50933	66.64700	66.64700		117.8	116.5	55.3	0.2		6	NNE	valid

Area 18 East Greenland Denmark Strait			CTD values (ground)													
			measurement depth [m]: 554		temperature [°C]: 0.37014		salinity [psu]: 34.90502		oxygen saturation [mg/l]: 284.5959							
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction	
			start	end	start	end	start	end		start	end					
1109	CTD	13. Sep. 11	15:52	16:11	-24.90850	-24.90850	66.76483	66.76483		559	557.9	86.9	0	553	6	NE valid
1110	MUC	13. Sep. 11	16:47		-24.90850		66.76483			558.7		334.6	0	568	6	NE failed
1111	MUC	13. Sep. 11	17:29		-24.90433		66.76650			554.8		26.7	0	563	5	ENE failed
Area 19 East Greenland Denmark Strait			CTD values (ground)													
			measurement depth [m]: 685		temperature [°C]: 0.07		salinity [psu]: 34.907		oxygen saturation [mg/l]: 292.966							
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction	
			start	end	start	end	start	end		start	end					
1112	MB-PS	13. Sep. 11	21:17	22:00	-26.10933	-26.27116	67.15866	67.21250		743.6	685.5	306.8	7.3		3	SE valid
1113	CTD	13. Sep. 11	22:14	22:34	-26.27217	-26.27183	67.21366	67.21366		685.8	685	64	0.6	664	2	SSE valid
1114	MUC	13. Sep. 11	23:13		-26.27183		67.21366			684.1		198.7	0	680	2	SSW valid
1115	MUC	14. Sep. 11	00:10		-26.27183		67.21366			684.3		33.1	0.1	677	3	SSE valid
1116	GKG	14. Sep. 11	01:00		-26.27183		67.21366			683.1		210.4	-0.1	675	3	SSE valid
1117	GKG	14. Sep. 11	01:47		-26.27183		67.21366			683.8		183.5	0.5	680	2	S valid
1118	MB-PS	14. Sep. 11	02:12	02:36	-26.25983	-26.14700	67.21283	67.21583		687.1	748.3	79.6	6.3		2	S valid
1119	EBS	14. Sep. 11	03:48	04:10	-26.24167	-26.22516	67.21350	67.21383	762,1334	696.9	706.4	105	2	1100	2	SW valid
1120	PLA 300 µ	14. Sep. 11	03:15	03:29	-26.25533	-26.24533	67.21316	67.21350		690	695.3	15.8	2.2		2	WSW valid
1121	PLA 300 µ	14. Sep. 11	03:33	03:53	-26.24233	-26.22783	67.21350	67.21383		696.3	708.2	45.3	2.2		2	SW valid
1122	PLA 300 µ	14. Sep. 11	03:53	04:04	-26.22783	-26.22516	67.21383	67.21383		708.2	709.3	359	2		3	SSW valid
1123	EBS	14. Sep. 11	05:20	05:53	-26.20750	-26.19216	67.21383	67.21466	669,5333	716.5	726	97.6	2.1	1100	2	SW valid
1124	TD	14. Sep. 11	07:07	07:10	-26.16350	-26.16133	67.21500	67.21500	653,2	738	738	24.6	1.8	1200	3	SW valid
Area 20 East Greenland Denmark Strait			CTD values (ground)													
			measurement depth [m]: 313		temperature [°C]: 0.706		salinity [psu]: 34.625		oxygen saturation [mg/l]: 290.9							
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction	
			start	end	start	end	start	end		start	end					
1125	MB-PS	14. Sep. 11	11:16	11:40	-26.64350	-26.76066	67.64666	67.64483		320.2	320.8	276.6	7.2		8	SW valid
1126	CTD	15. Sep. 11	11:53	12:06	-26.74917	-26.74866	67.64666	67.64666		321.5	322.6	193.1	0.3	311	8	SW valid
1127	MUC	14. Sep. 11	12:35		-26.74600		67.64633			320		157.2	-0.1	327	8	SW valid
1128	MUC	14. Sep. 11	13:19		-26.74633		67.64616			320.4		217.2	0.2	327	8	SW valid
1129	GKG	14. Sep. 11	13:58		-26.74633		67.64616			320.6		319.5	0.1	342	8	SW valid
1130	GKG	14. Sep. 11	14:31		-26.74667		67.64600			318.9		42.2	-0.6	322	7	SSW valid
1131	MB-PS	14. Sep. 11	14:53	15:14	-26.74917	-26.81400	67.64450	67.61500		320.5	304.5	211.5	3.8		7	SW valid
1132	EBS	14. Sep. 11	16:01	16:24	-26.75467	-26.76200	67.64133	67.63800	396,0667	318.1	316.5	195	0.8	500	7	SW valid
1133	PLA 300 µ	14. Sep. 11	15:52	16:08	-26.75083	-26.75766	67.64300	67.63983		320.1	316.6	218.9	1		7	SSW valid

