

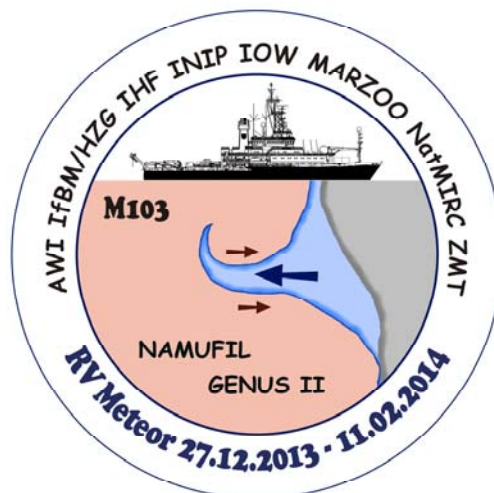
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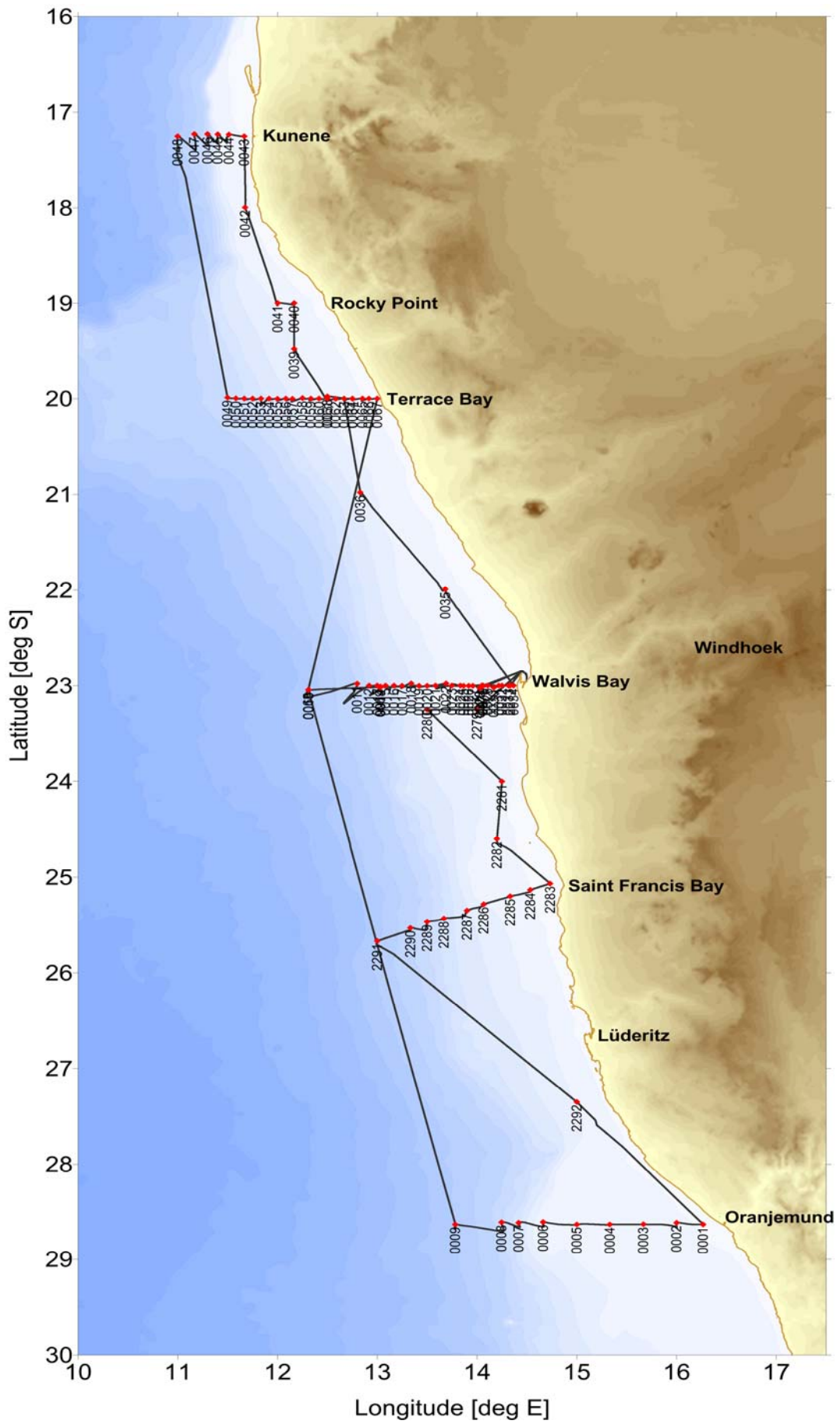
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**Short Cruise Report  
RV METEOR M-103/1  
Project: GENUS II  
Walvis Bay - Walvis Bay  
27.12.2013 - 18.01.2014**

**Chief Scientist: Niko Lahajnar  
Captain: Michael Schneider**

**GENUS**





## Objectives

Coastal upwelling systems react directly to changes in external (climatic) forcing, and observed changes at lower trophic levels of upwelling ecosystems primarily reflect changes in this external physical forcing. In the Benguela Current coastal upwelling system off Namibia, the supply of oxygen to the shelf environment is directly coupled to hydrodynamic conditions, and fluctuating oxygen levels over the shelf have significant consequences for nutrient levels and nutrient ratios, for rates of exchange at the sediment-water interface, for gas exchange between the ocean and the atmosphere, and for biological production and therefore for the entire ecosystem. Work of expedition METEOR 103/1 in the coastal upwelling area off Namibia, funded by the BMBF and carried out within the project GENUS (**G**eochemistry and **E**cology of the **N**amibian **U**pwelling **S**ystem), phase II, was dedicated to upwelling areas in the eastern boundary currents respond sensitively to global, regional, and local changes in atmospheric circulation patterns. In the past several coastal upwelling systems have experienced dramatic changes (regime shifts) in ecosystem structure and fish catches, which are not fully understood yet. Using dedicated process studies and long term observations, the GENUS project aims to clarify the interactions between the particular trophic levels of the ecosystem in order to improve the knowledge about the system and to enhance the predictive capabilities of ecosystem models.

The cruises M-103/1+2 "NAMUFIL" forms the main field experiment of the GENUS II project; cruise M-103/1 was the synoptic part, the following M-103/2 aims to study the succession of a filament. During the seasonal upwelling minimum the status and development of the northern Benguela ecosystem was investigated by an interdisciplinary working group in close cooperation with African partner institutions. The targeted working area included the weak upwelling cell offshore Walvis Bay, the Terrace Bay (20°S) and Kunene cell (17°15' S) in the north and the very stable upwelling cell close to Lüderitz (25-27°S) as well as oxygenated water areas at the Namibian - South African border (28°38' S) in the south. We performed a combined oceanographic, remote sensing, biogeochemical, biological, and sediment sampling programme on a total of 5 transects perpendicular to the coast, which were connected with several stations between each transect. In addition, during transit time, we employed a lowered ADCP for measurements of currents and several ferrybox-systems for en-route determinations of temperature and salinity as well as nutrient concentrations plus pCO<sub>2</sub>, methane and online cavity ring down spectrometers in order to determine the isotopic composition of carbon bearing compounds (DIC, DOC, CH<sub>4</sub>). In sum, station work comprised sampling in water depths between 30 and 2200 m at 86 stations.

## Cruise Narrative

On December 26 2013, 29 scientists from Germany, Czech Republic, Greece and Namibia boarded RV METEOR for cruise M103/1. For this cruise two 20' containers with scientific equipment and one lab container owned by ZMT had been sent from Germany to the harbour of embarkation in Walvis Bay, Namibia. In addition, three containers which had been sent in Aug 2013 for M-100/1 were already on board. All containers were emptied on Dec. 23 so that the full equipment load could have been provided to the arriving scientists in time.

With this successfully planned and performed cruise organisation RV METEOR casted off from the port of Walvis Bay on Dec 27 at 09:00 local time. The first destination was a long-

term mooring station on the so-called Walvis Bay transect at 23°S in approx. 130 m water depth. The ship reached this first station in the early afternoon on the same day where the mooring with oceanographic sensors were deployed. All sensors had been working according to their schedules. After their successful deployment a station nearby was sampled using a variety of different gears such as CTD, multicorer and several types of nets (e.g., plankton net, MOCNESS, Multi-net, and Tucker Trawl). Sampling with all these gears and nets subsequently became the standard programme for the entire cruise. After this successful start RV METEOR headed south. Several stations were sampled on the short transit to a transect line (25-26°S) north of Lüderitz, which was reached in the evening of Dec 28. The Lüderitz cell is a very stable upwelling region and represents the boundary between the southern and northern Benguela system. The Lüderitz transect was sampled to a depth of 2100 m, intending to catch the coastal mud belt as well as a secondary depot center offshore. Then the ship headed southward to the Namibian border at the Orange River and performed another transect perpendicular to the coastline. The outermost station (2000 m water depth) was completed in the evening of Jan 03 2014.

We then returned back to the 23°S line and started with the outermost station at 2150 m water depth on Jan. 05. There we intended to retrieve the first of three sediment trap moorings that had been deployed in January 2013 with the Namibian vessel FRS MIRABILIS. However, it proved that the mooring replied to the acoustic signals but failed to release. Several attempts with different deck units were unsuccessful. Either the release got stuck with the anchor rope or the flotation modules were broken or lost due to bottom water trawling in that area. After several hours the mooring operation was abandoned in order not to jeopardize the overall mission of this cruise. We continued with our station work on the 23°S-line. On Jan 06 the second sediment trap mooring equipped with various oceanographic sensors provided by the IOW were due for retrieval. Again, we received some signals; however, these signals came most likely from the near-by fish trawlers. There was no connection possible between deck unit (both IfBM and IOW) and release. In addition, the whole mooring operation was interfered by strong fishing operations very close to the ship. If this fishing prevailed over the complete deployment period then without much doubt the system fell victim to the fishing activities in this area although a daily safety warning has been sent out by NAMPORT throughout the year. Without any substantial success regarding our sediment trap moorings we continued our station work and headed towards the inner shelf. On Jan 08 at least the shallow sediment trap mooring was retrieved and provided a valuable insight into the vertical flux in that area.

After having finished the 23°S line, METEOR headed towards the northern Namibian border for the Kunene transect at 17°15' S. In between the ichthyoplanktologists were able to catch different target species for their experiments between 21 and 17° S. The ship arrived at the innermost transect station on Jan 11 in the afternoon hours. This transect was sampled down to 2100 m water depth until Jan 13 in the evening. Afterwards the vessel moved on to the 20°S transect mainly for microstructure probe sampling in combination with monitoring support for the Namibian partner institutions. Station work at 20°S ceased on Jan 16 early in the morning.

METEOR then headed to the two abandoned mooring stations in order to check for a solid triangulation. The deep mooring at 2150 m was still at its initial position and was marked for a

dredging attempt during M-103/2 whereas the central mooring at 440 m did not reply for a single time so that the latter was declared as irrecoverably lost. During the day of Jan 17, the last day at sea, we retrieved one short-term and one long-term oceanographic mooring close to Walvis Bay and re-deployed the sediment trap mooring for the fourth time at this position. Mooring operations and thus station work of M-103/1 ceased in the late afternoon and Meteor prepared for entering port on Jan 18. Initially docking was scheduled for 10:00 local time; however, due to harbour reorganisation docking was completed not until 20:00.

