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Short Cruise Report Maria S. Merian – Cruise MSM103

Emden – Halifax – Emden 12.9.2021 – 15.11.2021

Chief Scientist: Dr. Sebastian Hölz

Captain: Ralf Schmidt



Maps

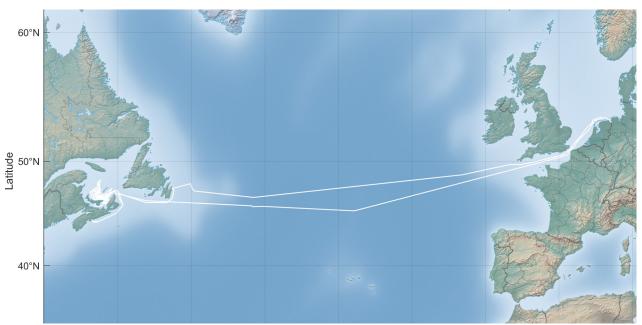


Fig. 1: Ship track of RV M.S. Merian during cruise MSM103 from Emden (Germany) to the Gulf of St. Lawrence (Canada) and back.

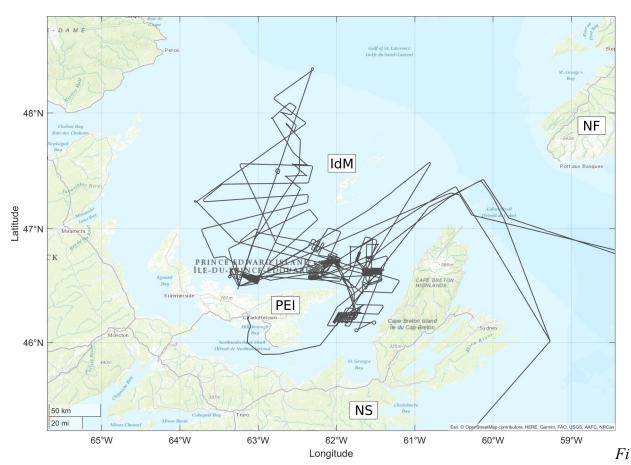


Fig. 2: Ship track of RV M.S.Merian during cruise MSM103 in the working area, which was entered through the Cabot Strait between Newfoundland (NF) and Nova Scotia (NS). Work was mostly carried out between Prince Edward Island (PEI) and Îles de la Madeleine (IdM) and between PEI and the Cape Breton Island.

Objectives

Our overarching hypothesis is that ice sheet dynamics and landscape evolution during the last glacial – interglacial cycle(s) significantly altered the recharge of freshwater offshore aquifers (FOAs) hosted in fractured consolidated clastic sediments. If this is the case, we should observe groundwater distribution aligned with the main ice sheet distribution, e.g. the St. Lawrence Channel. If this is not the case, we will observe a distribution that is controlled by distance from the coast and water depth. At any rate, the distance of resistivity anomalies from onshore aquifers and their patchiness will reveal the influence of sea level change.

Our project will provide answers to the following fundamental questions directly from the results of the cruise:

- How are FOAs distributed and what are their geometrical, physical, and lithological characteristics?
- What are the roles of both fractured sandstone and unconsolidated Quaternary sediments of glacial origin in hosting fresh groundwater reserves on the continental shelf, in controlling spatial variation in salinity distributions, and in driving fresh groundwater discharge?
- When and how was the groundwater emplaced?
- Which FOAs are hydraulically linked to onshore/coastal groundwater aquifers and what are the consequences of such links?

Furthermore, we will address the following questions within the SOURCE project based on data from this cruise and additional data to be collected by the Canadian colleagues:

- What is the distribution of modern groundwater seeps at the seafloor and what is their effect on the hydrogeological cycle and benthic ecosystems?
- How will climate change or pumping affect the quality and quantity of linked offshore-onshore groundwater aquifers?
- Can coastal cities sustainably extract groundwater from offshore aquifers to meet present and future freshwater needs?

To answers these questions we will quantify the processes controlling the formation of FOAs hosted in fractured rocks, the recharge mechanisms, and their timing; quantitatively characterize the geometry of the offshore groundwater system; determine whether the offshore groundwater system is presently connected to a freshwater source onshore; explore the impacts of groundwater flow across the sea floor and the mixing with ambient ocean waters; define the hydrological budget of the groundwater system; determine the role played by freshened groundwater seepage on the distribution and dynamics of shallow marine benthic ecosystems; and model the evolution of the groundwater system in response to extraction, saltwater intrusion driven by relative sea-level rise, and other changes in climate such as precipitation patterns or ice extent.

Narrative

Due to the COVID situation, every member of the crew has to be and is indeed vaccinated and tested before embarking on RV *M.S. Merian*. The cruise starts in the morning hours of September 12th with a scientific crew consisting of 15 members, mostly junior scientists and students, supported by three technicians from GEOMAR. Due to the pandemic situation, we have to leave one cabin empty for quarantine purposes and three spaces are reserved for marine mammal observers (MMOs), which will embark onto the ship in Canada. During the 11 days of transit across the Atlantic, we are kept busy with safety drills, getting familiarized with the ship, setting up the laboratories testing of gear and instruments, which we will use to conduct seismic and electromagnetic experiments in combination with sampling with a gravity corer (GC) and hydroacoustic investigations.

First scientific measurements start on September 15th: a first CTD cast yields data for the calibration of the hydroacoustic systems. For the DAM (Deutsche Allianz Meeresforschung) project "Unterwegs" we will be collecting bathymetric data with the multibeam echosounder (MBES), structural data from the seafloor with the sub-bottom profiler (SBP) and information about oceanic currents with the Acoustic Doppler Current Profiler (ADCP). Additionally, water probes will be collected and seawater conditions will be measured with the thermosalinograph (TSG). After leaving the European continental shelf, HA measurements (EM122 MBES, SBP, ADCP) and the TSG sampling commence. On the 17th we finally received the Letter of Acceptance (LOA) – i.e. the diplomatic clearance from the Canadian Department of Foreign Affairs, Trade and Development – for the working area. Now, the only permit missing is the one by the Department of Fisheries and Oceans Canada (DFO), which contains details about exclusive zones and mitigation measures and other requirements to be followed by the ship. In the evening hours, we receive news that one of our scientific colleagues will need to leave the ship after the transit due to family affairs back home. In cooperation with the captain, the disembarkment and travel home are organized and after reaching the Canadian coast, we have to say farewell to our colleague on the 21st in the port of St. John's (Newfoundland). On the 23rd we finally arrive in the working area and directly transfer to Charlottetown on the Prince Edward Island (PEI), where we welcome the three MMOs, who will be monitoring our seismic and hydroacoustic work. Shortly after the MMOs' embarkment we also finally receive the permit by the DFO and have all the necessary permits needed.

Shortly after midnight on the 24th we arrive at the NE tip of PEI and after deployment and activation of the Passive Acoustic Monitoring System (PAM), which is operated by the MMOs for the detection of protected species, we receive the clearance to start our scientific work. This is followed by a ramp-up procedure, in which the acoustic systems are slowly activated over a time span of 30min to give animals around the ship a heads-up before fully activating the hydroacoustic (HA) systems, which are Multibeam Echosounder (MBES) and Sub-Bottom Profiler (SBP). Until the morning, we run tests for test for the HA systems and in the morning start with the deployment of 12 ocean-bottom electromagnetic (OBEM) receivers along the central profile line, which runs in a NNE direction from PEI to the Lawrentide Channel. Measurements with 2D Multichannel streamer seismics (MCSS) commence in the morning hours of the 25th.

The first half of the project is mostly dedicated to MCSS with HA measurements running in parallel. We start measurements along profiles covering large sections of the area between PEI and the Lawrentide Channel and crossing most of the boreholes in the area. Afterwards we focus on the

area to the E of PEI, where previously published multibeam data gives some indication for old channel systems dating back to the last glaciation. Seismic and HA measurements frequently have to be interrupted after sightings of protected species or due to acoustic alarms of the MMOs and – especially in the first ten days – due to technical problems with the seismic streamer and the acoustic sources. However, in the following three weeks until October 16th, we acquire MCSS data along profiles with a total length of about 2000km, which is more than we planned for.

During downtime of the seismic system, we run first dedicated HA profiles and also – based on results of SBP data – take first gravity cores. In one of the cores, taken on October 4^{th} just to the E of the central profile, we also find some freshening of the pore fluids: a first indication of offshore groundwater. On the 29^{th} of September we also try our first controlled source electromagnetic (CSEM) experiment with our bottom-towed system. Shortly after the system is finally fully deployed we encounter problems with the stability of communication between the lab and the deployed transmitter. After a partial recovery of the transmitter we see that the system is pretty banged up and decide to fully recover the whole system. After full recovery we see that the hard seafloor and rock debris have caused substantial damage to the system. It seems that the seafloor along the main profile is not suitable for a bottom-towed system. For future CSEM measurements we will use a mobile transmitter system, which does not need to be in contact with the seafloor in combination with the stationary OBEM receivers. The mobile source is not as strong as the bottom-towed and will only allow for experiments at a smaller scale, but safety concerns force us to adjust our plans. The first experiment with the mobile source is carried out between October $5^{th} - 6^{th}$ and will be used for all experiments in the second half of the cruise.

With the last seismic measurements and a redeployment of OBEM stations to new locations on October 16th, we finish the first half of the project. A port call in Halifax for stashing up supplies gives the scientific crew and the technicians some well deserved time to rest. In Halifax we say farewell to the MMOs because we will not run any MCSS anymore. We also get to meet our Canadian project partners in person for the first time and connect to an outreach project team from the "Ocean School Canada".

After our break in Halifax, scientific work N of PEI commences on the 20th of October. In the following two weeks, we conduct seven CSEM experiments, which often requires us to recover, prepare and redeploy the OBEMs followed by operation of the mobile transmitter system around the clock. To have some breaks in between, we also run HA profiles across structures of interest several times. In addition, we also give the GC team several time slots for sampling.

In the evening hours of November 3rd the scientific work ends after the recovery of the last OBEM station. We have conducted a total of eight CSEM experiments with at total of about 200km of profile, have deployed and successfully recovered OBEM 93 times, collected about 8TB of HA data and successfully recovered 40m of sediment material from nine locations in the working area with the GC.

After leaving the working area on November 4th, we start HA measurements and TSG sampling for the DAM project "Unterwegs" during the transit back. When reaching the Mid-Atlantic Ridge on the 8th of November, we try to conduct another EM experiment. However, due to a strong swell, we have to abandon the experiment after a couple of hours. The rest of the transit is dedicated to packing up, cleaning the labs, backing up data and getting some rest. On November 15th we finally arrive back in Emden. After 65 days at sea, the longest scientific cruise ever on RV *M.S. Merian*, we are happy to go home and say "Farewell" and "Thank You" to Captain Schmidt and his crew.

Acknowledgements

The scientific crew of cruise MSM103 thank Captain Ralf Schmidt and his crew for their support and great flexibility which during the cruise, which was a great help in conducting our experiments and contributed to the success of this cruise. Thanks go also to our colleagues and project partners Vittorio Marselli, Mladen Nedimovic, Graeme Cairns (Dalhousie University), Aaron Micaleff (University of Malta), Christian Berndt, Marion Jegen, Judith Elger, Amir Haroon (GEOMAR) for helping in organizational matters and their scientific input. We are grateful to Angeline LeBlanc (Department of Fisheries & Oceans, Canada) and her colleagues from DFO for providing us with the permit, which enabled us to carry out work in the Bay of St. Lawrence.

Teilnehmerliste

Name	Discipline	Institution					
Hölz, Sebastian, Dr.	geophysics, chief scientist	GEOMAR					
Franz, Gesa	geophysics, lead electromagnetics	GEOMAR					
Córdoba Ramírez, Fernando	geophysics, electromagnetics	Dalhousie					
Faghih, Zahra	geophysics, electromagnetics	GEOMAR					
Kühn, Michel	geophysics, lead seismics	GEOMAR					
Castillo Castellanos, José Miguel	geophysics, seismics	Dalhousie					
Klein, Johanna	geophysics, lead hydroacoustics	GEOMAR					
Pandolpho, Bruna	geophysics, hydroacoustics	GEOMAR					
Schulten, Irena, Dr.	geochemistry, lead gravity coring	UoM					
Bucci, Monica, Dr.	geochemistry, gravity coring	UoM					
Breunig, Emelie	watchkeeper	GEOMAR					
Klein, Elisa	watchkeeper	GEOMAR					
Plett, Johanna	watchkeeper	GEOMAR					
Schmitz, Wanda	watchkeeper	GEOMAR					
Timm, Henrike	watchkeeper	GEOMAR					
Wollatz-Vogt, Martin	engineer, electromagnetics	GEOMAR					
Bartels, Thies	technician, seismics	GEOMAR					
Rohde, Lea	technician, seismics, gravity coring	GEOMAR					
Rutherford, Bryan	marine mammal observer, passive acoustic monitor	RPS					
Renaud, Galaxina	marine mammal observer, passive acoustic monitor	RPS					
Reid, Connor	marine mammal observer, passive acoustic monitor	RPS					
GEOMAR	GEOMAR Helmholtz Centre for Ocean Research (Kiel,	Germany)					
UoM	University of Malta (Msida, Malta)						
Dalhousie	Dalhousie University (Halifax, Canada)						
RPS	RPS Energy Canada Ltd. (Calgary, Canada)						

Stationsliste

Station Date Time Lat Lon Depth MSM103 [2021] UTC [N] [W] [m]	nment
1-1 07:27 CTD 48° 44,861' 14° 01,917' 0 in the water	
1-1 15.09. 08:10 CTD 48° 44,862' 14° 01,918' 0 max depth/on gro	ound
1-1 08:44 CTD 48° 44,861' 14° 01,917' 0 on deck	
2-1 12:00 Releaser Test 46° 34,363′ 57° 31,680′ 296 in the water	
2-1 12:15 Releaser Test 46° 34,364′ 57° 31,679′ 296 max depth/on gr	
2-1 22.09. 12:16 Releaser Test 46° 34,363′ 57° 31,680′ 296 hydrophone in w	
2-1 12:47 Releaser Test 46° 34,363′ 57° 31,679′ 296 hydrophone on d	eck
2-1 13:01 Releaser Test 46° 34,363′ 57° 31,680′ 296 on deck	
3-1 22:33 CTD 46° 23,991' 61° 46,484' 45 in the water	
3-1 23.09. CTD 46° 23,991' 61° 46,483' 45 max depth/on gro	ound
3-1 22:40 CTD 46° 23,991' 61° 46,483' 45 on deck	
4-1 23:53 PAM 46° 33,708′ 61° 52,987′ 54 length: 220m – d	7
4-1 00:07 PAM 46° 34,140' 61° 54,474' 204 Pre-watch – start	
4-1 00:37 PAM 46° 35,005' 61° 58,059' 54 Pre-watch – end	
5-1 00:43 MBES (EM712) 46° 35,205' 61° 58,892' 54 start ramp up	
5-1 01:02 MBES (EM712) 46° 35,867' 62° 01,700' 55 ramp up complet	e
5-1 01:39 MBES (EM712) 46° 37,109′ 62° 07,093′ 55 calibration start	
5-1 05:51 MBES (EM712) 46° 37,274′ 62° 15,709′ 52 calibration end	
4-1 09:55 PAM 46° 36,140' 62° 45,833' 50 on deck	
6-1 12:10 OBEM 46° 29,897' 63° 15,021' 25 OBEM01 – deplo	<u>-</u>
6-2 12:51 OBEM 46° 32,476′ 63° 13,788′ 35 OBEM02 – deplo	•
6-3 13:26 OBEM 46° 35,024' 63° 12,560' 42 OBEM03 – deplo	•
6-4 14:06 OBEM 46° 37,594' 63° 11,312' 45 OBEM04 – deplo	•
6-5 14:37 OBEM 46° 40,158' 63° 10,068' 51 OBEM05 – deplo	•
6-6 15:23 OBEM 46° 42,715' 63° 08,820' 54 OBEM06 – deplo	<u>-</u>
6-7 24.09. 15:48 OBEM 46° 45,271' 63° 07,570' 54 OBEM07 – deplo	<u>-</u>
6-8 16:35 OBEM 46° 47,834' 63° 06,326' 60 OBEM08 – deploted of the deploted of	•
6-9 17:12 OBEM 46° 50,391' 63° 05,077' 55 OBEM09 – deploted for the second of the seco	<u>-</u>
6-11 18:02 OBEM 46° 55,508' 63° 02,573' 64 OBEM11 – deplo	<u>-</u>
6-12 18:26 OBEM 46° 58,070′ 63° 01,315′ 64 OBEM12 – deplo	<u>-</u>
7-1 18:37 CTD 46° 58,080' 63° 01,313' 64 OBENIZ = deplo	yeu
7-1 18:42 CTD 46° 58,080′ 63° 01,367′ 64′ max depth/on gro	ound
7-1 18:47 CTD 46° 58,080′ 63° 01,367′ 64′ max depth/on given	ound
8-1 20:31 PAM 46° 54,703′ 62° 33,923′ 66 length: 220m – d	enloved
8-1 20:41 PAM 46° 54,553′ 62° 32,726′ 64 Pre-watch – start	
8-1 21:14 PAM 46° 54,143' 62° 28,373' 66 Pre-watch – end	
9-1 21:37 MBES (EM712) 46° 53,853′ 62° 25,299′ 65 profile start	
10-1 21:54 Parasound P70 46° 53,536' 62° 23,013' 67 profile start	
10-1 08:14 Parasound P70 46° 33,207' 62° 48,949' 49 profile end	
9-1 08:14 MBES (EM712) 46° 33,202' 62° 48,988' 49 profile end	
8-1 08:25 PAM 46° 33,005' 62° 50,418' 51 on deck	
11-1 11:05 Seismic Streamer 46° 38,469' 63° 20,635' 41 Streamer in wate	r
11-1 25.09. 11:47 Seismic Streamer 46° 37,546' 63° 20,010' 40 length: 260m	
11-2 12:08 Seismic Source 46° 37,022' 63° 19,656' 40 Airgun in water	
12-1 12:29 PAM 46° 36,218' 63° 19,111' 39 length: 80m – de	ployed
12-1 12:39 PAM 46° 35,592' 63° 18,688' 39 Pre-watch – start	· · · · ·