1134	PLA 300 μ	14. Sep. 11	16:08	16:28	-26.75767	-26.76200	67.63983	67.63800		316.6	316.6	215.4	1	7	SW	valid	
1135	PLA 300 μ	14. Sep. 11	16:34	16:39	-26.76217	-26.76216	67.63783	67.63783		316.9	316	312.6	0	7	SW	valid	
1136	EBS	14. Sep. 11	17:28	18:50	-26.76650	-26.77366	67.63583	67.63266	366,0667	315.9	315.1	231	1.4	500	6	SW	valid
1137	TD	14. Sep. 11	19:00	19:01	-26.78017	-26.78050	67.62966	67.62950	291,1	311	313	192	1.2	500	6	SW	valid

Area 21	East Greenland Denmark Strait Deep Sea	CTD values (ground)	measurement depth [m]: 1208	temperature [°C]: 0.66561	salinity [psu]: 34.91109	oxygen saturation [mg/l]: 278.7728
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Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strength [m/s]/direction		
			start	end	start	end	start	end		start	end				start	end	
1138	CTD	17. Sep. 11	02:45	03:14	-23.69700	-23.69616	67.83616	67.83750		1237	1239.8	153.4	-0.2	1205	9	SW	valid
1139	MUC	15. Sep. 11	04:19		-23.69633		67.83766			1238.2		151	-0.2	1221	7	SW	valid
1140	MUC	15. Sep. 11	05:42		-23.70100		67.83700			1240.7		159.5	0	1223	7	SSW	valid
1141	GKG	15. Sep. 11	06:52		-23.70183		67.83700			1241.6		188.4	-0.2	1218	7	S	valid
1142	GKG	15. Sep. 11	08:05		-23.70200		67.83700			1240.9		159.8	-0.1	1216	7	SSW	valid
1143	MB-PS	15. Sep. 11	08:49	09:13	-23.69750	-23.69616	67.83650	67.88100		1238.4	1290.8	30.6	4		5	S	valid
1144	EBS	15. Sep. 11	10:16	11:15	-23.69633	-23.69616	67.86783	67.85950	1339,933	1281	1266.6	199	1.1	2000	5	SSE	valid
1145	PLA 300 μ	15. Sep. 11	09:33	09:47	-23.69683	-23.69666	67.87883	67.87533		1288.1	1288.3	122.9	1		5	S	valid
1146	PLA 300 μ	15. Sep. 11	09:48	10:05	-23.69667	-23.69650	67.87500	67.87050		1289.6	1281.3	156.8	0.8		5	SSE	valid
1147	PLA 300 μ	15. Sep. 11	10:07	10:14	-23.69633	-23.69616	67.87000	67.86833		1281	1280.4	236	0.8		5	SSE	valid
1148	EBS	15. Sep. 11	12:45	14:00	-23.69600	-23.69566	67.84650	67.84000	1850,8	1248.8	1249.9	210	0.9	2000	10	S	valid
1149	AGT	15. Sep. 11	15:52	15:56	-23.69750	-23.69783	67.84283	67.94133	308	1246	1249	162.3	1.4	2000	8	S	valid