**Total Number of Stations:** 86 (#2279 - #2292 and #001-#072)

**Total Number of Gears deployed/used:** 500

**Total Net Station Work [days:hrs:min]:** 8:23:17

<b>Instrument*</b>	<b>Numbers used</b>	<b>Total Station Time [hours]</b>
BWS	38	19.67
CTD	93	38.42
HN	55	2.80
SD	29	1.10
MOR	7	8.18
MSS	40	30.95
uCTD	0	0.00
MUC	59	23.95
TRIOS	20	6.88
RTR	30	9.70
SLS	24	4.48
T-TRAW	3	1.25
MOC	15	19.33
MOC-D	8	12.23
VGRAB	1	0.35
TRBM	3	1.90
MSN	69	34.25
<b>Total</b>	<b>500</b>	<b>215:45</b>

\*Abbreviations see station list below

<b>Name</b>	<b>Working Group</b>	<b>Affiliation</b>
Lahajnar, Niko	Chief Scientist	IfBM
Ankele, Markus	Ferry Box	HZG
Annighöfer, Meike	Biogeochemistry / Sedimentology	IfBM
Beier, Sebastian	CTD / Oceanography	IOW
Birkicht, Matthias	Carbon Biogeochemistry	ZMT
Bohata, Karolina	Zoo-Planktology	IHF
Dähnke, Kirstin	Nitrogen Biogeochemistry	HZG
Flohr, Anita	Carbon Biogeochemistry	ZMT
Geist, Simon	Ichthyoplanktology	ZMT
Gerth, Monika	Remote Sensing	IOW
Hansen, Anja	Phyto-Planktology	IOW
Heene, Toralf	CTD / Oceanography	IOW
Janssen, Silke	Zoo-Planktology	IHF
Kunzmann, Andreas	Ichthyoplanktology	ZMT
Kretzschmann, Lisett	Biogeochemistry	IfBM
Martin, Bettina	Zoo-Planktology	IHF
Mlambo, Lindan	Krill	AWI / NatMIRC
Möbius, Jürgen	Biogeochemistry / Sedimentology	IfBM
Ngutjinazo, Thusnelda	Phyto-Planktology	NatMIRC
Ohde, Thomas	Remote Sensing	IOW
Pavloudi, Christina	Microbial Physiology	HCMR / DMB
Paul, Nina	Ichthyoplanktology	ZMT
Rixen, Tim	Carbon Biogeochemistry	ZMT
Schmidt, Martin	CTD / Oceanography	IOW
Simon, Stephanie	Ichthyoplanktology	ZMT
Stöber, Anette	Multimedia	MMKH
Teichert, Lea	Biogeochemistry	IfBM
Vorrath, Maria-Elena	Biogeochemistry	IfBM
Werner, Thorsten	Krill	AWI

**Institutions:**

- AWI** Alfred-Wegener-Institut für Polar- und Meeresforschung,  
Am Handelshafen 12, D-27570 Bremerhaven, Germany
- HCMR/  
DME** Hellenic Centre for Marine Research, Institute of Marine Biology, Biotechnology  
and Aquaculture Institute of Marine Biology, Thalassocosmos, 71003 Heraklion,  
Crete, Greece;  
Department of Microbial Ecophysiology, Faculty of Biology, University of  
Bremen, Leobener Straße, 28359 Bremen, Germany
- HZG** Helmholtz Zentrum Geesthacht, Institut für Material und Küstenforschung,  
Max-Planck-Straße 1, D-21502 Geesthacht, Germany
- IfBM** Institut für Biogeochemie und Meereschemie, Universität Hamburg,  
Bundesstraße 55, D-20146 Hamburg, Germany
- IHF** Institut für Hydrobiologie und Fischereiwissenschaft, Universität Hamburg,  
Große Elbstraße 133, D-22767 Hamburg, Germany
- IOW** Leibniz-Institut für Ostseeforschung Warnemünde,  
Seestraße 15, D-18199 Rostock-Warnemünde, Germany
- MMKH** Multimedia Kontor Hamburg,  
Saarlandstraße 30, D-22303 Hamburg, Germany
- NatMIRC** National Marine Information and Research Centre  
Strand Street, Swakopmund, Namibia
- ZMT** Leibniz-Zentrum für Marine Tropenökologie GmbH, Bremen  
Fahrenheitstraße 6, D-28359 Bremen, Germany

**Acknowledgement**

We would like to thank Captain Michael Schneider, his officers and the crew of R/V METEOR for their outstanding support, the provision of a highly professional working environment and their significant contribution to the success of this cruise. All of us enjoyed the friendly, flexible and family-like atmosphere aboard during all stages of the cruise. We are indebted to the Namibian Ministry of Foreign Affairs and Ministry of Mines and Energy for their support and we would like to acknowledge the contribution of the German Ministry of Foreign Affairs (Wolfgang Mahrle and Elke Eggers) as well. We would also like to express our gratitude to the Leitstelle METEOR/MERIAN for its valuable support. The ship time of R/V METEOR was provided by the Deutsche Forschungsgemeinschaft and was supported by the GENUS II programme of the Federal Ministry of Education and Research.

**Abbreviations:**

CTD/RO:	CTD/Rosette
SD:	Secchi-Disk
MOR:	Mooring (long-term)
MOC-1:	MOCNESS
MOC-D:	Double MOCNESS
MOR:	Mooring
TD:	Drifter
TT:	Tucker Trawl
MN:	Multinet
MUC:	Multicorer
MOCN:	Single MOCNESS
MSS:	Microstructure Probe
RT :	Ring-Trawl
BWS :	Bottom Water Sampler
SLS :	Satlantics
Trios:	Trios
TRBM:	Trawl Resistant Bottom Mooring

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/2277-1	27.12.2013	09:26	22° 59,98' S	14° 20,02' E	60.9	SW 4	164	0	CTD/RO	surface
ME1031/2277-2	27.12.2013	09:48	22° 59,98' S	14° 20,02' E	59.8	WSW 4	143.8	0	SD	surface
ME1031/2278-1	27.12.2013	11:40	23° 0,01' S	14° 3,60' E	132.8	SW 8	194.8	-0.4	MOR	information
ME1031/2278-1	27.12.2013	12:20	23° 0,02' S	14° 3,66' E	129.4	SSW 8	340.3	0	MOR	slipped
ME1031/2279-1	27.12.2013	18:55	23° 14,98' S	14° 0,01' E	145.3	S 14	261.7	0.1	CTD/RO	surface
ME1031/2279-2	27.12.2013	19:00	23° 14,98' S	14° 0,01' E	145.5	S 13	186.7	0	HN	surface
ME1031/2279-3	27.12.2013	20:13	23° 14,98' S	14° 0,01' E	145.8	SSE 14	322.5	0	MUC	surface
ME1031/2280-1	27.12.2013	23:24	23° 14,96' S	13° 30,00' E	228.6	SSE 10	291.6	0.1	CTD/RO	surface
ME1031/2280-2	27.12.2013	23:24	23° 14,96' S	13° 30,00' E	228.6	SSE 10	291.6	0.1	HN	surface
ME1031/2280-3	27.12.2013	23:50	23° 14,96' S	13° 30,00' E	228.1	SSE 8	133.8	0	BWS	surface
ME1031/2280-4	28.12.2013	00:30	23° 15,00' S	13° 30,00' E	227.1	SSE 12	273.6	-0.1	MUC	surface
ME1031/2281-1	28.12.2013	07:28	24° 0,01' S	14° 14,97' E	120.4	SSE 4	285.2	-0.1	CTD/RO	surface
ME1031/2281-2	28.12.2013	07:29	24° 0,01' S	14° 14,97' E	118.9	SSE 4	271.4	-0.1	HN	surface
ME1031/2281-3	28.12.2013	07:34	24° 0,01' S	14° 14,97' E	116.8	SSE 4	91.2	-0.1	SD	surface
ME1031/2281-4	28.12.2013	07:48	24° 0,01' S	14° 14,97' E	118.8	SSE 4	83.3	0	SLS	into water
ME1031/2281-5	28.12.2013	08:19	24° 0,02' S	14° 14,86' E	121.2	SSE 4	107.5	-0.1	TRIOS	surface
ME1031/2281-6	28.12.2013	09:03	24° 0,02' S	14° 14,90' E	57.9	S 6	99	0	MUC	surface
ME1031/2281-7	28.12.2013	09:40	24° 0,26' S	14° 14,87' E	119.6	S 7	177.5	2.9	RTR	start trawling
ME1031/2281-7	28.12.2013	09:56	24° 0,96' S	14° 14,84' E	118.9	S 7	187.1	2.5	RTR	end trawling
ME1031/2282-1	28.12.2013	13:40	24° 36,03' S	14° 11,94' E	145.3	S 10	114.9	0.3	CTD/RO	surface
ME1031/2282-2	28.12.2013	13:42	24° 36,02' S	14° 11,94' E	144.6	S 10	298	-0.5	HN	on deck
ME1031/2282-3	28.12.2013	13:43	24° 36,01' S	14° 11,94' E	145.2	S 10	114.2	-0.1	SD	surface
ME1031/2282-4	28.12.2013	14:05	24° 36,02' S	14° 11,98' E	146.0	S 11	289.5	0	SLS	into water
ME1031/2282-5	28.12.2013	14:39	24° 36,02' S	14° 11,98' E	144.2	S 12	231.2	0	TRIOS	max. depth
ME1031/2282-6	28.12.2013	14:54	24° 36,02' S	14° 11,98' E	144.9	S 12	115.2	0.1	CTD/RO	at depth
ME1031/2282-7	28.12.2013	15:28	24° 36,02' S	14° 11,98' E	144.6	S 12	146.3	0.1	MUC	at sea bottom
ME1031/2282-8	28.12.2013	15:49	24° 36,36' S	14° 11,94' E	147.1	S 13	174.2	1.8	T-TRAW	
ME1031/2283-1	28.12.2013	21:08	25° 3,97' S	14° 43,99' E	253.8	S 15	213.6	0.1	CTD/RO	surface
ME1031/2283-2	28.12.2013	21:10	25° 3,97' S	14° 43,99' E	0.0	S 15	0	0	HN	surface
ME1031/2283-3	28.12.2013	21:37	25° 3,97' S	14° 43,99' E	52.2	S 14	110.2	0	BWS	surface
ME1031/2283-4	28.12.2013	22:09	25° 3,99' S	14° 43,99' E	51.2	S 14	246.6	0.1	MUC	at sea bottom
ME1031/2284-2	28.12.2013	23:48	25° 7,98' S	14° 32,05' E	91.5	S 13	81.7	0.1	HN	surface
ME1031/2284-3	29.12.2013	00:14	25° 7,99' S	14° 32,00' E	92.3	S 12	316.4	0.1	MSN	on deck
ME1031/2284-4	29.12.2013	00:22	25° 7,99' S	14° 32,00' E	92.0	S 13	196.8	0.2	CTD/RO	surface
ME1031/2284-4	29.12.2013	00:34	25° 7,99' S	14° 32,00' E	91.1	S 13	260.1	0	CTD/RO	on deck
ME1031/2284-5	29.12.2013	00:54	25° 7,99' S	14° 32,00' E	91.8	S 13	100.4	0	BWS	surface
ME1031/2284-6	29.12.2013	01:14	25° 7,99' S	14° 32,00' E	91.0	S 13	117.4	0.1	BWS	surface
ME1031/2284-7	29.12.2013	01:50	25° 7,99' S	14° 32,00' E	92.1	S 13	0	0.1	BWS	on deck
ME1031/2284-8	29.12.2013	01:56	25° 7,99' S	14° 32,00' E	94.3	S 13	145.8	0.1	MUC	surface
ME1031/2284-9	29.12.2013	02:16	25° 7,96' S	14° 32,01' E	91.1	S 13	0	-0.2	MUC	surface
ME1031/2284-9	29.12.2013	02:27	25° 7,97' S	14° 32,00' E	90.9	S 12	319.7	0.2	MUC	on deck
ME1031/2284-10	29.12.2013	02:31	25° 7,97' S	14° 32,01' E	90.8	S 12	151	0	MUC	surface



Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/2284-10	29.12.2013	02:34	25° 7,97' S	14° 32,01' E	90.9 S	12	181.7	0	MUC	at sea bottom
ME1031/2284-11	29.12.2013	02:49	25° 8,06' S	14° 32,00' E	93.1 S	11	175.9	2.3	MSN	surface
ME1031/2284-11	29.12.2013	03:10	25° 8,85' S	14° 31,93' E	96.2 S	11	168.8	2.4	MSN	on deck
ME1031/2285-1	29.12.2013	04:34	25° 11,96' S	14° 19,99' E	152.6 SSE	13	200.1	1.7	CTD/RO	surface
ME1031/2285-2	29.12.2013	04:41	25° 11,96' S	14° 19,99' E	153.1 SSE	14	75.4	0.6	HN	surface
ME1031/2285-3	29.12.2013	05:02	25° 11,96' S	14° 19,99' E	153.1 SSE	12	63.8	0.2	BWS	surface
ME1031/2285-4	29.12.2013	05:25	25° 11,96' S	14° 19,99' E	153.1 SSE	11	92.5	1.9	CTD/RO	surface
ME1031/2285-5	29.12.2013	06:01	25° 11,95' S	14° 19,94' E	153.1 S	10	236.3	0.7	MUC	at sea bottom
ME1031/2286-1	29.12.2013	08:10	25° 16,96' S	14° 3,99' E	191.1 S	13	57	0.8	CTD/RO	surface
ME1031/2286-2	29.12.2013	08:17	25° 16,96' S	14° 3,98' E	190.6 S	13	238.2	0.4	SD	surface
ME1031/2286-3	29.12.2013	08:55	25° 16,97' S	14° 3,99' E	190.3 S	14	123.2	1.1	MSN	surface
ME1031/2286-3	29.12.2013	09:08	25° 16,97' S	14° 3,99' E	191.8 S	13	83.4	2	MSN	on deck
ME1031/2286-4	29.12.2013	09:26	25° 16,97' S	14° 3,98' E	191.8 S	13	312.5	0.4	CTD/RO	surface
ME1031/2286-5	29.12.2013	09:57	25° 16,96' S	14° 3,99' E	190.2 S	12	259.2	1.2	HN	on deck
ME1031/2286-6	29.12.2013	10:06	25° 16,96' S	14° 3,98' E	190.8 S	12	65.9	0.4	SLS	into water
ME1031/2286-7	29.12.2013	10:28	25° 16,97' S	14° 3,94' E	190.9 S	12	351.8	0.9	TRIOS	surface
ME1031/2286-8	29.12.2013	10:59	25° 16,97' S	14° 3,95' E	190.8 S	12	239.6	0.6	MSN	at depth
ME1031/2286-8	29.12.2013	11:08	25° 16,97' S	14° 3,95' E	191.2 S	12	264.7	0.5	MSN	on deck
ME1031/2286-9	29.12.2013	11:42	25° 16,97' S	14° 3,95' E	190.5 S	13	273.7	1.5	MUC	on deck
ME1031/2286-10	29.12.2013	11:44	25° 16,97' S	14° 3,96' E	191.0 S	13	96.4	1	MUC	surface
ME1031/2286-11	29.12.2013	12:23	25° 17,28' S	14° 3,95' E	190.6 S	13	179.2	1.8	MSN	at depth
ME1031/2287-1	29.12.2013	14:00	25° 20,93' S	13° 53,97' E	248.8 S	12	325.6	1.2	CTD/RO	surface
ME1031/2287-2	29.12.2013	14:13	25° 20,99' S	13° 54,00' E	249.4 S	12	232.7	1.6	HN	surface
ME1031/2287-3	29.12.2013	14:18	25° 20,99' S	13° 54,00' E	248.8 S	11	157.8	0.2	SD	on deck
ME1031/2287-4	29.12.2013	14:41	25° 20,99' S	13° 54,00' E	250.4 S	12	104.5	1.2	MSN	at depth
ME1031/2287-5	29.12.2013	15:11	25° 20,99' S	13° 54,00' E	249.4 S	12	161.4	0.3	CTD/RO	at depth
ME1031/2287-5	29.12.2013	15:21	25° 20,99' S	13° 54,00' E	248.5 S	12	356.9	0.8	CTD/RO	on deck
ME1031/2287-6	29.12.2013	15:26	25° 20,99' S	13° 53,99' E	248.9 S	12	348.1	0.5	SLS	into water
ME1031/2287-7	29.12.2013	15:56	25° 21,01' S	13° 53,83' E	249.8 S	12	262.7	1.2	TRIOS	max. depth
ME1031/2287-8	29.12.2013	16:10	25° 21,01' S	13° 53,83' E	249.9 S	11	47.1	0.8	MSN	at depth
ME1031/2287-9	29.12.2013	16:36	25° 21,01' S	13° 53,83' E	250.2 S	12	77.3	0.8	BWS	at sea bottom
ME1031/2287-10	29.12.2013	17:06	25° 21,03' S	13° 53,79' E	250.1 S	13	109.4	0.3	MUC	at sea bottom
ME1031/2287-11	29.12.2013	17:40	25° 21,01' S	13° 53,64' E	251.3 S	12	356.3	0.6	MUC	at sea bottom
ME1031/2287-12	29.12.2013	18:24	25° 21,07' S	13° 53,61' E	250.8 S	13	195.2	2.5	MSN	surface
ME1031/2287-12	29.12.2013	19:02	25° 22,37' S	13° 53,54' E	254.1 S	13	178	2	MSN	on deck
ME1031/2287-13	29.12.2013	19:40	25° 20,96' S	13° 53,92' E	250.0 S	13	139.5	2.8	MOC	Into water
ME1031/2287-13	29.12.2013	20:04	25° 21,80' S	13° 53,67' E	1799.1 S	13	206.2	2.7	MOC	max ropelength
ME1031/2287-13	29.12.2013	20:04	25° 21,80' S	13° 53,67' E	1799.1 S	13	206.2	2.7	MOC	begin heave
ME1031/2287-13	29.12.2013	20:30	25° 22,68' S	13° 53,28' E	1272.2 S	14	191.2	3	MOC	on deck
ME1031/2288-1	29.12.2013	22:33	25° 25,97' S	13° 40,04' E	411.5 S	15	75.6	1.2	CTD/RO	at depth
ME1031/2288-2	29.12.2013	22:58	25° 25,99' S	13° 40,01' E	411.9 SSE	15	154.4	0.6	MSN	at depth
ME1031/2288-2	29.12.2013	23:04	25° 25,99' S	13° 40,01' E	412.4 SSE	14	273.8	3.3	MSN	on deck
ME1031/2288-3	29.12.2013	23:16	25° 25,99' S	13° 40,00' E	412.2 SSE	13	58	1.2	CTD/RO	at depth
ME1031/2288-4	29.12.2013	23:26	25° 25,99' S	13° 40,00' E	412.9 SSE	14	75.1	1.3	HN	on deck
ME1031/2288-5	29.12.2013	23:48	25° 25,99' S	13° 40,00' E	415.0 SSE	15	126	1.5	BWS	at sea bottom
ME1031/2288-6	30.12.2013	00:27	25° 26,00' S	13° 40,00' E	411.4 SSE	16	60.3	1.1	MUC	at sea bottom
ME1031/2289-1	30.12.2013	02:14	25° 28,41' S	13° 29,98' E	1694.2 SSE	14	203.4	2.9	MSN	at depth
ME1031/2289-2	30.12.2013	03:03	25° 29,34' S	13° 30,05' E	712.7 SSE	14	61.9	2	CTD/RO	at depth
ME1031/2289-3	30.12.2013	03:28	25° 29,33' S	13° 30,04' E	700.0 SSE	13	85.7	2.5	MSN	at depth
ME1031/2289-4	30.12.2013	04:01	25° 29,34' S	13° 30,04' E	696.7 SSE	13	119.6	1.5	CTD/RO	at depth
ME1031/2289-5	30.12.2013	04:46	25° 29,34' S	13° 30,05' E	697.0 SSE	14	166.8	0.7	BWS	at sea bottom
ME1031/2289-6	30.12.2013	05:39	25° 29,32' S	13° 30,01' E	700.2 SSE	14	279.2	2	MUC	at sea bottom
ME1031/2289-7	30.12.2013	06:17	25° 29,27' S	13° 29,85' E	703.2 SSE	13	112	1.9	SD	on deck
ME1031/2289-8	30.12.2013	06:19	25° 29,27' S	13° 29,85' E	716.5 SSE	12	335.7	1.5	SLS	into water
ME1031/2289-9	30.12.2013	07:18	25° 29,76' S	13° 29,73' E	1729.8 SSE	12	169.5	2.2	MOC	Into water
ME1031/2289-9	30.12.2013	07:49	25° 30,77' S	13° 29,57' E	2026.4 S	13	199.2	3.5	MOC	max ropelength
ME1031/2289-9	30.12.2013	07:49	25° 30,77' S	13° 29,57' E	2026.4 S	13	199.2	3.5	MOC	begin heave
ME1031/2289-9	30.12.2013	08:38	25° 32,11' S	13° 29,23' E	999.1 SSE	12	118.1	1.6	MOC	on deck
ME1031/2290-1	30.12.2013	10:14	25° 31,73' S	13° 19,94' E	883.7 SSE	10	219.7	1.9	MSN	surface
ME1031/2290-2	30.12.2013	11:05	25° 32,98' S	13° 20,00' E	1002.2 SSE	10	152.3	1.4	SD	on deck
ME1031/2290-3	30.12.2013	11:12	25° 32,99' S	13° 20,00' E	858.5 SSE	11	245.2	1.9	CTD/RO	surface

