

**R/V Maria S. MERIAN
Cruise No. 2 Leg 3**

**Longyearbyen – Longyearbyen
(Svalbard)**

31 July – 17 August 2006

Preliminary Report

Chief scientist: Prof. Dr. André Freiwald
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Germany

Objectives

Aim of the Merian cruise 2 leg 3 was to analyse environmental controls and post-glacial climate variability of biosedimentary systems on the shelves around Svalbard. Special emphasis was laid on the evolution of polar carbonates – the least known system of non-tropical carbonate factories – and their potential as palaeo-environment recorder. The major working tool was the manned submersible JAGO which operated in topographic complex submarine terrains which are difficult to sample with conventional gear. The major objective was to study the composition and function of keystone species in sediment-forming polar benthic habitats with an integrated ecosystem approach. The results will be compared with the better-known ecosystems of the lower latitudes. We intend to budget the benthic carbonate production and accumulation rates and the taphonomy of polar carbonates. Selected long-living calcareous organisms will be analysed for historical fluctuations of climate change and the data may improve existing knowledge of the current Arctic warming. The study sites covered a broad range of oceanographically different situations. A special purpose of this cruise was to collect first data of the seawater carbonate chemistry with a focus on carbonate saturation.

The cruise objectives also included a polar-historical component – the fate of the Deutsche Arktis Expedition failed in 1912 as well as the rescue expedition in 1913.

Working Programme

The Merian cruise focused mainly on investigations of the carbonate producing ecosystems on the glacially affected shelves and within the fjords in polar latitudes around Svalbard. To achieve this aim, 23 scientists on board worked interdisciplinary together.

Within the working areas the subsequent strategy was followed:

1. Multibeam mapping of the sea floor for production of detailed bathymetric maps
2. JAGO (manned research submersible) dives with bottom photography for documentation and sampling
3. Bottom photography with a towed photo sledge for better overview of the sea floor and its benthic biocoenoses as well as for statistic purpose
4. Underwater light level measurements of the photosynthetic active radiation (PAR)
5. Dredges for sampling and description of zoobenthos
6. Van Veen grabs for geological and biological sampling
7. Box-corer and gravity-corer sampling in the deeper shelf areas or fjord troughs for description of the sediment and its fauna (incl. photography)
8. CTD profiles and water sampling with special attention to the measuring of the carbonate saturation and isotopic calibration

A further main focus was laid on polar-historical studies on the fate of the failed Deutsche Arktis Expedition in 1912.

Participants & Participating Institutions

The cruise was lead by Prof. Dr. André Freiwald from the IPAL (Erlangen) and 23 specialists of the following institutions took part:

- IPAL, Institute of Palaeontology, Erlangen University, Loewenichstr. 28, D-91054 Erlangen, Germany
- MARUM, University Bremen, Leobenerstr., D-28359 Bremen, Germany
- IFM-GEOMAR, Leibniz-Institut für Meereswissenschaften, Wischhofstr. 1-3, D-24148 Kiel, Germany
- Institute for Polar Ecology, University Kiel, Wischhofstr. 1-3, D-24148 Kiel, Germany
- MPI Seewiesen, Beiselestr. 19, D-82327 Tutzing, Germany
- Journalist, A-6020 Innsbruck, Austria
- Freelance documentary film maker, D-22946 Trittau, Germany
- Polar-historian, D-81371 Munich, Germany

Cruise Narration

Monday, 31.07.06

We left Longyearbyen in the early morning and started immediately with a CTD profile (#616-621) in Isfjorden. The profile ranged from the outer Isfjorden to the continental margin.

Tuesday, 01.08.06

In the night we moved on to Sentinelleflaket and started in the early morning with multibeam mapping (#622). Along 2 profiles, the NE slope of the bank was plotted from 146 to 33 m water depth. In the channel between Sentinelleflaket and the Nordenskjöld coast off Svalbard we made use of the box-corer sampler and a gravity-corer with a 3 m-barrel (#623), followed by 6 Van Veen grabs along the mapped area up to the top of the bank (#624-629). In the late afternoon, the JAGO-manoeuvre started under increasing wind. At the same time, underwater light level measurements were taken using the Merian rubber dinghy (#630). Last station on the Sentinelleflaket was the first ROV-mission (#631), which had to be cancelled because of technical problems. We passed to Mitragrunnen in front of Kongsfjorden in the evening.

Wednesday, 02.08.06

After midnight the scientific programme started with a CTD station (#632) in the outer Kongsfjorden south of Mitragrunnen, followed by multibeam mapping (#633). During the first scientific JAGO dive (#634) the lower slope of Mitragrunnen was mapped between 250 to 148 m water depth. Furthermore, the box-corer sampler and a

gravity-corer with a 6 m-barrel (#635) were used successfully as well as 2 dredges (#636-637). In the early evening we mapped selected profiles (#638). Still mapping, we entered Kongsfjorden back to 5 km from the spectacular Lilliehöök glacier front (#639).

Thursday, 03.08.06

Back towards Mitragrunnen, a CTD profile was taken through Krossfjorden (#640-643). The second JAGO dive was managed in the shallow area of the mapped Mitragrunnen area (#644) in the morning. In addition to yesterdays gravity-corer, a 9 m-barrel (#645) was used at the same station. In the afternoon we cruised back into Krossfjorden, taking a box-corer sample and a gravity-corer with a 6 m-barrel (#646). At the same time, the polar-historical landing party explored the remains of a German geophysical-meteorological station at Ebeltoftolmen. In the evening, we reached again the Lilliehöök glacier front, combining the preparations for JAGO dive (#647) proximal to the glacier for a photo shooting of JAGO and Merian in front of this spectacular scenery. While leaving the fjord, a box-corer sample and a 6 m-barrel gravity-corer (#648) were taken at night.

Friday, 04.08.06

Short after midnight, a second box-corer/6 m-barrel gravity corer station (#649) was carried out. Early in the morning a second ROV functional test (#650) was made and the multibeam map of this area was completed (#651). Later on, a JAGO dive at the outer Krossfjorden (#652) was launched. On the track of the JAGO dive of station #644 the photo sledge was used to expose every 15 m one medium format colour slide film (#653). Underwater light level measurements (#654) concluded the programme at this working area. We started our way to Moffen island in the afternoon, a sandy accumulation with a central lagoon north off Woodfjorden. In the night and under best weather conditions we reached our working area for multibeam mapping southwest of Moffen (#656). After the photo sledge was taken a CTD profile (#655) was carried out.

Saturday, 05.08.06

The investigations at Moffen started with a JAGO dive (#657) and underwater light level measurements (#658). At the deepest part, a box-corer sample (#659) was taken. Along parts of the JAGO track the photo sledge (#660) was used for creating sea floor photographs, followed by a dredge (#661) for collecting the key species. With two Van Veen grabs (#662-663) the sampling was finished at Moffen. In the evening some time was invested to close the last gaps of the multibeam maps (#664). Later on we reached a geologic station in the outer Woodfjorden, mapped by multibeam (#665) and sampled by box-corer, 6 m-barrel gravity-corer as well as CTD (#666).

Sunday, 06.08.06

Further CTD transects were launched in the area around Woodfjorden (#667-669). Early in the morning we reached Mosselbukta, and explored this bay with multibeam mapping (#670), followed by the 6th JAGO dive (#671). By means of underwater light level measurements (#672) the depth of the photic zone was investigated. Afterwards, an expert group for polar-historical studies went ashore to survey the hibernation lodging of Nordenskjöld in the bay of Mosselbukta. In the meantime, a corer site (#673) in the outer Wijdefjorden was explored. Back in Mosselbukta the

photo sledge (#674), dredge (#675) and 2 Van Veen grabs (#676-677) were launched.

Monday, 07.08.06

After midnight we filled the last gaps in the multibeam map (#678) of Mofsen, followed by a further CTD station in Wijdefjorden (#679). In the morning, we started a successful deployment of 3 bioerosion and carbonate-accretion experiments in the photic, dysphotic and aphotic zones within the bay of Mosselbukta, with the aid of the submersible JAGO (#680-682). These bioerosion panels are intended to be recovered after three years. The battery-recharge time of JAGO was used for multibeam mapping (#683). In the evening, the 10th scientific JAGO dive (#684) led from the lower slope up to the zone with rhodoliths. Final task in the Mosselbukta were underwater light level measurements (#685). After a short transect we reached a further geology station west of Verlegenuken in the outer Wijdefjorden, which was investigated by a short multibeam transect (#686), as well as box-corer and gravity-corer sampling plus a final CTD (#687).