Area 22	N/E Iceland Norwegian Basi Deep Sea	CTD values (ground)	measurement depth [m]: 2161	temperature [°C]: -0.7518	salinity [psu]: 34.91	oxygen saturation [mg/l]: 266.74
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Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strength [m/s]/direction		
			start	end	start	end	start	end		start	end				start	end	
1150	CTD	18. Sep. 11	01:33	02:24	-9.93950	-9.93350	69.09316	69.09350		2190.1	2185.4	0	0.1	2120	7	S	valid
1151	MUC	17. Sep. 11	04:19		-9.93350		69.09350			2219.7		107.7	0.3	2414	8	S	valid
1152	GKG	17. Sep. 11	06:19		-9.93350		69.09333			2172.6		269.3	0.1	2135	8	S	valid
1153	GKG	17. Sep. 11	07:58		-9.93350		69.09333			2173.4		9.3	0	2139	8	S	valid
1154	MB-PS	17. Sep. 11	08:58	09:22	-9.93667	-9.89316	69.09116	69.13300		2171	2201.2	57.3	4.7		8	S	valid
1155	EBS	17. Sep. 11	11:03	12:14	-9.91200	-9.92050	69.11483	69.10616	1581,667	2203.8	2173.9	197	0.9	3300	8	S	valid
1156	PLA 300 μ	17. Sep. 11	09:46	10:02	-9.89233	-9.89650	69.13383	69.12983		2200.8	2194.4	208.9	0.7		8	S	valid
1157	PLA 300 μ	17. Sep. 11	10:05	10:23	-9.89717	-9.90166	69.12916	69.12466		2195.1	2197.3	186.6	0.6		0.6	S	valid
1158	PLA 300 μ	17. Sep. 11	10:25	10:38	-9.90217	-9.90566	69.12433	69.12100		2196.2	2192.3	204.2	0.7		8	S	valid
1159	EBS	17. Sep. 11	14:50	16:15	-9.91700	-9.92933	69.11100	69.09866	2041,2	2202.8	2159.8	191	0.9	3300	7	S	valid
1160	AGT	17. Sep. 11	19:16	19:26	-9.92250	-9.92716	69.10300	69.09833	1040,7	2169	2172	182.2	2.2	3500	7	S	valid