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/2290-4	30.12.2013	11:12	25° 32,99' S	13° 20,00' E	858.5	SSE 11	245.2	1.9	HN	surface
ME1031/2290-5	30.12.2013	12:16	25° 32,99' S	13° 19,91' E	1121.8	SSE 12	287	2.3	SLS	on deck
ME1031/2290-6	30.12.2013	12:32	25° 32,99' S	13° 19,95' E	1131.5	SSE 11	98.5	0.3	CTD/RO	surface
ME1031/2290-7	30.12.2013	13:05	25° 32,99' S	13° 19,99' E	1125.9	SSE 11	137.1	2.6	TRIOS	max. depth
ME1031/2290-8	30.12.2013	13:53	25° 32,99' S	13° 19,99' E	1129.3	SSE 11	63.4	1.3	BWS	at sea bottom
ME1031/2290-9	30.12.2013	14:52	25° 33,00' S	13° 19,99' E	1124.4	SSE 12	75.3	0.5	MSN	at depth
ME1031/2290-10	30.12.2013	15:20	25° 32,99' S	13° 19,99' E	1119.9	S 12	286.6	3.5	MUC	surface
ME1031/2290-11	30.12.2013	16:45	25° 32,99' S	13° 19,93' E	1128.0	S 12	155.2	0.3	MSN	at depth
ME1031/2290-12	30.12.2013	17:35	25° 32,99' S	13° 19,93' E	1129.6	S 13	311.5	1.7	MSN	at depth
ME1031/2291-1	30.12.2013	20:51	25° 39,97' S	12° 59,94' E	2560.2	SSE 13	107.6	2.1	CTD/RO	at depth
ME1031/2291-2	30.12.2013	22:23	25° 39,97' S	12° 59,94' E	2223.3	SSE 13	48.6	0.7	CTD/RO	at depth
ME1031/2291-3	30.12.2013	23:10	25° 39,97' S	12° 59,94' E	2236.9	SSE 12	352.1	1.4	CTD/RO	at depth
ME1031/2291-4	30.12.2013	23:46	25° 39,97' S	12° 59,94' E	2232.4	SSE 16	125.7	0.7	CTD/RO	at depth
ME1031/2291-5	31.12.2013	00:02	25° 39,97' S	12° 59,94' E	2234.7	SSE 14	339.5	0.8	BWS	surface
ME1031/2291-6	31.12.2013	00:10	25° 39,98' S	12° 59,96' E	2231.1	SSE 15	248.7	1.5	HN	on deck
ME1031/2291-5	31.12.2013	00:47	25° 40,00' S	13° 0,00' E	2306.5	SSE 14	268.5	0.4	BWS	at sea bottom
ME1031/2291-7	31.12.2013	02:28	25° 39,99' S	13° 0,00' E	2225.9	SSE 14	20.3	1.4	MUC	at sea bottom
ME1031/2291-7	31.12.2013	02:29	25° 39,99' S	13° 0,00' E	2229.4	SSE 14	306.3	0.6	MUC	hiev
ME1031/2291-8	31.12.2013	04:20	25° 39,98' S	12° 59,96' E	2232.5	SSE 13	224.9	1.9	MUC	at sea bottom
ME1031/2291-9	31.12.2013	05:34	25° 40,14' S	12° 59,92' E	2422.3	SSE 12	203.1	1.6	MOC	Into water
ME1031/2291-9	31.12.2013	06:04	25° 40,75' S	12° 59,83' E	2454.7	SSE 13	144.4	1.4	MOC	max ropelength
ME1031/2291-9	31.12.2013	06:04	25° 40,75' S	12° 59,83' E	2454.7	SSE 13	144.4	1.4	MOC	begin heave
ME1031/2291-9	31.12.2013	06:53	25° 41,78' S	12° 59,66' E	2382.0	SSE 11	42.8	0.4	MOC	on deck
ME1031/2292-1	31.12.2013	23:22	27° 20,97' S	15° 0,00' E	191.4	SSE 10	92.9	-0.1	CTD/RO	surface
ME1031/2292-2	31.12.2013	23:27	27° 20,97' S	15° 0,00' E	190.4	SSE 10	258.2	0.1	HN	surface
ME1031/2292-3	01.01.2014	00:05	27° 20,99' S	15° 0,01' E	190.3	SSE 10	45.4	0	MUC	at sea bottom
ME1031/001-1	01.01.2014	10:22	28° 38,05' S	16° 15,94' E	40.7	S 5	63.9	0	CTD/RO	surface
ME1031/001-2	01.01.2014	10:25	28° 38,04' S	16° 15,95' E	39.8	S 5	0	-0.1	HN	surface
ME1031/001-3	01.01.2014	10:26	28° 38,03' S	16° 15,95' E	40.6	S 5	62.4	-0.2	SD	surface
ME1031/001-4	01.01.2014	10:46	28° 38,00' S	16° 15,99' E	40.1	S 6	0	0	SLS	into water
ME1031/001-5	01.01.2014	11:07	28° 38,00' S	16° 16,02' E	39.7	S 7	287.3	0.1	TRIOS	max. depth
ME1031/001-5	01.01.2014	11:16	28° 38,00' S	16° 16,02' E	39.1	S 7	267.9	0.1	TRIOS	on deck
ME1031/001-6	01.01.2014	11:40	28° 38,00' S	16° 16,01' E	40.2	S 8	173.1	0.1	BWS	at sea bottom
ME1031/001-7	01.01.2014	12:05	28° 38,00' S	16° 16,01' E	40.6	S 8	131.2	0	MUC	at sea bottom
ME1031/001-8	01.01.2014	12:23	28° 38,00' S	16° 16,01' E	39.9	S 9	0	0.2	MUC	at sea bottom
ME1031/002-1	01.01.2014	14:08	28° 37,28' S	16° 0,00' E	114.1	S 8	203.4	2.3	MSN	at depth
ME1031/002-1	01.01.2014	14:08	28° 37,28' S	16° 0,00' E	114.1	S 8	203.4	2.3	MSN	Hoisting
ME1031/002-2	01.01.2014	14:38	28° 38,17' S	15° 59,97' E	116.9	S 7	82.3	0.5	CTD/RO	surface
ME1031/002-3	01.01.2014	14:46	28° 38,17' S	15° 59,98' E	116.6	S 7	26.8	0.2	SD	on deck
ME1031/002-4	01.01.2014	15:00	28° 38,17' S	15° 59,97' E	116.6	S 7	102.2	0.5	MSN	surface
ME1031/002-5	01.01.2014	15:01	28° 38,17' S	15° 59,97' E	116.1	S 6	0	0.2	HN	surface
ME1031/002-6	01.01.2014	15:27	28° 38,17' S	15° 59,98' E	116.2	S 6	254.3	1.1	CTD/RO	at depth
ME1031/002-6	01.01.2014	15:33	28° 38,17' S	15° 59,98' E	116.6	S 6	301.1	0.3	CTD/RO	on deck
ME1031/002-7	01.01.2014	15:36	28° 38,17' S	15° 59,97' E	117.1	S 6	60.3	0.5	SLS	into water
ME1031/002-8	01.01.2014	16:09	28° 38,17' S	15° 59,93' E	115.0	S 6	107.4	1.6	TRIOS	max. depth
ME1031/002-9	01.01.2014	16:22	28° 38,17' S	15° 59,93' E	115.2	S 6	344	0.3	CTD/RO	at depth
ME1031/002-10	01.01.2014	17:11	28° 38,13' S	15° 59,87' E	114.5	S 7	221.5	0.7	BWS	at sea bottom
ME1031/002-11	01.01.2014	17:45	28° 38,15' S	15° 59,76' E	114.9	S 6	286.1	0.4	MSN	at depth
ME1031/002-12	01.01.2014	18:05	28° 38,15' S	15° 59,75' E	113.7	S 6	150.9	0.7	MUC	at sea bottom
ME1031/002-13	01.01.2014	18:22	28° 38,14' S	15° 59,71' E	114.3	S 6	80	2.6	MUC	at sea bottom
ME1031/002-14	01.01.2014	18:53	28° 38,70' S	15° 59,83' E	114.8	S 7	167.5	1.4	MSN	on deck
ME1031/002-15	01.01.2014	19:07	28° 39,03' S	15° 59,95' E	114.2	S 7	181.2	2.5	MSN	surface
ME1031/002-16	01.01.2014	19:45	28° 39,90' S	16° 0,17' E	115.9	S 7	159.8	2.1	MSN	at depth
ME1031/002-16	01.01.2014	19:46	28° 39,93' S	16° 0,18' E	117.4	S 7	160.6	1.8	MSN	Hoisting
ME1031/002-16	01.01.2014	19:53	28° 40,14' S	16° 0,24' E	115.6	S 7	206.2	1.5	MSN	on deck
ME1031/003-1	01.01.2014	22:09	28° 37,98' S	15° 40,02' E	160.0	SSE 10	96.9	0	CTD/RO	at depth
ME1031/003-2	01.01.2014	22:12	28° 37,98' S	15° 40,02' E	160.9	SSE 11	100.9	0	HN	surface
ME1031/003-3	01.01.2014	22:20	28° 37,98' S	15° 40,02' E	160.2	SSE 11	288.4	0.2	BWS	surface
ME1031/003-4	01.01.2014	23:00	28° 38,00' S	15° 40,02' E	161.7	SE 10	111.7	0	MUC	at sea bottom
ME1031/004-1	02.01.2014	01:10	28° 37,98' S	15° 19,92' E	187.9	SE 9	222.9	0	CTD/RO	at depth
ME1031/004-2	02.01.2014	01:34	28° 37,97' S	15° 19,99' E	187.9	SE 10	99	0	BWS	at sea bottom