12-1		13:09	PAM	•	63° 16,969'	36	Pre-watch – end
11-2		13:09	Seismic Source	•	63° 16,971'	36	Pre-watch – end
11-2		13:11	Seismic Source	•	63° 16,785'	36	start ramp up
11-2		13:28	Seismic Source	46° 33,609'	63° 15,166'	38	ramp up complete
14-1		13:50	Parasound P70	46° 33,676'	63° 13,183'	38	profile start
13-1		13:50	MBES (EM712)	46° 33,676'	63° 13,183'	38	profile start
11-2		13:50	Seismic Source	46° 33,676'	63° 13,183'	38	profile start
12-1		14:21	PAM	46° 35,877'	63° 12,078'	41	length: 220m
13-1	26.09.	02:50	MBES (EM712)	47° 20 269'	62° 45,487'	59	Interrupt profile, PAM detection
13-1		02.30	IVIDES (EIVI712)	47 29,308	02 43,467	39	dolphins <1000m
14-1		02:50	Parasound P70	47° 20 260'	62° 45,487'	59	Interrupt profile, PAM detection
14-1		02.30	raiasoulla r70	47 29,308	02 43,467	39	dolphins <1000m
12-1		02:50	PAM	47° 29,368'	62° 45,487'	59	detection dolphins <1000m (PAM)
11 2		02.50	Seismic Source	47° 20 260'	62° 45 407'	59	Interrupt profile, PAM detection
11-2		02:50	Seismic Source	47 29,368	62° 45,487'	59	dolphins <1000m
12.1		02.54	5444	470 20 4421	620 45 4571		Last detection < 1000m, start pre-
12-1		02:51	PAM	47° 29,443°	62° 45,457'	58	watch (PAM)
12-1		03:21	PAM	47° 30,596'	62° 43,582'	59	Pre-watch – end
11-2		03:22	Seismic Source	47° 30,527'	62° 43,536'	59	start ramp up
11-2		03:39	Seismic Source	47° 29,244'	62° 43,981'	57	ramp up complete
14-1		04:02	Parasound P70	· ·	62° 45,530'	59	profile - continue
13-1		04:02	MBES (EM712)	47° 29,285'	•	59	profile - continue
11-2		04:02	Seismic Source	47° 29,285'	62° 45,530'	59	profile - continue
12-1		04:18	PAM	•	62° 44,952'	58	detection dolphins <1000m (PAM)
							Interrupt profile, PAM detection
14-1		04:19	Parasound P70	47° 30,520'	62° 44,915'	59	dolphins <1000m
							Interrupt profile, PAM detection
13-1		04:19	MBES (EM712)	47° 30,520'	62° 44,915'	59	dolphins <1000m
							Last detection < 1000m, start pre-
12-1		04:19	PAM	47° 30,520'	62° 44,915'	59	watch (PAM)
							Interrupt profile, PAM detection
11-2		04:19	Seismic Source	47° 30,520'	62° 44,915'	59	dolphins <1000m
12-1		04:49	PAM	47° 30.425'	62° 46,446'	61	Pre-watch – end
11-2		04:49	Seismic Source	•	62° 46,464'	61	start ramp up
11-2		05:05	Seismic Source	•	62° 46,261'	61	ramp up complete
11-2		05:27	Seismic Source		62° 44,915'	58	profile - continue
13-1		05:27	MBES (EM712)	-	62° 44,908'	58	profile - continue
14-1		05:28	Parasound P70	-	62° 44,895'	58	profile - continue
12-1		06:49	PAM	-	62° 41,972'	59	detection dolphins <1000m (PAM)
							Interrupt profile, PAM detection
14-1		06:50	Parasound P70	47° 36,458'	62° 41,937'	60	dolphins <1000m
							Interrupt profile, PAM detection
13-1		06:50	MBES (EM712)	47° 36,458'	62° 41,937'	60	dolphins <1000m
							Interrupt profile, PAM detection
11-2		06:50	Seismic Source	47° 36,458'	62° 41,937'	60	dolphins <1000m
							Last detection < 1000m, start pre-
12-1		08:06	PAM	47° 41,983'	62° 39,163'	64	
12-1		U8·3U	PAM	17° 11 211	62° 37,972'	6E	watch (PAM) Pre-watch – end
12-1 11-2		08:39 08:40	Seismic Source	-	62° 37,972	65 63	
11-2 11-2		08:40	Seismic Source		62° 37,406'	65	start ramp up
11-2 11-2		08:55	Seismic Source		62° 37,406 62° 37,396'	65	ramp up complete profile - continue
13-1		08:58	MBES (EM712)	-	62° 37,396 62° 37,289'	64	profile - continue
13-1 14-1		08:58	Parasound P70	47 45,695 47° 46,876'	62° 36,694'	67	profile - continue
14-1 11-2			Seismic Source	-	62° 29,622'	67 74	•
11-7		12:32	seisiffic source	40 00,859	02 29,022	/4	Interrupt profile, technical problems

11-2		12:51	Seismic Source	•	62° 29,038'	70	Airgun on deck
12-1		13:08	PAM	48° 02,889'	62° 28,595'	65	Pre-watch – start
11-2		13:24	Seismic Source	48° 03,723'	62° 28,166'	61	Airgun in water
12-1		13:38	PAM	48° 04,575'	62° 27,741'	62	Pre-watch – end
11-2		13:38	Seismic Source	48° 04,598'	62° 27,729'	62	start ramp up
11-2		13:54	Seismic Source	48° 05,646'	62° 27,198'	61	profile - continue
11-2		13:54	Seismic Source	48° 05,646'	62° 27,198'	61	ramp up complete
12-1		22:35	PAM	48° 10,312'	62° 42,765'	90	detection dolphins <1000m (PAM)
							Interrupt profile, PAM detection
13-1		22:35	MBES (EM712)	48° 10,279'	62° 42,833'	94	dolphins <1000m
							Interrupt profile, PAM detection
11-2		22:35	Seismic Source	48° 10,279'	62° 42,833'	94	dolphins <1000m
							Interrupt profile, PAM detection
14-1		22:38	Parasound P70	48° 10,142'	62° 43,125'	92	dolphins <1000m
							Last detection < 1000m, start pre-
12-1		23:00	PAM	48° 09,025'	62° 45,515'	87	-
							watch (PAM)
12-1		23:13	PAM	48° 08,357'	62° 46,804'	83	Pre-watch – end; detection dolphin
				•			< 1000m
12-1		23:46	PAM	48° 06.524'	62° 46,688'	84	Last detection < 1000m, start pre-
				,	•	•	watch (PAM)
12-1		00:16	PAM	•	62° 44,092'	91	Pre-watch – end
11-2		00:16	Seismic Source	48° 05,224'	62° 44,092'	91	start ramp up
11-2		00:33	Seismic Source	48° 04,454'	62° 42,540'	94	ramp up complete
13-1		00:34	MBES (EM712)	48° 04,405'	62° 42,451'	96	profile - continue
11-2		00:36	Seismic Source	48° 04,325'	62° 42,286'	95	profile - continue
14-1		00:51	Parasound P70	48° 03,653'	62° 40,961'	91	profile - continue
12-1		02:28	PAM	47° 59,404'	62° 32,526'	70	detection dolphins <1000m (PAM)
							Interrupt profile, PAM detection
11-2		02:28	Seismic Source	47° 59,404'	62° 32,526'	70	dolphins <1000m
							Interrupt profile, PAM detection
13-1	27.09.	02:30	MBES (EM712)	47° 59,329'	62° 32,358'	76	dolphins <1000m
							Interrupt profile, PAM detection
14-1		02:30	Parasound P70	47° 59,329'	62° 32,358'	76	dolphins <1000m
12-1		02:51	PAM	47° E0 262'	62° 30,273'	71	dolphinis <1000m
12-1		02.31	PAM		62° 26,848'		Dro watch and
						74 74	Pre-watch – end
11-2		03:27	Seismic Source		62° 26,839'	74	start ramp up
11-2		03:43	Seismic Source	•	62° 25,428'	75	ramp up complete
13-1		04:18	MBES (EM712)		62° 24,638'	81	profile - continue
14-1		04:18	Parasound P70	•	62° 24,638'	81	profile - continue
11-2		04:18	Seismic Source	•	62° 24,638'	81	profile - continue
11-2	28.09.		Seismic Source	46° 51,928'	•	61	Interrupt profile, technical problems
12-1		11:19	PAM	46° 42,445'	•	70	on deck
11-2		11:25	Seismic Source	46° 42,386'	62° 13,346'	74	Airgun on deck
11-1		11:46	Seismic Streamer	46° 42,184'	62° 11,765'	61	Streamer on deck
14-1		18:56	Parasound P70	46° 41,049'	61° 59,028'	58	profile end
13-1		18:56	MBES (EM712)	46° 41,032'	61° 58,972'	58	profile end
15-1		19:21	GC	46° 43,257'	61° 57,456'	89	core barrel length: 3m – deployed
15-1		19:25	GC	46° 43,257'	61° 57,456'	89	max depth/on ground
15-1		19:33	GC	46° 43,257'		89	on deck
16-1		19:51	GC	46° 42,937'	•	96	core barrel length: 5m – deployed
16-1		19:54	GC	46° 42,937'	•	96	max depth/on ground
16-1		20:01	GC	-	61° 57,705'	96	on deck
17-1		20:23	GC	-	61° 57,574'	90	core barrel length: 5m – deployed
17-1 17-1		20:24	GC		61° 57,574'	90	max depth/on ground
-/ ±		23.27	5 0	15 45,450	31 31,317	50	a. deptin on ground

17-1		20:31	GC	46° 43 430'	61° 57,574'	90	on deck
18-1		21:02	GC	-	62° 01,441'	76	core barrel length: 5m – deployed
18-1		21:04	GC		62° 01,441'	76	max depth/on ground
18-1		21:09	GC	-	62° 01,441'	76	on deck
18-1		21:20	GC	-	62° 01,445'	76	core barrel length: 5m – deployed
18-2		21:23	GC		62° 01,445'	76	max depth/on ground
18-2		21:29	GC	-	62° 01,445'	76	on deck
				46° 45,820'			
19-1 19-1		22:14 22:15	PAM PAM	-	62° 11,560' 62° 11,606'	70 70	in the water length: 220m
				•	•		•
20-1		22:38	MBES (EM712)		62° 13,647'	67 67	profile start
21-1		22:38	Parasound P70		62° 13,623'	67	profile start
21-1		05:10	Parasound P70	46° 50,460'	•	60	profile end
20-1		05:10	MBES (EM712)	•	62° 22,009'	60	profile end
19-1		09:56	PAM		63° 00,192'	47	on deck
22-1		11:42	CSEM - Bottom-towed		63° 15,799'	21	in the water
22-1		14:50	CSEM - Bottom-towed	•	63° 15,619'	31	start towing
22-1		15:06	CSEM - Bottom-towed		63° 15,568'	28	interrupt towing
22-1		15:06	CSEM - Bottom-towed	•	63° 15,568'	28	profile start
22-1		15:32	CSEM - Bottom-towed	•	63° 15,568'	28	Interrupt profile, technical problems
22-1		16:51	CSEM - Bottom-towed	•	63° 15,564'	28	continue towing
22-1		17:04	CSEM - Bottom-towed		63° 15,525'	28	interrupt towing
22-1		17:05	CSEM - Bottom-towed	46° 28,781'	63° 15,526'	74	profile end (technical problems)
22-1		18:42	CSEM - Bottom-towed	46° 28,781'	63° 15,526'	28	on deck
23-1		19:16	Seismic Streamer	46° 28,794'	63° 15,519'	29	Streamer in water
23-1		19:39	Seismic Streamer	46° 29,328'	63° 15,262'	22	length: 260m
23-2		19:48	Seismic Source	46° 29,718'	63° 15,076'	25	Airgun in water
24-1	29.09.	21:03	PAM	46° 34,807'	63° 12,628'	41	length: 220m – deployed
24-1		21:14	PAM	46° 35,516'	63° 12,258'	42	Pre-watch – start
23-2		21:14	Seismic Source	46° 35,516'	63° 12,258'	42	Pre-watch – start
25-1		21:38	MBES (EM712)	46° 37,057'	63° 11,629'	43	profile start
26-1		21:38	Parasound P70	46° 37,078'	63° 11,634'	43	profile start
24-1		21:46	PAM	46° 37,475'	63° 12,161'	43	Pre-watch – end
23-2		21:46	Seismic Source	46° 37,475'	63° 12,161'	43	Pre-watch – end
23-2		21:47	Seismic Source	46° 37,487'	63° 12,380'	43	start ramp up
23-2		22:02	Seismic Source	•	63° 13,290'	41	ramp up complete
23-2		22:02	Seismic Source		63° 13,295'	41	profile start
26-1		22:51	Parasound P70	•	63° 12,364'	42	profile end
25-1		22:51	MBES (EM712)		63° 12,364'	42	profile end
23-2		22:51	Seismic Source		63° 12,364'	42	profile end
23-2		23:11	Seismic Source	•	63° 11,837'	43	Airgun on deck (technical problems)
24-1		23:35	PAM		63° 11,273'	45	on deck
23-1		23:42	Seismic Streamer	•	63° 11,141'	46	Streamer on deck
27-1	20.00	03:42	PAM		62° 46,903'	54	length: 220m – deployed
	30.09.						• •
27-1		03:55	PAM		62° 46,008'	67 67	Pre-watch – start
27-1		04:25	PAM		62° 43,902'	67	Pre-watch – end
29-1		05:04	Parasound P70		62° 40,822'	68	profile start
28-1		05:04	MBES (EM712)		62° 40,822'	68	profile start
27-1		08:22	PAM	47° 34,464'	62° 28,387'	76	detection dolphins <1000m (PAM)
28-1		08:23	MBES (EM712)	47° 34,582'	62° 28,378'	75	Interrupt profile, PAM detection dolphins <1000m
29-1		08:23	Parasound P70	47° 34,640'	62° 28,377'	75	Interrupt profile, PAM detection dolphins <1000m
27-1		08:34	PAM	47° 35,650'	62° 28,323'	76	Last detection < 1000m, start pre- watch (PAM)
							(,

27-1		09:04	PAM	47° 38,641'	62° 28,151'	76	Pre-watch – end
28-1		09:23	MBES (EM712)	47° 40,447'	62° 28,056'	75	profile - continue
29-1		09:42	Parasound P70	47° 42,177'	62° 27,959'	77	profile - continue
27-1		10:27	PAM	47° 46,156'	62° 27,745'	70	on deck
28-1		12:16	MBES (EM712)	47° 54,403'	62° 37,971'	64	profile end
29-1		12:16	Parasound P70	47° 54,403'	62° 37,971'	64	profile end
30-1		13:06	GC	47° 50,214'	62° 32,730'	77	in the water
30-1		13:09	GC	47° 50,215'	62° 32,731'	76	max depth/on ground
30-1		13:14	GC	-	62° 32,730'	77	on deck
30-2		13:22	GC		62° 32,737'	75	in the water
30-2		13:29	GC	-	62° 32,737'	76	on deck
30-3		13:36	GC		62° 32,728'	76	in the water
30-3		13:38	GC	-	62° 32,729'	78	max depth/on ground
30-3		13:44	GC	· ·	62° 32,729'	76	on deck
30-4		14:00	GC		62° 32,906'	76	in the water
30-4		14:02	GC		62° 32,906'	77	max depth/on ground
30-4		14:06	GC	-	62° 32,907'	76	on deck
32-1		14:14	MBES (EM712)		62° 32,641'	77	profile start
31-1		14:14	Parasound P70	•	62° 32,641'	77	profile start
31-1		14:59	Parasound P70		62° 31,848'	66	Interrupt profile, technical problems
31-1		15:07	Parasound P70	-	62° 32,742'	64	profile - continue
31-1		19:23	Parasound P70		62° 39,936'	92	profile end
32-1		19:23	MBES (EM712)	-	62° 39,930	92	profile end
33-1		19:40	CTD	-		91	in the water
					62° 39,841'		
33-1		19:46	CTD	-	62° 39,840'	91	max depth/on ground
33-1		19:52	CTD	-	62° 39,839'	91	on deck
34-1		20:00	GC		62° 39,840'	91	core barrel length: 3m – deployed
34-1		20:02	GC	-	62° 39,842'	92	max depth/on ground
34-1		20:10	GC		62° 39,839'	93	on deck
34-2		20:20	GC	· ·	62° 39,839'	92	core barrel length: 3m – deployed
34-2		20:22	GC	,	62° 39,842'	92	max depth/on ground
34-2		20:31	GC		62° 39,840'	92	on deck
34-3		20:59	GC	48° 03,060'	62° 39,840'	92	core barrel length: 5m – deployed
34-3		21:01	GC	48° 03,060'	62° 39,840'	92	max depth/on ground
34-3		21:11	GC	48° 03,060'	62° 39,842'	93	on deck
36-1		21:28	Parasound P70	48° 03,266'	62° 39,525'	91	profile start
35-1		21:28	MBES (EM712)	48° 03,266'	62° 39,525'	91	profile start
36-1		10:58	Parasound P70	47° 21,152'	62° 27,886'	61	profile end
35-1		10:58	MBES (EM712)	47° 21,152'	62° 27,886'	61	profile end
37-1		15:58	Seismic Streamer	46° 31,275'	63° 01,656'	42	Streamer in water
37-1		16:15	Seismic Streamer	46° 31,200'	63° 02,421'	41	length: 190m
37-2		16:24	Seismic Source	46° 31,119'	63° 03,061'	44	Pre-watch – start
37-2		16:44	Seismic Source	46° 30,924'	63° 04,793'	42	Airgun in water
37-2	01.10.	16:54	Seismic Source	46° 30,851'	63° 05,612'	37	Pre-watch – end
37-2		16:54	Seismic Source	46° 30,849'	63° 05,628'	37	start ramp up
37-2		17:10	Seismic Source	46° 30,696'	63° 07,113'	38	ramp up complete
38-1		17:11	MBES (EM712)		63° 07,224'	38	profile start
39-1		17:11	Parasound P70		63° 07,246'	37	profile start
37-2		18:41	Seismic Source	· ·	63° 14,230'	35	profile start
40-1		20:05	PAM	•	63° 11,603'	43	length: 220m – deployed
37-2	02.10.	22:01	Seismic Source		61° 29,362'	62	profile end (technical problems)
37-2	02.10.	22:01	Seismic Source		61° 29,399'	62	profile end (technical problems)
37-2		22:01	Seismic Source	· ·	61° 29,420'	62	profile end
40-1		22:25	PAM		61° 31,687'	61	on deck
40-I		22.23	raivi .	40 31,092	01 31,00/	OI	OH UECK

37-2		22:29	Seismic Source	46° 31.031'	61° 32,019'	61	Airgun on deck
37-1		22:43	Seismic Streamer	46° 30,927'	•	61	Streamer on deck
39-1		22:58	Parasound P70	•	61° 34,087'	60	profile end
38-1		22:59	MBES (EM712)	-	61° 34,104'	60	profile end
42-1		23:34	MBES (EM712)		61° 37,540'	62	profile start
41-1		23:34	Parasound P70	46° 35,063'		62	profile start
42-1		15:17	MBES (EM712)		61° 55,336'	54	profile end
41-1		15:17	Parasound P70		61° 55,336'	54	profile end
43-1		15:24	CTD	•	61° 55,580'	53	in the water
43-1		15:29	CTD	46° 35,869'	61° 55,581'	53	max depth/on ground
43-1		15:32	CTD	46° 35,869'	61° 55,581'	53	on deck
44-1		16:09	Seismic Streamer	•	61° 54,284'	48	Streamer in water
44-2		16:10	Seismic Source	•	61° 54,243'	48	Pre-watch – start
44-1		16:26	Seismic Streamer	•	61° 53,699'	51	length: 195m
44-2	03.10.	16:39	Seismic Source	46° 31,227'		43	Airgun in water
44-2		16:48	Seismic Source		61° 52,446'	40	Pre-watch – end
44-2		16:50	Seismic Source	•	61° 52,287'	40	start ramp up
44-2		17:06	Seismic Source	46° 29,874'		35	ramp up complete
45-1		17:20	MBES (EM712)	•	61° 49,808'	35	profile start
46-1		17:20	Parasound P70	46° 29,377'	· ·	35	profile start
44-2		17:20	Seismic Source	•	61° 49,808'	35	profile start
47-1		21:39	PAM	•	61° 31,894'	76	length: 220m – deployed
47-1		10:36	PAM	•	060° 49,102'	54	on deck
47-1 44-2		10:54	Seismic Source		060° 48,154'	54	profile end
44-2		11:03	Seismic Source		060° 48,134'	55	Airgun on deck
44-2 44-1		11:21	Seismic Streamer		060° 48,559'	54	Streamer on deck
44-1 45-1		11:22	MBES (EM712)		060° 48,539	54 54	profile end
45-1 46-1		11:22	Parasound P70	-	060° 48,570'	54	profile end
48-1 48-1		11:27	CTD		060° 48,581'	54 54	in the water
48-1 48-1		11:35	CTD	-	060° 48,581'	54	on deck
	04.10.	20:26	GC		63° 03,451'		core barrel length: 3m – deployed
49-1 49-1		20:28	GC			52 52	
49-1 49-1		20:28	GC		63° 03,450' 63° 03,451'	52 52	max depth/on ground on deck
				-			
50-1 50-1		21:00	GC GC		63° 05,537'	49	core barrel length: 3m – deployed
		21:01			63° 05,538'	49	max depth/on ground
50-1		21:07	GC		63° 05,540'	49	on deck
51-1		21:52	CSEM		63° 11,635'	43	USBL – in water
51-1	05.10	23:55	CSEM		63° 11,636'	42	CAGEM – in water
51-1	05.10.	01:13	CSEM	•	63° 11,636'	42	recording start (v = 0.6kn)
51-1		03:56	CSEM	•	63° 10,891'	45 45	recording end
51-1		04:03	CSEM	•	63° 10,891'	45	on deck
51-2		04:27	CSEM	•	63° 10,267'	48	CAGEM
51-2		04:39	CSEM	•	63° 10,260'	48	recording start (v = 0.6kn)
51-2		06:36	CSEM	•	63° 09,775'	48	recording end
51-2		06:43	CSEM		63° 09,776'	48	on deck
51-3		07:18	CSEM		63° 09,022'	48	CAGEM
51-3		07:32	CSEM		63° 09,011'	49 52	recording start (v = 0.6kn)
51-3		09:21	CSEM		63° 08,527'	52	recording end
51-3		09:28	CSEM	•	63° 08,528'	52	on deck
51-4		09:54	CSEM	•	63° 07,777'	53	CAGEM
51-4		10:07	CSEM	•	63° 07,774'	53	recording start (v = 0.6kn)
51-4		12:04	CSEM	•	63° 07,277'	54	recording end
51-4		12:06	CSEM		63° 07,277'	54	on deck
51-5		12:40	CSEM	46 47,313	63° 06,529'	56	CAGEM