Area 23			N/E Iceland		Norwegian Basi		Deep Sea		CTD values (ground)		measurement depth [m]: 1920	temperature [°C]: -0.80024	salinity [psu]: 34.91073	oxygen saturation [mg/l]: 272.5799	
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction
			start	end	start	end	start	end		start	end				
1161	CTD	18. Sep. 11	01:48	02:33	-8.58050	-8.58033	68.64383	68.64433		1965.6	1962.5	132.8	-0.1	1914	10 S valid
1162	MUC	18. Sep. 11	04:04		-8.58033		68.64433			1962.3		167.7	-0.2	1930	10 S valid
Area 24			N/E Iceland		Norwegian Basi		Deep Sea		CTD values (ground)		measurement depth [m]: 2367	temperature [°C]: -0.82	salinity [psu]: 34.91	oxygen saturation [mg/l]: 271.26	
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction
			start	end	start	end	start	end		start	end				
1163	CTD	20. Sep. 11	19:52	20:43	-6.95783	-6.95800	67.58816	67.58816		2406	2402.8	43.9	0	2358	9 SE valid
1164	MUC	18. Sep. 11	22:27		-6.95800		67.58800			2403.1		350.9	0.2	2373	9 SE failed
1165	GKG	18. Sep. 11	00:18		-6.95800		67.58816			2402		56.6	0.2	2374	7 SSE valid
1166	GKG	19. Sep. 11	01:57		-6.95783		67.58800			2401.8		322.8	-0.1	2373	10 SE valid
1167	MB-PS	19. Sep. 11	03:09	03:09	-6.87917	-7.03633	67.55583	67.62183		2482.5	2343.8	292.3	4		11 SE valid
1168	EBS	19. Sep. 11	05:43	07:10	-7.00133	-6.97800	67.60633	67.59650	2254,667	2372.6	2383.7	121	0.7	3500	11 ESE valid
1169	PLA 300 μ	19. Sep. 11	04:26	04:40	-7.03783	-7.03100	67.62150	67.61900		2341.7	2341.1	134.7	0.7		10 ESE valid
1170	PLA 300 μ	19. Sep. 11	04:41	05:04	-7.03050	-7.02000	67.61883	67.61433		2342.1	2353.9	168.2	0.9		10 ESE valid
1171	PLA 300 μ	19. Sep. 11	05:05	05:15	-7.01950	-7.01483	67.61416	67.61200		2352.2	2343.6	114.7	0.8		0.8 ESE valid
1172	EBS	19. Sep. 11	10:04	11:31	-6.93467	-6.91366	67.57816	67.56933	2280,333	2422.4	2453.7	142	1.1	2257	12 ESE valid
1173	AGT	19. Sep. 11	14:22	14:32	-6.90517	-6.89683	67.56683	67.56316	2087,3	2466	2463	129	1.7	3600	11 ESE valid
Area 25			N/E Iceland		Norwegian Basi		Deep Sea		CTD values (ground)		measurement depth [m]: 1669	temperature [°C]: -0.76303	salinity [psu]: 34.902	oxygen saturation [mg/l]: 267.98	
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction
			start	end	start	end	start	end		start	end				
1174	CTD	21. Sep. 11	23:06	23:43	-9.73883	-9.73766	67.61733	67.61700		1707.5	1709.2	6.8	0.2	1663	10 ESE valid
1175	MUC	20. Sep. 11	00:59		-9.73767		67.61700	0.00000		1710.8		295.8	0	1680	11 ESE valid
Area 26			Norwegian Sea		Norwegian Basi		Deep Sea		CTD values (ground)		measurement depth [m]: 1781	temperature [°C]: -0.8511	salinity [psu]: 34.91	oxygen saturation [mg/l]: 0	
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction
			start	end	start	end	start	end		start	end				
1176	CTD	21. Sep. 11	07:00	07:47	-12.16833	-12.16833	67.64516	67.64533		1819.6	1820.2	249.1	0.4	1772	8 SE valid
1177	MUC	20. Sep. 11	09:09		-12.16833		67.64533			1820		121.9	0	1789	7 SSE valid
1178	GKG	20. Sep. 11	10:42		-12.16833		67.64516			1818.8		156.5	-0.1	1789	6 SSE valid
1179	GKG	20. Sep. 11	12:21		-12.16850		67.64516			1820.4		182.7	0	1892	4 ESE valid
1180	MB-PS	20. Sep. 11	13:29	14:20	-12.07117	-12.26833	67.62416	67.66683		1787	1827.5	291.9	4.1		6 S valid

1181	EBS	20. Sep. 11	15:29	16:36	-12.22650	-12.20250	67.65783	67.65266	1732,533	1827	1825.8	123	1	2700	6	S	valid
1182	PLA 300 µ	20. Sep. 11	14:33	14:47	-12.26183	-12.25316	67.66566	67.66383		1828.3	1825.8	108.7	1.1		6	S	valid
1183	PLA 300 µ	20. Sep. 11	14:48	15:06	-12.25250	-12.24133	67.66366	67.66116		1827.4	1825.6	126.3	0.9		7	S	valid
1184	EBS	20. Sep. 11	18:45	19:57	-12.16200	-12.13800	67.64383	67.63866	1885,133	1819.3	1811.9	52.6	0.8	2700	11	SSE	valid
1185	AGT	20. Sep. 11	22:01	22:10	-12.06767	-12.05750	67.62316	67.62083	1859,3	1781	1775	107.3	1.7	3000	13	SE	valid