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/004-3	02.01.2014	01:59	28° 37,96' S	15° 19,97' E	187.4	SE 9	138.2	0.1	MUC	at sea bottom
ME1031/005-1	02.01.2014	04:08	28° 37,99' S	14° 59,96' E	171.4	SSE 9	280.2	1.2	CTD/RO	at depth
ME1031/005-2	02.01.2014	04:29	28° 37,99' S	14° 59,96' E	171.5	SE 11	283.9	0.9	BWS	at sea bottom
ME1031/005-3	02.01.2014	04:59	28° 38,00' S	14° 59,96' E	171.2	SE 10	79.9	0.3	BWS	off bottom
ME1031/005-4	02.01.2014	05:01	28° 38,00' S	14° 59,96' E	171.8	SE 10	247.8	2.6	HN	surface
ME1031/005-5	02.01.2014	05:20	28° 38,00' S	14° 59,95' E	170.7	SE 10	249.3	2.8	MUC	at sea bottom
ME1031/006-1	02.01.2014	07:23	28° 36,79' S	14° 39,81' E	158.4	SSE 11	211.3	1.9	MSN	at depth
ME1031/006-2	02.01.2014	07:58	28° 37,97' S	14° 39,99' E	158.9	SSE 10	106.3	0.1	CTD/RO	surface
ME1031/006-3	02.01.2014	08:06	28° 37,97' S	14° 39,99' E	158.6	SE 11	259.5	0	HN	surface
ME1031/006-4	02.01.2014	08:58	28° 38,00' S	14° 39,68' E	157.3	SSE 10	322.2	1.8	SLS	on deck
ME1031/006-5	02.01.2014	08:59	28° 38,00' S	14° 39,66' E	156.8	SSE 11	232.7	1.6	SD	surface
ME1031/006-6	02.01.2014	09:40	28° 38,01' S	14° 39,62' E	156.7	SSE 12	251.5	0.6	TRIOS	max. depth
ME1031/006-7	02.01.2014	09:58	28° 38,01' S	14° 39,61' E	157.3	SSE 11	47.8	0.3	MSN	at depth
ME1031/006-8	02.01.2014	10:19	28° 38,01' S	14° 39,63' E	157.7	SSE 10	130	0.2	BWS	at sea bottom
ME1031/006-9	02.01.2014	10:44	28° 38,01' S	14° 39,62' E	156.8	SSE 9	259.1	2.7	MSN	at depth
ME1031/006-10	02.01.2014	11:07	28° 38,03' S	14° 39,63' E	158.5	SSE 9	107	0.4	MUC	at sea bottom
ME1031/006-11	02.01.2014	11:29	28° 38,05' S	14° 39,63' E	158.6	SSE 9	91.4	0.4	MUC	at sea bottom
ME1031/006-13	02.01.2014	12:12	28° 38,47' S	14° 39,69' E	159.8	SSE 9	119.6	1.8	MSN	on deck
ME1031/007-1	02.01.2014	14:22	28° 37,29' S	14° 25,01' E	370.9	S 10	168.1	2.4	MSN	at depth
ME1031/007-2	02.01.2014	15:02	28° 38,36' S	14° 24,99' E	367.4	S 11	250.1	1.5	CTD/RO	surface
ME1031/007-3	02.01.2014	15:07	28° 38,36' S	14° 25,00' E	368.4	S 10	93.6	1.8	SD	on deck
ME1031/007-4	02.01.2014	15:09	28° 38,36' S	14° 25,00' E	367.9	S 11	269.4	0.3	HN	on deck
ME1031/007-5	02.01.2014	15:47	28° 38,38' S	14° 25,03' E	366.2	S 10	252.8	0.7	SLS	on deck
ME1031/007-6	02.01.2014	16:06	28° 38,40' S	14° 25,04' E	367.9	S 10	92.5	1.8	TRIOS	max. depth
ME1031/007-7	02.01.2014	16:25	28° 38,40' S	14° 25,04' E	366.0	S 11	283.8	2.3	CTD/RO	at depth
ME1031/007-8	02.01.2014	16:42	28° 38,40' S	14° 25,06' E	364.8	S 11	110.9	0.5	MSN	at depth
ME1031/007-9	02.01.2014	17:08	28° 38,40' S	14° 25,15' E	362.1	S 10	271.6	1.6	BWS	at sea bottom
ME1031/007-10	02.01.2014	17:42	28° 38,41' S	14° 25,17' E	360.5	S 10	99.1	3.2	MSN	at depth
ME1031/007-11	02.01.2014	18:17	28° 38,41' S	14° 25,26' E	358.2	SSE 10	95.7	1.5	MUC	at sea bottom
ME1031/007-12	02.01.2014	19:22	28° 39,49' S	14° 25,51' E	347.1	SSE 10	130.2	1.9	MSN	Hoisting
ME1031/007-13	02.01.2014	20:52	28° 38,50' S	14° 25,08' E	362.9	SE 7	246.9	2	MOC	max ropelength
ME1031/008-1	02.01.2014	23:01	28° 36,80' S	14° 14,74' E	731.3	SSE 7	192.8	0.3	MSN	at depth
ME1031/008-2	03.01.2014	00:01	28° 37,99' S	14° 15,00' E	726.0	SSE 9	263.2	1.3	CTD/RO	at depth
ME1031/008-3	03.01.2014	00:31	28° 37,99' S	14° 15,00' E	726.6	SSE 9	338.7	0.6	MSN	at depth
ME1031/008-4	03.01.2014	00:51	28° 37,99' S	14° 15,00' E	725.4	SSE 8	70.9	0.6	CTD/RO	at depth
ME1031/008-5	03.01.2014	01:21	28° 37,99' S	14° 15,00' E	726.6	SSE 10	126.4	0.9	BWS	at sea bottom
ME1031/008-6	03.01.2014	02:12	28° 37,99' S	14° 15,00' E	726.4	SSE 9	93	0.6	MSN	at depth
ME1031/008-7	03.01.2014	02:53	28° 37,99' S	14° 15,00' E	725.6	SSE 10	85.2	1.1	MSN	at depth
ME1031/008-8	03.01.2014	03:29	28° 37,99' S	14° 14,95' E	728.0	SSE 10	0	0.2	MUC	at sea bottom
ME1031/008-9	03.01.2014	04:13	28° 38,02' S	14° 14,87' E	731.3	SSE 10	242.9	1.4	MUC	at sea bottom
ME1031/008-10	03.01.2014	05:22	28° 39,07' S	14° 15,22' E	3002.5	SSE 9	106.4	2.7	MSN	at depth
ME1031/008-10	03.01.2014	05:23	28° 39,09' S	14° 15,23' E	720.1	SSE 9	157.6	1.5	MSN	Hoisting
ME1031/008-11	03.01.2014	06:45	28° 40,89' S	14° 15,88' E	701.2	SSE 9	161.1	1.3	MOC	max ropelength
ME1031/009-1	03.01.2014	10:10	28° 37,98' S	13° 46,87' E	2028.4	SSE 7	325.4	0.2	CTD/RO	surface
ME1031/009-2	03.01.2014	10:17	28° 37,98' S	13° 46,87' E	2037.5	SSE 8	15.8	-0.1	SD	surface
ME1031/009-3	03.01.2014	11:50	28° 38,01' S	13° 46,99' E	2033.7	SSE 8	170.1	0.1	SLS	into water
ME1031/009-4	03.01.2014	11:54	28° 38,01' S	13° 46,99' E	2033.7	SSE 8	36.8	0	HN	surface
ME1031/009-5	03.01.2014	12:20	28° 38,01' S	13° 46,99' E	2035.1	SSE 7	162.2	0	TRIOS	max. depth
ME1031/009-6	03.01.2014	13:14	28° 38,01' S	13° 46,99' E	2035.7	S 8	329.6	-0.1	CTD/RO	at depth
ME1031/009-7	03.01.2014	14:27	28° 38,01' S	13° 46,99' E	2033.7	S 7	2.9	0.9	CTD/RO	at depth
ME1031/009-8	03.01.2014	15:21	28° 38,02' S	13° 47,02' E	2032.8	S 7	182.1	0.7	MUC	at sea bottom
ME1031/009-9	03.01.2014	16:20	28° 38,13' S	13° 47,17' E	2026.5	SSE 6	325.6	0.6	CTD/RO	at depth
ME1031/009-10	03.01.2014	17:10	28° 38,13' S	13° 47,18' E	2026.5	SSE 6	279.1	0.5	BWS	at sea bottom
ME1031/009-11	03.01.2014	18:43	28° 39,24' S	13° 47,10' E	2038.9	SSE 5	208.2	1.8	MOC	max ropelength
ME1031/010-1	05.01.2014	03:50	23° 2,38' S	12° 18,78' E	0.0	SW 4	18.9	0.1	MOR	released
ME1031/010-1	05.01.2014	04:58	23° 2,31' S	12° 18,68' E	0.0	WNW 2	290.6	0.4	MOR	information
ME1031/010-2	05.01.2014	06:04	23° 2,29' S	12° 18,61' E	2098.8	S 9	119.5	0	CTD/RO	surface
ME1031/010-3	05.01.2014	06:28	23° 2,29' S	12° 18,61' E	2102.5	SSE 10	168.9	0	HN	surface
ME1031/010-4	05.01.2014	06:38	23° 2,29' S	12° 18,61' E	2098.1	S 9	264.7	-0.1	HN	on deck
ME1031/010-5	05.01.2014	07:06	23° 2,29' S	12° 18,61' E	2099.7	S 9	273.7	0	SD	on deck
ME1031/010-6	05.01.2014	07:58	23° 2,29' S	12° 18,60' E	2099.1	S 9	121.5	0	SLS	on deck

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/010-7	05.01.2014	08:17	23° 2,29' S	12° 18,59' E	2100.8	SSE 8	277.1	0	TRIOS	surface
ME1031/010-8	05.01.2014	09:14	23° 2,29' S	12° 18,59' E	2099.3	S 9	94.5	0	CTD/RO	at depth
ME1031/010-9	05.01.2014	10:09	23° 2,28' S	12° 18,59' E	2099.0	S 8	105.6	0.1	CTD/RO	at depth
ME1031/010-10	05.01.2014	11:00	23° 2,28' S	12° 18,59' E	2097.6	S 8	249.9	0	BWS	at sea bottom
ME1031/010-11	05.01.2014	12:03	23° 2,28' S	12° 18,59' E	2098.4	S 8	188.5	0.1	CTD/RO	at depth
ME1031/010-12	05.01.2014	13:06	23° 2,28' S	12° 18,59' E	2099.4	S 10	92.5	0	MUC	at sea bottom
ME1031/010-12	05.01.2014	13:46	23° 2,31' S	12° 18,63' E	2097.1	S 11	126.4	0.3	MUC	on deck
ME1031/010-13	05.01.2014	13:49	23° 2,32' S	12° 18,63' E	2906.6	S 11	143.1	0.1	HN	surface
ME1031/010-14	05.01.2014	14:48	23° 3,52' S	12° 18,43' E	3769.2	S 11	179	2.1	MOC	max ropelength
ME1031/010-15	05.01.2014	17:59	23° 4,54' S	12° 17,51' E	3748.7	S 10	144.1	2.8	MOC-D	max wire
ME1031/011-1	05.01.2014	23:21	22° 58,96' S	12° 47,89' E	905.6	SSE 8	114.2	4.4	MSN	at depth
ME1031/011-2	06.01.2014	00:20	22° 59,97' S	12° 47,89' E	1588.2	SSE 7	306.4	2.6	CTD/RO	at depth
ME1031/011-3	06.01.2014	00:51	22° 59,99' S	12° 47,96' E	2111.5	SSE 7	96.7	0.5	MSN	at depth
ME1031/011-4	06.01.2014	01:14	23° 0,00' S	12° 47,97' E	2909.8	SSE 8	136.1	1	CTD/RO	at depth
ME1031/011-5	06.01.2014	01:40	23° 0,01' S	12° 47,98' E	2307.3	S 8	256.5	0.9	CTD/RO	at depth
ME1031/011-6	06.01.2014	01:43	23° 0,01' S	12° 47,99' E	2595.6	SSE 8	101.7	0.4	HN	surface
ME1031/011-7	06.01.2014	02:22	23° 0,01' S	12° 47,99' E	906.6	SSE 7	149.3	1.4	MSN	at depth
ME1031/011-8	06.01.2014	03:06	23° 0,01' S	12° 47,99' E	896.6	SE 7	309.8	2.1	MSN	at depth
ME1031/011-9	06.01.2014	04:43	23° 2,21' S	12° 46,76' E	2800.7	SSE 8	212	2.6	MSN	at depth
ME1031/011-10	06.01.2014	06:39	23° 5,46' S	12° 44,57' E	2907.9	SSE 4	237.6	2.8	MOC	max ropelength
ME1031/011-11	06.01.2014	08:43	23° 7,58' S	12° 42,67' E	1186.8	SSE 2	145.4	1.4	MSS	on deck
ME1031/011-12	06.01.2014	08:57	23° 7,81' S	12° 42,49' E	1195.8	SSE 2	211.8	3.2	MOC-D	to water
ME1031/013-1	06.01.2014	14:30	22° 59,93' S	12° 59,96' E	502.2	SW 6	231.6	0.8	MSS	surface
ME1031/013-1	06.01.2014	15:25	23° 0,19' S	12° 59,75' E	512.4	SSW 6	211.3	0.5	MSS	on deck
ME1031/014-1	06.01.2014	15:53	23° 0,63' S	13° 1,98' E	447.6	SSW 6	284.7	0.2	MOR	information
ME1031/014-1	06.01.2014	17:30	23° 0,92' S	13° 1,92' E	0.0	SSW 5	135.7	-0.5	MOR	Hydrophone on
ME1031/014-2	06.01.2014	17:55	23° 0,98' S	13° 1,96' E	0.0	SSW 6	75.1	-0.1	CTD/RO	surface
ME1031/014-3	06.01.2014	18:11	23° 0,98' S	13° 1,96' E	455.5	S 6	273.7	1.1	HN	on deck
ME1031/014-4	06.01.2014	18:48	23° 0,98' S	13° 1,97' E	458.2	SSW 5	111.7	5.7	MSN	at depth
ME1031/014-5	06.01.2014	19:13	23° 0,98' S	13° 1,96' E	454.7	S 5	201.3	0.6	CTD/RO	at depth
ME1031/014-6	06.01.2014	19:43	23° 0,98' S	13° 1,96' E	458.0	SSW 6	111.4	3.7	BWS	at sea bottom
ME1031/014-7	06.01.2014	20:17	23° 0,98' S	13° 1,96' E	454.4	S 5	292.8	3.5	BWS	at sea bottom
ME1031/014-8	06.01.2014	20:49	23° 0,98' S	13° 1,96' E	455.5	S 5	355.8	0.2	CTD/RO	at depth
ME1031/014-9	06.01.2014	21:39	23° 0,98' S	13° 1,96' E	454.6	SSW 3	295.1	4.7	MUC	at sea bottom
ME1031/014-10	06.01.2014	22:19	23° 1,32' S	13° 1,87' E	462.6	SW 2	292.2	3.4	MSN	at depth
ME1031/014-11	06.01.2014	23:34	23° 2,67' S	13° 0,67' E	517.4	WSW 1	282.2	3.2	MOC	max ropelength
ME1031/014-12	07.01.2014	01:35	23° 4,86' S	12° 57,35' E	642.2	WSW 2	208.4	2.7	MOC-D	max wire
ME1031/015-1	07.01.2014	04:22	23° 0,62' S	13° 4,63' E	373.1	NW 4	264.5	1	MSS	on deck
ME1031/016-2	07.01.2014	05:28	22° 59,99' S	13° 10,01' E	322.7	NW 4	83.7	0.8	HN	surface
ME1031/016-4	07.01.2014	06:30	23° 0,49' S	13° 9,81' E	325.8	NW 5	240.3	1	MSS	on deck
ME1031/017-1	07.01.2014	08:09	23° 1,12' S	13° 14,40' E	368.7	NNW 6	246	2.2	MSS	on deck
ME1031/018-1	07.01.2014	09:05	22° 58,63' S	13° 20,48' E	347.1	NNW 8	198.4	3.4	MSN	surface
ME1031/018-1	07.01.2014	09:18	22° 59,17' S	13° 20,36' E	349.1	NNW 7	183.3	2.7	MSN	at depth
ME1031/018-2	07.01.2014	09:55	23° 0,39' S	13° 20,13' E	352.8	NNW 8	322.7	0.6	CTD/RO	surface
ME1031/018-3	07.01.2014	10:00	23° 0,39' S	13° 20,13' E	352.4	NNW 8	275.2	0.8	SD	surface
ME1031/018-4	07.01.2014	10:11	23° 0,39' S	13° 20,13' E	351.1	NNW 8	235	0.4	HN	on deck
ME1031/018-5	07.01.2014	10:38	23° 0,69' S	13° 20,19' E	351.6	NNW 9	186.4	1.4	SLS	on deck
ME1031/018-6	07.01.2014	10:44	23° 0,73' S	13° 20,21' E	351.1	NW 8	290.2	1.2	TRIOS	surface
ME1031/018-7	07.01.2014	11:20	23° 0,73' S	13° 20,21' E	350.2	NW 7	79.8	0.5	CTD/RO	at depth
ME1031/018-8	07.01.2014	11:59	23° 0,73' S	13° 20,21' E	350.4	WNW 8	83.2	0.2	BWS	at sea bottom
ME1031/018-9	07.01.2014	12:14	23° 0,73' S	13° 20,21' E	350.8	WNW 8	284.1	0.3	HN	on deck
ME1031/018-10	07.01.2014	12:18	23° 0,73' S	13° 20,21' E	351.7	WNW 8	65.6	1.4	CTD/RO	surface
ME1031/018-11	07.01.2014	13:10	23° 0,74' S	13° 20,25' E	352.4	W 8	10.2	0.8	MUC	on deck
ME1031/018-12	07.01.2014	13:12	23° 0,74' S	13° 20,25' E	351.6	W 8	162.4	0.6	MSS	surface
ME1031/019-1	07.01.2014	15:39	23° 0,64' S	13° 25,06' E	304.1	WNW 7	137.2	0.9	MSS	on deck
ME1031/020-1	07.01.2014	16:18	23° 0,06' S	13° 30,05' E	235.9	WNW 7	357.4	1	SLS	into water
ME1031/020-2	07.01.2014	16:30	23° 0,22' S	13° 30,18' E	232.6	NW 6	135.2	0.6	TRIOS	surface
ME1031/020-3	07.01.2014	16:38	23° 0,20' S	13° 30,18' E	233.7	NW 6	315.3	1.6	HN	surface
ME1031/020-4	07.01.2014	16:53	23° 0,17' S	13° 30,15' E	232.9	NW 6	73.5	0.3	CTD/RO	surface
ME1031/020-5	07.01.2014	16:55	23° 0,17' S	13° 30,15' E	234.8	NW 6	86.4	1	SD	surface
ME1031/020-6	07.01.2014	17:29	23° 0,18' S	13° 30,16' E	234.0	NW 6	335	0.3	BWS	at sea bottom