Tuesday, 08.08.06

On the way to Sorgfjorden two further CTD transects were carried out (#688-689). A detailed multibeam grid was mapped in front of Sorgfjorden (#690) as well as within the inner bay (#691). In 1693 a naval action took place here with high losses of sailors and ships. Our 11th JAGO dive (#692) submerged to a potential shipwreck. At the same time, a group of specialists visited a grave field on the outlet of the bay. The first polar bear was sighted. In the bay the scientific programme was finished with underwater light level measurements (#693) and a CTD station (#694). With best weather conditions we headed towards Hinlopenstretet and – after multibeam mapping (#695) – started there with some heavy gear (box-corer, gravity-corers with 6 m- and 9 m-barrel, CTD and 3 Van Veen grabs; #696).

Wednesday, 09.08.06

The outer Hinlopenstretet was explored by multibeam mapping (#697) and then sampled by box-corer and gravity-corer as well as CTD (#698). We reached Kapp Ruben in the north of Nordaustlandet in the morning, launching a CTD (#699). The stretch between Kapp Ruben and the Nordkapp was covered by a detailed multibeam grid (#700). Along the steep slope, a first submersible dive (#701) was undertaken. At the same time underwater light level measurements (#702) took place, followed by a further short JAGO dive (#703). Along the track of the 12th JAGO dive (#701) the dredge (#704), photo sledge (#705) and CTD (#706) were launched. Subsequently, some short tracks were mapped (#707). Shortly before midnight we left Kapp Ruben to move towards north off Lågøya to a new geologic station. This area was explored by multibeam (#708), followed by a CTD profile (#709-1). Because of the pebbly seafloor, only the box-corer was applied (#709-2).

Thursday, 10.08.2006

Back at Kapp Ruben we continued with the multibeam mapping until the morning (#710). After breakfast a new JAGO dive (#711) explored another steep slope off Kapp Ruben, followed by a further light measurement (#712). Further areas between Nordkapp and Kapp Ruben were mapped (#713) in the afternoon. The 15th submersible dive (#714) started to quite shallow waters very close to the coast in the evening. Shortly before midnight, we reached Kapp Wrede, starting there with a CTD

profile (#715). The subsequent multibeam mapping (#716) offered a potential core station.

Friday, 11.08.06

Exactly at midnight this geologic station was investigated by box-corer and gravity-corer (#717). Hereafter we passed to Duvefjorden. There, a polar-historic excavation-team went ashore at Dokken (#718). At the same time the inner area of Duvefjorden was surveyed by multibeam (#719) and then sampled by CTD, box-corer, gravity-corer with a 9 m-barrel as well as 3 Van Veen grabs (#720). A detailed grid of the fjord at Dokken was mapped subsequently (#721) and the photo sledge (#722) was used. While heading towards 81°N we celebrated a joint barbeque with scientists and crew.

Saturday, 12.08.06

We reached 81°N at midnight, where a CTD (#723) on the open shelf north of the Nordkapp was launched. A CTD station (#724) at Nordenskjöldbukta was followed by multibeam (#725), box-corer and gravity-corer sampling (#726) in the outer Duvefjorden. After lunch at Sjuøyane northwest of the Seven Islands, a core station was surveyed with multibeam (#727), box-corer and gravity-corer (#728) before leaving in direction Hinlopenstretet and Lomfjorden.

Sunday, 13.08.06

Short after midnight the CTD (#729) was launched in the central Hinlopenstretet in Lomfjorden and a multibeam grid (#730) was mapped. The scientific programme for this morning started with a JAGO dive (#731) within the mapped area, followed by light measurements (#732), CTD (#733), a dredge (#734) and photo sledge (#735). Afterwards a further core station was surveyed with the approved methods such as multibeam (#736), box-corer, gravity-corer and Van Veen grabs (#737). In the evening we passed to Wahlbergfjorden with further multibeam mapping (#738), a CTD station and the geological standard programme (box-corer, gravity corer; #739).

Monday, 14.08.06

Back in Hinlopenstretet a submarine cliff was mapped (#740) near Fosteroyane. A JAGO dive (#741) had to be aborted after short time because of too strong currents. Instead light measurements (#742) and photo sledge (#743) were successful. We cruised on to the southern Hinlopenstretet. Near Perthesoya some Van Veen grabs were taken as well as a CTD (#744) profile was logged. In the evening, we made a short excursion to the very spectacular Brasvell glacier front, which is part of the huge Austfonna glacier of Nordaustlandet. In the late evening with the aid of multibeam (#745) we designated a scientific station for CTD, box-corer, gravity-corer and some Van Veen grabs (#746) in the Eriksenstretet. Here, the gravity-corer broke into parts and there was no chance to repair it on board.

Tuesday, 15.08.06

Short after midnight we reached the Barents Sea with some further Van Veen grabs and CTD stations (#747) in the eastern Eriksenstretet as well as near the Kong Karls Islands (#748-749). In the afternoon we reached our last geologic station on this cruise in the Olgastretet with a CTD transect, box-corer sampler as well as Van Veen grabs (#750), before starting the long transit to the Hornsund.

Wednesday, 16.08.06

Short before lunch, the Hornsund was reached. First, a CTD profile (#751) was logged. Near Höferpynten the area was mapped by multibeam (#752), followed by a submersible dive (#753). Finally, the last light measurements (#754) and photo sledge (#755) were carried out. At the same time, another group went ashore to explore the glacier Hansbreen. In the evening, we visited the glaciers at the end of the Hornsund and then steamed back in direction to Isfjorden.

Thursday, 17.08.06

We reached Floskjeret in Isfjorden after breakfast and mapped this area by multibeam (#756). With our 19th JAGO dive (#757) we concluded our station work on this cruise and reached Longyearbyen safely early in the evening.

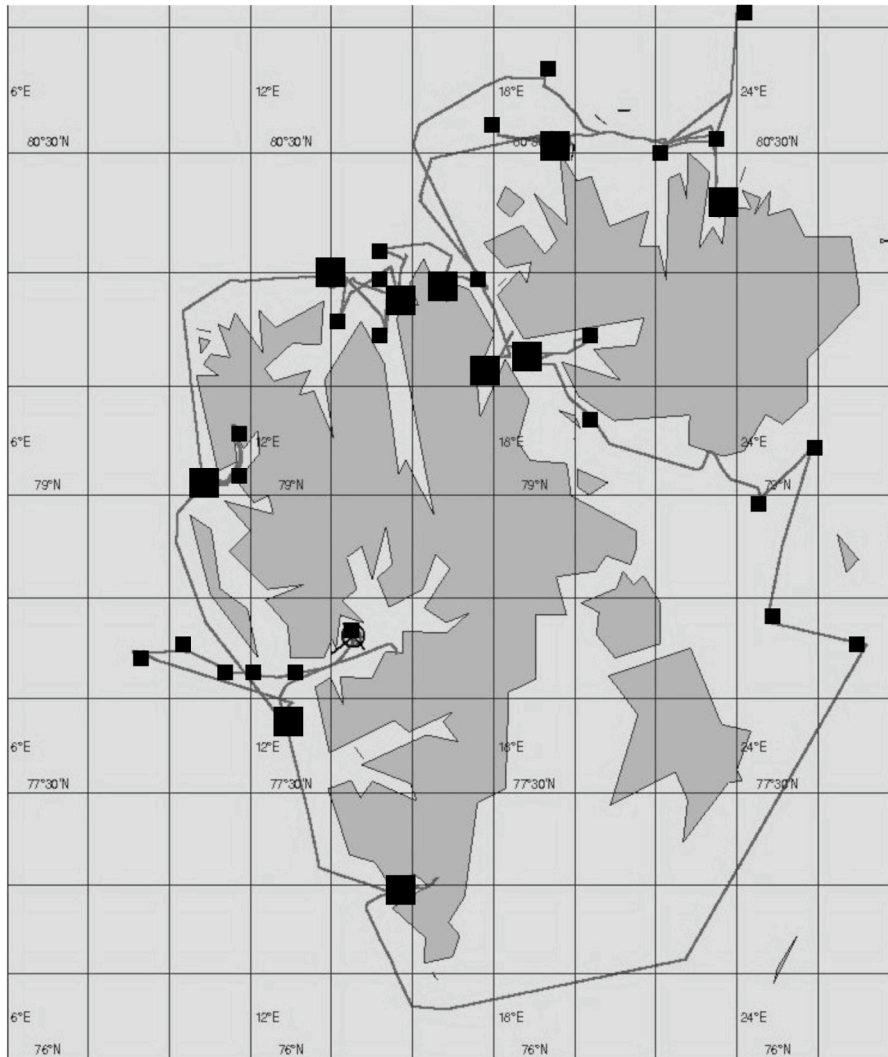


Figure 1: Track map of Maria S. Merian Cruise MSM2/3
 Large boxes indicate major study sites where all gear was applied. Small boxes indicate single gear stations such as CTD, gravity-/box-corer.