Area 27			N/E Iceland		Norwegian Sea		CTD values (ground)		measurement depth [m]: 1546	temperature [°C]: 0.74403	salinity [psu]: 34.90862	oxygen saturation [mg/l]: 269.2512					
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
1186	CTD	21. Sep. 11	04:14	04:48	-13.01483	-13.01483	67.07200	67.07200		1582.3	1581.7	0.1	0	1541	7	ESE	valid
1187	MUC	21. Sep. 11	06:01		-13.01483		67.07200			1581.7		98.9	0	1557	7	E	valid
1188	GKG	21. Sep. 11	07:27		-13.01483		67.07200			1580.6		327.5	0	1558	7	ESE	valid
1189	GKG	21. Sep. 11	08:50		-13.01483		67.07200			1579.3		27	-0.6	1558	6	ESE	valid
1190	MB-PS	21. Sep. 11	09:36	09:54	-13.01133	-13.09550	67.07133	67.08316		1583.3	1583.5	292.4	5.6		6	ESE	valid
1191	EBS	21. Sep. 11	11:05	12:16	-13.06383	-13.03816	67.07866	67.07516	1795,133	1574.7	1581.1	144	0.1	2400	6	E	valid
1192	PLA 300 µ	21. Sep. 11	10:12	10:29	-13.09833	-13.08750	67.08350	67.08200		1584.6	1581.8	158.4	0.9		6	E	valid
1193	PLA 300 µ	21. Sep. 11	10:31	10:47	-13.08600	-13.07500	67.08183	67.08016		1582.4	1580.3	162.6	0.4		6	E	valid
1194	EBS	21. Sep. 11	14:14	15:23	-13.05450	-13.02766	67.07766	67.07400	1795,133	1573.5	1579.5	149	1.1	2400	6	ENE	valid
1195	MB-PS	21. Sep. 11	16:12	16:31	-13.02217	-12.99983	67.07466	67.10766		1581.8	1616.7	35.5	1.2		7	NNE	valid
1196	AGT	21. Sep. 11	17:50	18:00	-13.00700	-13.00366	67.09650	67.10116	1427,3	1612	1611	39.5	1.8	2500	7	N	valid

Area 28			N/E Iceland		Norwegian Sea		CTD values (ground)		measurement depth [m]: 684	temperature [°C]: -0.4455	salinity [psu]: 34.9045	oxygen saturation [mg/l]: 279.6824					
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
1199	CTD	21. Sep. 11	22:48	23:06	-13.25050	-13.25050	66.90433	66.90433		703.2	709	47.6	0.1	681	9	NNW	valid
1200	MUC	21. Sep. 11	23:44		-13.25050		66.90433			702.3		319.5	0	708	8	NNW	failed

Area 29			N/E Iceland		Norwegian Sea		CTD values (ground)		measurement depth [m]: 314	temperature [°C]: 1.36103	salinity [psu]: 34.8472	oxygen saturation [mg/l]: 291.8144					
Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
			start	end	start	end	start	end		start	end						
1201	CTD	22. Sep. 11	02:24	02:38	-12.91350	-12.91383	66.56616	66.56616		323.6	325.2	350.8	0.2	312	9	NW	valid
1202	SG	22. Sep. 11	03:06		-12.91383		66.56616			326		82	0	327	9	NW	valid
1203	SG	22. Sep. 11	03:25		-12.91383		66.56616			324		299	0	328	8	NW	valid
1204	SG	22. Sep. 11	03:43		-12.91383		66.56616			325		347	0	329	8	NW	valid
1205	SG	22. Sep. 11	04:02		-12.91400		66.56616			327		327	0	326	7	NW	failed
1206	SG	22. Sep. 11	04:21		-12.91400		66.56616			323		37	0	328	7	NW	failed
1207	SG	22. Sep. 11	04:40		-12.91400		66.56616			326		204	0	324	4	NNW	valid