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/020-7	07.01.2014	18:00	23° 0,18' S	13° 30,16' E	232.7	WNW 5	133	2.3	CTD/RO	at depth
ME1031/020-8	07.01.2014	18:17	23° 0,18' S	13° 30,16' E	234.2	WNW 5	9	1.1	BWS	at sea bottom
ME1031/020-9	07.01.2014	18:47	23° 0,18' S	13° 30,16' E	233.7	WNW 3	134	0.8	MUC	at sea bottom
ME1031/020-10	07.01.2014	19:51	23° 0,15' S	13° 30,23' E	231.9	NW 3	0	0.2	MSS	on deck
ME1031/021-1	07.01.2014	20:33	22° 59,96' S	13° 35,04' E	146.7	NW 4	331.4	0.4	MSS	surface
ME1031/022-1	07.01.2014	22:09	22° 58,80' S	13° 41,34' E	147.0	WNW 4	201.3	1.2	MSN	at depth
ME1031/022-3	07.01.2014	22:58	22° 59,65' S	13° 40,52' E	149.7	N 2	302.4	0.8	HN	on deck
ME1031/022-2	07.01.2014	23:02	22° 59,66' S	13° 40,50' E	148.9	N 2	305.6	0.2	CTD/RO	at depth
ME1031/022-4	07.01.2014	23:20	22° 59,69' S	13° 40,44' E	148.8	N 3	193.7	0.3	MSN	at depth
ME1031/022-5	07.01.2014	23:35	22° 59,74' S	13° 40,37' E	148.7	NNE 4	183.2	0.2	CTD/RO	at depth
ME1031/022-6	07.01.2014	23:52	22° 59,81' S	13° 40,28' E	148.1	N 4	274.8	0.3	BWS	at sea bottom
ME1031/022-7	08.01.2014	00:17	22° 59,84' S	13° 40,22' E	149.5	NNE 4	22.6	0.4	BWS	at sea bottom
ME1031/022-8	08.01.2014	00:43	22° 59,83' S	13° 40,23' E	149.1	NNE 4	243	0.6	MSN	at depth
ME1031/022-9	08.01.2014	01:03	22° 59,83' S	13° 40,24' E	148.1	NNE 5	125.2	0.6	MUC	at sea bottom
ME1031/022-10	08.01.2014	02:10	23° 0,05' S	13° 39,30' E	148.4	N 4	298	0.9	MSS	on deck
ME1031/022-11	08.01.2014	02:29	23° 0,35' S	13° 38,76' E	147.7	N 4	240.4	1.9	MSN	Hoisting
ME1031/022-12	08.01.2014	03:20	23° 1,34' S	13° 37,26' E	147.5	N 5	262.2	2.3	MOC	max ropelength
ME1031/024-1	08.01.2014	06:33	22° 59,94' S	13° 50,01' E	150.2	N 6	351.8	0.9	MSS	surface
ME1031/025-2	08.01.2014	07:47	23° 0,03' S	13° 51,98' E	142.7	N 8	155.3	0.3	SD	surface
ME1031/025-3	08.01.2014	07:53	23° 0,03' S	13° 51,98' E	145.0	N 9	0	0.1	HN	on deck
ME1031/025-4	08.01.2014	07:56	23° 0,03' S	13° 51,98' E	144.7	N 8	33.8	0.3	HN	on deck
ME1031/028-1	08.01.2014	10:52	23° 1,60' S	14° 1,72' E	135.1	WNW 6	333.6	0.2	SLS	into water
ME1031/028-2	08.01.2014	11:11	23° 1,60' S	14° 1,79' E	135.7	WNW 6	112.1	0.4	TRIOS	max. depth
ME1031/028-3	08.01.2014	11:31	23° 1,62' S	14° 1,84' E	0.0	WNW 5	89.3	-0.1	MOR	on the surface
ME1031/028-4	08.01.2014	12:29	23° 1,50' S	14° 1,60' E	131.9	WNW 5	187.2	0	CTD/RO	at depth
ME1031/028-5	08.01.2014	12:58	23° 1,50' S	14° 1,60' E	134.3	W 4	40.7	0	CTD/RO	surface
ME1031/028-6	08.01.2014	12:59	23° 1,50' S	14° 1,60' E	136.0	W 4	0	0	HN	surface
ME1031/028-7	08.01.2014	13:03	23° 1,50' S	14° 1,60' E	136.9	W 4	0	0.1	SD	on deck
ME1031/028-8	08.01.2014	13:05	23° 1,50' S	14° 1,60' E	134.5	W 4	308.4	0	HN	surface
ME1031/028-9	08.01.2014	13:25	23° 1,50' S	14° 1,60' E	132.2	W 5	268.6	0	BWS	at sea bottom
ME1031/028-10	08.01.2014	13:56	23° 1,50' S	14° 1,60' E	134.2	W 5	132	0	MUC	at sea bottom
ME1031/028-11	08.01.2014	14:19	23° 1,46' S	14° 1,64' E	135.3	W 4	50.3	0.3	MUC	at sea bottom
ME1031/028-12	08.01.2014	15:15	23° 0,91' S	14° 1,67' E	137.0	W 6	355.9	0.7	MSS	on deck
ME1031/029-1	08.01.2014	15:52	22° 59,90' S	14° 6,53' E	125.0	WSW 6	19.5	1.4	MSS	surface
ME1031/030-1	08.01.2014	17:11	23° 0,89' S	14° 10,01' E	118.1	WSW 5	1.8	2.7	MSN	at depth
ME1031/030-2	08.01.2014	18:00	22° 59,73' S	14° 10,00' E	127.8	SW 5	69.6	0.8	CTD/RO	at depth
ME1031/030-3	08.01.2014	18:18	22° 59,72' S	14° 10,04' E	119.9	SSW 4	231.5	0.3	MSN	at depth
ME1031/030-4	08.01.2014	18:34	22° 59,73' S	14° 10,04' E	127.6	SSW 5	70.4	0.5	CTD/RO	surface
ME1031/030-5	08.01.2014	18:35	22° 59,72' S	14° 10,04' E	127.0	SSW 5	0	0	HN	surface
ME1031/030-6	08.01.2014	19:16	22° 59,72' S	14° 10,04' E	127.4	SSW 4	0	0.2	RTR	on deck
ME1031/030-7	08.01.2014	19:23	22° 59,72' S	14° 10,04' E	120.1	SSW 4	312.4	0.5	BWS	surface
ME1031/030-8	08.01.2014	20:00	22° 59,73' S	14° 10,05' E	124.4	S 3	0	0	MUC	at sea bottom
ME1031/030-8	08.01.2014	20:00	22° 59,73' S	14° 10,05' E	124.4	S 3	0	0	MUC	hiev
ME1031/030-9	08.01.2014	20:31	22° 59,74' S	14° 10,07' E	126.3	S 3	155.9	1	MUC	hiev
ME1031/030-10	08.01.2014	20:56	23° 0,18' S	14° 10,09' E	126.7	SSE 3	170.6	1.6	MSN	at depth
ME1031/030-11	08.01.2014	22:05	23° 1,34' S	14° 10,10' E	126.4	SSE 3	178.1	0.8	MSS	on deck
ME1031/030-12	08.01.2014	22:29	23° 1,85' S	14° 9,93' E	118.2	SE 3	196.9	2.3	MOC-D	start heaving
ME1031/031-1	08.01.2014	23:30	22° 59,92' S	14° 13,03' E	106.6	SE 3	166.2	0.6	CTD/RO	at depth
ME1031/031-2	09.01.2014	00:16	23° 0,12' S	14° 12,98' E	108.1	SSE 2	163.7	0.3	MSS	on deck
ME1031/034-1	09.01.2014	02:38	23° 0,01' S	14° 21,98' E	39.5	SW 3	52.4	0.3	CTD/RO	at depth
ME1031/034-2	09.01.2014	02:49	23° 0,01' S	14° 21,98' E	38.8	SSW 4	208.2	0.3	BWS	surface
ME1031/034-3	09.01.2014	03:13	23° 0,01' S	14° 21,98' E	39.3	SSW 4	321.5	0.4	MUC	at sea bottom
ME1031/034-4	09.01.2014	03:15	23° 0,01' S	14° 21,98' E	39.1	SSW 4	265	0.2	HN	surface
ME1031/034-5	09.01.2014	03:39	23° 0,20' S	14° 21,85' E	39.7	SSW 4	217.9	0.5	MSS	on deck
ME1031/035-1	09.01.2014	10:20	21° 59,46' S	13° 40,94' E	117.0	S 4	233.7	1.9	MSN	surface
ME1031/035-2	09.01.2014	10:56	22° 0,12' S	13° 40,11' E	117.8	S 5	272.7	0	CTD/RO	surface
ME1031/035-3	09.01.2014	11:03	22° 0,12' S	13° 40,11' E	114.8	SSW 4	110.1	0	SD	surface
ME1031/035-4	09.01.2014	11:04	22° 0,12' S	13° 40,11' E	114.8	SSW 4	0	0	HN	surface
ME1031/035-5	09.01.2014	11:16	22° 0,12' S	13° 40,11' E	114.7	SSW 6	0	0	SLS	into water
ME1031/035-6	09.01.2014	11:50	22° 0,13' S	13° 39,96' E	114.0	SSW 6	271.1	0	BWS	at sea bottom
ME1031/035-7	09.01.2014	12:36	22° 0,13' S	13° 39,96' E	113.3	SSW 6	23.5	0	TRIOS	max. depth