51-5	12:49	CSEM	46° 47,313'	63° 06,529'	56	recording start (v = 0.6kn)	
51-5	14:38	CSEM	46° 48,326'	•	57	recording end	
51-5	14:50	CSEM	46° 48,330'	•	57	on deck	
51-6	15:15	CSEM	•	63° 05,279'	54	CAGEM	
51-6	15:32	CSEM	46° 49,881'	63° 05,276'	54	recording start (v = 0.6kn)	
51-6	17:23	CSEM	46° 50,890'	63° 04,782'	57	recording end	
51-6	17:26	CSEM	46° 50,890'	63° 04,782'	57	on deck	
51-7	17:52	CSEM	46° 52,430'	63° 04,029'	57	CAGEM	
51-7	18:11	CSEM	46° 52,436'	63° 04,026'	57	recording start (v = 0.6kn)	
51-7	20:03		46° 53,450'	63° 03,530'	57	recording end	
51-7	20:12	CSEM	46° 53,450'	63° 03,530'	57	on deck	
51-8	20:40	CSEM	46° 54,992'	•	63	CAGEM	
51-8	20:54		46° 54,993'	•	63	recording start (v = 0.6kn)	
51-8	22:46	CSEM	46° 56,006'		65	recording end	
51-8	22:52		46° 56,006'	63° 02,275'	65	on deck	
51-9	23:21	CSEM	46° 57,555'	63° 01,517'	65	CAGEM	
51-9	23:43	CSEM	46° 57,618'	63° 01,485'	65	recording start (v = 0.6kn)	
51-9	06.10. 01:19		·	63° 01,042'	63	recording end	
51-9	01:29	CSEM	46° 58,527'	63° 01,040'	63	on deck	
6-12	01:35	OBEM	46° 58,502'	63° 01,087'	63	hydrophone in water	
6-12	01:43	OBEM	·	63° 01,252'	63	released	
6-12	01:48	OBEM	46° 58,005'	63° 01,311'	64	hydrophone on deck	
6-12	01:49	OBEM	46° 57,999'	-	64	OBEM on deck	
6-11	02:10	OBEM	46° 55,792'	63° 02,486'	66	hydrophone in water	
6-11	02:17	OBEM	46° 55,552'	63° 02,542'	64	released	
6-11	02:20	OBEM	46° 55,456'	63° 02,576'	65	hydrophone on deck	
6-11	02:23	OBEM	46° 55,423'	63° 02,588'	65	OBEM on deck	
6-10	02:43	OBEM	46° 53,193'	-	62	hydrophone in water	
6-10	02:45		46° 53,183'	· ·	62	released	
6-10	02:46		•	63° 03,721'	62	hydrophone on deck	
6-10	02:56		46° 52,878'	•	58	OBEM on deck	
6-9	03:16		46° 50,521'		55	hydrophone in water	
6-9	03:19		•	63° 04,968'	54	released	
6-9	03:22			63° 05,029'	55	hydrophone on deck	
6-9	03:26			63° 05,017'	55	OBEM on deck	
6-8	03:45		·	63° 06,160'	59	hydrophone in water	
6-8	03:46			63° 06,158'	59	released	
6-8	03:48		•	63° 06,149'	59	hydrophone on deck	
6-8	03:56		•	63° 06,239'	59	OBEM on deck	
6-7	04:14		•	63° 07,389'	55	hydrophone in water	
6-7	04:16		·	63° 07,400'	55	released	
6-7	04:17		·	63° 07,405'	55	hydrophone on deck	
6-7	04:30		·	63° 07,512'	54	OBEM on deck	
6-6	04:49		·	63° 08,672'	52	hydrophone in water	
6-6	04:51		·	63° 08,674'	52	released	
6-6	04:53		·	63° 08,687'	53	hydrophone on deck	
6-6	05:04			63° 08,754'	51	OBEM on deck	
6-5	05:22		•	63° 09,923'	50	hydrophone in water	
6-5	05:24		·	63° 09,939'	51	released	
6-5	05:26			63° 09,936'	51	hydrophone on deck	
6-5	05:36		•	63° 09,995'	51	OBEM on deck	
6-4	05:54		·	63° 11,135'	46	hydrophone in water	
6-4	05:55		•	63° 11,135'	45	released	
6-4	05:56	OBEM	46 37,813	63° 11,137'	45	hydrophone on deck	

6-4 06:10 OBEM 46° 37,509 63° 11,215′ 45 OBEM offects 52-1 07:34 OBEM 46° 34,522′ 63° 12,301′ 3 OBEMI3 – deployed 52-2 08:35 OBEM 46° 34,092′ 63° 12,307′ 43 OBEMI3 – deployed 52-4 09:01 OBEM 46° 34,989′ 63° 13,283′ 38 0BEMI3 – deployed 52-5 09:26 OBEM 46° 31,989′ 63° 14,029′ 30 0BEMI7 – deployed 52-6 09:53 OBEM 46° 30,935′ 63° 14,569′ 30 0BEMI3 – deployed 52-8 11:02 OBEM 46° 30,935′ 63° 14,569′ 32 OBEM19 – deployed 52-8 11:02 OBEM 46° 30,932′ 31′,466′ 32 OBEM19 – deployed 52-1 11:58 CSEM 46° 29,927′ 63° 14,560′ 32 USBL – hydrophone in water 53-1 11:13 CSEM 46° 31,699′ 63° 14,103′ 35 Interrupt profile, technical problems 53-1								
52-2 08:05 0BEM 46" 34,025" 63" 13,029" 41 OBEM15 - deployed 52-3 08:38 0BEM 46" 34,005" 63" 13,029" 33 30 DBEM15 - deployed 52-4 09:01 0BEM 46" 33,989" 63" 13,259" 37 OBEM16 - deployed 52-6 09:52 0BEM 46" 30,981" 63" 14,529" 36 OBEM14 - deployed 52-7 10:20 0BEM 46" 30,424" 63" 14,029" 36 30 DBEM14 - deployed 52-8 11:02 0BEM 46" 30,932" 63" 14,688" 32 OBEM20 - deployed 52-9 11:43 OBEM 46" 30,927" 63" 14,968" 32 USBL - hydrophone in water 53-1 11:58 CSEM 46" 29,927" 63" 14,963" 25 USBL - hydrophone in water 53-1 16:16 CSEM 46" 31,699" 63" 14,963" 25 12 CAGEM - in water 53-1 16:16 CSEM 46" 31,699" 63" 14,150" 35 13 interrupt profile, etchnical problems 53-1 16:16 CSEM 46" 31,699" 63" 12,761" 43 13 interrupt profile, etchnical problems 53-1 07:10 00:01 CSEM 46" 36,022" 63" 12,013" 43 13 interrupt profile, etchnical problems 53-1 07:10	6-4		06:10	OBEM	46° 37,505'	63° 11,215'	45	OBEM on deck
52-3 0.83.8 OBEM 46° 34,005° 63° 13,029° 41 OBEM16 - deployed 52-4 0.90.1 OBEM 46° 33,498° 63° 13,023° 38 OBEM16 - deployed 52-5 0.92.5 OBEM 46° 31,964° 63° 14,029° 35 OBEM13 - deployed 52-7 10:20 OBEM 46° 31,464° 63° 14,764° 32 OBEM20 - deployed 52-8 11:02 OBEM 46° 30,935° 63° 14,963° 25 OBEM21 - deployed 52-9 11:43 OBEM 46° 29,927° 63° 14,963° 25 USBL - hydrophone in water 53-1 13:07 CSEM 46° 29,927° 63° 14,963° 25 CAGEM - in water 53-1 13:07 CSEM 46° 31,699° 63° 14,120° 35 trecording start (v = 0.6kn) 53-1 16:16 CSEM 46° 36,021° 63° 12,014° 43 in therupt profile, technical problems 53-1 00:10 CSEM 46° 36,022° 63° 12,014° 43 in the water	52-1		07:34	OBEM	46° 35,530'	63° 12,301'	43	OBEM13 – deployed
S2-4	52-2		08:05	OBEM	46° 34,522'	63° 12,775'	43	OBEM14 – deployed
S2-5	52-3		08:38	OBEM	46° 34,005'	63° 13,029'	41	OBEM15 – deployed
52-6 09:53 OBEM 46" 31,964" 63" 14,029" 35 OBEMIS – deployed 52-7 10:20 OBEM 46" 31,445" 63" 14,659" 36 OBEMI9 – deployed 52-8 11:02 OBEM 46" 30,424" 63" 14,764" 32 OBEM21 – deployed 52-9 11:143 OBEM 46" 30,424" 63" 14,764" 32 OBEM21 – deployed 53-1 13:07 CSEM 46" 29,927" 63" 14,963" 25 CAGEM – in water 53-1 13:14 CSEM 46" 29,927" 63" 14,963" 25 Stenchmen in water 53-1 16:16 CSEM 46" 31,659" 63" 14,105" 35 Interrupt profile, technical problems 53-1 16:21 CSEM 46" 36,022" 63" 12,013" 33 Interrupt profile, technical problems 53-1 07:10. O0:01 CSEM 46" 36,022" 63" 12,014" 43 on deck 54-1 00:10 CSEM 46" 36,022" 63" 12,014" 43 on deck 54-1 00:31 CTD 46" 36,022" 63" 12,761" 43 profile start 55-1 01:13 MBES (EM712) 46" 33,884 63" 07,132" 51 or profile start <	52-4		09:01	OBEM	46° 33,498'	63° 13,283'	38	OBEM16 – deployed
52-7 10:20 OBEM 46° 30,935° 63° 14,256° 34 OBEM19 – deployed 52-8 11:02 OBEM 46° 30,935° 63° 14,518° 32 OBEM21 – deployed 53-1 11:58 CSEM 46° 29,926° 63° 14,968° 25 USBL – hydrophone in water 53-1 13:14 CSEM 46° 29,927° 63° 14,963° 25 CAGEM – in water 53-1 16:16 CSEM 46° 31,649° 63° 14,130° 35 Interrupt profile, technical problems 53-1 16:16 CSEM 46° 36,022° 63° 12,013° 34 recording start (v = 0.6kn) 53-1 10:10 CSEM 46° 36,022° 63° 12,013° 34 recording end 53-1 00:10 CSEM 46° 36,022° 63° 12,014° 43 on deck 54-1 00:31 CTD 46° 36,022° 63° 12,014° 43 no deck 55-1 00:30 MBES (EM712) 46° 30,94° 63° 12,761° 43 profile start 55-1 09:00 MBES (EM712) 46° 30,98° 63° 03,252° 51 profile start 57	52-5		09:26	OBEM	46° 32,989'	63° 13,529'	37	OBEM17 – deployed
52-8 11.02 OBEM 46" 30,935" 63" 14,514" 32 OBEM20 – deployed 52-9 11.43 OBEM 46" 30,924" 63" 14,764" 32 OBEM21 – deployed 53-1 13:07 CSEM 46" 29,927" 63" 14,963" 25 USBL – hydrophone in water 53-1 16:16 CSEM 46" 30,649" 63" 14,963" 25 CAGEM – in water 53-1 16:16 CSEM 46" 31,659" 63" 14,125" 35 Interrupt profile, technical problems 53-1 07.10 00:01 CSEM 46" 36,021" 63" 12,014" 43 on deck 53-1 00:10 CSEM 46" 36,021" 63" 12,014" 43 on deck 54-1 00:24 CTD 46" 35,094" 63" 12,761" 43 on deck 55-1 01:13 Parasound P70 46" 33,891" 63" 02,352" 50 profile start 55-1 01:13 MBES (EM712) 46" 33,884" 63" 07,132" 51 profile end 57-1 09:30 GC 46" 33,884" 63" 07,132" 51 profile end 57	52-6		09:53	OBEM	46° 31,964'	63° 14,029'	35	OBEM18 – deployed
52-9 11:43 OBEM 46° 30,424° 63° 14,764° 22 OBEM21 – deployed 53-1 11:58 CSEM 46° 29,927° 63° 14,963° 25 USBL – hydrophone in water 53-1 13:14 CSEM 46° 29,927° 63° 14,963° 25 CAGEM – in water 53-1 16:16 CSEM 46° 31,649° 63° 14,130° 35 Interrupt profile, technical problems 53-1 16:21 CSEM 46° 36,022° 63° 12,013° 43 on deck 53-1 00:10 CSEM 46° 36,022° 63° 12,014° 43 in the water 54-1 00:24 CTD 46° 36,022° 63° 12,014° 43 in the water 54-1 00:31 CTD 46° 35,094° 63° 12,761° 43 profile start 55-1 09:00 MBES (EM712) 46° 33,984° 63° 07,132° 51 profile start 57-1 09:31 GC 46° 33,884° 63° 07,132° 51 profile end 57-2 10:02 GC 46° 33,884° 63° 07,132° 51 no eck 57-2 10:03	52-7		10:20	OBEM	46° 31,445'	63° 14,269'	36	OBEM19 – deployed
53-1 11:58 CSEM 46° 29,927° 63° 14,968° 25 USBL - hydrophone in water 53-1 13:07 CSEM 46° 29,927° 63° 14,963° 25 CAGEM - in water 53-1 16:16 CSEM 46° 31,699° 63° 14,125° 35 Interrupt profile, technical problems 53-1 16:21 CSEM 46° 36,021° 63° 14,125° 35 Interrupt profile, technical problems 53-1 00:10 CSEM 46° 36,021° 63° 12,014° 43 on deck 54-1 00:24 CTD 46° 36,021° 63° 12,014° 43 on deck 54-1 00:31 CTD 46° 36,022° 63° 12,014° 43 on deck 56-1 01:13 Parasound P70 46° 36,021° 63° 12,014° 43 on deck 55-1 09:00 MBES (EM712) 46° 36,021° 63° 12,014° 43 profile end 56-1 09:01 MBES (EM712) 46° 36,024° 63° 12,013° 50 profile end 57-1	52-8		11:02	OBEM	46° 30,935'	63° 14,514'	34	OBEM20 – deployed
53-1 13:07 CSEM 46° 29,927' 63° 14,963' 25 CAGEM – in water 53-1 13:14 CSEM 46° 29,927' 63° 14,963' 25 recording start (v = 0.6kn) 53-1 16:16 CSEM 46° 31,659' 63° 14,130' 35 measurements - continue 53-1 07.10 00:01 CSEM 46° 36,021' 63° 12,014' 43 on deck 54-1 00:24 CTD 46° 36,021' 63° 12,014' 43 in the water 54-1 00:31 CTD 46° 36,021' 63° 12,761' 43 in the water 55-1 01:13 Parasound P70 46° 35,094' 63° 12,761' 43 profile start 55-1 09:00 MBES (EM712) 46° 33,985' 63° 02,352' 51 profile end 57-1 09:01 Parasound P70 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:36 GC 46° 33,884' 63° 07,132' 51 on deck <	52-9		11:43	OBEM	46° 30,424'	63° 14,764'	32	OBEM21 – deployed
53-1 13:14 CSEM 46° 29,927' 63° 14,963' 25 recording start (v = 0.6kn) 53-1 16:16 CSEM 46° 31,699' 63° 14,130' 35 Interrupt profile, technical problems 53-1 07:10 00:01 CSEM 46° 36,022' 63° 12,013' 43 recording end 53-1 00:10 CSEM 46° 36,021' 63° 12,014' 43 on deck 54-1 00:31 CTD 46° 36,022' 63° 12,014' 43 on deck 56-1 01:13 Parasound P70 46° 35,094' 63° 12,761' 43 profile start 55-1 09:00 MBES (EM712) 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:01 Parasound P70 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:31 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:02 GC 46° 33,884' 63° 07,132' 51 ore bar	53-1		11:58	CSEM	46° 29,926'	63° 14,968'	25	USBL – hydrophone in water
53-1 16:16 CSEM 46° 31,649′ 63° 14,125′ 35 Interrupt profile, technical problems 53-1 07:10 00:01 CSEM 46° 31,659′ 63° 14,125′ 35 measurements - continue 53-1 00:10 CSEM 46° 36,021′ 63° 12,014′ 43 on deck 54-1 00:24 CTD 46° 36,021′ 63° 12,014′ 43 on deck 54-1 00:31 CTD 46° 36,022′ 63° 12,014′ 43 on deck 56-1 01:13 Parasound P70 46° 35,094′ 63° 12,761′ 43 profile start 55-1 01:13 MBES (EMT212) 46° 33,985′ 63° 12,761′ 43 profile start 55-1 09:01 Parasound P70 46° 33,985′ 63° 12,761′ 43 profile end 57-1 09:29 GC 46° 33,884′ 63° 07,132′ 51 core barrel length: 3m – deployed 57-1 09:36 GC 46° 33,884′ 63° 07,132′ 51 core barrel length: 3m – deployed </td <td>53-1</td> <td></td> <td>13:07</td> <td>CSEM</td> <td>46° 29,927'</td> <td>63° 14,963'</td> <td>25</td> <td>CAGEM – in water</td>	53-1		13:07	CSEM	46° 29,927'	63° 14,963'	25	CAGEM – in water
53-1 16:21 CSEM 46° 36,022' 63° 14,125' 35 measurements - continue 53-1 07:10 00:01 CSEM 46° 36,021' 63° 12,013' 43 recording end 54-1 00:24 CTD 46° 36,021' 63° 12,014' 43 in the water 54-1 00:31 CTD 46° 36,022' 63° 12,014' 43 in the water 56-1 01:13 Parasound P70 46° 35,094' 63° 12,761' 43 profile start 55-1 09:00 MBES (EM712) 46° 34,027' 63° 02,369' 50 profile end 56-1 09:01 Parasound P70 46° 33,884' 63° 07,132' 51 profile end 57-1 09:29 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:36 GC 46° 33,884' 63° 07,132' 51 on deck 57-2 10:02 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed	53-1		13:14	CSEM	46° 29,927'	63° 14,963'	25	recording start (v = 0.6kn)
53-1 16:21 CSEM 46° 36,022' 63° 14,125' 35 measurements - continue 53-1 07:10 00:10 CSEM 46° 36,021' 63° 12,013' 43 recording end 54-1 00:24 CTD 46° 36,021' 63° 12,014' 43 in the water 54-1 00:31 CTD 46° 36,021' 63° 12,014' 43 on deck 56-1 01:13 Parasound P70 46° 35,094' 63° 12,761' 43 profile start 55-1 09:00 MBES (EM712) 46° 34,027' 63° 02,369' 50 profile end 56-1 09:01 Parasound P70 46° 33,884' 63° 07,132' 51 profile end 57-1 09:29 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:36 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-2 10:03 GC 46° 33,884' 63° 07,132' 51 core barrel length: 5m – deployed	53-1		16:16	CSEM	46° 31,649'	63° 14,130'	35	Interrupt profile, technical problems
53-1 07.10. 00:01 CSEM 46° 36,022' 63° 12,013' 43 recording end 53-1 00:10 CSEM 46° 36,021' 63° 12,014' 43 on deck 54-1 00:31 CTD 46° 36,022' 63° 12,014' 43 on deck 56-1 01:13 Parasound P70 46° 35,094' 63° 12,761' 43 profile start 55-1 09:13 MBES (EM712) 46° 35,094' 63° 12,761' 43 profile end 55-1 09:01 MBES (EM712) 46° 33,985' 63° 02,352' 51 profile end 56-1 09:01 Parasound P70 46° 33,884' 63° 07,132' 51 rore barrel length: 3m – deployed 57-1 09:36 GC 46° 33,884' 63° 07,132' 51 ore barrel length: 3m – deployed 57-2 10:02 GC 46° 33,884' 63° 07,132' 51 ore barrel length: 5m – deployed 57-2 10:03 GC 46° 35,487' 63° 12,149' 43 hydrophone in water <	53-1		16:21	CSEM	46° 31,659'	63° 14,125'	35	
53-1 00:10 CSEM 46° 36,021' 63° 12,014' 43 on deck 54-1 00:24 CTD 46° 36,021' 63° 12,014' 43 in the water 56-1 01:13 Parasound P70 46° 35,094' 63° 12,761' 43 profile start 55-1 01:13 MBES (EM712) 46° 35,094' 63° 12,761' 43 profile start 55-1 09:00 MBES (EM712) 46° 35,094' 63° 12,761' 43 profile start 55-1 09:01 Parasound P70 46° 33,884' 63° 07,132' 51 profile end 57-1 09:29 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:36 GC 46° 33,884' 63° 07,132' 51 on deck 57-2 10:03 GC 46° 33,884' 63° 07,132' 51 on deck 57-2 10:03 GC 46° 33,884' 63° 07,132' 51 on deck 52-1 10:01 OBEM	53-1	07.10.	00:01	CSEM			43	recording end
54-1 00:24 CTD 46° 36,021' 63° 12,014' 43 on deck 54-1 00:31 CTD 46° 36,022' 63° 12,014' 43 on deck 56-1 01:13 Parasound P70 46° 35,094' 63° 12,761' 43 profile start 55-1 01:13 MBES (EM712) 46° 35,094' 63° 12,761' 43 profile start 55-1 09:00 MBES (EM712) 46° 35,094' 63° 12,761' 43 profile start 56-1 09:01 Parasound P70 46° 33,884' 63° 02,352' 51 profile end 57-1 09:09 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:31 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-2 10:02 GC 46° 33,884' 63° 07,132' 51 core barrel length: 5m – deployed 57-2 10:03 GC 46° 33,884' 63° 07,132' 51 core barrel length: 5m – deployed 57-2 10:09 GC 46° 33,884' 63° 07,132' 51 core barrel length: 5m – deployed 57-2 10:09 GC 46° 33,884' 63° 07,132' 51 core barrel length: 5m – deployed 52-1 10:01 OBEM 46° 35,487' 63° 12,149' 43 core barrel length: 5m – deployed 52-1 10:02			00:10	CSEM	46° 36,021'	63° 12,014'		_
54-1 00:31 CTD 46° 35,094' 63° 12,761' 43 on deck 56-1 01:13 Parasound P70 46° 35,094' 63° 12,761' 43 profile start 55-1 01:13 MBES (EM712) 46° 35,094' 63° 12,761' 43 profile start 55-1 09:00 MBES (EM712) 46° 33,085' 63° 02,352' 51 profile end 56-1 09:01 Parasound P70 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:36 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:02 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:03 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:09 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:09 GC 46° 33,884' 63° 12,149' 43 released 52-1 <					•	•		
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56-1 09:01 Parasound P70 46° 33,985' 63° 02,352' 51 profile end 57-1 09:29 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:36 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:02 GC 46° 33,884' 63° 07,132' 51 core barrel length: 5m – deployed 57-2 10:03 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:09 GC 46° 33,884' 63° 07,132' 51 on deck 52-1 10:51 OBEM 46° 35,487' 63° 12,149' 43 hydrophone in water 52-1 11:00 OBEM 46° 35,591' 63° 12,149' 43 hydrophone on deck 52-1 11:07 OBEM 46° 34,981' 63° 12,470' 43 hydrophone in water 6-3 11:14 OBEM 46° 35,018' 63° 12,402' 43 released 52-2 <				•	· ·	•		•
57-1 09:29 GC 46° 33,884' 63° 07,132' 51 core barrel length: 3m – deployed 57-1 09:31 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-1 09:36 GC 46° 33,884' 63° 07,132' 51 on deck 57-2 10:02 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:09 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:09 GC 46° 33,884' 63° 12,149' 43 hydrophone in water 52-1 10:51 OBEM 46° 35,487' 63° 12,149' 43 hydrophone in water 52-1 11:00 OBEM 46° 35,494' 63° 12,470' 43 hydrophone on deck 52-1 11:07 OBEM 46° 34,981' 63° 12,470' 43 hydrophone on deck 6-3 11:14 OBEM 46° 34,981' 63° 12,40' 43 hydrophone in water 6-3 11:27<								•
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57-2 10:02 GC 46° 33,884' 63° 07,132' 51 core barrel length: 5m – deployed 57-2 10:03 GC 46° 33,884' 63° 07,132' 51 max depth/on ground 57-2 10:09 GC 46° 33,884' 63° 07,132' 51 on deck 52-1 10:51 OBEM 46° 35,487' 63° 12,149' 43 hydrophone in water 52-1 11:00 OBEM 46° 35,494' 63° 12,162' 43 hydrophone on deck 52-1 11:07 OBEM 46° 35,591' 63° 12,273' 43 OBEM on deck 6-3 11:14 OBEM 46° 34,981' 63° 12,470' 43 hydrophone in water 6-3 11:17 OBEM 46° 34,981' 63° 12,487' 43 OBEM on deck 52-2 11:42 OBEM 46° 34,981' 63° 12,487' 43 OBEM on deck 52-2 11:42 OBEM 46° 34,528' 63° 12,746' 42 released 52-3 12:00 OBEM <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>· ·</td> <td></td> <td>•</td>					•	· ·		•
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52-9 13:57 OBEM 46° 30,537' 63° 14,436' 32 released					•	•		
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52-9 14:04 OBEM 46° 30,419' 63° 14,749' 32 OBEM on deck					· ·	•		
	52-9		14:04	OBEM	46° 30,419'	63° 14,749'	32	OBEM on deck