Station list and list of employed gear

- **CTD** (Conductivity, Temperature and Depth sensors)
- **MB** (Multibeam)
- **GKG** (Box-corer sampler)
- **SL** (Gravity-corer)
- **BG** (Van Veen grab)
- **LS** (Underwater light level measurements)
- **JAGO** (Manned research submersible)
- **DRG** (Dredges)
- **FS** (photo sledge)

Station list: see overleaf

Station list Maria S. MERIAN No. 2 Leg 3

Station No.	Gear	No.	Location	Date	Start Time (UTC)	Coordinates			at bottom Time (UTC)	Coordinates			end stat. Time (UTC)	Coordinates		
						Lat. °N	Long. °E	Depth (m)		Lat. °N	Long. °E	Depth (m)		Lat. °N	Long. °E	Depth (m)
616	CTD	1	Isfjorden	31.07.2006	10:18	78° 09,29'	13° 50,05'	424	10:48	78° 09,29'	13° 50,05'	417	10:55	78° 09,29'	13° 50,05'	424
617	CTD	2	Isfjorden	31.07.2006	12:58	78° 06,32'	12° 42,30'	253	13:19	78° 06,32'	12° 42,30'	245	13:30	78° 06,32'	12° 42,30'	253
618	CTD	3	Isfjorden	31.07.2006	16:24	78° 07,51'	11° 33,17'	261	16:40	78° 07,51'	11° 33,17'	249	16:57	78° 07,51'	11° 33,17'	261
619	CTD	4	Isfjorden	31.07.2006	20:03	78° 13,99'	10° 30,04'	288	20:20	78° 13,99'	10° 30,04'	282	20:31	78° 13,99'	10° 30,04'	288
620	CTD	5	Isfjorden	31.07.2006	22:05	78° 13,99'	09° 21,02'	476	22:25	78° 14,04'	09° 21,02'	465	22:39	78° 14,05'	09° 21,58'	461
621	CTD	6	Isfjorden	31.07.2006	23:21	78° 14,03'	09° 05,47'	968	0:02	78° 14,25'	09° 06,01'	944	0:30	78° 14,33'	09° 06,95'	928
622-1	MB	1	Sentinellefaklet	01.08.2006	4:43	77° 58,62'	12° 59,30'	150					5:47	77° 52,68'	12° 42,59'	40
622-2	MB	1	Sentinellefaklet	01.08.2006	5:57	77° 52,70'	12° 42,80'	40					6:55	77° 58,62'	13° 00,82'	149
623-1	GKG	1	Sentinellefaklet	01.08.2006	7:22	77° 58,36'	12° 59,48'	146	7:28	77° 58,36'	12° 59,48'	146	7:32	77° 58,36'	12° 59,48'	146
623-2	GKG	2	Sentinellefaklet	01.08.2006	7:33	77° 58,36'	12° 59,48'	146	7:36	77° 58,36'	12° 59,48'	146	7:54	77° 58,36'	12° 59,48'	146
623-3	SL	1	Sentinellefaklet	01.08.2006	8:17	77° 58,36'	12° 59,47'	146	8:20	77° 58,36'	12° 59,47'	146	8:36	77° 58,36'	12° 59,47'	146
624	BG	1	Sentinellefaklet	01.08.2006	9:12	77° 57,43'	12° 56,55'	131	9:21	77° 57,43'	12° 56,55'	130	9:27	77° 57,43'	12° 56,56'	131
625	BG	2	Sentinellefaklet	01.08.2006	10:01	77° 56,95'	12° 55,64'	124	10:07	77° 56,95'	12° 55,64'	124	10:13	77° 56,95'	12° 55,64'	124
626-1	BG	3	Sentinellefaklet	01.08.2006	10:36	77° 56,35'	12° 53,78'	37	10:40	77° 56,35'	12° 53,77'	37	10:44	77° 56,35'	12° 53,77'	37
626-2	BG	4	Sentinellefaklet	01.08.2006	10:45	77° 56,35'	12° 53,77'	37	10:47	77° 56,35'	12° 53,77'	37	10:51	77° 56,35'	12° 53,77'	37
627-1	BG	5	Sentinellefaklet	01.08.2006	11:13	77° 55,72'	12° 51,78'	33	11:16	77° 55,72'	12° 51,77'	33	11:19	77° 55,72'	12° 51,77'	33
627-2	BG	6	Sentinellefaklet	01.08.2006	11:22	77° 55,72'	12° 51,77'	33	11:26	77° 55,72'	12° 51,77'	33	11:28	77° 55,72'	12° 51,77'	33
627-3	BG	7	Sentinellefaklet	01.08.2006	11:29	77° 55,72'	12° 51,77'	33	11:31	77° 55,72'	12° 51,77'	33	11:34	77° 55,72'	12° 51,77'	33
627-4	BG	8	Sentinellefaklet	01.08.2006	11:35	77° 55,72'	12° 51,77'	33	11:37	77° 55,72'	12° 51,77'	33	11:40	77° 55,71'	12° 51,77'	33
628	BG	9	Sentinellefaklet	01.08.2006	12:05	77° 54,93'	12° 49,49'	31	12:07	77° 54,93'	12° 49,49'	31	12:09	77° 54,93'	12° 49,49'	31
629	BG	10	Sentinellefaklet	01.08.2006	12:39	77° 53,37'	12° 45,22'	38	12:42	77° 53,37'	12° 45,23'	38	12:45	77° 53,37'	12° 45,22'	38