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/035-8	09.01.2014	12:48	22° 0,13' S	13° 39,95' E	115.8	SSW 7	235.8	0.6	T-TRAW	
ME1031/036-1	09.01.2014	20:26	20° 59,06' S	12° 49,79' E	296.4	SSE 10	167.1	1.5	MSN	at depth
ME1031/036-1	09.01.2014	20:26	20° 59,06' S	12° 49,79' E	296.4	SSE 10	167.1	1.5	MSN	Hoisting
ME1031/036-2	09.01.2014	21:00	20° 59,74' S	12° 49,86' E	299.6	SSE 9	136.4	0	CTD/RO	surface
ME1031/036-3	09.01.2014	21:01	20° 59,74' S	12° 49,87' E	300.3	SSE 9	61.8	0	HN	surface
ME1031/036-4	09.01.2014	21:28	20° 59,81' S	12° 49,87' E	298.7	SSE 8	155.3	1.2	RTR	start trawling
ME1031/036-5	09.01.2014	22:10	21° 0,65' S	12° 49,95' E	301.2	SSE 9	175.9	1.2	RTR	end trawling
ME1031/036-6	09.01.2014	22:38	21° 0,72' S	12° 49,96' E	302.3	SSE 9	316.8	0	MUC	at sea bottom
ME1031/037-1	10.01.2014	05:03	20° 0,05' S	12° 45,12' E	116.6	SE 7	300.9	0	TRBM	on Ground
ME1031/037-2	10.01.2014	05:32	20° 0,03' S	12° 45,19' E	117.7	SE 7	89.1	0	CTD/RO	at depth
ME1031/037-3	10.01.2014	05:46	20° 0,04' S	12° 45,19' E	117.7	SE 7	263.7	-0.1	MSN	at depth
ME1031/037-4	10.01.2014	05:58	20° 0,04' S	12° 45,19' E	117.4	SE 6	98.9	0	SD	on deck
ME1031/037-5	10.01.2014	05:59	20° 0,04' S	12° 45,19' E	119.5	SE 6	286.8	0	HN	surface
ME1031/038-1	10.01.2014	07:39	19° 58,95' S	12° 30,02' E	148.2	SSE 9	182.7	2.2	MSN	at depth
ME1031/038-2	10.01.2014	08:16	19° 59,59' S	12° 29,83' E	150.2	SE 9	283	-0.1	SLS	on deck
ME1031/038-3	10.01.2014	08:24	19° 59,59' S	12° 29,81' E	149.8	SE 9	272	0	TRIOS	surface
ME1031/038-4	10.01.2014	08:51	19° 59,63' S	12° 29,80' E	150.4	SSE 10	231.3	1.2	RTR	start trawling
ME1031/038-5	10.01.2014	09:16	20° 0,26' S	12° 29,75' E	151.9	SE 9	167.6	1.6	RTR	start trawling
ME1031/038-6	10.01.2014	09:53	20° 0,64' S	12° 29,72' E	152.3	SSE 10	260.3	0	CTD/RO	at depth
ME1031/038-7	10.01.2014	09:57	20° 0,64' S	12° 29,72' E	153.0	SSE 9	280.4	0	SD	surface
ME1031/039-1	10.01.2014	13:41	19° 29,05' S	12° 9,98' E	231.2	S 9	132.5	1.4	MSN	at depth
ME1031/039-2	10.01.2014	14:23	19° 29,63' S	12° 9,99' E	233.2	S 10	0	0	MUC	at sea bottom
ME1031/039-3	10.01.2014	14:54	19° 29,63' S	12° 9,99' E	232.9	S 10	0	0	RTR	on deck
ME1031/039-4	10.01.2014	15:02	19° 29,71' S	12° 9,97' E	233.1	S 10	211.1	1.2	RTR	start trawling
ME1031/040-1	10.01.2014	18:36	19° 0,08' S	12° 9,94' E	123.0	SSE 10	141.2	1.5	MSN	Hoisting
ME1031/040-1	10.01.2014	18:57	19° 0,54' S	12° 9,92' E	122.3	SE 9	238.4	0.4	MSN	on deck
ME1031/040-2	10.01.2014	19:02	19° 0,54' S	12° 9,92' E	122.2	SE 9	103.4	0	HN	on deck
ME1031/040-3	10.01.2014	19:11	19° 0,54' S	12° 9,92' E	122.0	SE 9	94.8	0	CTD/RO	at depth
ME1031/040-3	10.01.2014	19:17	19° 0,54' S	12° 9,92' E	121.6	SE 8	90.5	0	CTD/RO	on deck
ME1031/040-4	10.01.2014	19:34	19° 0,74' S	12° 9,92' E	124.3	SE 8	173.4	1.1	RTR	end trawling
ME1031/040-4	10.01.2014	19:40	19° 0,85' S	12° 9,92' E	124.6	SE 8	165.3	1.2	RTR	on deck
ME1031/040-5	10.01.2014	19:47	19° 0,99' S	12° 9,92' E	125.2	SE 8	109.3	0.8	RTR	end trawling
ME1031/040-6	10.01.2014	19:54	19° 1,05' S	12° 9,92' E	126.1	SE 8	77.3	0	RTR	start trawling
ME1031/040-6	10.01.2014	19:59	19° 1,05' S	12° 9,92' E	125.2	SE 7	104.4	0	RTR	end trawling
ME1031/040-7	10.01.2014	20:06	19° 1,05' S	12° 9,92' E	125.7	SE 7	77.1	0	RTR	start trawling
ME1031/040-7	10.01.2014	20:08	19° 1,05' S	12° 9,92' E	125.3	SE 7	314.9	0	RTR	end trawling
ME1031/040-7	10.01.2014	20:10	19° 1,05' S	12° 9,92' E	126.2	SE 7	78	0	RTR	on deck
ME1031/041-1	10.01.2014	21:34	19° 0,08' S	12° 0,07' E	205.3	SE 9	221.7	1.5	MSN	Hoisting
ME1031/041-1	10.01.2014	22:00	19° 0,74' S	12° 0,06' E	209.8	SE 9	256.2	0.7	MSN	on deck
ME1031/041-2	10.01.2014	22:16	19° 0,74' S	12° 0,06' E	209.0	SE 8	33.8	-0.1	MUC	surface
ME1031/041-3	10.01.2014	22:45	19° 0,78' S	12° 0,01' E	210.8	SE 10	212.6	1.2	RTR	start trawling
ME1031/041-3	10.01.2014	22:56	19° 0,97' S	12° 0,01' E	211.2	SE 9	149.7	1.3	RTR	end trawling
ME1031/041-4	10.01.2014	23:17	19° 1,32' S	12° 0,01' E	212.6	SE 8	88.4	-0.1	RTR	start trawling
ME1031/041-4	10.01.2014	23:21	19° 1,29' S	11° 59,96' E	213.8	SE 8	346	-0.5	RTR	end trawling
ME1031/041-5	10.01.2014	23:29	19° 1,24' S	11° 59,88' E	213.8	SE 8	272.2	0.2	RTR	start trawling
ME1031/042-1	11.01.2014	05:36	17° 59,72' S	11° 40,51' E	0.0	SSE 12	14.1	-0.2	TRBM	Released
ME1031/042-2	11.01.2014	06:55	17° 59,83' S	11° 40,66' E	0.0	SSE 9	262.8	0	SLS	on deck
ME1031/042-3	11.01.2014	07:01	17° 59,83' S	11° 40,65' E	0.0	SSE 9	257.6	0.1	TRIOS	surface
ME1031/042-4	11.01.2014	08:02	17° 59,84' S	11° 40,77' E	118.3	SSE 8	267.1	-0.1	CTD/RO	at depth
ME1031/042-5	11.01.2014	08:33	17° 59,84' S	11° 40,77' E	117.5	SSE 8	278.3	0	TRBM	on Ground
ME1031/043-2	11.01.2014	13:08	17° 14,98' S	11° 39,90' E	70.8	S 7	112.8	0.1	HN	on deck
ME1031/043-1	11.01.2014	13:11	17° 14,99' S	11° 39,91' E	70.7	S 7	191.7	0	CTD/RO	at depth
ME1031/043-3	11.01.2014	13:12	17° 14,99' S	11° 39,91' E	72.5	S 7	62	0	SD	on deck
ME1031/043-4	11.01.2014	13:35	17° 15,02' S	11° 39,82' E	71.1	SSW 8	296	0	SLS	on deck
ME1031/043-5	11.01.2014	13:46	17° 15,04' S	11° 39,84' E	71.8	SSW 9	0	0	TRIOS	max. depth
ME1031/043-6	11.01.2014	14:06	17° 15,04' S	11° 39,85' E	70.8	SSW 8	115.8	0	BWS	surface
ME1031/043-7	11.01.2014	14:32	17° 15,04' S	11° 39,84' E	80.9	S 10	0	-0.1	MUC	at sea bottom
ME1031/044-1	11.01.2014	15:57	17° 14,09' S	11° 30,60' E	133.8	S 10	228.9	2	MSN	at depth
ME1031/044-2	11.01.2014	16:29	17° 14,90' S	11° 30,13' E	141.5	S 10	283	0.8	CTD/RO	surface
ME1031/044-3	11.01.2014	16:33	17° 14,91' S	11° 30,12' E	141.7	S 10	278.6	0.5	HN	surface
ME1031/044-4	11.01.2014	16:38	17° 14,93' S	11° 30,09' E	141.1	S 10	228.7	1	SD	on deck