6-1		14:12	OBEM	•	63° 14,807'	29	released
6-1		14:18	OBEM	•	63° 14,988'	25	OBEM on deck
58-1		14:32	Seismic Streamer	· ·	63° 15,711'	28	Streamer in water
58-2		14:45	Seismic Source	•	63° 16,079'	29	Pre-watch – start
58-1		14:50	Seismic Streamer	46° 30,927'	63° 16,247'	29	length: 200m
58-1		15:23	Seismic Streamer	46° 32,494'	63° 17,117'	33	Streamer on deck (technical problems)
58-1		16:21	Seismic Streamer	46° 32,594'	63° 17,168'	34	Streamer in water
58-1		16:37	Seismic Streamer	•	63° 17,513'	33	length: 200m
58-1		17:14	Seismic Streamer	•	63° 18,964'	34	Streamer on deck (technical
				•	,		problems)
58-1		18:08	Seismic Streamer	· ·	63° 21,177'	41	Streamer in water
58-1		18:24	Seismic Streamer	· ·	63° 21,133'	40	length: 200m
58-2		18:49	Seismic Source	· ·	63° 21,538'	36	Airgun in water
58-2		19:05	Seismic Source		63° 21,306'	34	Airgun on deck (technical problems)
58-2		19:45	Seismic Source	46° 34,549'	63° 22,688'	32	Airgun in water
58-2		19:49	Seismic Source	46° 34,816'	63° 22,832'	32	Pre-watch – end
58-2		19:50	Seismic Source	46° 34,833'	63° 22,835'	32	start ramp up
58-2		20:06	Seismic Source	46° 35,688'	63° 21,719'	34	ramp up complete
58-2		20:07	Seismic Source	46° 35,728'	63° 21,601'	34	profile start
60-1		20:07	Parasound P70	46° 35,741'	63° 21,563'	34	profile start
59-1		20:07	MBES (EM712)	46° 35,745'	63° 21,549'	34	profile start
61-1		21:57	PAM	46° 35,650'	63° 08,135'	46	length: 220m – deployed
58-2	08.10.	07:35	Seismic Source	46° 32,514'	61° 58,098'	46	profile end – PAM and streamer entangled
58-1		07:35	Seismic Streamer	46° 32 514'	61° 58,098'	46	profile end – PAM and streamer
33 -		07.00		02,02	01 00,000		entangled
61-1		07:36	PAM	46° 32,504'	61° 57,940'	46	profile end – PAM and streamer entangled
61-1 59-1		07:36 07:40		•	61° 57,940' 61° 57,440'	46 45	
			PAM MBES (EM712) Parasound P70	46° 32,538'			entangled
59-1		07:40	MBES (EM712)	46° 32,538'	61° 57,440' 61° 57,407'	45	entangled profile end
59-1 60-1 58-2		07:40 07:40	MBES (EM712) Parasound P70	46° 32,538' 46° 32,546' 46° 33,284'	61° 57,440' 61° 57,407' 61° 56,611'	45 46	entangled profile end profile end
59-1 60-1 58-2 61-1		07:40 07:40 07:55 08:19	MBES (EM712) Parasound P70 Seismic Source PAM	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178'	45 46 51	entangled profile end profile end Airgun on deck on deck
59-1 60-1 58-2 61-1 58-1		07:40 07:40 07:55 08:19 08:19	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179'	45 46 51 55 55	entangled profile end profile end Airgun on deck on deck Streamer on deck
59-1 60-1 58-2 61-1 58-1 62-1		07:40 07:40 07:55 08:19 08:19 10:00	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708'	45 46 51 55 55 53	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water
59-1 60-1 58-2 61-1 58-1 62-1 62-2		07:40 07:40 07:55 08:19 08:19 10:00 10:00	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,087'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711'	45 46 51 55 55 53 54	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start
59-1 60-1 58-2 61-1 58-1 62-1 62-2		07:40 07:40 07:55 08:19 08:19 10:00 10:00	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,087' 46° 26,714'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,824'	45 46 51 55 55 53 54 53	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-1 62-2		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Source Seismic Streamer Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,714' 46° 27,048'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,824' 61° 39,812'	45 46 51 55 55 53 54 53	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-1 62-2		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Source Seismic Streamer Seismic Source Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,087' 46° 26,714' 46° 27,048' 46° 27,250'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,812' 61° 39,812' 61° 39,841'	45 46 51 55 55 53 54 53 54 54	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-1 62-2 62-2		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Source Seismic Streamer Seismic Source Seismic Source Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,714' 46° 27,048' 46° 27,250' 46° 27,623'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,824' 61° 39,841' 61° 39,841' 61° 39,920'	45 46 51 55 55 53 54 53 54 54 54	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-1 62-2 62-2 62-2		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Source Seismic Streamer Seismic Source Seismic Source Seismic Source Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,095' 46° 26,071' 46° 26,714' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,496'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,824' 61° 39,812' 61° 39,841' 61° 39,920' 61° 40,115'	45 46 51 55 55 53 54 53 54 54 54 54	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-1 62-2 62-2 62-2 62-2 62		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,087' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,496' 46° 28,504'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,812' 61° 39,841' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,117'	45 46 51 55 53 54 53 54 54 54 55 55	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-1 62-2 62-2 62-2 62-2 62		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55 10:55	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Source MBES (EM712)	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 26,071' 46° 26,087' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,496' 46° 28,504' 46° 28,518'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,824' 61° 39,841' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,117' 61° 40,119'	45 46 51 55 53 54 53 54 54 54 55 55	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-2 62-2 62-2 62-2 62-2 63-1 64-1		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55 10:55 10:55	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,095' 46° 26,071' 46° 26,714' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,504' 46° 28,504' 46° 28,536'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,824' 61° 39,824' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,117' 61° 40,119' 61° 40,121'	45 46 51 55 55 53 54 53 54 54 54 55 55 55 55	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-2 62-2 62-2 62-2 62-2 63-1 64-1 62-2		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55 10:55 10:55	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,714' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,504' 46° 28,536' 46° 28,536' 46° 31,159'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,812' 61° 39,812' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,115' 61° 40,119' 61° 40,121' 61° 40,106'	45 46 51 55 53 54 53 54 54 54 55 55 55 56 60	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile end (technical problems)
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-2 62-2 62-2 62-2 62-2 63-1 64-1 62-2 64-1		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55 10:55 10:55 11:48 12:00	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source Parasound P70	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,087' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,504' 46° 28,518' 46° 28,536' 46° 31,159' 46° 31,524'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,812' 61° 39,841' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,117' 61° 40,119' 61° 40,121' 61° 40,106' 61° 40,063'	45 46 51 55 53 54 53 54 54 55 55 55 56 60 56	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile start profile end (technical problems) profile end
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-2 62-2 62-2 62-2 62-2 63-1 64-1 62-2 64-1 63-1		07:40 07:40 07:55 08:19 08:19 10:00 10:07 10:25 10:30 10:38 10:55 10:55 10:55 11:48 12:00 12:00	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source Parasound P70 MBES (EM712)	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 26,071' 46° 26,087' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,596' 46° 28,536' 46° 31,159' 46° 31,524' 46° 31,530'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 39,708' 61° 39,711' 61° 39,824' 61° 39,841' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,117' 61° 40,119' 61° 40,121' 61° 40,063' 61° 40,063' 61° 40,062'	45 46 51 55 55 53 54 53 54 54 55 55 55 55 56 60 56	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile end (technical problems) profile end
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-2 62-2 62-2 62-2 63-1 64-1 62-2 64-1 63-1		07:40 07:40 07:55 08:19 08:19 10:00 10:07 10:25 10:30 10:38 10:55 10:55 10:55 11:48 12:00 12:00 12:01	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source Parasound P70 MBES (EM712) Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,095' 46° 26,071' 46° 26,714' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,596' 46° 28,518' 46° 28,536' 46° 31,559' 46° 31,530' 46° 31,530' 46° 31,548'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,812' 61° 39,812' 61° 39,841' 61° 39,824' 61° 39,820' 61° 40,115' 61° 40,115' 61° 40,119' 61° 40,121' 61° 40,106' 61° 40,062' 61° 40,062' 61° 40,062' 61° 40,062'	45 46 51 55 55 53 54 54 54 54 55 55 55 56 60 56 56	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile start profile end (technical problems) profile end Airgun on deck
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-1 62-2 62-2 62-2 62-2 63-1 64-1 62-2 64-1 63-1 62-2 62-1		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55 10:55 10:55 11:48 12:00 12:00 12:01	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Source	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,095' 46° 26,071' 46° 26,087' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,594' 46° 28,536' 46° 31,159' 46° 31,530' 46° 31,548' 46° 31,553'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,812' 61° 39,841' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,115' 61° 40,119' 61° 40,121' 61° 40,063' 61° 40,062' 61° 40,063' 61° 40,063' 61° 40,063'	45 46 51 55 53 54 53 54 54 55 55 55 56 60 56 56 57 56	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile start profile end (technical problems) profile end Airgun on deck profile end (technical problems)
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-2 62-2 62-2 62-2 62-2 63-1 64-1 62-2 64-1 63-1 62-2		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55 10:55 10:55 11:48 12:00 12:00 12:01 12:01 12:18	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Streamer	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,095' 46° 26,071' 46° 26,087' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,504' 46° 28,536' 46° 31,159' 46° 31,530' 46° 31,553' 46° 31,553' 46° 31,854'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,178' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,824' 61° 39,841' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,117' 61° 40,119' 61° 40,121' 61° 40,063' 61° 40,062' 61° 40,063' 61° 40,063' 61° 40,063' 61° 39,885'	45 46 51 55 53 54 53 54 54 55 55 55 56 60 56 56 57 56	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile start profile end (technical problems) profile end Airgun on deck profile end (technical problems) Streamer on deck
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-2 62-2 62-2 62-2 62-2 63-1 64-1 62-2 64-1 63-1 62-2 62-1 62-1		07:40 07:40 07:55 08:19 08:19 10:00 10:07 10:25 10:30 10:38 10:55 10:55 10:55 11:48 12:00 12:01 12:01 12:18 13:04	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Streamer Seismic Streamer	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,095' 46° 26,071' 46° 26,714' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,536' 46° 28,536' 46° 31,559' 46° 31,530' 46° 31,553' 46° 31,854' 46° 30,759'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,179' 61° 39,708' 61° 39,824' 61° 39,812' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,115' 61° 40,119' 61° 40,121' 61° 40,062' 61° 40,062' 61° 40,062' 61° 40,063' 61° 39,885' 61° 39,885' 61° 34,324'	45 46 51 55 55 53 54 54 54 55 55 55 56 60 56 57 56 57 62	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile end (technical problems) profile end Airgun on deck profile end (technical problems) Streamer on deck in the water
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-1 62-2 62-2 62-2 63-1 64-1 62-2 64-1 63-1 62-2 62-1 65-1		07:40 07:40 07:55 08:19 08:19 10:00 10:00 10:17 10:25 10:30 10:38 10:55 10:55 10:55 11:48 12:00 12:01 12:01 12:01 12:18 13:04 13:04	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Streamer Seismic Streamer CTD CTD	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,088' 46° 34,095' 46° 26,071' 46° 26,087' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,504' 46° 28,518' 46° 28,536' 46° 31,159' 46° 31,530' 46° 31,530' 46° 31,548' 46° 31,553' 46° 31,553' 46° 31,854' 46° 30,759' 46° 30,759'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,179' 61° 39,708' 61° 39,711' 61° 39,812' 61° 39,841' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,119' 61° 40,121' 61° 40,121' 61° 40,063' 61° 40,063' 61° 40,063' 61° 40,063' 61° 39,885' 61° 34,324' 61° 34,324' 61° 34,324'	45 46 51 55 53 54 53 54 54 55 55 55 56 60 56 56 57 62 62	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile start profile end (technical problems) profile end Airgun on deck profile end (technical problems) Streamer on deck in the water max depth/on ground
59-1 60-1 58-2 61-1 58-1 62-1 62-2 62-2 62-2 62-2 62-2 62-2 63-1 64-1 62-2 64-1 63-1 62-2 62-1 62-1		07:40 07:40 07:55 08:19 08:19 10:00 10:07 10:25 10:30 10:38 10:55 10:55 10:55 11:48 12:00 12:01 12:01 12:18 13:04	MBES (EM712) Parasound P70 Seismic Source PAM Seismic Streamer Seismic Streamer Seismic Streamer Seismic Source MBES (EM712) Parasound P70 Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Source Parasound P70 MBES (EM712) Seismic Source Seismic Streamer Seismic Streamer	46° 32,538' 46° 32,546' 46° 33,284' 46° 34,095' 46° 26,071' 46° 26,087' 46° 27,048' 46° 27,250' 46° 27,623' 46° 28,596' 46° 28,536' 46° 31,159' 46° 31,530' 46° 31,530' 46° 31,553' 46° 31,553' 46° 31,854' 46° 30,759' 46° 30,759' 46° 30,759'	61° 57,440' 61° 57,407' 61° 56,611' 61° 56,179' 61° 39,708' 61° 39,824' 61° 39,812' 61° 39,841' 61° 39,920' 61° 40,115' 61° 40,115' 61° 40,119' 61° 40,121' 61° 40,062' 61° 40,062' 61° 40,062' 61° 40,063' 61° 39,885' 61° 39,885' 61° 34,324'	45 46 51 55 55 53 54 54 54 55 55 55 56 60 56 57 56 57 62	entangled profile end profile end Airgun on deck on deck Streamer on deck Streamer in water Pre-watch – start length: 200m Airgun in water Pre-Watch – end start ramp up ramp up complete profile start profile start profile end (technical problems) profile end Airgun on deck profile end (technical problems) Streamer on deck in the water