630	LS	1	Sentinellefaklet	01.08.2006	15:05	77° 53,06'	12° 47,56'	36					15:32	77° 53,19'	12° 46,96'	34
631	ROV	1	Sentinellefaklet	01.08.2006	16:07	77° 53,37'	12° 45,22'	39					16:15	77° 53,37'	12° 45,22'	39
632	CTD	7	Mitragrunnen	01.08.2006	23:36	79° 02,37'	10° 46,99'	340	23:59	79° 02,37'	10° 46,99'	332	0:09	79° 02,37'	10° 46,99'	340
633-1	MB	2	Mitragrunnen / Outa Kongsfjorden	02.08.2006	0:45	79° 02,65'	10° 45,57'	341					1:11	79° 05,80'	10° 43,26'	42
633-2	MB	2	Mitragrunnen / Outa Kongsfjorden	02.08.2006	1:17	79° 05,77'	10° 44,31'	49					1:46	79° 02,70'	10° 50,48'	332
633-3	MB	2	Mitragrunnen	02.08.2006	2:01	79° 02,96'	10° 54,97'	350					2:30	79° 05,79'	10° 44,91'	46
633-4	MB	2	Mitragrunnen	02.08.2006	2:35	79° 05,79'	10° 45,88'	53					3:06	79° 03,42'	10° 59,14'	308
633-5	MB	2	Mitragrunnen	02.08.2006	3:18	79° 04,22'	11° 01,06'	184					3:46	79° 05,86'	10° 46,47'	46
633-6	MB	2	Mitragrunnen	02.08.2006	3:52	79° 05,91'	10° 47,86'	53					4:17	79° 04,81'	11° 03,29'	110
633-7	MB	2	Mitragrunnen	02.08.2006	4:26	79° 05,30'	11° 04,03'	94					4:54	79° 06,03'	10° 48,37'	43
633-8	MB	2	Mitragrunnen	02.08.2006	5:01	79° 06,16'	10° 50,65'	n.d.					5:21	79° 05,69'	11° 03,93'	93
633-9	MB	2	Mitragrunnen	02.08.2006	5:28	79° 06,08'	11° 03,37'	115					6:05	79° 06,42'	10° 42,34'	36
633-10	MB	2	Mitragrunnen	02.08.2006	6:05	79° 06,42'	10° 42,34'	36					6:38	79° 06,37'	11° 03,68'	130
634	JAGO	1	Mitragrunnen	02.08.2006	8:19	79° 04,50'	10° 47,20'	261	8:38	79° 04,54'	10° 46,94'	250	10:49	79° 04,99'	10° 47,65'	140
635-1	GKG	3	Mitragrunnen	02.08.2006	12:20	79° 03,20'	10° 54,00'	347	12:28	79° 03,20'	10° 54,00'	348	12:41	79° 03,21'	10° 54,00'	348
635-2	SL	2	Mitragrunnen	02.08.2006	13:06	79° 03,20'	10° 54,00'	349	13:12	79° 03,20'	10° 54,00'	349	13:30	79° 03,20'	10° 54,00'	350
636	DRG	1	Mitragrunnen	02.08.2006	14:17	79° 05,37'	10° 47,22'	99	14:22	79° 05,37'	10° 47,22'	99	15:05	79° 05,69'	10° 49,44'	100
637	DRG	2	Mitragrunnen	02.08.2006	15:34	79° 05,94'	10° 48,21'	51	15:40	79° 05,91'	10° 47,64'	49	16:11	79° 05,84'	10° 46,36'	49
638-1	MB	3	Mitragrunnen	02.08.2006	17:27	79° 04,66'	10° 43,61'	213					19:53	79° 05,92'	10° 52,50'	136
638-2	MB	3	Mitragrunnen	02.08.2006	20:28	79° 05,11'	10° 56,19'	127					21:35	79° 04,23'	11° 25,67'	
639	MB	4	Kongsfjorden / Krossfjorden	02.08.2006	21:35	79° 04,23'	11° 25,67'						8:00	79° 05,69'	10° 46,84'	70
640	CTD	8	Krossfjorden / Lilliehöökfjorden	02.08.2006	23:56	79° 18,32'	11° 36,69'	132	0:13	79° 18,32'	11° 36,69'	132	0:21	79° 18,32'	11° 36,69'	132
641	CTD	9	Krossfjorden / Lilliehöökfjorden	03.08.2006	1:32	79° 12,99'	11° 44,48'	243	1:37	79° 12,99'	11° 44,48'	232	1:46	79° 12,99'	11° 44,48'	243
642	CTD	10	Krossfjorden / Lilliehöökfjorden	03.08.2006	2:36	79° 09,10'	11° 46,73'	350	2:56	79° 09,10'	11° 46,73'	341	3:10	79° 09,10'	11° 46,73'	350
643	CTD	11	Krossfjorden / Lilliehöökfjorden	03.08.2006	4:05	79° 05,55'	11° 34,30'	283	4:23	79° 05,55'	11° 34,30'	279	4:33	79° 05,54'	11° 34,30'	284
644	JAGO	2	Mitragrunnen	03.08.2006	6:39	79° 05,70'	10° 46,74'	71	6:43	79° 05,76'	10° 46,29'	60	9:29	79° 05,95'	10° 45,61'	41
645-1	SL	3	Mitragrunnen	03.08.2006	10:53	79° 03,21'	10° 54,01'	348	11:00	79° 03,21'	10° 54,01'	348	11:14	79° 03,21'	10° 54,01'	348