1208	MB-PS	22. Sep. 11	04:58	05:18	-12.91250	-12.85900	66.56533	66.53483		327.5	2940.5	152.8	2.5	2	N	valid	
1209	EBS	22. Sep. 11	05:43	06:05	-12.86483	-12.87033	66.53816	66.54133	304,3333	315.9	316.6	296	1.1	480	3	NNE	valid
1210	PLA 300 µ	22. Sep. 11	05:35	05:52	-12.86167	-12.86816	66.53633	66.54016		307.5	316.2	256.8	0.5		2	NNE	valid
1211	PLA 300 µ	22. Sep. 11	05:54	06:11	-12.86900	-12.87016	66.54050	66.54133		316.8	314.7	291.3	0.6		3	NNE	valid
1212	EBS	22. Sep. 11	06:39	07:09	-12.87467	-12.88233	66.54383	66.54833	547,8	317.2	314.7	1.3	1.3	550	3	NE	valid
1213	AGT	22. Sep. 11	07:57	08:02	-12.89000	-12.89333	66.55266	66.55450	476,7	318.2	318.4	328.3	1.4	500	3	NNE	valid

Area 30 East Iceland Norwegian Sea

CTD values (ground)	measurement depth [m]: 712	temperature [°C] 0.40217	salinity [psu] 34.90286	oxygen saturation [mg/l] 283.581
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Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1214	CTD	22. Sep. 11	10:52	11:11	-12.37300	-12.37300	66.30100	66.30100		731.3	729.2	305.1	0	710	9	NW	valid
1215	MUC	22. Sep. 11	11:51		-12.37300		66.30100			732.5		181.4	0	737	10	NW	valid
1216	GKG	22. Sep. 11	12:45		-12.37300		66.30100			730.8		205.8	0.1	736	9	NW	valid
1217	GKG	22. Sep. 11	13:31		-12.37333		66.30100			732.1		289.5	0	741	10	NW	valid
1218	MB-PS	22. Sep. 11	14:09	14:30	-12.41317	-12.34216	66.31383	66.28700		784.4	560.1	302.1	4.1		10	NW	valid
1219	EBS	22. Sep. 11	15:06	15:36	-12.34700	-12.35500	66.28900	66.29250	760,4	579.1	622.4	305	0.8	1000	10	NW	valid
1220	PLA 300 µ	22. Sep. 11	14:49	15:06	-12.34017	-12.34700	66.28566	66.28900		537.5	579.1	3.1	1.6		8	NW	valid
1221	PLA 300 µ	22. Sep. 11	15:08	15:25	-12.34800	-12.35500	66.28950	66.29250		585.1	579.1	6.1	1		9	NW	valid
1222	EBS	22. Sep. 11	16:38	17:03	-12.35150	-12.36200	66.29150	66.29600	542,4933	610.8	674	340	1.5	950	4	E	valid
1223	AGT	22. Sep. 11	18:10	18:27	-12.36267	-12.37716	66.29533	66.30166	1007,3	662.6	729.8	334.2	2.4	1813	2	E	valid

Area 31 N/E Iceland Norwegian Sea Shelf

CTD values (ground)	measurement depth [m]: 278	temperature [°C] 4.74634	salinity [psu] 34.98964	oxygen saturation [mg/l] 254.3813
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Station	Gear	Date	time		Longitude		Latitude		trawling distance (calc.) [m]	depth		Course start [°]	speed start [kn]	rope-length [m]	Wind strenght [m/s]/direction		
1197	CTD	21. Sep. 11	21:14	21:24	-13.33400	-13.33383	66.84750	66.84783		283.8	283.3	101	0.3	248	9	N	valid
1198	MUC	21. Sep. 11	21:50		-13.33383		66.84783			283.8		339.5	0	294	10	NNW	failed