66.4		42.22	NADEC (EN4742)	468 24 2071	C48 24 2051	F0	n no Ello attant
66-1		13:23	MBES (EM712)	46 31,307	61° 34,305'	59	profile start
66-1		17:05	MBES (EM712)	46° 35,198'	61° 25,580'	63	profile - interrupt (CTD station
							MSM103_68-1)
67-1		17:05	Parasound P70	46° 35,198'	61° 25,580'	63	profile - interrupt (CTD station
60.4		47.40	CTD	460 25 2071	640 25 5041	62	MSM103_68-1)
68-1		17:10	CTD		61° 25,591'	63	in the water
68-1		17:15	CTD		61° 25,593'	63	max depth/on ground
68-1		17:18	CTD		61° 25,591'	62	on deck
67-1		17:21	Parasound P70	-	61° 25,593'	62	profile - continue
66-1		17:21	MBES (EM712)	•	61° 25,593'	62	profile - continue
66-1		12:06	MBES (EM712)	•	61° 33,103'	66	profile end
67-1		12:06	Parasound P70	· ·	61° 33,103'	66	profile end
69-2		13:15	Seismic Source	· ·	61° 37,586'	57 	Pre-watch – start
69-1		13:15	Seismic Streamer	46° 28,308'	•	57 	Streamer in water
69-1		13:28	Seismic Streamer		61° 37,820'	57	length: 150m
69-2		13:45	Seismic Source	· ·	61° 38,204'	57	Pre-watch – end
69-2		13:48	Seismic Source	•	61° 38,282'	58	Airgun in water
69-2	09.10.	13:56	Seismic Source	46° 29,899'	•	57	start ramp up
70-1		13:56	Parasound P70	46° 29,907'	•	57	start ramp up
69-2		14:12	Seismic Source	•	61° 39,135'	58	ramp up complete
70-1		14:13	Parasound P70	· ·	61° 39,221'	58	ramp up complete
69-2		14:14	Seismic Source		61° 39,246'	59	profile start
71-1		14:14	MBES (EM712)		61° 39,260'	59	profile start
70-1		14:14	Parasound P70	•	61° 39,287'	60	profile start
72-1		21:59	PAM	46° 52,364'	61° 39,864'	58	length: 150m – deployed
	10.10.						Profiles continued
72-1		15:30	PAM	•	63° 20,437'	50	profile - interrupt
71-1		15:30	MBES (EM712)	· ·	63° 20,437'	50	profile - interrupt
70-1		15:30	Parasound P70	· · · · · · · · · · · · · · · · · · ·	63° 20,437'	50	profile - interrupt
69-2		15:30	Seismic Source		63° 20,437'	50	profile - interrupt
72-1		15:44	PAM		63° 21,767'	49	on deck
69-2		15:50	Seismic Source	46° 49,840'	-	52	Airgun on deck
69-1		16:04	Seismic Streamer	46° 49,519'	63° 22,746'	50	Streamer on deck
73-1		16:13	CTD		63° 22,746'	50	Deployed
73-1	11.10.	16:17	CTD	46° 49,460'	63° 22,746'	50	max depth/on ground
73-1	11.10.	16:24	CTD	46° 49,460'	63° 22,746'	50	on deck
74-1		18:49	CSEM	•	63° 15,774'	14	in the water
74-1		18:57	CSEM	•	63° 15,769'	14	on deck
74-1		18:59	CSEM	46° 28,249'	63° 15,772'	14	in the water
74-1		19:14	CSEM	46° 28,247'	-	14	video profile only – recording start
74-1		21:30	CSEM	46° 29,908'	•	25	recording end
74-1		21:34	CSEM	•	63° 14,964'	25	on deck
69-1		23:20	Seismic Streamer	•	63° 25,783'	45	Streamer in water
69-1		23:37	Seismic Streamer	•	63° 26,577'	44	length: 210m
69-2	12.10.	00:37	Seismic Source		63° 31,170'	42	Airgun in water
72-1		00:42	PAM		63° 31,539'	43	length: 150m – deployed
72-1		00:54	PAM	-	63° 32,355'	40	Pre-watch – start
72-1		01:24	PAM		63° 34,425'	40	Pre-watch – end
69-2		01:24	Seismic Source	46° 45,503'	•	40	start ramp up
69-2		01:39	Seismic Source	46° 46,330'	•	40	profile - continue
69-2		01:39	Seismic Source		63° 34,980'	40	ramp up complete
70-1		01:41	Parasound P70		63° 35,070'	39	profile - continue
71-1		01:42	MBES (EM712)	46° 46,489'	63° 35,103'	39	profile - continue

69-2		10:17	Seismic Source	47° 06,732'	63° 02,932'	60	detection leatherback turtle <1000m (visual)
69-2		10:31	Seismic Source	47° 07,020'	63° 01,245'	61	Last detection < 1000m, start pre- watch (visual)
69-2		11:01	Seismic Source	47° 07.616'	62° 57,715'	59	Pre-watch – end
69-2		11:01	Seismic Source	•	62° 57,713'	59	start ramp up
69-2		11:17	Seismic Source	47° 07,944'	-	59	ramp up complete
69-2		11:17	Seismic Source	•	62° 55,797'	59	profile - continue
03 2		11.17		47 07,545	02 33,737		detection minke whale <1000m
69-2		11:33	Seismic Source	47° 23,629'	62° 49,848'	51	(visual)
69-2		11:34	Seismic Source	47° 23,632'	62° 49,720'	51	Last detection < 1000m, start pre- watch (visual)
69-2		12:04	Seismic Source	47° 23,666'	62° 46,034'	59	Pre-watch – end
69-2		12:04	Seismic Source	47° 23,666'	62° 46,032'	59	start ramp up
69-2		12:20	Seismic Source	47° 23,686'	62° 44,070'	58	ramp up complete
69-2		12:20	Seismic Source	47° 23,686'	62° 44,068'	58	profile - continue
69-2		12:34	Seismic Source	47° 23,699'	62° 42,289'	62	detection dolphins <1000m (visual)
69-2		13:05	Seismic Source	47° 23,736'	62° 38,531'	67	Last detection < 1000m, start pre- watch (visual)
69-2		13:35	Seismic Source	47° 23,768'	62° 35,042'	93	Pre-watch – end
69-2		13:35	Seismic Source	47° 23,769'	62° 35,005'	94	start ramp up
69-2		13:50	Seismic Source	•	62° 33,299'	74	ramp up complete
69-2		13:50	Seismic Source	•	62° 33,281'	73	profile - continue
69-2		14:25	Seismic Source		62° 29,506'	68	detection dolphins <1000m (visual)
03 2		14.23	Scisinic Source	47 23,013	02 23,300	00	Last detection < 1000m, start pre-
69-2		14:25	Seismic Source	47° 23,819'	62° 29,453'	68	watch (visual)
69-2		14:55	Seismic Source	47° 23 850'	62° 26,187'	64	Pre-watch – end
69-2	13.10.	14:55	Seismic Source		62° 26,168'	64	start ramp up
69-2		15:10	Seismic Source	47° 23,866'	•	60	ramp up complete
69-2		15:11	Seismic Source	47° 23,867'	62° 24,420'	60	profile - continue
70-1		16:20	Parasound P70	· ·	62° 20,169'	58	Interrupt profile, technical problems
69-2		16:23	Seismic Source	•	62° 20,093'	59	detection dolphins <1000m (visual)
03-2		10.23	Seisiffic Source	47 27,723	02 20,093	39	Last detection < 1000m, start pre-
69-2		16:24	Seismic Source		62° 20,085'	59	watch (visual)
70-1		16:34	Parasound P70	•	62° 19,757'	60	profile - continue
69-2		16:54	Seismic Source	•	62° 19,177'	62	Pre-watch – end
69-2		16:55	Seismic Source		62° 19,148'	63	start ramp up
69-2		17:10	Seismic Source	47° 31,039'	62° 18,713'	63	ramp up complete
69-2		17:10	Seismic Source	47° 31,067'	62° 18,700'	62	profile - continue
69-2		17:41	Seismic Source	47° 32,856'	62° 19,650'	64	detection dolphins <1000m (visual)
69-2		17:52	Seismic Source	47° 32,888'	62° 21,002'	65	Last detection < 1000m, start pre- watch (visual)
69-2		18:22	Seismic Source	47° 32,956'	62° 24,712'	65	Pre-watch – end
69-2		18:22	Seismic Source	47° 32,957'	62° 24,778'	65	start ramp up
69-2		18:38	Seismic Source	47° 32,999'	62° 26,767'	70	ramp up complete
69-2		18:38	Seismic Source	47° 32,999'		69	profile - continue
69-2		16:17	Seismic Source	46° 43,808'	62° 04,486'	72	detection finback <1000m (visual)
69-2		16:29	Seismic Source	46° 43,507'	62° 03,039'	77	Last detection < 1000m, start pre- watch (visual)
69-2	14.10.	16:59	Seismic Source	46° 42 759'	61° 59,413'	67	Pre-watch – end
69-2	14.10.	16:59	Seismic Source	46° 42,739'	•	67	start ramp up
69-2		17:14	Seismic Source	46° 42,739	•	64	ramp up complete
69-2 69-2		17:14	Seismic Source	•	61° 57,571'	64	profile - continue
	15 10			•	61° 24,954'		-
72-1	15.10.	02:32	PAM	40 20,035	01 24,954	74	detection dolphins <1000m (PAM)

69-2		02:32	Seismic Source	46° 26,635'	61° 24,954'	74	Interrupt profile, PAM detection dolphins <1000m
							Last detection < 1000m, start pre-
72-1		02:41	PAM	46° 26,658'	61° 25,816'	70	watch (PAM)
69-2		02:41	Seismic Source	46° 26.658'	61° 25,816'	70	Last detection < 1000m, start pre-
				•	•		watch (visual)
69-2		03:11	Seismic Source		61° 28,718'	66	Pre-watch – end
69-2		03:11	Seismic Source	•	61° 28,746'	66	start ramp up
72-1		03:11	PAM	46° 26,759'	•	66	Pre-watch – end
69-2		03:28	Seismic Source	46° 26,820'	•	62	ramp up complete
69-2		03:28	Seismic Source	·	61° 30,369'	62	profile - continue
69-2		07:00	Seismic Source		61° 26,546'	65	detection dolphins <1000m (visual)
72-1		07:00	PAM	46° 35,466'	61° 26,516'	65	detection dolphins <1000m (PAM)
72-1		07:00	PAM	46° 35,474'	61° 26,511'	64	Last detection < 1000m, start pre- watch (PAM)
72-1		07:31	PAM	46° 37,809'	61° 25,133'	66	Pre-watch – end
69-2		07:31	Seismic Source	46° 37,826'	61° 25,122'	67	start ramp up
69-2		07:46	Seismic Source	46° 39,000'	61° 24,431'	68	ramp up complete
69-2		07:47	Seismic Source	46° 39,033'	61° 24,413'	68	profile - continue
69-2		08:59	Seismic Source	46° 44,598'	61° 21,119'	71	profile end
70-1		08:59	Parasound P70	46° 44,610'	61° 21,112'	71	profile end
71-1		08:59	MBES (EM712)	46° 44,639'	61° 21,098'	71	profile end
72-1		09:05	PAM	46° 45,101'	61° 21,174'	71	on deck
69-2		09:13	Seismic Source	46° 45,471'	61° 21,450'	57	Airgun on deck
69-1		09:28	Seismic Streamer	46° 45,796'	61° 21,764'	69	Streamer on deck
75-1		09:32	CTD	46° 45,796'	61° 21,763'	69	in the water
75-1		09:36	CTD	46° 45,796'	61° 21,763'	70	max depth/on ground
75-1	16.10	09:40	CTD	46° 45,796'	61° 21,763'	70	on deck
76-1	16.10.	12:58	OBEM	46° 33,447'	62° 19,185'	48	OBEM 22 – deployed
76-2		13:22	OBEM	46° 33,464'	62° 19,503'	48	OBEM 23 – deployed
76-3		13:39	OBEM	46° 33,478'	62° 19,813'	49	OBEM 24 – deployed
76-4		13:55	OBEM	46° 33,492'	62° 20,125'	49	OBEM 25 – deployed
76-5		14:09	OBEM	46° 33,770'	62° 20,094'	48	OBEM 26 – deployed
76-6		14:22	OBEM	46° 33,756'	62° 19,786'	49	OBEM 27 – deployed
76-7		14:43	OBEM	46° 33,743'	62° 19,474'	49	OBEM 28 – deployed
76-8		15:15	OBEM	46° 33,724'	62° 19,172'	49	OBEM 29 – deployed
76-9		15:31	OBEM	46° 33,993'	62° 19,151'	49	OBEM 30 – deployed
76-10		15:50	OBEM	46° 34,006'	62° 19,450'	49	OBEM 31 – deployed
76-11		16:05	OBEM	46° 34,014'	62° 19,762'	49	OBEM 32 – deployed
76-12		16:21	OBEM	46° 34,028'	62° 20,075'	49	OBEM 33 – deployed
77-1		16:29	CTD	46° 34,010'	62° 20,148'	49	in the water
77-1		16:33	CTD	46° 34,010'	62° 20,148'	50	max depth/on ground
77-1		16:36	CTD	46° 34,010'	62° 20,148'	50	on deck
79-1		16:42	Parasound P70	46° 33,981'	62° 20,411'	49	profile start
78-1		16:42	MBES (EM712)	46° 33,981'	62° 20,411'	49	profile start
78-1	17.10	00:48	MBES (EM712)	46° 35,292'	62° 17,777'	50	profile end
79-1	17.10.	00:48	Parasound P70	46° 35,292'	62° 17,777'	50	profile end
80-1	20.10.	05:00	MBES (EM712)	46° 45,556'	61° 32,276'	74	profile start
81-1		05:08	Parasound P70	46° 45,474'	61° 33,455'	75	profile start
81-1		10:07	Parasound P70	46° 44,589'	61° 32,548'	79	profile end
80-1		10:07	MBES (EM712)	46° 44,595'	61° 32,501'	78	profile end
82-1		10:22	CTD	46° 44,903'	61° 33,042'	79	in the water
82-1		10:26	CTD	46° 44,907'	61° 33,051'	79	max depth/on ground
82-1		10:30	CTD	46° 44,913'	61° 33,061'	79	on deck

83-1		10:34	GC	46° 44 014'	61° 33,061'	79	core barrel length = 3m – deployed
83-1		10:34	GC	46° 44,914'	•	81	max depth/on ground
83-1		10.56	GC	•	61° 33,060'	81	on deck
			GC		61° 37,147'		core barrel length = 3m – deployed
84-1		11:17		•	-	77 77	• • • • • • • • • • • • • • • • • • • •
84-1		11:19	GC	•	61° 37,147'	77 77	max depth/on ground
84-1		11:26	GC	46° 45,195'		77	on deck
85-1		14:25	CSEM	46° 33,298'		47	USBL – hydrophone in water
85-1		14:25	CSEM	46° 33,298'	-	47	in the water
85-1		15:05	CSEM	•	62° 18,843'	47	recording start
85-1		16:43	CSEM	46° 33,354'	-	51	Interrupt profile, technical problems
85-1		16:55	CSEM	46° 33,356'	•	51	measurements - continue
85-1		22:19	CSEM	46° 33,640'	-	49	recording end
85-1		22:19	CSEM		62° 20,515'	50	profile end (technical problems)
85-1		22:28	CSEM		62° 20,516'	50	on deck
85-1		22:49	CSEM	46° 33,776'	62° 20,501'	50	in the water
85-1		22:54	CSEM	46° 33,769'	62° 20,471'	50	recording start
85-1		23:16	CSEM	46° 33,755'	62° 20,211'	50	recording end
85-1		23:22	CSEM	46° 33,753'	62° 20,169'	50	on deck
85-1		23:50	CSEM	46° 33,757'	62° 20,287'	50	in the water
85-1		23:51	CSEM	46° 33,757'	62° 20,277'	50	recording start
85-1		16:05	CSEM	46° 33,125'	62° 19,374'	47	recording end
85-1		16:06	CSEM	46° 33,125'	62° 19,374'	47	USBL – on deck
85-1		16:10	CSEM	46° 33,125'	62° 19,374'	47	on deck
76-1		16:25	OBEM	46° 33,314'	62° 19,259'	49	hydrophone in water
76-1		16:42	OBEM		62° 19,185'	49	released
76-1		17:05	OBEM		62° 19,197'	49	OBEM on deck (with anchor)
76-2		17:19	OBEM	•	62° 19,469'	50	released
76-2		17:35	OBEM	46° 33,462'	•	50	OBEM on deck (with anchor)
76-3		17:47	OBEM	46° 33,443'	· ·	50	released
76-3		18:04	OBEM	•	62° 19,816'	51	OBEM on deck (with anchor)
76-4		18:13	OBEM	•	62° 20,072'	52	released
76-4		18:27	OBEM	46° 33,490'	•	50	OBEM on deck (with anchor)
76-5		18:42	OBEM		62° 20,080'	50	released
76-5		19:00	OBEM	· ·	62° 20,117'	50	OBEM on deck (with anchor)
76-5 76-6		19:13	OBEM		62° 19,756'	49	released
76-6	21.10.	19:13	OBEM		62° 19,813'		OBEM on deck (with anchor)
				•	•	50	released
76-7		19:40	OBEM		62° 19,447'	51	
76-7		19:55	OBEM		62° 19,498'	50	OBEM on deck (with anchor)
76-8		20:06	OBEM	•	62° 19,139'	50	released
76-8		20:17	OBEM		62° 19,168'	50	OBEM on deck (with anchor)
76-9		20:29	OBEM	•	62° 19,113'	51	released
76-9		20:45	OBEM	•	62° 19,110'	50	OBEM on deck (with anchor)
76-10		21:02	OBEM	•	62° 19,418'	51	released
76-10		21:09	OBEM	· ·	62° 19,525'	50	Anchor hook does not open
76-11		21:15	OBEM		62° 19,731'	51	released
76-11		21:27	OBEM	-	62° 19,747'	51	OBEM on deck (with anchor)
76-12		21:36	OBEM	46° 34,004'	62° 20,033'	51	released
76-12		21:49	OBEM	· ·	62° 20,046'	51	OBEM on deck (with anchor)
76-10		22:45	OBEM	46° 34,001'	62° 19,464'	51	released
76-10		23:50	OBEM	46° 34,007'	62° 19,440'	51	OBEM on hook
76-10	22.10.	00:06	OBEM	46° 34,007'	62° 19,440'	51	OBEM on deck (with anchor)
86-1		02:26	CTD	46° 35,316'	61° 41,766′	64	in the water
86-1		02:32	CTD	46° 35,316'	61° 41,765'	64	max depth/on ground
86-1		02:36	CTD	46° 35,316'	61° 41,766'	64	on deck