Station list Maria S. MERIAN No. 2 Leg 3

Station No.	Gear	No.	Location	Date	Start	Coordinates			at bottom	Coordinates			end stat.	Coordinates		
					Time (UTC)	Lat. °N	Long. °E	Depth (m)	Time (UTC)	Lat. °N	Long. °E	Depth (m)	Time (UTC)	Lat. °N	Long. °E	Depth (m)
646-1	GKG	4	Krossfjorden	03.08.2006	14:24	79° 09,30'	11° 43,60'	352	14:32	79° 09,30'	11° 43,60'	352	14:44	79° 09,30'	11° 43,60'	352
646-2	SL	4	Krossfjorden	03.08.2006	15:09	79° 09,30'	11° 43,60'	352	15:16	79° 09,30'	11° 43,60'	352	15:28	79° 09,30'	11° 43,60'	352
647	JAGO	3	Lilliehöökfjorden - glacier slope	03.08.2006	18:14	79° 19,37'	11° 37,49'		19:09	79° 19,37'	11° 37,49'	39	20:06	79° 19,36'	11° 37,03'	
648-1	GKG	5	Lilliehöökfjorden	03.08.2006	22:10	79° 17,48'	11° 37,62'	217	22:16	79° 17,48'	11° 37,62'	217	22:25	79° 17,48'	11° 37,61'	217
648-2	SL	5	Lilliehöökfjorden	03.08.2006	22:42	79° 17,48'	11° 37,62'	217	22:52	79° 17,48'	11° 37,62'	217	23:10	79° 17,48'	11° 37,62'	217
649-1	GKG	6	Lilliehöökfjorden	04.08.2006	0:06	79° 13,20'	11° 43,20'	272	0:12	79° 13,20'	11° 43,20'	272	0:22	79° 13,20'	11° 43,20'	272
649-2	SL	6	Lilliehöökfjorden	04.08.2006	0:35	79° 13,20'	11° 43,20'	272	0:44	79° 13,20'	11° 43,20'	272	0:58	79° 13,20'	11° 43,20'	272
650	ROV	2	Lilliehöökfjorden	04.08.2006	1:14	79° 13,20'	11° 43,20'	272					1:32	79° 13,20'	11° 43,20'	272
651	MB	5	Mitragrunnen	04.08.2006	1:46	79° 12,87'	11° 44,37'	234					5:40	79° 03,64'	11° 14,86'	106
652	JAGO	4	Krossfjorden - entrance, Kapp Mitra	04.08.2006	6:56	79° 03,52'	11° 14,05'	99	7:02	79° 03,71'	11° 13,75'	92	9:29	79° 04,35'	11° 14,43'	47
653	FS	1	Mitragrunnen	04.08.2006	11:35	79° 05,94'	10° 45,63'	40	11:40	79° 05,94'	10° 45,63'	41	12:30	79° 05,70'	10° 46,85'	72
654	LS	2	Mitragrunnen	04.08.2006	12:56	79° 05,45'	10° 48,20'	95								
655	CTD	12	Moffen	04.08.2006	20:21	79° 59,01'	13° 44,91'	156	20:34	79° 59,01'	13° 44,91'	147	20:52	79° 59,01'	13° 44,91'	156
656	MB	6	Moffen	04.08.2006	22:11	79° 58,10'	13° 51,57'	128					6:10	79° 59,11'	14° 10,50'	78
657	JAGO	5	Moffen	05.08.2006	6:49	79° 59,12'	14° 10,73'	77	6:56	79° 59,09'	14° 10,56'	75	10:31	79° 53,69'	14° 13,40'	43
658	LS	3	Moffen	05.08.2006	8:20	79° 59,37'	14° 11,78'	60					9:00	79° 59,46'	14° 13,05'	48
659-1	GKG	7	Moffen	05.08.2006	11:30	79° 58,80'	14° 03,00'	112	11:33	79° 58,80'	14° 03,00'	112	11:39	79° 58,80'	14° 03,00'	112
660	FS	2	Moffen	05.08.2006	12:48	79° 59,52'	14° 13,97'	39	12:53	79° 59,52'	14° 13,96'	40	13:29	79° 59,46'	14° 13,33'	48
661	DRG	3	Moffen	05.08.2006	13:50	79° 59,08'	14° 16,37'	41	14:00	79° 59,10'	14° 16,32'	40	14:33	79° 59,45'	14° 14,07'	40
662-1	BG	7	Moffen	05.08.2006	14:49	79° 59,49'	14° 13,92'	40	14:52	79° 59,49'	14° 13,92'	40	14:54	79° 59,49'	14° 13,92'	40
662-2	BG	8	Moffen	05.08.2006	14:57	79° 59,49'	14° 13,93'	40	15:00	79° 59,49'	14° 13,92'	40	15:04	79° 59,49'	14° 13,92'	40
663-1	BG	9	Moffen	05.08.2006	15:32	79° 59,17'	14° 10,97'	69	15:37	79° 59,17'	14° 10,97'	69	15:42	79° 59,17'	14° 10,97'	70
663-2	BG	10	Moffen	05.08.2006	15:42	79° 59,17'	14° 10,97'	69	15:46	79° 59,17'	14° 10,97'	69	15:49	79° 59,17'	14° 10,97'	69
664	MB	7	Moffen	05.08.2006	16:16	79° 58,12'	14° 19,40'	42					19:30	79° 57,77'	14° 19,40'	58
665	MB	8	Moffen - Woodfjorden	05.08.2006	20:16	79° 49,50'	14° 13,54'	131					20:47	79° 45,99'	14° 07,13'	190
666-1	GKG	8	Woodfjorden	05.08.2006	21:19	79° 48,00'	14° 12,00'	171	21:23	79° 48,00'	14° 12,00'	171	21:35	79° 48,00'	14° 12,00'	171
666-2	SL	6	Woodfjorden	05.08.2006	21:50	79° 48,00'	14° 12,00'	171	21:54	79° 48,00'	14° 12,00'	171	22:07	79° 48,00'	14° 12,00'	171
666-3	CTD	14	Woodfjorden	05.08.2006	22:22	79° 48,00'	14° 11,98'	171	22:36	79° 48,00'	14° 11,98'	164	22:50	79° 48,00'	14° 11,98'	171
666-4	SL	7	Woodfjorden	05.08.2006	22:53	79° 48,00'	14° 12,00'	171	22:57	79° 48,00'	14° 12,00'	171	23:15	79° 48,00'	14° 12,00'	171
667	CTD	15	Woodfjorden	06.08.2006	0:09	79° 54,59'	14° 27,58'	143	0:22	79° 54,58'	14° 27,57'	132	0:30	79° 54,58'	14° 27,57'	143
668	CTD	16	Woodfjorden	06.08.2006	1:47	80° 01,19'	15° 26,50'	160	2:00	80° 01,24'	15° 27,23'	147	2:15	80° 01,24'	15° 27,34'	162
669	CTD	17	Woodfjorden	06.08.2006	3:51	79° 55,55'	15° 35,29'	156	4:03	79° 55,55'	15° 35,28'	156	4:08	79° 55,55'	15° 35,28'	156
670	MB	9	Mosselbukta	06.08.2006	6:28	79° 54,20'	15° 44,91'	81					10:33	79° 53,40'	15° 45,88'	42
671	JAGO	6	Mosselbukta	06.08.2006	11:40	79° 54,64'	15° 48,62'	44	13:53	79° 54,62'	15° 48,67'	42	14:09	79° 54,51'	15° 50,23'	27
672	LS	4	Mosselbukta	06.08.2006	11:40	79° 54,57'	15° 49,72'	44					13:00	79° 54,57'	15° 49,72'	44
673-1	GKG	9	Wijdefjorden	06.08.2006	17:11	79° 46,82'	15° 21,47'	152	17:15	79° 46,82'	15° 21,47'	152	17:23	79° 46,82'	15° 21,48'	152
673-2	SL	7	Wijdefjorden	06.08.2006	17:38	79° 46,82'	15° 21,48'	152	17:43	79° 46,82'	15° 21,48'	152	17:51	79° 46,82'	15° 21,48'	152
674	FS	3	Mosselbukta	06.08.2006	19:34	79° 54,59'	15° 48,90'	40	19:45	79° 54,59'	15° 48,91'	40	20:25	79° 54,64'	15° 48,05'	51
675	DRG	4	Mosselbukta	06.08.2006	20:57	79° 54,21'	15° 46,94'	61	21:10	79° 54,21'	15° 46,94'	62	21:59	79° 53,52'	15° 44,89'	72
676	BG	11	Mosselbukta	06.08.2006	22:29	79° 53,67'	15° 43,00'	102	22:32	79° 53,67'	15° 42,99'	102	22:36	79° 53,67'	15° 42,99'	102
677	BG	12	Mosselbukta	06.08.2006	22:55	79° 53,50'	15° 40,02'	149	23:01	79° 53,50'	15° 40,02'	149	23:06	79° 53,50'	15° 40,02'	149
678	MB	10	Moffen	07.08.2006	0:53	79° 58,23'	14° 19,42'						4:15	79° 58,34'	14° 20,27'	
679	CTD	18	Wijdefjorden	07.08.2006	5:47	79° 45,02'	15° 20,07'	135	5:59	79° 45,02'	15° 20,07'	127	6:06	79° 45,02'	15° 20,07'	135
680	JAGO	7	Mosselbukta	07.08.2006	7:53	79° 53,85'	15° 42,18'	101	8:07	79° 53,86'	15° 42,86'	127	8:53	79° 53,84'	15° 41,68'	20
681	JAGO	8	Mosselbukta	07.08.2006	10:42	79° 54,38'	15° 47,92'	41	10:58	79° 54,47'	15° 47,71'	46	11:36	79° 54,35'	15° 47,85'	41
682	JAGO	9	Mosselbukta	07.08.2006	12:36	79° 54,51'	15° 49,12'	32	12:58	79° 54,54'	15° 54,73'	10	13:05	79° 54,43'	15° 54,90'	10
683	MB	11	Outer Wijdefjorden	07.08.2006	14:10	79° 48,50'	15° 20,04'	140					14:36	79° 45,00'	15° 20,01'	135
684	JAGO	10	Mosselbukta	07.08.2006	16:43	79° 53,72'	15° 44,75'	80	16:47	79° 53,68'	15° 44,57'	78	19:24	79° 53,54'	15° 46,58'	44