87-1		02:49	MBES (EM712)	46° 35,363'	61° 40,259'	64	profile start
88-1		02:49	Parasound P70	46° 35,364'	61° 40,232'	64	profile start
88-1		19:14	Parasound P70	46° 38,669'	61° 38,282'	64	profile end
87-1		19:14	MBES (EM712)	46° 38,669'	61° 38,309'	64	profile end
89-1		19:22	CTD	46° 38,651'	61° 38,459'	66	in the water
89-1		19:27	CTD	46° 38,651'	61° 38,460'	66	max depth/on ground
89-1		19:29	CTD	46° 38,651'	61° 38,459'	66	At surface, another cast
89-1		19:33	CTD	46° 38,651'	61° 38,459'	66	max depth/on ground
89-1		19:38	CTD	46° 38,651'	61° 38,459'	66	on deck
90-1		20:16	OBEM	46° 36,400'	61° 39,029'	65	OBEM34 – deployed
90-2		20:38	OBEM	46° 36,338'	61° 38,691'	65	OBEM35 – deployed
90-3		20:56	OBEM	46° 36,281'	61° 38,347'	65	OBEM36 – deployed
90-4		21:14	OBEM	46° 36,221'	61° 38,005'	65	OBEM37 – deployed
90-5		21:35	OBEM	46° 36,161'	61° 37,663'	65	OBEM38 – deployed
90-6		21:56	OBEM	46° 36,102'	61° 37,322'	65	OBEM39 – deployed
90-7		22:10	OBEM	46° 36,043'	61° 36,985'	65	OBEM40 – deployed
90-8		22:28	OBEM	46° 35,984'	61° 36,642'	65	OBEM41 – deployed
90-9		22:42	OBEM	46° 35,924'	61° 36,298'	64	OBEM43 – deployed
90-10		22:56	OBEM	46° 35,863'	61° 35,953'	64	OBEM43 – deployed
90-11		23:11	OBEM	46° 35,806'	61° 35,611'	64	OBEM44 – deployed
90-12		23:28	OBEM	46° 35,746'	61° 35,271'	64	OBEM45 – deployed
91-1		00:06	CSEM	46° 35,349'	61° 34,679'	64	USBL – hydrophone in water
91-1		00:18	CSEM	46° 35,363'	61° 34,716'	64	CAGEM – deployed
91-1		00:32	CSEM	46° 35,362'	61° 34,716'	64	recording start
91-1		01:13	CSEM	46° 35,456'	61° 35,246'	64	Interrupt profile, technical problems
91-1		01:20	CSEM	46° 35,455'	61° 35,244'	64	on deck
91-1		01:39	CSEM	46° 35,455'	61° 35,244'	64	CAGEM – deployed
91-1		01:48	CSEM	46° 35,456'	61° 35,251'	64	Interrupt profile, technical problems
91-1		01:50	CSEM	46° 35,458'	61° 35,262'	64	Interrupt profile, technical problems
91-1		01:55	CSEM	46° 35,458'	61° 35,262'	64	on deck
91-1		03:16	CSEM	46° 35,457'	61° 35,261'	64	in the water
91-1		03:25	CSEM	46° 35,459'	61° 35,273'	64	measurements - continue
91-1		06:20	CSEM	46° 35,888'	61° 37,726'	64	Interrupt profile, technical problems
91-1		06:35	CSEM	46° 35,887'	61° 37,726'	64	on deck
91-1		06:47	CSEM	46° 35,888'	61° 37,726'	64	in the water
91-1		06:56	CSEM	46° 35,890'	61° 37,739'	64	measurements - continue
91-1	22.10	12:13	CSEM	46° 36,156'	61° 37,483'	65	Interrupt profile, technical problems
91-1	23.10.	12:19	CSEM	46° 36,155'	61° 37,476'	65	on deck
91-1		12:24	CSEM	46° 36,155'	61° 37,476'	65	in the water
91-1		12:28	CSEM	46° 36,155'	61° 37,475'	65	measurements - continue
91-1		21:51	CSEM	46° 36,801'	61° 39,605'	66	recording end
91-1		21:57	CSEM	46° 36,796'	61° 39,593'	66	on deck
90-1		22:14	OBEM	46° 36,353'	61° 39,016'	65	hydrophone in water
90-1		22:23	OBEM	46° 36,397'	61° 39,014'	65	released
90-1		22:32	OBEM	46° 36,402'	61° 39,039'	65	OBEM on deck (with anchor)
90-2		22:40	OBEM	46° 36,313'	61° 38,696'	65	released (hydrophone still in water after stn. 90-1)
90-2		22:56	OBEM	46° 36,337'	61° 38,701'	65	OBEM on deck (with anchor)
90-3		23:05	OBEM		61° 38,339'	65	released
90-3		23:15	OBEM	•	61° 38,370'	65	OBEM on deck (with anchor)
90-4		23:25	OBEM		61° 38,003'	65	released
90-4		23:36	OBEM	•	61° 38,026'	65	OBEM on deck (with anchor)
90-5		23:48	OBEM	•	61° 37,672'	65	released
90-5	24.10.		OBEM		61° 37,669'	65	OBEM on deck (with anchor)
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90-7 00:27 OBEM 46° 36,019' 61° 36,972' 65 released 90-7 00:39 OBEM 46° 35,036' 61° 36,986' 65 OBEM on deck (with anch 90-8 00:50 OBEM 46° 35,961' 61° 36,645' 65 released 90-8 01:00 OBEM 46° 35,992' 61° 36,645' 65 OBEM on deck (with anch 90-9 01:13 OBEM 46° 35,920' 61° 36,294' 65 OBEM on deck (with anch 90-9 01:30 OBEM 46° 35,920' 61° 36,294' 65 OBEM on deck (with anch 90-10 01:39 OBEM 46° 35,832' 61° 35,948' 65 released 90-10 01:50 OBEM 46° 35,832' 61° 35,948' 65 released 90-11 01:50 OBEM 46° 35,784' 61° 35,604' 64 released 90-11 02:10 OBEM 46° 35,784' 61° 35,664' 64 released 90-12 02:17 OBEM 46° 35,745' 61° 35,266' 64 released 90-12 02:22 OBEM 46° 35,745' 61° 35,266' 64 released 90-12 02:27 OBEM 46° 35,745' 61° 35,283' 64 OBEM on deck (with anch 92-1 03:20 CTD 46° 42,479' 61° 43,722' 71 in the water 92-1 03:26 CTD 46° 42,479' 61° 43,722' 71 in the water 93-1 03:40 MBES (EM712) 46° 43,044' 61° 44,793' 73 profile start 93-1 03:40 Parasound P70 46° 43,164' 61° 44,793' 73 profile start 94-1 10:46 Parasound P70 46° 43,164' 61° 44,793' 73 profile end 95-1 10:59 CTD 46° 43,119' 61° 44,208' 74 in the water 95-1 10:59 CTD 46° 43,110' 61° 44,208' 74 max depth/on ground 95-1 11:02 CTD 46° 43,110' 61° 44,208' 74 max depth/on ground 96-1 12:07 GC 46° 37,422' 61° 34,500' 67 core barrel length = 3m - 96-2 12:21 GC 46° 37,422' 61° 34,500' 67 core barrel length = 3m - 96-2 12:21 GC 46° 37,428' 61° 34,500' 67 core barrel length = 3m - 96-2 12:21 GC 46° 37,428' 61° 34,500' 67 core barrel length = 3m - 97-1 13:06 GC 46° 37,428' 61° 34,500' 67 max depth/on ground 97-1 13:08 GC 46° 37,428' 61° 34,500' 67 core barrel length = 3m - 97-1 13:06 GC 46° 38,393' 61° 30,860' 69 max depth/on ground 97-1 13:07 GC 46° 38,393' 61° 30,860' 69 max depth/on ground 97-1 13:08 GC 46° 38,393' 61° 30,860' 69 core barrel length = 3m - 97-2 13:21 GC 46° 38,393' 61° 30,860' 69 core barrel length = 3m - 97-2 13:21 GC 46° 38,393' 61° 30,860' 69 core barrel length = 3m - 97-2 13:21 GC 46° 38,666' 61° 28,944' 69 on deck 98-1 13:58 GC 46° 38,666' 61° 28,944								
90-7	90-6		80:00	OBEM	46° 36,075'	61° 37,316'	65	released
90-8	90-6		00:19	OBEM	46° 36,094'	61° 37,336'	65	OBEM on deck (with anchor)
90-8	90-7		00:27	OBEM	46° 36,019'	61° 36,972'	65	released
90-9 01:13 OBEM 46° 35,929° 61° 36,249° 65 OBEM on deck (with anch 90-9 01:13 OBEM 46° 35,832° 61° 36,294° 65 OBEM on deck (with anch 90-10 01:39 OBEM 46° 35,832° 61° 35,944° 65 OBEM on deck (with anch 90-10 01:50 OBEM 46° 35,832° 61° 35,954° 65 OBEM on deck (with anch 90-11 02:10 OBEM 46° 35,783° 61° 35,644° 64 released 90-12 O2:17 OBEM 46° 35,739° 61° 35,646° 64 released 90-12 O2:17 OBEM 46° 35,739° 61° 35,266° 64 released 90-12 O2:27 OBEM 46° 35,745° 61° 35,272° 64 hydrophone on deck (with anch 90-12 O2:27 OBEM 46° 35,745° 61° 35,272° 10 hydrophone on deck (with anch 90-12 O2:27 OBEM 46° 35,745° 61° 35,272° 11 https://doi.org/10.1006/1	90-7		00:39	OBEM	46° 36,036'	61° 36,986'	65	OBEM on deck (with anchor)
90-9	90-8		00:50	OBEM	46° 35,961'	61° 36,632'	65	released
90-9	90-8		01:00	OBEM	46° 35,979'	61° 36,645'	65	OBEM on deck (with anchor)
90-9 01:30 OBEM 46° 35,928° 61° 36,294° 65 65 OBEM on deck (with anch 90-10 01:39 OBEM 46° 35,838° 61° 35,948° 65 65 New Years 65 released 90-11 01:59 OBEM 46° 35,783° 61° 35,648° 61 64 released 90-11 02:10 OBEM 46° 35,783° 61° 35,648° 61 64 released 90-12 02:17 OBEM 46° 35,785° 61° 35,628° 61 64 released 90-12 02:27 OBEM 46° 35,749° 61° 35,272′ 51° 35,283° 64 64 hydrophone on deck 90-12 02:27 OBEM 46° 35,749° 61° 43,722′ 71 71 the water 90-12 03:26 CTD 46° 42,479° 61° 43,722′ 71 71 the water 92-1 03:30 CTD 46° 42,479° 61° 43,722′ 71 71 the water 92-1 03:30 CTD 46° 43,148° 61° 44,793′ 73 73 profile start 93-1 10:46 MBES (EM712) 46° 43,148° 61° 44,293′ 74 74 the water 95-1	90-9		01:13	OBEM			64	
90-10 01:39 OBEM 46° 35,838′ 61° 35,948′ 65′ released 90-10 01:50 OBEM 46° 35,838′ 61° 35,948′ 65′ OBEM on deck (with anch 90-11 01:59 OBEM 46° 35,739′ 61° 35,604′ 64′ released 90-11 02:10 OBEM 46° 35,739′ 61° 35,618′ 64′ OBEM on deck (with anch 90-12 02:17 OBEM 46° 35,745′ 61° 35,266′ 64′ released 90-12 02:22 OBEM 46° 35,745′ 61° 35,272′ 64′ Mydrophone on deck 90-12 02:27 OBEM 46° 35,745′ 61° 35,283′ 64′ OBEM on deck (with anch 90-12 02:27 OBEM 46° 35,745′ 61° 35,283′ 64′ OBEM on deck (with anch 90-12 03:20 CTD 46° 42,479′ 61° 43,722′ 71′ in the water 92-1 03:20 CTD 46° 42,479′ 61° 43,722′ 71′ in the water 93-1 03:40 MBES (EM712) 46° 43,044′ 61° 44,793′ 73 profile start 94-1 03:40 Parasound P70 46° 43,144′ 61° 44,793′ 73 profile start 94-1 10:46 Parasound P70 46° 43,164′ 61° 44,193′ 73 profile end 94-1 10:46 Parasound P70 46° 43,116′ 61° 44,203′ 74′ max depth/on ground 95-1 10:53 CTD 46° 43,116′ 61° 44,203′ 74′ max depth/on ground 95-1 10:59 CTD 46° 43,116′ 61° 44,203′ 74′ max depth/on ground 95-1 10:59 CTD 46° 43,116′ 61° 44,203′ 74′ max depth/on ground 96-1 12:10 GC 46° 37,422′ 61° 34,500′ 67′ max depth/on ground 96-1 12:10 GC 46° 37,422′ 61° 34,500′ 67′ max depth/on ground 96-1 12:10 GC 46° 37,422′ 61° 34,500′ 67′ max depth/on ground 96-2 12:23 GC 46° 37,422′ 61° 34,500′ 67′ max depth/on ground 96-1 12:16 GC 46° 37,422′ 61° 34,500′ 67′ max depth/on ground 97-1 13:08 GC 46° 37,428′ 61° 34,500′ 67′ max depth/on ground 97-1 13:08 GC 46° 33,393′ 61° 30,860′ 69′ max depth/on ground 97-1 13:08 GC 46° 38,393′ 61° 30,860′ 69′ max depth/on ground 97-1 13:08 GC 46° 38,393′ 61° 30,860′ 69′ max depth/on ground 97-1 13:08 GC 46° 38,393′ 61° 30,860′ 69′ max depth/on ground 97-1 13:08 GC 46° 38,393′ 61° 30,860′ 69′ max depth/on ground 97-1 13:08 GC 46° 38,393′ 61° 30,860′ 69′ max depth/on ground 97-1 13:08 GC 46° 36,187′ 61° 34,500′ 67′ core barrel length = 3m – 3m and 97-1 13:08 GC 46° 36,187′ 61° 34,500′ 67′ core barrel length = 3m – 3m and 97-1 13:08 GC 46° 36,187′ 61° 38,433′ 65′ core barrel length = 3m – 3m and 97-1						-		
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96-1 12:10 GC 46° 37,423′ 61° 34,500′ 67 max depth/on ground 96-1 12:16 GC 46° 37,422′ 61° 34,500′ 67 on deck 96-2 12:21 GC 46° 37,428′ 61° 34,500′ 67 core barrel length = 3m – 96-2 12:23 GC 46° 37,428′ 61° 34,500′ 67 max depth/on ground 96-2 12:30 GC 46° 37,428′ 61° 34,500′ 67 max depth/on ground 96-2 12:30 GC 46° 37,428′ 61° 34,500′ 67 max depth/on ground 97-1 13:06 GC 46° 38,393′ 61° 30,861′ 69 core barrel length = 3m – 97-1 13:08 GC 46° 38,393′ 61° 30,860′ 69 max depth/on ground 97-1 13:14 GC 46° 38,393′ 61° 30,860′ 69 max depth/on ground 97-2 13:20 GC 46° 38,391′ 61° 30,849′ 69 core barrel length = 3m – 97-2 13:21 GC 46° 38,391′ 61° 30,849′ 69 core barrel length = 3m – 97-2 13:28 GC 46° 38,390′ 61° 30,849′ 69 core barrel length = 3m – 98-1 13:57 GC 46° 38,666′ 61° 28,945′ 69 core barrel length = 3m – 98-1 13:58 GC 46° 36,666′ 61° 28,945′ 69 core barrel length = 3m – 99-1 14:41 GC 46° 36,187′ 61° 28,331′ 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187′ 61° 28,331′ 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187′ 61° 28,330′ 65 max depth/on ground 99-2 14:51 GC 46° 36,189′ 61° 28,330′ 65 max depth/on ground 99-2 14:51 GC 46° 36,191′ 61° 28,330′ 65 max depth/on ground 99-2 14:59 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:51 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191′ 61° 58,443′ 42 max depth/on ground 100-1 17:31 CTD 46° 19,356′ 61° 58,444′ 42 in the water 100-1 17:34 CTD 46° 19,356′ 61° 58,443′ 42 max depth/on ground 100-1 17:34 MBES (EM712) 46° 18,764′ 61° 59,581′ 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764′ 61° 59,581′ 44 profile start 101-1 10:37 MBES (EM712) 46° 18,764′ 61° 59,581′ 44 profile end	95-1		11:02	CTD	46° 43,108'	61° 44,186'	74	on deck
96-1 12:16	96-1		12:07	GC	46° 37,422'	61° 34,500'	66	core barrel length = 3m – deployed
96-2 12:21 GC 46° 37,428′ 61° 34,500′ 67 core barrel length = 3m – 96-2 12:30 GC 46° 37,428′ 61° 34,500′ 67 max depth/on ground 96-2 12:30 GC 46° 37,426′ 61° 34,503′ 66 on deck 97-1 13:06 GC 46° 38,393′ 61° 30,861′ 69 core barrel length = 3m – 97-1 13:08 GC 46° 38,393′ 61° 30,860′ 69 max depth/on ground 97-1 13:14 GC 46° 38,393′ 61° 30,850′ 69 on deck 97-2 13:20 GC 46° 38,393′ 61° 30,850′ 69 max depth/on ground 97-2 13:21 GC 46° 38,393′ 61° 30,850′ 69 max depth/on ground 97-2 13:28 GC 46° 38,399′ 61° 30,850′ 69 max depth/on ground 97-2 13:28 GC 46° 38,390′ 61° 30,849′ 69 on deck 98-1 13:57 GC 46° 38,666′ 61° 28,945′ 69 core barrel length = 3m – 98-1 13:58 GC 46° 38,666′ 61° 28,944′ 69 max depth/on ground 98-1 14:40 GC 46° 38,666′ 61° 28,944′ 69 max depth/on ground 99-1 14:41 GC 46° 36,187′ 61° 28,331′ 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:51 GC 46° 36,189′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 28,331′ 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191′ 61° 58,444′ 42 in the water 100-1 17:31 CTD 46° 19,356′ 61° 58,444′ 42 in the water 100-1 17:34 CTD 46° 19,356′ 61° 58,443′ 42 on deck 100-1 17:48 Parasound P70 46° 18,764′ 61° 59,581′ 44′ profile start 101-1 17:48 MBES (EM712) 46° 18,764′ 61° 59,581′ 44′ profile end 101-1 10:37 MBES (EM712) 46° 16,172′ 61° 58,129′ 44′ profile end	96-1		12:10	GC	46° 37,423'	61° 34,500'	67	max depth/on ground
96-2 12:30 GC 46° 37,428' 61° 34,500' 67 max depth/on ground 96-2 12:30 GC 46° 37,426' 61° 34,503' 66 on deck 97-1 13:06 GC 46° 38,393' 61° 30,861' 69 core barrel length = 3m – 97-1 13:08 GC 46° 38,393' 61° 30,860' 69 max depth/on ground 97-1 13:14 GC 46° 38,391' 61° 30,850' 69 on deck 97-2 13:20 GC 46° 38,391' 61° 30,850' 69 core barrel length = 3m – 97-2 13:21 GC 46° 38,390' 61° 30,850' 69 max depth/on ground 97-2 13:28 GC 46° 38,390' 61° 30,849' 69 core barrel length = 3m – 98-1 13:57 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:04 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:40 GC 46° 38,668' 61° 28,944' 69 max depth/on ground 99-1 14:41 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,189' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 max depth/on ground 99-2 14:53 GC 46° 36,191' 61° 28,330' 65 max depth/on ground 99-2 14:53 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 90-2 14:59 GC 46° 36,191' 61° 28,337' 65 core barrel length	96-1		12:16	GC	46° 37,422'	61° 34,500'	67	on deck
96-2 12:30 GC 46° 37,426′ 61° 34,503′ 66′ on deck 97-1 13:06′ GC 46° 38,393′ 61° 30,861′ 69′ core barrel length = 3m – 97-1 13:08′ GC 46° 38,393′ 61° 30,860′ 69′ max depth/on ground 97-1 13:14′ GC 46° 38,393′ 61° 30,857′ 69′ on deck 97-2 13:20′ GC 46° 38,391′ 61° 30,850′ 69′ max depth/on ground 97-2 13:21′ GC 46° 38,389′ 61° 30,850′ 69′ max depth/on ground 97-2 13:28′ GC 46° 38,389′ 61° 30,850′ 69′ max depth/on ground 97-2 13:28′ GC 46° 38,366′ 61° 28,945′ 69′ core barrel length = 3m – 98-1 13:57′ GC 46° 38,666′ 61° 28,945′ 69′ core barrel length = 3m – 98-1 13:58′ GC 46° 38,666′ 61° 28,944′ 69′ max depth/on ground 98-1 14:04′ GC 46° 36,187′ 61° 28,331′ 65′ core barrel length = 3m – 99-1 14:41′ GC 46° 36,187′ 61° 28,330′ 65′ max depth/on ground 99-1 14:47′ GC 46° 36,189′ 61° 28,330′ 65′ core barrel length = 3m – 99-2 14:51′ GC 46° 36,191′ 61° 28,330′ 65′ core barrel length = 3m – 99-2 14:59′ GC 46° 36,191′ 61° 28,337′ 65′ core barrel length = 3m – 99-2 14:59′ GC 46° 36,191′ 61° 28,337′ 65′ core barrel length = 3m – 99-2 14:59′ GC 46° 36,191′ 61° 28,337′ 65′ core barrel length = 3m – 99-2 14:59′ GC 46° 36,191′ 61° 28,337′ 65′ core barrel length = 3m – 99-2 14:59′ GC 46° 36,191′ 61° 28,337′ 65′ core barrel length = 3m – 99-2 14:59′ GC 46° 36,191′ 61° 28,337′ 65′ core barrel length = 3m – 99-2 14:59′ GC 46° 36,191′ 61° 28,337′ 65′ core barrel length = 3m – 99-2 14:59′ GC 46° 36,191′ 61° 58,334′ 42′ max depth/on ground 100-1 17:31′ CTD 46° 19,356′ 61° 58,444′ 42′ in the water 100-1 17:34′ CTD 46° 19,356′ 61° 58,444′ 42′ in the water 100-1 17:34′ CTD 46° 19,356′ 61° 58,443′ 42′ on deck 102-1 17:48′ Parasound P70′ 46° 18,764′ 61° 59,581′ 44′ profile start 101-1 17:48′ MBES (EM712) 46° 18,764′ 61° 59,581′ 44′ profile start 101-1 10:37′ MBES (EM712) 46° 16,172′ 61° 58,129′ 44′ profile end	96-2		12:21	GC	46° 37,428'	61° 34,500'	67	core barrel length = 3m – deployed
97-1 13:06 GC 46° 38,393' 61° 30,861' 69 core barrel length = 3m - 97-1 13:08 GC 46° 38,393' 61° 30,860' 69 max depth/on ground 97-1 13:14 GC 46° 38,393' 61° 30,857' 69 on deck 97-2 13:20 GC 46° 38,391' 61° 30,849' 69 core barrel length = 3m - 97-2 13:21 GC 46° 38,389' 61° 30,850' 69 max depth/on ground 97-2 13:28 GC 46° 38,390' 61° 30,849' 69 on deck 98-1 13:57 GC 46° 38,666' 61° 28,945' 69 core barrel length = 3m - 98-1 13:58 GC 46° 38,666' 61° 28,945' 69 max depth/on ground 98-1 14:04 GC 46° 38,666' 61° 28,942' 69 on deck 99-1 14:40 GC 46° 36,6187' 61° 28,931' 65 core barrel length = 3m - 99-1 14:41 GC 46° 36,187' 61° 28,931' 65 core barrel length = 3m - 99-1 14:47 GC 46° 36,189' 61° 28,930' 65	96-2		12:23	GC	46° 37,428'	61° 34,500'	67	max depth/on ground
97-1 13:08 GC 46° 38,393' 61° 30,860' 69 max depth/on ground 97-1 13:14 GC 46° 38,393' 61° 30,857' 69 on deck 97-2 13:20 GC 46° 38,391' 61° 30,849' 69 core barrel length = 3m – 97-2 13:21 GC 46° 38,390' 61° 30,850' 69 max depth/on ground 97-2 13:28 GC 46° 38,390' 61° 30,849' 69 on deck 98-1 13:57 GC 46° 38,666' 61° 28,945' 69 core barrel length = 3m – 98-1 13:58 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:04 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 max depth/on ground 99-1 14:51 GC 46° 36,192' 61° 28,330' 65 on deck 99-2 14:53 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,356' 61° 58,444' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 19,356' 61° 58,443' 42 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end	96-2		12:30	GC	46° 37,426'	61° 34,503'	66	on deck
97-1 13:14 GC 46° 38,393' 61° 30,857' 69 on deck 97-2 13:20 GC 46° 38,391' 61° 30,849' 69 core barrel length = 3m – 97-2 13:21 GC 46° 38,389' 61° 30,850' 69 max depth/on ground 97-2 13:28 GC 46° 38,390' 61° 30,849' 69 on deck 98-1 13:57 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 13:58 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:04 GC 46° 38,668' 61° 28,944' 69 on deck 99-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,192' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,444' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,444' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end	97-1		13:06	GC	46° 38,393'	61° 30,861'	69	core barrel length = 3m - deployed
97-2 13:20 GC 46° 38,391' 61° 30,849' 69 core barrel length = 3m – 97-2 13:21 GC 46° 38,389' 61° 30,850' 69 max depth/on ground 97-2 13:28 GC 46° 38,390' 61° 30,849' 69 on deck 98-1 13:57 GC 46° 38,666' 61° 28,945' 69 core barrel length = 3m – 98-1 13:58 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:04 GC 46° 38,668' 61° 28,942' 69 on deck 99-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,192' 61° 28,337' 65 core barrel length = 3m – 99-2 14:59 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,356' 61° 58,444' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,444' 42 max depth/on ground 100-1 17:48 Parasound P70 46° 19,356' 61° 58,443' 42 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end	97-1		13:08	GC	46° 38,393'	61° 30,860'	69	max depth/on ground
97-2 13:21 GC 46° 38,389' 61° 30,850' 69 max depth/on ground 97-2 13:28 GC 46° 38,390' 61° 30,849' 69 on deck 98-1 13:57 GC 46° 38,666' 61° 28,945' 69 core barrel length = 3m – 98-1 13:58 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:04 GC 46° 38,668' 61° 28,942' 69 on deck 99-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,192' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,356' 61° 58,444' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 max depth/on ground 100-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end	97-1		13:14	GC	46° 38,393'	61° 30,857'	69	on deck
97-2 13:28 GC 46° 38,390' 61° 30,849' 69 on deck 98-1 13:57 GC 46° 38,666' 61° 28,945' 69 core barrel length = 3m – 98-1 13:58 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:04 GC 46° 38,668' 61° 28,942' 69 on deck 99-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:34 CTD 46° 19,356' 61° 58,444' 42 max depth/on ground 100-1 17:48 Parasound P70 46° 19,356' 61° 58,443' 42 on deck 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end	97-2		13:20	GC	46° 38,391'	61° 30,849'	69	core barrel length = 3m – deployed
97-2 13:28 GC 46° 38,390' 61° 30,849' 69 on deck 98-1 13:57 GC 46° 38,666' 61° 28,945' 69 core barrel length = 3m – 98-1 13:58 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:04 GC 46° 38,668' 61° 28,942' 69 on deck 99-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:34 CTD 46° 19,356' 61° 58,444' 42 max depth/on ground 100-1 17:48 Parasound P70 46° 19,356' 61° 58,443' 42 on deck 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end	97-2		13:21	GC	46° 38,389'	61° 30,850'	69	max depth/on ground
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98-1 13:58 GC 46° 38,666' 61° 28,944' 69 max depth/on ground 98-1 14:04 GC 46° 38,668' 61° 28,942' 69 on deck 99-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,192' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,356' 61° 58,444' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end								core barrel length = 3m - deployed
98-1 14:04 GC 46° 38,668' 61° 28,942' 69 on deck 99-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,191' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,337' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,444' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 max depth/on ground 100-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end								
99-1 14:40 GC 46° 36,187' 61° 28,331' 65 core barrel length = 3m – 99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,192' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,443' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end					•	-		_
99-1 14:41 GC 46° 36,187' 61° 28,330' 65 max depth/on ground 99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,192' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,444' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end								core barrel length = 3m – deployed
99-1 14:47 GC 46° 36,189' 61° 28,330' 65 on deck 99-2 14:51 GC 46° 36,192' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,443' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end					•	•		. ,
99-2 14:51 GC 46° 36,192' 61° 28,337' 65 core barrel length = 3m – 99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,443' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end					· ·	-		
99-2 14:53 GC 46° 36,191' 61° 28,336' 65 max depth/on ground 99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,443' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end					-	-		
99-2 14:59 GC 46° 36,191' 61° 28,337' 65 on deck 100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,443' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end					-	-		
100-1 17:27 CTD 46° 19,356' 61° 58,444' 42 in the water 100-1 17:31 CTD 46° 19,357' 61° 58,443' 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end					· ·	-		_
100-1 17:31 CTD 46° 19,357' 61° 58,443' 42 42 max depth/on ground 100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 47 profile start 102-1 25.10 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 47 profile end								
100-1 17:34 CTD 46° 19,356' 61° 58,443' 42 on deck 102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end								
102-1 17:48 Parasound P70 46° 18,764' 61° 59,581' 44 profile start 101-1 17:48 MBES (EM712) 46° 18,764' 61° 59,581' 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end					-	-		_
101-1 17:48 MBES (EM712) 46° 18,764′ 61° 59,581′ 44 44 profile start 102-1 25.10. 10:37 Parasound P70 46° 16,161′ 61° 58,139′ 45 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172′ 61° 58,129′ 44 44 profile end					-	-		
102-1 25.10. 10:37 Parasound P70 46° 16,161' 61° 58,139' 45 profile end 101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end								
101-1 10:37 MBES (EM712) 46° 16,172' 61° 58,129' 44 profile end								·
		25.10.						·
103-1 10:44 CTD 46° 16,259′ 61° 58,092′ 45 in the water								
	103-1		10:44	CTD	46° 16,259'	61° 58,092'	45	in the water

102.1						
103-1	10:50	CTD	46° 16,260'	61° 58,092'	45	max depth/on ground
103-1	10:54	CTD	46° 16,259'	61° 58,092'	45	on deck
104-1	11:33	OBEM	46° 14,542'	61° 58,554'	45	OBEM 57 – deployed
104-2	11:53	OBEM	46° 14,326'	61° 58,721'	46	OBEM 56 – deployed
104-3	12:12	OBEM	46° 14,116'	61° 58,889'	46	OBEM 55 – deployed
104-4	12:30	OBEM	46° 13,904'	61° 59,058'	46	OBEM 54 – deployed
104-5	12:43	OBEM	46° 13,688'	61° 59,231'	46	OBEM 53 – deployed
104-6	12:56	OBEM	46° 13,476'	61° 59,400'	47	OBEM 52 – deployed
104-7	13:13	OBEM	46° 13,263'	61° 59,569'	46	OBEM 51 – deployed
104-8	13:26	OBEM	46° 13,049'	61° 59,740'	46	OBEM 50 – deployed
104-9	13:37	OBEM	46° 12,837'	61° 59,908'	46	OBEM 49 – deployed
104-10	13:50	OBEM	46° 12,623'	62° 00,078'	47	OBEM 48 – deployed
104-11	14:03	OBEM	46° 12,414'	62° 00,246'	47	OBEM 47 – deployed
104-12	14:16	OBEM	•	62° 00,417'	46	OBEM 46 – deployed
105-1	16:04	GC		61° 38,963'	59	core barrel length = 3m – deployed
105-1	16:04	GC	46° 20,049'	•	59	max depth/on ground
105-1	16:09	GC	•	61° 38,961'	59	on deck
105-2	16:31	GC	46° 20,049'		60	core barrel length = 5m – deployed
105-2	16:33	GC	46° 20,050'	•	60	max depth/on ground
105-2	16:39	GC	46° 20,049'	•	60	on deck
106-1	17:36	GC	46° 15,533'	•	57	core barrel length = 3m – deployed
106-1	17:38	GC	46° 15,532'		57	max depth/on ground
106-1		GC	46° 15,533'		57	on deck
	17:43		•	•		
106-2	18:00	GC	46° 15,534'		58 57	core barrel length = 5m – deployed
106-2	18:01	GC	46° 15,534'	•	57	max depth/on ground
106-2	18:05	GC	46° 15,534'	•	56	on deck
107-1	19:30	CSEM	46° 11,887'	62° 00,393'	47	USBL – hydrophone in water
107-1	19:32	CSEM	46° 11,886'	62° 00,392'	47	CAGEM – deployed
1071						
107-1	19:54	CSEM		62° 00,392'	47	recording start
107-1	26.10. 12:00	CSEM	46° 14,859'	61° 58,544'	45	recording end
107-1 107-1	26.10. 12:00 12:06	CSEM CSEM	46° 14,859' 46° 14,861'	61° 58,544' 61° 58,543'	45 45	recording end USBL – on deck
107-1 107-1 107-1	26.10. 12:00 12:06 12:07	CSEM CSEM CSEM	46° 14,859' 46° 14,861' 46° 14,861'	61° 58,544' 61° 58,543' 61° 58,543'	45 45 45	recording end USBL – on deck on deck
107-1 107-1	26.10. 12:00 12:06	CSEM CSEM CSEM OBEM	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500'	61° 58,544' 61° 58,543' 61° 58,543' 61° 58,506'	45 45	recording end USBL – on deck
107-1 107-1 107-1	26.10. 12:00 12:06 12:07	CSEM CSEM CSEM	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,506'	61° 58,544' 61° 58,543' 61° 58,543' 61° 58,506' 61° 58,516'	45 45 45	recording end USBL – on deck on deck hydrophone in water released
107-1 107-1 107-1 104-12	26.10. 12:00 12:06 12:07 12:22	CSEM CSEM CSEM OBEM	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,506'	61° 58,544' 61° 58,543' 61° 58,543' 61° 58,506'	45 45 45 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor)
107-1 107-1 107-1 104-12 104-12	26.10. 12:00 12:06 12:07 12:22 12:26	CSEM CSEM CSEM OBEM OBEM	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542'	61° 58,544' 61° 58,543' 61° 58,543' 61° 58,506' 61° 58,516'	45 45 45 46 46	recording end USBL – on deck on deck hydrophone in water released
107-1 107-1 107-1 104-12 104-12	26.10. 12:00 12:06 12:07 12:22 12:26 12:39	CSEM CSEM CSEM OBEM OBEM OBEM	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542' 46° 14,343'	61° 58,544' 61° 58,543' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533'	45 45 45 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor)
107-1 107-1 107-1 104-12 104-12 104-12 104-11	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48	CSEM CSEM CSEM OBEM OBEM OBEM OBEM	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542' 46° 14,343' 46° 14,320'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646'	45 45 45 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM	46° 14,859' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,107'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704'	45 45 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released OBEM on deck (with anchor)
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM	46° 14,859' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704' 61° 58,832'	45 45 45 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11 104-10	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,107' 46° 14,110' 46° 13,894'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869'	45 45 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released OBEM on deck (with anchor) released OBEM on deck (with anchor)
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11 104-10 104-9	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,107' 46° 13,894' 46° 13,892'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 58,996'	45 45 46 46 46 46 46 46 45	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released OBEM on deck (with anchor) released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11 104-10 104-9 104-9	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,892' 46° 13,682'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,050'	45 45 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11 104-10 104-9 104-9 104-8	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542' 46° 14,320' 46° 14,107' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,050' 61° 59,167'	45 45 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-10 104-10 104-9 104-9 104-8 104-8	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,466'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,646' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,050' 61° 59,167' 61° 59,223'	45 45 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor)
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-10 104-9 104-9 104-8 104-8 104-7	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,466' 46° 13,457'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,050' 61° 59,167' 61° 59,223' 61° 59,338'	45 45 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11 104-10 104-9 104-9 104-8 104-8 104-7	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12 14:26	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,466' 46° 13,457' 46° 13,229'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 59,050' 61° 59,167' 61° 59,223' 61° 59,338' 61° 59,392'	45 45 46 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor)
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-10 104-10 104-9 104-9 104-8 104-8 104-7 104-7	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12 14:26 14:36 14:51	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,457' 46° 13,229' 46° 13,229'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,050' 61° 59,167' 61° 59,338' 61° 59,338' 61° 59,392' 61° 59,522'	45 45 46 46 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11 104-10 104-9 104-9 104-8 104-8 104-7 104-7 104-6 104-6 104-5	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12 14:26 14:36 14:51 15:01	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,466' 46° 13,229' 46° 13,251' 46° 13,019'	61° 58,544' 61° 58,543' 61° 58,546' 61° 58,516' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,050' 61° 59,167' 61° 59,223' 61° 59,338' 61° 59,392' 61° 59,559' 61° 59,559' 61° 59,693'	45 45 46 46 46 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11 104-10 104-9 104-9 104-9 104-8 104-7 104-7 104-7 104-6 104-6 104-5 104-5	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12 14:26 14:36 14:51 15:01	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,456' 46° 13,457' 46° 13,229' 46° 13,251' 46° 13,019' 46° 13,039'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 59,050' 61° 59,167' 61° 59,223' 61° 59,338' 61° 59,338' 61° 59,592' 61° 59,5959' 61° 59,593' 61° 59,693' 61° 59,732'	45 45 46 46 46 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor)
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-10 104-10 104-9 104-9 104-8 104-8 104-7 104-7 104-6 104-6 104-5 104-5 104-4	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12 14:26 14:36 14:51 15:01 15:13	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,457' 46° 13,229' 46° 13,251' 46° 13,019' 46° 13,039' 46° 12,811'	61° 58,544' 61° 58,543' 61° 58,546' 61° 58,516' 61° 58,646' 61° 58,646' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,167' 61° 59,223' 61° 59,338' 61° 59,338' 61° 59,522' 61° 59,559' 61° 59,693' 61° 59,732' 61° 59,732' 61° 59,862'	45 45 46 46 46 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-10 104-10 104-9 104-9 104-8 104-8 104-7 104-7 104-6 104-6 104-5 104-4	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12 14:26 14:36 14:51 15:01 15:13 15:22 15:32	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,506' 46° 14,542' 46° 14,320' 46° 14,107' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,456' 46° 13,251' 46° 13,251' 46° 13,019' 46° 13,039' 46° 12,811' 46° 12,833'	61° 58,544' 61° 58,543' 61° 58,546' 61° 58,516' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,050' 61° 59,167' 61° 59,223' 61° 59,338' 61° 59,522' 61° 59,559' 61° 59,559' 61° 59,693' 61° 59,862' 61° 59,888'	45 45 46 46 46 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor)
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-11 104-10 104-9 104-9 104-8 104-7 104-7 104-6 104-6 104-5 104-5 104-4 104-4	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12 14:26 14:36 14:51 15:01 15:13 15:22 15:32 15:41	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,466' 46° 13,457' 46° 13,251' 46° 13,019' 46° 13,039' 46° 12,811' 46° 12,833' 46° 12,605'	61° 58,544' 61° 58,543' 61° 58,543' 61° 58,516' 61° 58,533' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 59,050' 61° 59,167' 61° 59,223' 61° 59,338' 61° 59,338' 61° 59,522' 61° 59,559' 61° 59,592' 61° 59,593' 61° 59,693' 61° 59,898' 62° 00,036'	45 45 46 46 46 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor) released
107-1 107-1 107-1 104-12 104-12 104-12 104-11 104-10 104-10 104-9 104-9 104-8 104-8 104-7 104-7 104-6 104-6 104-5 104-4	26.10. 12:00 12:06 12:07 12:22 12:26 12:39 12:48 12:59 13:08 13:19 13:30 13:42 13:52 14:04 14:12 14:26 14:36 14:51 15:01 15:13 15:22 15:32	CSEM CSEM CSEM OBEM OBEM OBEM OBEM OBEM OBEM OBEM OB	46° 14,859' 46° 14,861' 46° 14,861' 46° 14,500' 46° 14,542' 46° 14,343' 46° 14,320' 46° 14,110' 46° 13,894' 46° 13,682' 46° 13,674' 46° 13,457' 46° 13,229' 46° 13,251' 46° 13,019' 46° 13,019' 46° 13,039' 46° 12,811' 46° 12,833' 46° 12,605' 46° 12,616'	61° 58,544' 61° 58,543' 61° 58,506' 61° 58,516' 61° 58,646' 61° 58,704' 61° 58,832' 61° 58,869' 61° 58,996' 61° 59,050' 61° 59,167' 61° 59,223' 61° 59,338' 61° 59,338' 61° 59,522' 61° 59,559' 61° 59,559' 61° 59,693' 61° 59,862' 61° 59,888'	45 45 46 46 46 46 46 46 46 46 46 46 46 46 46	recording end USBL – on deck on deck hydrophone in water released OBEM on deck (with anchor)

104-2		16:09	OBEM	46° 12,404'	62° 00,240'	46	OBEM on deck (with anchor)
104-1		16:16	OBEM	46° 12,180'	62° 00,384'	46	released
104-1		16:23	OBEM	46° 12,191'	62° 00,414'	46	hydrophone on deck
104-1		16:25	OBEM	46° 12,192'	62° 00,414'	46	OBEM on deck (with anchor)
108-1		16:39	CTD	46° 12,191'	62° 00,414'	46	in the water
108-1		16:43	CTD	46° 12,191'	62° 00,414'	46	max depth/on ground
108-1		16:46	CTD	46° 12,190'	62° 00,415'	46	on deck
109-1		17:23	MBES (EM712)	46° 10,411'	62° 01,140'	46	profile start
110-1		17:23	Parasound P70	46° 10,411'	62° 01,140'	46	profile start
109-1		10:18	MBES (EM712)	46° 15,232'	61° 43,643'	58	profile - interrupt (CTD station)
110-1		10:18	Parasound P70	46° 15,232'	61° 43,643'	58	profile - interrupt (CTD station)
111-1		10:20	CTD	46° 15,232'	61° 43,643'	59	in the water
111-1		10:25	CTD	46° 15,232'	61° 43,643'	58	max depth/on ground
111-1		10:27	CTD	46° 15,233'	61° 43,643'	58	on deck
110-1		10:30	Parasound P70		61° 43,633'	58	profile - continue
109-1		10:30	MBES (EM712)	46° 15,238'		58	profile - continue
110-1		15:35	Parasound P70	· ·	61° 44,984'	57	profile - interrupt (CTD station)
109-1		15:35	MBES (EM712)	· ·	61° 44,984'	57	profile - interrupt (CTD station)
112-1		15:39	CTD	46° 15,679'	•	56	in the water
112-1		15:45	CTD	46° 15,679'	-	56	max depth/on ground
112-1		15:49	CTD	46° 15,677'	•	56	on deck
109-1		15:58	MBES (EM712)	· ·	61° 44,756'	56	profile - continue
110-1		15:58	Parasound P70	· ·	61° 44,756'	56	profile - continue
110-1		17:39	Parasound P70	46° 13,134'	•	46	profile - interrupt (GC)
109-1		17:39	MBES (EM712)		61° 59,264'	46	profile - interrupt (GC)
113-1		17:52	GC	•	61° 59,668'	47	core barrel length = 3m – deployed
113-1		17:54	GC	· ·	61° 59,667'	46	max depth/on ground
113-1		17:57	GC	46° 13,152'		47	on deck
113-1		18:14	GC	46° 13,151'	•	47	core barrel length = 5m – deployed
113-2	27.10.	18:16	GC	•	61° 59,668'	47	max depth/on ground
113-2	27.10.	18:20	GC	· ·	61° 59,668'	47	on deck
113-2			GC	46° 13,130' 46° 13,925'	-	47 47	
		18:42			61° 58,398'		core barrel length = 5m – deployed max depth/on ground
114-1 114-1		18:43 18:49	GC GC	· ·	-	48	• • •
					61° 58,397' 61° 58,004'	48	on deck
110-1		19:01	Parasound P70	•	•	46	profile - continue
109-1		19:01	MBES (EM712)	· ·	61° 58,004'	46	profile - continue
109-1		20:26	MBES (EM712)		61° 45,103'	56	profile end
110-1		20:26	Parasound P70	•	61° 45,095'	57	profile end
115-1		20:42	OBEM	· ·	61° 45,211'	56	OBEM58 – deployed
115-2		20:57	OBEM	•	61° 45,559'	57	OBEM59 – deployed
115-3		21:13	OBEM	· ·	61° 45,911'	56	OBEM60 – deployed
115-4		21:27	OBEM	· ·	61° 46,256'	56	OBEM61 – deployed
115-5		21:43	OBEM	· ·	61° 46,608'	56	OBEM62 – deployed
115-6		21:58	OBEM	•	61° 46,957'	56	OBEM63 – deployed
115-7		22:18	OBEM		61° 46,945'	55	OBEM64 – deployed
115-8		22:33	OBEM	· ·	61° 46,598'	57	OBEM65 – deployed
115-9		22:48	OBEM	•	61° 46,246'	57	OBEM66 – deployed
115-10		23:06	OBEM	· ·	61° 45,901'	57	OBEM67 – deployed
115-11		23:22	OBEM	· ·	61° 45,550'	58	OBEM68 – deployed
115-12		23:36	OBEM	•	61° 45,204'	58	OBEM69 – deployed
116-1	28.10.		CTD	46° 40,477'	-	59	in the water
116-1		02:40	CTD	· ·	61° 57,221'	61	max depth/on ground
116-1		02:40	CTD	· ·	61° 57,221'	58	on deck
116-2		03:15	CTD	46° 41,129'	61° 58,590'	62	in the water