Station list Maria S. MERIAN No. 2 Leg 3

Station No.	Gear	No.	Location	Date	Start	Coordinates			at bottom	Coordinates			end stat.	Coordinates		
					Time (UTC)	Lat. °N	Long. °E	Depth (m)	Time (UTC)	Lat. °N	Long. °E	Depth (m)	Time (UTC)	Lat. °N	Long. °E	Depth (m)
685	LS	5	Mosselbukta	07.08.2006	16:55	79° 53,73'	15° 44,62'	79				17:34	79° 53,61'	15° 45,65'	61	
686	MB	12	Outer Wijdefjorden	07.08.2006	20:38	80° 01,35'	15° 43,90'	155				21:00	80° 03,80'	15° 50,27'	216	
687-1	GKG	10	Outer Wijdefjorden	07.08.2006	21:30	80° 03,05'	15° 48,09'	223	21:36	80° 03,05'	15° 48,01'	222	21:45	80° 03,06'	15° 47,94'	221
687-2	SL	8	Outer Wijdefjorden	07.08.2006	22:00	80° 03,04'	15° 47,69'	225	22:06	80° 03,04'	15° 47,55'	228	22:17	80° 03,06'	15° 47,23'	229
687-3	CTD	19	Outer Wijdefjorden	07.08.2006	22:45	80° 03,05'	15° 47,61'	228	23:01	80° 03,13'	15° 47,17'	219	23:15	80° 03,17'	15° 47,21'	226
688	CTD	20	Outer Wijdefjorden	08.08.2006	0:01	80° 06,15'	15° 10,79'	150	0:14	80° 06,04'	15° 10,23'	142	0:21	80° 06,02'	15° 10,22'	148
689	CTD	21	Outer Wijdefjorden	08.08.2006	2:19	80° 04,16'	16° 57,69'	299	2:36	80° 04,11'	16° 57,72'	291	2:51	80° 04,07'	16° 57,59'	295
690	MB	13	Sorgfjorden	08.08.2006	3:34	79° 58,65'	16° 47,90'	75					6:50	79° 57,13'	16° 48,54'	94
691	MB	14	Sorgfjorden	08.08.2006	6:51	79° 57,13'	16° 48,54'	90					10:55	79° 54,89'	16° 42,31'	100
692	JAGO	11	Sorgfjorden	08.08.2006	11:48	79° 55,05'	16° 42,81'	94	11:52	79° 55,09'	16° 42,79'	88	14:24	79° 55,07'	16° 42,54'	94
693	LS	6	Sorgfjorden	08.08.2006	14:49	79° 55,04'	16° 42,83'	94					15:04	79° 55,04'	16° 42,83'	94
694	CTD	22	Sorgfjorden	08.08.2006	15:59	79° 54,28'	16° 48,95'	53	16:03	79° 54,12'	16° 48,95'	45	16:08	79° 54,28'	16° 48,95'	53
695	MB	15	Hinlopenstretet	08.08.2006	17:54	79° 56,01'	17° 50,74'	410					18:20	79° 58,50'	17° 42,84'	384
696-1	GKG	11	Inner Hinlopenstretet	08.08.2006	18:41	79° 58,02'	17° 44,56'	384	18:50	79° 58,02'	17° 44,56'	384	19:02	79° 58,02'	17° 44,56'	384
696-2	SL	9	Inner Hinlopenstretet	08.08.2006	19:16	79° 58,02'	17° 44,56'	384	19:22	79° 58,02'	17° 44,56'	384	19:57	79° 58,02'	17° 44,56'	384
696-3	CTD	23	Inner Hinlopenstretet	08.08.2006	20:07	79° 58,07'	17° 44,57'	384	20:29	79° 58,08'	17° 44,57'	376	20:40	79° 58,07'	17° 44,57'	384
696-4	BG	13	Inner Hinlopenstretet	08.08.2006	20:58	79° 58,02'	17° 44,55'	384	21:08	79° 58,02'	17° 44,55'	384	21:16	79° 58,02'	17° 44,55'	384
696-5	BG	14	Inner Hinlopenstretet	08.08.2006	21:21	79° 58,02'	17° 44,55'	384	21:31	79° 58,02'	17° 44,55'	384	21:39	79° 58,02'	17° 44,55'	384
696-6	BG	15	Inner Hinlopenstretet	08.08.2006	21:43	79° 58,02'	17° 44,55'	384	21:52	79° 58,02'	17° 44,55'	384	22:01	79° 58,02'	17° 44,54'	384
696-7	SL	10	Inner Hinlopenstretet	08.08.2006	22:17	79° 58,02'	17° 44,54'	384	22:25	79° 58,02'	17° 44,54'	384	22:41	79° 58,02'	17° 44,54'	384
697	MB	16	Outer Hinlopenstretet	09.08.2006	1:03	80° 18,12'	16° 11,86'	345					1:24	80° 20,24'	16° 14,00'	374
698-1	GKG	12	Outer Hinlopenstretet	09.08.2006	1:46	80° 19,20'	16° 11,88'	353	1:54	80° 19,19'	16° 11,68'	353	2:05	80° 19,19'	16° 11,44'	353
698-2	SL	11	Outer Hinlopenstretet	09.08.2006	2:22	80° 19,13'	16° 11,02'	352	2:30	80° 19,15'	16° 11,09'	352	2:50	80° 19,13'	16° 10,91'	353
698-3	CTD	24	Outer Hinlopenstretet	09.08.2006	2:59	80° 19,14'	16° 10,91'	352	3:19	80° 19,19'	16° 10,90'	345	3:30	80° 19,21'	16° 10,85'	353
699	CTD	25	Kapp Rubin	09.08.2006	6:59	80° 35,00'	19° 27,84'	144	7:09	80° 35,01'	19° 27,62'	142	7:15	80° 35,03'	19° 27,48'	144
700	MB	17	Kapp Rubin	09.08.2006	7:59	80° 31,62'	19° 39,45'						11:34	80° 31,00'	19° 44,09'	41
701	JAGO	12	Kapp Rubin	09.08.2006	12:08	80° 31,99'	19° 50,62'	73	12:15	80° 32,01'	19° 50,77'	78	15:24	80° 31,95'	19° 51,30'	30
702	LS	7	Kapp Rubin	09.08.2006	12:28	80° 32,04'	19° 50,74'	94					12:46	80° 32,00'	19° 50,74'	75
703	JAGO	13	Kapp Rubin	09.08.2006	15:57	80° 31,93'	19° 50,68'	57	15:59	80° 31,77'	19° 48,70'	99	16:43	80° 31,77'	19° 48,42'	95
704-1	DRG	5	Kapp Rubin	09.08.2006	17:32	80° 31,24'	19° 44,32'	47	17:34	80° 31,23'	19° 44,15'	46	17:40	80° 31,27'	19° 43,84'	46
704-2	DRG	6	Kapp Rubin	09.08.2006	18:07	80° 31,22'	19° 44,27'	45	18:12	80° 31,22'	19° 44,23'	45	18:29	80° 31,44'	19° 43,02'	44
705	FS	4	Kapp Rubin	09.08.2006	19:08	80° 32,03'	19° 50,76'	81	19:17	80° 32,05'	19° 50,75'	87	19:47	80° 31,99'	19° 51,40'	27
706	CTD	26	Kapp Rubin	09.08.2006	20:05	80° 32,01'	19° 50,77'	71	20:17	80° 32,02'	19° 50,78'	62	20:22	80° 32,02'	19° 50,77'	81
707	MB	18	Kapp Rubin	09.08.2006	20:39	80° 31,76'	19° 49,34'	87					21:16	80° 32,23'	19° 36,74'	84
708	MB	19	offshore Kapp Rubin	09.08.2006	22:14	80° 33,89'	18° 27,07'	121					22:48	80° 34,36'	18° 06,29'	134
709-1	CTD	27	North off Lågøya	09.08.2006	23:16	80° 34,32'	18° 12,49'	149	23:29	80° 34,26'	18° 12,35'	144	23:34	80° 34,25'	18° 12,31'	149
709-2	GKG	13	North off Lågøya	09.08.2006	23:45	80° 34,28'	18° 12,59'	150	23:49	80° 34,28'	18° 12,57'	150	23:56	80° 34,26'	18° 12,44'	149
710	MB	20	Kapp Rubin	10.08.2006	1:54	80° 31,72'	19° 39,79'	69					7:55	80° 31,83'	19° 39,40'	41
711	JAGO	14	Kapp Rubin	10.08.2006	8:56	80° 31,80'	19° 40,67'	72	9:03	80° 31,76'	19° 40,04'	70	11:54	80° 31,86'	19° 41,47'	30
712	LS	8	Kapp Rubin	10.08.2006	9:02	80° 31,81'	19° 40,63'	68					9:22	80° 31,77'	19° 40,32'	69
713	MB	21	Kapp Rubin	10.08.2006	12:36	80° 32,09'	19° 43,49'	112					16:16	80° 31,76'	19° 44,06'	60
714	JAGO	15	Kapp Rubin	10.08.2006	17:02	80° 32,19'	19° 50,40'		18:15	80° 31,51'	19° 52,15'	27	18:56	80° 31,51'	19° 52,28'	
715	CTD	28	Kapp Wrede	10.08.2006	22:10	80° 33,27'	22° 12,99'	228	22:25	80° 33,25'	22° 13,29'	218	22:35	80° 33,24'	22° 13,47'	226
716	MB	22	Kapp Wrede	10.08.2006	22:52	80° 33,19'	22° 13,79'	225					23:43	80° 31,34'	22° 10,89'	265
717-1	GKG	14	Kapp Wrede	11.08.2006	0:00	80° 31,28'	22° 13,23'	218	0:06	80° 31,29'	22° 13,21'	217	0:15	80° 31,30'	22° 13,17'	214
717-2	SL	12	Kapp Wrede	11.08.2006	0:39	80° 31,33'	22° 13,05'	215	0:43	80° 31,32'	22° 13,04'	212	0:53	80° 31,31'	22° 13,00'	211
718	Excavation *	1	Duvefjorden	11.08.2006	7:24	80° 14,83'	23° 31,58'						14:28	80° 15,44'	23° 33,72'	
719	MB	23	Duvefjorden	11.08.2006	7:38	80° 16,06'	23° 24,65'	321					8:14	80° 19,10'	23° 25,68'	334