116-2	03:2	2 CTD	46° 41,129'	61° 58,590'	63	max depth/on ground
116-2	03:2	.6 CTD	46° 41,138'	61° 58,573'	62	on deck
116-3	04:0	1 CTD	46° 43,270'	62° 02,153'	56	in the water
116-3	04:0	06 CTD	46° 43,271'	62° 02,156'	56	max depth/on ground
116-3	04:1	.0 CTD	46° 43,273'	62° 02,147'	56	on deck
116-4	04:4	5 CTD	46° 43,277'	62° 02,142'	144	in the water
116-4	04:5	3 CTD	46° 43,278'	62° 02,144'	143	max depth/on ground
116-4	04:5	9 CTD	46° 43,277'	62° 02,143'	143	on deck
116-5	05:2	2 CTD	46° 44,617'	62° 04,040'	73	in the water
116-5	05:2	7 CTD	46° 44,618'	62° 04,039'	74	max depth/on ground
116-5	05:3	1 CTD	46° 44,617'	62° 04,038'	75	on deck
117-1	05:5	2 MBES (EM712)	46° 45,523'	62° 04,436'	70	profile start
118-1	05:5	Parasound P70	46° 45,523'	62° 04,436'	70	profile start
118-1	10:5	7 Parasound P70	46° 33,761'	62° 13,845'	44	profile end
117-1	10:5	7 MBES (EM712)	46° 33,749'	62° 13,809'	44	profile end
119-1	11:0	3 CTD	46° 33,739'	62° 13,706'	46	in the water
119-1	11:0	8 CTD	46° 33,740'	62° 13,707'	46	max depth/on ground
119-1	11:1	.1 CTD	46° 33,740'	62° 13,705'	46	on deck
120-1	14:1	.7 CSEM	46° 15,348'	61° 44,847'	57	USBL – hydrophone in water
120-1	29.10. 14:1 14:1	.7 CSEM	46° 15,350'	61° 44,846'	57	CAGEM – deployed
120-1	14:2	.5 CSEM	46° 15,356'	61° 44,842'	57	recording start
120-1	18:0	7 CSEM	46° 15,580'	61° 46,891'	56	recording interrupted
120-1	18:1	.1 CSEM	46° 15,580'	61° 46,894'	56	on deck
120-1	18:2	3 CSEM		61° 46,894'	56	in the water
120-1	18:3	0 CSEM	46° 15,580'	61° 46,877'	56	measurements - continue
120-1	30.10. 10:3	0 CSEM		61° 44,794'	58	recording end
120-1	10:3	4 CSEM	46° 16,009'	61° 44,795'	58	on deck
115-12	10:5	OBEM	46° 15,746'	61° 45,175'	58	hydrophone in water
115-12	10:5	OBEM	46° 15,733'	61° 45,185'	58	released
115-12	11:1	.5 OBEM	46° 15,790'	61° 45,238'	58	OBEM on deck (with anchor)
115-11	11:2	5 OBEM	46° 15,823'	61° 45,579'	57	released
115-11	11:3	6 OBEM	46° 15,813'	61° 45,575'	57	OBEM on deck (with anchor)
115-10	11:4	7 OBEM	46° 15,832'	61° 45,935'	57	released
115-10	11:5	8 OBEM	46° 15,821'	61° 45,928'	57	OBEM on deck (with anchor)
115-9	12:0	08 OBEM	46° 15,843'	61° 46,281'	56	released
115-9	12:1	.8 OBEM	46° 15,823'	61° 46,274'	56	OBEM on deck (with anchor)
115-8	12:2	8 OBEM	46° 15,853'	61° 46,633'	56	released
115-8	12:3	9 OBEM	46° 15,844'	61° 46,629'	131	OBEM on deck (with anchor)
115-7	12:4	9 OBEM	46° 15,862'	61° 46,983'	55	released
115-7	12:5	5 OBEM	46° 15,847'	61° 46,975'	56	OBEM on deck (no anchor)
115-6	13:1	.2 OBEM	46° 15,596'	61° 46,991'	56	released
115-6	13:2	.6 OBEM	46° 15,578'	61° 46,983'	56	OBEM on deck (with anchor)
115-5	13:3	OBEM	46° 15,585'	61° 46,638'	56	released
115-5	13:5	OBEM	46° 15,567'	61° 46,635'	56	OBEM on deck (with anchor)
115-4	13:5	9 OBEM	46° 15,577'	61° 46,283'	56	released
115-4	14:1	.3 OBEM	46° 15,551'	61° 46,286'	56	OBEM on deck (with anchor)
115-3	14:2	2 OBEM	46° 15,566'	61° 45,935'	57	released
115-3	14:5	OBEM	46° 15,543'	61° 45,934'	57	OBEM on deck (with anchor)
115-2	15:1	.3 OBEM	46° 15,555'	61° 45,589'	57	released
115-2	15:3	4 OBEM	46° 15,531'	61° 45,545'	57	OBEM on deck (with anchor)
115-1	15:4	OBEM	46° 15,543'	61° 45,239'	57	released
115-1	15:4	6 OBEM	46° 15,519'	61° 45,251'	57	hydrophone on deck
115-1	15:5	OBEM	46° 15,521'	61° 45,225'	57	OBEM on deck (with anchor)
121-1	18:4	7 OBEM	46° 42,723'	62° 02,149'	63	OBEM70 – deployed

121-2		19:00	OBEM	46° 42,868'	62° 02,370'	76	OBEM71 – deployed
121-3		19:13	OBEM	46° 43,020'	62° 02,601'	144	OBEM72 – deployed
121-4		19:25	OBEM	46° 43,170'	62° 02,829'	119	OBEM73 – deployed
121-5		19:45	OBEM	46° 43,320'	62° 03,056'	93	OBEM74 – deployed
121-6		19:58	OBEM	46° 43,476'	62° 03,254'	77	OBEM75 – deployed
121-7		20:16	OBEM	46° 43,447'	62° 02,094'	134	OBEM76 – deployed
121-8		20:27	OBEM	46° 43,297'	62° 02,348'	139	OBEM77 – deployed
121-9		20:39	OBEM	-	62° 02,583'	141	OBEM78 – deployed
121-10		20:50	OBEM	46° 43,015'		143	OBEM79 – deployed
121-11		21:02	OBEM	46° 42,873'	62° 03,056'	153	OBEM80 – deployed
121-12		21:14	OBEM	46° 42,732'	62° 03,292'	145	OBEM81 – deployed
122-1		22:09	CSEM	46° 42,345'	•	63	CAGEM – deployed
122-1		22:17	CSEM	-	62° 02,011'	63	USBL – hydrophone in water
122-1		22:21	CSEM	-	62° 02,023'	63	recording start
122-1		21:57	CSEM	46° 43,778'	62° 01,908'	78	recording end
122-1		21:57	CSEM	46° 43,777'	•	78	hydrophone on deck
122-1		22:03	CSEM	•	62° 01,908'	78	on deck
123-1		22:17	CTD	•	62° 01,909'	76	in the water
123-1	31.10.	22:21	CTD	46° 43,776'	62° 01,908'	77	max depth/on ground
123-1		22:25	CTD	46° 43,777'	62° 01,908'	77	on deck
124-1		22:54	MBES (EM712)	•	62° 03,341'	98	profile start
125-1		23:09	Parasound P70	•	62° 04,736'	99	profile start
124-1	01.11.	10:55	MBES (EM712)	46° 34,256'	•	49	profile end
125-1	01.11.	10:55	Parasound P70	46° 34,211'		49	profile end
126-1		11:01	CTD		62° 12,582'	49	in the water
126-1		11:06	CTD		62° 12,581'	49	max depth/on ground
126-1		11:08	CTD	-	62° 12,581'	49	on deck
121-1		12:19	OBEM	46° 42,600'	62° 01,987'	60	hydrophone in water
121-1		12:20	OBEM	46° 42,622'	62° 02,003'	61	released
121-1		12:26	OBEM	-	62° 02,140'	61	OBEM on deck
121-1		12:36	OBEM	•	62° 02,143'	72	released
121-2		12:45	OBEM	46° 42,870'	62° 02,337'	75	OBEM on deck
121-3		12:54	OBEM	46° 42,879'		52	released
121-3		13:02	OBEM	•	62° 02,515'	76	OBEM on deck
121-3		13:12	OBEM		62° 02,929'	82	released
121-4		13:20	OBEM		62° 02,773'	34	OBEM on deck
121-5		13:30	OBEM	•	62° 03,097'	49	released
121-5		13:38	OBEM	-	62° 02,996'	91	OBEM on deck
121-5		13:46	OBEM		62° 03,323'	77	released
121-6		13:52	OBEM	•	62° 03,323	77 75	OBEM on deck
121-7		14:05	OBEM	-	62° 01,954'	39	released
121-7		14:17	OBEM	46° 43,468'		78	OBEM on deck
121-7		14:31	OBEM	-	62° 02,119	89	released
121-8		14:41	OBEM		62° 02,293'	67	OBEM on deck
121-8		14:49	OBEM	-	62° 02,479'	90	released
121-9		15:11	OBEM		62° 02,475	83	OBEM on deck
121-10		15:25	OBEM	-	62° 02,782'	71	released
121-10		15:28	OBEM		62° 02,782	58	OBEM on deck
121-10		15:33	OBEM	-	62° 02,814	36 89	released
121-11		15:33	OBEM	-	62° 03,031'	82	OBEM on deck
					62° 03,031		released
121-12 121-12		15:47 15:56	OBEM OBEM	-	62° 03,120	88 72	OBEM on deck
121-12 121-12		15:56 15:58	OBEM	-	62° 03,177	72 119	hydrophone on deck
121-12 127-1			GC		62° 03,175	80	core barrel length = 3m – deployed
12/-T		16:15	GC	40 42,488	02 03,922	δU	core parrer letigui – Sili – deployed

127-1		16:17	GC		62° 03,922'	68	max depth/on ground
127-1		16:26	GC	-	62° 03,922'	121	on deck
127-2		16:34	GC		62° 03,928'	121	core barrel length = 3m – deployed
127-2		16:36	GC	46° 42,484'	62° 03,927'	121	max depth/on ground
127-2		16:45	GC	-	62° 03,928'	121	on deck
128-1		17:06	GC	46° 43,029'	62° 03,720'	94	core barrel length = 3m – deployed
128-1		17:08	GC	46° 43,030'	62° 03,721'	94	max depth/on ground
128-1		17:16	GC	46° 43,029'	62° 03,721'	94	on deck
128-2		17:22	GC	46° 43,025'	62° 03,726'	94	core barrel length = 3m - deployed
128-2		17:24	GC	46° 43,025'	62° 03,726'	94	max depth/on ground
128-2		17:31	GC	46° 43,025'	62° 03,726'	94	on deck
129-1		21:17	CTD	46° 34,838'	62° 56,458'	46	in the water
129-1		21:21	CTD	46° 34,838'	62° 56,458'	46	max depth/on ground
129-1		21:25	CTD	46° 34,839'	62° 56,458'	46	on deck
130-1		21:34	MBES (EM712)	46° 34,600'	62° 58,066'	45	profile start
131-1		21:35	Parasound P70	46° 34,594'	62° 58,117'	45	profile start
130-1		14:58	MBES (EM712)	46° 32,282'	63° 00,476'	41	profile end
131-1		14:58	Parasound P70	46° 32,274'	63° 00,474'	41	profile end
132-1		15:03	CTD	46° 32,264'	63° 00,469'	41	in the water
132-1		15:07	CTD	46° 32,263'	63° 00,468'	41	max depth/on ground
132-1		15:10	CTD	46° 32,264'	63° 00,469'	41	on deck
133-1		15:48	OBEM	46° 32,614'	63° 05,190'	44	OBEM82 – deployed
133-2		16:01	OBEM	46° 32,701'	63° 05,448'	48	OBEM83 – deployed
133-3		16:16	OBEM	46° 32,783'	63° 05,702'	50	OBEM84 – deployed
133-4		16:27	OBEM		63° 05,957'	50	OBEM85 – deployed
133-5		16:40	OBEM		63° 06,215'	47	OBEM86 – deployed
133-6	02.11.	16:55	OBEM	· ·	63° 06,467'	46	OBEM87 – deployed
133-7		17:06	OBEM		63° 06,722'	47	OBEM88 – deployed
133-8		17:16	OBEM	46° 33,198'	•	51	OBEM89 – deployed
133-9		17:26	OBEM	46° 33,282'		48	OBEM90 – deployed
133-10		17:35	OBEM	•	63° 07,486'	46	OBEM91 – deployed
133-11		17:51	OBEM	•	63° 07,737'	45	OBEM92 – deployed
133-12		18:03	OBEM		63° 07,989'	44	OBEM93 – deployed
134-1		18:14	CSEM		63° 08,217'	44	USBL – hydrophone in water
134-1		18:46	CSEM	•	63° 08,529'	44	in the water
134-1		19:00	CSEM		63° 08,466'	44	recording start
134-1	03.11.	03:45	CSEM	•	63° 08,016'	44	recording interrupted
134-1	00.11.	03:51	CSEM	•	63° 08,022'	44	on deck
134-1		04:06	CSEM	•	63° 08,022'	44	in the water
134-1		04:11	CSEM		63° 08,023'	44	measurements - continue
134-1		12:27	CSEM	•	63° 07,585'	46	recording end
134-1		12:29	CSEM	•	63° 07,585'	46	hydrophone on deck
134-1		12:32	CSEM	-	63° 07,585'	46	on deck
133-12		13:01	OBEM	•	63° 07,858'	45	hydrophone in water
133-12		13:01	OBEM	-	63° 07,858'	45	released
133-12		13:11	OBEM	•	63° 07,997'	44	OBEM on deck
133-12		13:20	OBEM	-	63° 07,801'	45	released
133-11		13:27	OBEM		63° 07,707'	45 46	OBEM on deck
133-11			OBEM	•	63° 07,288'	46 47	released
		13:35		-	63° 07,492'		OBEM on deck
133-10		13:44	OBEM	•	· ·	46 47	
133-9		13:52	OBEM	•	63° 07,246'	47 49	released
133-9		13:55	OBEM	-	63° 07,240'	48 51	Release hook does not open
133-8		14:12	OBEM	•	63° 06,838'	51	released
133-8		14:20	OBEM	40 33,20/	63° 06,989'	51	OBEM on deck

422.7		14.20	ODEM	460 22 0071	C28 OC 7071	4.0	
133-7		14:29	OBEM	•	63° 06,787'	46	released
133-7		14:36	OBEM	•	63° 06,715'	48	OBEM on deck
133-6		14:48	OBEM	•	63° 06,338'	46	released
133-6		14:57	OBEM		63° 06,485'	46	OBEM on deck
133-2		15:00	OBEM	•	63° 06,510'	45	released
133-2		15:12	OBEM	46° 32,729'	63° 05,415'	47	OBEM on deck
133-5		15:28	OBEM	46° 33,051'	63° 06,086'	49	released
133-5		15:35	OBEM	46° 32,942'	63° 06,213'	47	OBEM on deck
133-4		15:46	OBEM	46° 32,752'	63° 06,046'	48	released
133-4		15:52	OBEM	46° 32,893'	63° 05,940'	50	OBEM on deck
133-3		16:00	OBEM	46° 32,884'	63° 05,590'	51	released
133-3		16:05	OBEM	46° 32,860'	63° 05,593'	51	Release hook does not open
133-1		16:23	OBEM	46° 32,703'	63° 05,060'	45	released
133-1		16:34	OBEM	46° 32,648'	63° 05,183'	45	OBEM on deck
							OBEM rescue with CAGEM frame +
133-3		17:12	OBEM	46° 32,781'	63° 05,699'	50	hook + camera
133-3		18:16	OBEM	46° 32.779'	63° 05,693'	51	OBEM on hook
133-3		18:26	OBEM	•	63° 05,693'	51	OBEM on deck
				,	•		OBEM rescue with CAGEM frame +
133-9		18:49	OBEM	46° 33,276'	63° 07,221'	49	hook + camera
133-9		19:14	OBEM	46° 33 279'	63° 07,222'	49	OBEM on hook
133-9		19:22	OBEM	•	63° 07,222'	49	OBEM and CAGEM frame on deck
135-1		16:33	ESV	•	27° 51,765'		XCTD – deployed
135-1		16:43	ESV	•	27° 51,703		station end
				· ·	27° 51,748'		
136-1		17:05	CSEM	•	•		USBL – hydrophone in water
136-1		17:41	CSEM	•	27° 51,750'		MARTEMIS – deployed
136-1		18:35	CSEM	•	27° 51,749'		MARTEMIS – on deck (short circuit)
136-1		19:05	CSEM	•	27° 51,750'		on deck
136-2	08.11.	19:06	CSEM	•	27° 51,749'		USBL still deployed from stn 136-1
136-2		19:53	CSEM	45° 28,912'	27° 51,750'	2721	MARTEMIS – deployed
136-2		21:03	CSEM	45° 28,911'	27° 51,749'	2717	MARTEMIS – on deck (mechanical
426.2		24.44	CCENA	450 20 0441	270 54 7401	2600	problems)
136-2		21:41	CSEM	•	27° 51,748'		on deck
137-1		22:32	CTD				USBL – hydrophone in water
137-1		22:36	CTD		27° 50,821'		USBL – deployed
137-1		23:46	CTD	•	27° 50,854'		Max depth = 2906m
137-1		00:32	CTD	45° 28,344'	27° 50,828'	3028	Haul up to 2000m
137-1		01:39	CTD	•	27° 50,764'	3036	max depth/on ground
137-1	09.11.	01:43	CTD	45° 28,190'	27° 50,764'	3025	Haul up to 2888m
137-1	05.11.	02:53	CTD	45° 27,920'	27° 50,704'	2992	max depth/on ground
137-1		04:00	CTD	45° 27,920'	27° 50,703'	2948	on deck
137-1		04:00	CTD	45° 27,920'	27° 50,705'	2994	USBL – hydrophone on deck
				•	•		• •