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Station No.	Gear	No.	Location	Date	Start	Coordinates			at bottom	Coordinates			end stat.	Coordinates		
					Time (UTC)	Lat. °N	Long. °E	Depth (m)	Time (UTC)	Lat. °N	Long. °E	Depth (m)	Time (UTC)	Lat. °N	Long. °E	Depth (m)
720-1	CTD	29	Duvefjorden	11.08.2006	8:20	80° 18,82'	23° 25,31'	321	8:39	80° 18,82'	23° 25,30'	312	8:50	80° 18,83'	23° 25,37'	323
720-2	GKG	15	Duvefjorden	11.08.2006	8:55	80° 18,77'	23° 25,26'	320	9:07	80° 18,66'	23° 25,06'	312	9:15	80° 18,70'	23° 25,21'	318
720-3	SL	13	Duvefjorden	11.08.2006	9:52	80° 18,89'	23° 25,91'	322	9:59	80° 18,91'	23° 26,03'	326	10:10	80° 18,89'	23° 25,91'	323
720-4	BG	16	Duvefjorden	11.08.2006	10:20	80° 18,93'	23° 25,14'	312	10:29	80° 18,94'	23° 25,19'	312	10:38	80° 18,90'	23° 25,25'	317
720-5	BG	17	Duvefjorden	11.08.2006	10:40	80° 18,82'	23° 25,25'	317	10:48	80° 18,84'	23° 25,27'	319	10:58	80° 18,80'	23° 25,46'	322
720-6	BG	18	Duvefjorden	11.08.2006	10:59	80° 18,79'	23° 25,50'	322	11:08	80° 18,73'	23° 25,68'	321	11:19	80° 18,67'	23° 25,96'	316
721	MB	24	Dokken	11.08.2006	11:52	80° 15,80'	23° 33,20'	41					13:33	80° 15,60'	23° 34,50'	56
722	FS	5	Duvefjorden	11.08.2006	14:02	80° 15,34'	23° 33,37'	55	14:05	80° 15,31'	23° 33,44'	48	14:57	80° 15,79'	23° 33,52'	51
723	CTD	30	Open shelf north off Nordkapp	11.08.2006	23:59	81° 02,98'	24° 00,10'	253	0:17	81° 02,91'	24° 00,25'	243	0:32	81° 02,87'	24° 00,45'	254
724	CTD	31	Nordenskiöldbukta	12.08.2006	6:01	80° 32,02'	22° 13,54'	233	6:15	80° 32,05'	22° 13,76'	223	6:24	80° 32,06'	22° 14,07'	234
725	MB	25	Outer Duvefjorden	12.08.2006	7:51	80° 36,40'	23° 21,40'	278					8:18	80° 33,62'	23° 25,71'	309
726-1	GKG	16	Outer Duvefjorden	12.08.2006	8:33	80° 34,52'	23° 25,92'	284	8:42	80° 34,52'	23° 26,01'	284	8:52	80° 34,53'	23° 26,17'	284
726-2	SL	14	Outer Duvefjorden	12.08.2006	9:04	80° 34,56'	23° 25,94'	284	9:10	80° 34,57'	23° 25,96'	284	9:26	80° 34,57'	23° 26,12'	283
727	MB	26	Sjuøyane (seven islands)	12.08.2006	14:01	80° 45,97'	19° 15,36'	134					14:32	80° 48,89'	19° 16,88'	145
728-1	GKG	17	Sjuøyane (seven islands)	12.08.2006	15:05	80° 47,98'	19° 15,15'	158	15:09	80° 47,98'	19° 15,22'	157	15:16	80° 47,98'	19° 15,28'	156
728-2	SL	15	Sjuøyane (seven islands)	12.08.2006	15:23	80° 47,97'	19° 15,06'	159	15:31	80° 47,97'	19° 15,26'	157	15:39	80° 47,96'	19° 15,61'	150
729	CTD	32	Lomfjorden	13.08.2006	0:28	79° 38,00'	18° 25,01'	339	0:44	79° 38,00'	18° 25,01'	339	1:03	79° 38,00'	18° 25,01'	339
730	MB	27	Lomfjorden	13.08.2006	2:05	79° 33,92'	17° 47,85'	122					6:02	79° 34,97'	17° 52,12'	86
731	JAGO	16	Lomfjorden	13.08.2006	6:55	79° 34,97'	17° 52,11'	87	6:58	79° 35,02'	17° 52,29'	75	9:34	79° 34,89'	17° 50,96'	38
732	LS	9	Lomfjorden	13.08.2006	7:10	79° 34,97'	17° 52,11'	87					7:32	79° 34,97'	17° 52,11'	86
733	CTD	33	Lomfjorden	13.08.2006	9:56	79° 35,51'	17° 48,01'	133	10:12	79° 34,51'	17° 48,01'	133	10:17	79° 34,51'	17° 48,01'	133
734	DRG	7	Lomfjorden	13.08.2006	10:45	79° 34,98'	17° 50,79'	42	10:59	79° 34,92'	17° 50,81'	48	11:14	79° 34,69'	17° 50,94'	50
735	FS	6	Lomfjorden	13.08.2006	11:53	79° 34,80'	17° 50,51'	54	11:56	79° 34,80'	17° 50,50'	54	12:40	79° 34,80'	17° 51,70'	65
736	MB	28	Lomfjorden	13.08.2006	12:52	79° 35,02'	17° 52,39'	85					14:30	79° 41,50'	18° 19,29'	426
737-1	GKG	18	Lomfjorden	13.08.2006	14:53	79° 41,02'	18° 18,06'	417	15:02	79° 41,01'	18° 18,07'	417	15:13	79° 41,01'	18° 18,07'	418
737-2	SL	16	Lomfjorden	13.08.2006	15:30	79° 41,01'	18° 18,07'	418	15:36	79° 41,01'	18° 18,07'	418	15:51	79° 41,01'	18° 18,07'	418
737-3	BG	19	Lomfjorden	13.08.2006	15:56	79° 41,01'	18° 18,07'	418	16:06	79° 41,01'	18° 18,07'	418	16:18	79° 41,02'	18° 18,07'	418
737-4	BG	20	Lomfjorden	13.08.2006	16:19	79° 41,02'	18° 18,07'	418	16:27	79° 41,02'	18° 18,07'	418	16:37	79° 41,02'	18° 18,07'	418
737-5	BG	21	Lomfjorden	13.08.2006	16:40	79° 41,02'	18° 18,07'	418	16:49	79° 41,02'	18° 18,07'	418	16:59	79° 41,02'	18° 18,07'	418
738	MB	29	Wahlbergfjorden	13.08.2006	18:56	79° 42,30'	20° 00,90'	154					19:43	79° 42,92'	20° 29,68'	220
739-1	CTD	34	Wahlbergfjorden	13.08.2006	20:10	79° 42,62'	20° 25,50'	216	20:23	79° 42,62'	20° 25,49'	208	20:30	79° 42,62'	20° 25,50'	217
739-2	GKG	19	Wahlbergfjorden	13.08.2006	20:33	79° 42,62'	20° 25,50'	216	20:42	79° 42,62'	20° 25,50'	216	20:50	79° 42,62'	20° 25,50'	217
739-3	SL	17	Wahlbergfjorden	13.08.2006	20:58	79° 42,62'	20° 25,49'	217	21:03	79° 42,62'	20° 25,50'	217	21:16	79° 42,62'	20° 25,50'	217
740	MB	30	Hinlopenstretet	13.08.2006	22:56	79° 36,17'	18° 51,71'	336					4:32	79° 34,78'	18° 55,24'	81
741	JAGO	17	Hinlopenstretet	14.08.2006	7:01	79° 36,03'	18° 52,04'	275	7:06	79° 36,03'	18° 52,23'	35	7:40	79° 35,85'	18° 51,34'	30
742	LS	10	Hinlopenstretet	14.08.2006	7:16	79° 36,03'	18° 52,05'	275					7:31	79° 35,90'	18° 52,17'	27
743	FS	7	Hinlopenstretet	14.08.2006	8:40	79° 35,80'	18° 52,20'	40	8:45	79° 35,80'	18° 52,20'	39	9:38	79° 36,00'	18° 51,80'	240
744-1	BG	22	Southern Hinlopenstretet	14.08.2006	12:59	79° 14,16'	20° 53,38'	79	13:07	79° 14,16'	20° 53,38'	79	13:13	79° 14,16'	20° 53,38'	79
744-2	BG	23	Southern Hinlopenstretet	14.08.2006	13:15	79° 14,16'	20° 53,37'	79	13:18	79° 14,16'	20° 53,37'	79	13:24	79° 14,16'	20° 53,33'	79
744-3	BG	24	Southern Hinlopenstretet	14.08.2006	13:25	79° 14,16'	20° 53,33'	79	13:29	79° 14,16'	20° 53,29'	79	13:34	79° 14,15'	20° 53,19'	79
744-4	CTD	35	Southern Hinlopenstretet	14.08.2006	14:05	79° 14,16'	20° 53,37'	79	14:13	79° 14,15'	20° 53,38'	71	14:17	79° 14,16'	20° 53,37'	79
745	MB	31	Eriksenstretet	14.08.2006	19:07	79° 01,80'	24° 31,67'	183					19:39	78° 57,90'	24° 37,60'	210
746-1	CTD	36	Eriksenstretet	14.08.2006	20:05	78° 59,21'	24° 35,86'	209	20:18	78° 59,21'	24° 35,84'	196	20:29	78° 59,21'	24° 35,83'	208
746-2	GKG	20	Eriksenstretet	14.08.2006	20:33	78° 59,21'	24° 35,83'	208	20:40	78° 59,21'	24° 35,83'	208	20:49	78° 59,21'	24° 35,83'	208
746-3	SL	18	Eriksenstretet	14.08.2006	20:58	78° 59,21'	24° 35,83'	208	21:03	78° 59,21'	24° 35,83'	208	21:23	78° 59,21'	24° 35,83'	208
746-4	BG	25	Eriksenstretet	14.08.2006	21:28	78° 59,21'	24° 35,83'	208	21:33	78° 59,21'	24° 35,83'	208	21:40	78° 59,21'	24° 35,83'	208
746-5	BG	26	Eriksenstretet	14.08.2006	21:41	78° 59,21'	24° 35,83'	208	21:46	78° 59,21'	24° 35,83'	208	21:51	78° 59,21'	24° 35,83'	208
746-6	BG	27	Eriksenstretet	14.08.2006	21:54	78° 59,21'	24° 35,83'	208	22:00	78° 59,21'	24° 35,83'	208	22:06	78° 59,21'	24° 35,83'	208

Station list Maria S. MERIAN No. 2 Leg 3

Station No.	Gear	No.	Location	Date	Start Time (UTC)	Coordinates			at bottom Time (UTC)	Coordinates			end stat. Time (UTC)	Coordinates		
						Lat. °N	Long. °E	Depth (m)		Lat. °N	Long. °E	Depth (m)		Lat. °N	Long. °E	Depth (m)
746-7	BG	28	Eriksenstretet	14.08.2006	22:09	78° 59,21'	24° 35,83'	208	22:13	78° 59,21'	24° 35,83'	208	22:20	78° 59,21'	24° 35,83'	208
747-1	BG	29	Barents Sea	15.08.2006	0:23	79° 13,10'	25° 51,28'	193	0:27	79° 13,10'	25° 51,27'	193	0:33	79° 13,10'	25° 51,28'	193
747-2	BG	30	Barents Sea	15.08.2006	0:36	79° 13,10'	25° 51,27'	193	0:41	79° 13,10'	25° 51,27'	193	0:46	79° 13,10'	25° 51,27'	193
747-3	BG	31	Barents Sea	15.08.2006	0:50	79° 13,10'	25° 51,27'	193	0:54	79° 13,10'	25° 51,28'	193	1:00	79° 13,10'	25° 51,28'	193
747-4	CTD	37	Barents Sea	15.08.2006	1:23	79° 13,10'	25° 51,28'	193	1:35	79° 13,10'	25° 51,27'	187	1:47	79° 13,10'	25° 51,27'	193
748-1	CTD	38	Barents Sea	15.08.2006	4:24	78° 46,03'	25° 08,28'	123	4:35	78° 46,03'	25° 08,29'	112	4:40	78° 46,03'	25° 08,28'	123
748-2	BG	32	Barents Sea	15.08.2006	4:54	78° 46,03'	25° 08,28'	123	4:58	78° 46,03'	25° 08,29'	123	5:02	78° 46,03'	25° 08,28'	123
748-3	BG	33	Barents Sea	15.08.2006	5:04	78° 46,03'	25° 08,28'	123	5:07	78° 46,03'	25° 08,29'	123	5:11	78° 46,03'	25° 08,29'	123
748-4	BG	34	Barents Sea	15.08.2006	5:13	78° 46,03'	25° 08,29'	123	5:15	78° 46,03'	25° 08,29'	123	5:20	78° 46,03'	25° 08,28'	123
748-5	BG	35	Barents Sea	15.08.2006	5:21	78° 46,03'	25° 08,28'	123	5:24	78° 46,03'	25° 08,29'	123	5:28	78° 46,03'	25° 08,28'	123
749-1	BG	36	Barents Sea	15.08.2006	7:44	78° 23,14'	24° 44,45'	138	7:50	78° 23,14'	24° 44,45'	138	7:54	78° 23,14'	24° 44,45'	138
749-2	BG	37	Barents Sea	15.08.2006	7:55	78° 23,14'	24° 44,45'	138	7:59	78° 23,14'	24° 44,45'	138	8:02	78° 23,14'	24° 44,45'	138
749-3	BG	38	Barents Sea	15.08.2006	8:04	78° 23,14'	24° 44,45'	138	8:07	78° 23,14'	24° 44,45'	138	8:11	78° 23,14'	24° 44,45'	138
749-4	BG	39	Barents Sea	15.08.2006	8:13	78° 23,14'	24° 44,49'	138	8:16	78° 23,14'	24° 44,45'	138	8:19	78° 23,14'	24° 44,45'	138
749-5	CTD	39	Barents Sea	15.08.2006	8:33	78° 23,14'	24° 44,45'	138	8:44	78° 23,14'	24° 44,45'	127	8:48	78° 23,14'	24° 44,45'	138
750-1	CTD	40	Barents Sea	15.08.2006	12:10	78° 16,19'	27° 11,71'	312	12:28	78° 16,19'	27° 11,71'	298	12:36	78° 16,19'	27° 11,71'	312
750-2	GKG	21	Olgastretet	15.08.2006	12:50	78° 16,19'	27° 11,70'	312	12:57	78° 16,19'	27° 11,70'	312	13:07	78° 16,19'	27° 11,70'	312
750-3	BG	40	Olgastretet	15.08.2006	13:17	78° 16,19'	27° 11,71'	312	13:25	78° 16,19'	27° 11,70'	313	13:34	78° 16,19'	27° 11,70'	312
750-4	BG	41	Olgastretet	15.08.2006	13:55	78° 16,19'	27° 11,71'	312	13:42	78° 16,19'	27° 11,70'	312	13:51	78° 16,19'	27° 11,70'	312
750-5	BG	42	Olgastretet	15.08.2006	13:52	78° 16,19'	27° 11,70'	312	14:00	78° 16,19'	27° 11,70'	312	14:09	78° 16,19'	27° 11,70'	312
750-6	BG	43	Olgastretet	15.08.2006	14:11	78° 16,19'	27° 11,70'	312	14:18	78° 16,19'	27° 11,70'	312	14:27	78° 16,19'	27° 11,70'	312
751	CTD	41	Hornsund	16.08.2006	11:52	76° 58,53'	15° 44,07'	234	12:05	76° 58,53'	15° 44,07'	230	12:16	76° 58,53'	15° 44,07'	234
752	MB	32	Hornsund	16.08.2006	13:08	76° 57,69'	15° 47,16'	210					13:57	76° 57,24'	15° 46,51'	
753	JAGO	18	Hornsund	16.08.2006	14:58	76° 57,18'	15° 44,29'	97	15:01	76° 57,14'	15° 44,30'	88	17:58	76° 57,20'	15° 45,21'	51
754	LS	11	Hornsund	16.08.2006	15:18	76° 57,18'	15° 44,29'	98					15:34	76° 57,16'	15° 44,49'	79
755	FS	8	Hornsund	16.08.2006	18:25	76° 57,18'	15° 45,01'	39	18:28	76° 57,18'	15° 45,01'	40	19:12	76° 57,18'	15° 44,32'	96
756	MB	33	Isfjorden	17.08.2006	8:17	78° 18,30'	14° 34,32'	127					8:58	78° 18,86'	14° 31,94'	54
757	JAGO	19	Isfjorden	17.08.2006	10:30	78° 18,64'	14° 32,00'	63	10:34	78° 18,68'	14° 31,97'	60	12:34	78° 18,74'	14° 31,22'	40