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/044-5	11.01.2014	16:53	17° 15,06' S	11° 29,99' E	143.9 S	10	205.2	1.4	RTR	surface
ME1031/044-6	11.01.2014	17:32	17° 16,26' S	11° 29,32' E	152.8 S	9	234.9	0.2	RTR	start trawling
ME1031/044-7	11.01.2014	18:12	17° 16,26' S	11° 29,32' E	152.1 S	10	102.1	0.3	MSN	at depth
ME1031/044-8	11.01.2014	18:30	17° 16,26' S	11° 29,32' E	152.1 S	10	81.3	0.4	CTD/RO	at depth
ME1031/044-9	11.01.2014	18:47	17° 16,26' S	11° 29,32' E	152.7 S	11	299.4	0.2	BWS	at sea bottom
ME1031/044-10	11.01.2014	19:15	17° 16,26' S	11° 29,33' E	151.5 S	11	344.9	1.1	MUC	at sea bottom
ME1031/044-11	11.01.2014	19:39	17° 16,26' S	11° 29,33' E	152.6 S	11	289.6	0.3	VGRAB	at bottom
ME1031/044-12	11.01.2014	20:09	17° 16,57' S	11° 29,40' E	151.5 S	12	189.6	2.2	MSN	at depth
ME1031/044-13	11.01.2014	21:05	17° 17,88' S	11° 29,56' E	151.2 S	10	162.6	2.4	MOC-D	max wire
ME1031/045-1	11.01.2014	22:40	17° 14,00' S	11° 23,99' E	223.1 S	11	179.8	1.8	MSN	at depth
ME1031/045-2	11.01.2014	23:23	17° 14,97' S	11° 23,98' E	240.5 S	10	255.3	0.9	CTD/RO	at depth
ME1031/045-2	11.01.2014	23:28	17° 14,98' S	11° 23,99' E	239.8 S	10	254.7	0.7	CTD/RO	on deck
ME1031/045-3	11.01.2014	23:44	17° 15,19' S	11° 23,97' E	242.5 S	10	171	2	RTR	start trawling
ME1031/045-3	11.01.2014	23:54	17° 15,43' S	11° 23,95' E	243.7 S	10	181.7	1.7	RTR	end trawling
ME1031/045-4	12.01.2014	00:02	17° 15,47' S	11° 23,94' E	245.0 S	10	122.7	0.3	RTR	start trawling
ME1031/045-4	12.01.2014	00:08	17° 15,47' S	11° 23,94' E	244.5 S	10	82.8	0.8	RTR	end trawling
ME1031/045-5	12.01.2014	00:14	17° 15,47' S	11° 23,94' E	244.9 S	10	107.3	0.7	RTR	start trawling
ME1031/045-5	12.01.2014	00:18	17° 15,47' S	11° 23,94' E	245.0 S	10	267.5	0.9	RTR	end trawling
ME1031/045-6	12.01.2014	00:31	17° 15,47' S	11° 23,94' E	244.8 S	10	320.5	0.8	MSN	at depth
ME1031/045-7	12.01.2014	00:53	17° 15,47' S	11° 23,94' E	243.8 S	10	80.4	0.8	CTD/RO	at depth
ME1031/045-8	12.01.2014	01:03	17° 15,47' S	11° 23,94' E	244.3 S	11	300.5	0.6	HN	on deck
ME1031/045-9	12.01.2014	01:13	17° 15,47' S	11° 23,94' E	244.8 S	10	0	0.1	BWS	at sea bottom
ME1031/045-10	12.01.2014	01:44	17° 15,47' S	11° 23,94' E	243.9 SSE	10	218	0.2	MUC	at sea bottom
ME1031/045-11	12.01.2014	02:33	17° 16,69' S	11° 24,00' E	244.9 SSE	10	165.8	2.7	MSN	at depth
ME1031/045-12	12.01.2014	03:13	17° 18,09' S	11° 24,19' E	244.9 SSE	10	165.6	2.3	MOC	max ropelength
ME1031/046-1	12.01.2014	05:12	17° 13,95' S	11° 17,93' E	496.1 SSE	10	133	2.2	MSN	at depth
ME1031/046-2	12.01.2014	06:13	17° 15,03' S	11° 18,04' E	469.0 SSE	9	239.1	0.8	CTD/RO	at depth
ME1031/046-3	12.01.2014	06:36	17° 15,16' S	11° 18,05' E	466.6 SSE	11	183	1.4	RTR	start trawling
ME1031/046-3	12.01.2014	07:00	17° 15,77' S	11° 18,12' E	451.9 SSE	11	219.7	1.3	RTR	end trawling
ME1031/046-4	12.01.2014	07:16	17° 15,82' S	11° 18,12' E	450.2 SSE	11	56.3	0.7	RTR	on deck
ME1031/046-5	12.01.2014	07:31	17° 15,82' S	11° 18,12' E	450.2 SSE	10	98.1	0.8	MSN	at depth
ME1031/046-5	12.01.2014	07:31	17° 15,82' S	11° 18,12' E	450.2 SSE	10	98.1	0.8	MSN	Hoisting
ME1031/046-6	12.01.2014	07:48	17° 15,82' S	11° 18,12' E	451.3 SSE	10	225	1.1	CTD/RO	surface
ME1031/046-7	12.01.2014	07:55	17° 15,82' S	11° 18,12' E	451.5 SSE	10	307.1	0.6	SD	on deck
ME1031/046-8	12.01.2014	08:31	17° 15,82' S	11° 18,06' E	452.4 SSE	11	132.4	0.8	SLS	on deck
ME1031/046-9	12.01.2014	08:39	17° 15,82' S	11° 18,06' E	455.9 SSE	10	315.9	0.3	TRIOS	surface
ME1031/046-10	12.01.2014	08:58	17° 15,82' S	11° 18,06' E	453.7 SSE	11	109	0.6	HN	on deck
ME1031/046-11	12.01.2014	09:06	17° 15,82' S	11° 18,06' E	453.3 SSE	10	0	0.1	CTD/RO	surface
ME1031/046-12	12.01.2014	09:40	17° 15,82' S	11° 18,06' E	454.3 SSE	10	126.3	0.6	BWS	at sea bottom
ME1031/046-13	12.01.2014	10:16	17° 15,82' S	11° 18,06' E	453.5 S	9	28.2	0.3	MUC	at sea bottom
ME1031/046-14	12.01.2014	10:47	17° 15,82' S	11° 18,06' E	453.8 S	9	243.6	0.3	MUC	at sea bottom
ME1031/046-15	12.01.2014	11:46	17° 16,57' S	11° 18,33' E	432.6 SSE	9	179.5	1.6	MSN	at depth
ME1031/046-16	12.01.2014	12:46	17° 17,42' S	11° 18,47' E	418.1 S	10	189.1	2	MOC	max ropelength
ME1031/046-17	12.01.2014	14:33	17° 19,72' S	11° 18,12' E	421.8 S	10	160.2	2.5	MOC-D	max wire
ME1031/047-1	12.01.2014	16:35	17° 14,02' S	11° 9,94' E	1031.3 S	11	162.9	2.2	MSN	at depth
ME1031/047-2	12.01.2014	17:11	17° 15,04' S	11° 10,01' E	1015.4 S	11	130.5	0.4	CTD/RO	surface
ME1031/047-3	12.01.2014	17:13	17° 15,03' S	11° 10,01' E	1017.2 S	11	27	0.7	HN	surface
ME1031/047-4	12.01.2014	18:09	17° 15,07' S	11° 10,02' E	1015.5 S	11	188.7	1.4	RTR	start trawling
ME1031/047-5	12.01.2014	18:40	17° 15,49' S	11° 10,05' E	1013.5 SSE	11	224.7	1	RTR	on deck
ME1031/047-6	12.01.2014	18:41	17° 15,49' S	11° 10,05' E	1013.6 S	12	123.9	0.8	RTR	surface
ME1031/047-7	12.01.2014	19:01	17° 15,49' S	11° 10,05' E	1013.4 SSE	12	233.8	0.8	MSN	at depth
ME1031/047-8	12.01.2014	19:35	17° 15,49' S	11° 10,05' E	1014.3 SSE	13	317.1	0.7	CTD/RO	at depth
ME1031/047-9	12.01.2014	20:16	17° 15,49' S	11° 10,05' E	1014.0 S	13	281.5	0.7	CTD/RO	at depth
ME1031/047-10	12.01.2014	20:52	17° 15,49' S	11° 10,05' E	1013.3 S	13	229	0.5	BWS	at sea bottom
ME1031/047-11	12.01.2014	21:54	17° 15,49' S	11° 10,04' E	1015.4 S	13	0	0.2	MUC	at sea bottom
ME1031/047-12	12.01.2014	23:13	17° 16,63' S	11° 10,28' E	1005.0 SSE	13	154.3	0.8	MSN	at depth
ME1031/047-13	13.01.2014	00:44	17° 18,30' S	11° 10,63' E	934.1 SSE	12	127.7	0.9	MOC	max ropelength
ME1031/047-14	13.01.2014	02:53	17° 21,21' S	11° 10,70' E	839.8 SSE	13	176	1.2	MOC-D	max wire
ME1031/048-1	13.01.2014	06:14	17° 15,00' S	11° 0,00' E	2083.3 SSE	13	57.9	0.2	CTD/RO	at depth
ME1031/048-2	13.01.2014	06:15	17° 15,00' S	11° 0,00' E	2104.6 SSE	12	0	0.1	HN	surface
ME1031/048-3	13.01.2014	06:50	17° 15,00' S	11° 0,00' E	2104.8 SSE	11	55.6	1.1	SD	on deck

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/048-4	13.01.2014	07:15	17° 15,00' S	10° 59,97' E	2110.3	SSE 10		0	0.2 SLS	on deck
ME1031/048-5	13.01.2014	07:25	17° 15,01' S	10° 59,94' E	2111.2	S 11		89.5	0.6 CTD/RO	surface
ME1031/048-6	13.01.2014	08:45	17° 15,01' S	10° 59,94' E	2114.0	SSE 11		249.4	0.9 TRIOS	max. depth
ME1031/048-7	13.01.2014	09:10	17° 15,01' S	10° 59,94' E	2117.2	S 10		294.6	0.7 CTD/RO	at depth
ME1031/048-8	13.01.2014	10:04	17° 15,01' S	10° 59,94' E	2116.2	S 10		130	1.1 BWS	at sea bottom
ME1031/048-9	13.01.2014	11:17	17° 15,01' S	10° 59,94' E	2114.2	S 10		72.6	0.5 CTD/RO	at depth
ME1031/048-10	13.01.2014	12:14	17° 15,01' S	10° 59,94' E	2115.2	SSE 10		30.6	1.3 MUC	at sea bottom
ME1031/048-11	13.01.2014	13:51	17° 16,02' S	10° 59,81' E	2018.1	S 11		214.7	1.5 MOC	max ropelength
ME1031/048-12	13.01.2014	16:35	17° 21,60' S	11° 0,01' E	1825.9	S 11		186.4	1.7 MOC-D	max wire
ME1031/049-1	14.01.2014	12:22	19° 59,78' S	11° 29,91' E	775.7	SSW 3		139.5	0.4 MSS	on deck
ME1031/049-2	14.01.2014	12:26	19° 59,80' S	11° 29,92' E	773.4	SSW 3		256.8	0.3 SLS	into water
ME1031/049-3	14.01.2014	12:38	19° 59,85' S	11° 29,97' E	773.9	SW 3		223.7	-0.1 CTD/RO	surface
ME1031/049-4	14.01.2014	12:39	19° 59,85' S	11° 29,97' E	778.2	SSW 3		243.1	-0.1 HN	surface
ME1031/049-5	14.01.2014	12:45	19° 59,85' S	11° 29,97' E	772.9	SW 3		85.7	0 SD	on deck
ME1031/050-1	14.01.2014	14:28	19° 59,99' S	11° 34,92' E	680.1	WSW 2		172.6	0.4 MSS	on deck
ME1031/051-1	14.01.2014	15:09	19° 59,93' S	11° 39,99' E	581.7	SW 2		106	0.7 MSS	surface
ME1031/052-1	14.01.2014	17:36	20° 0,60' S	11° 44,92' E	492.2	SE 2		118.1	1 MSS	on deck
ME1031/053-1	14.01.2014	18:19	19° 59,97' S	11° 49,96' E	407.9	E 3		178	1.2 CTD/RO	surface
ME1031/053-2	14.01.2014	18:23	19° 59,97' S	11° 49,95' E	408.2	ESE 3		48.1	0.5 HN	surface
ME1031/053-3	14.01.2014	18:53	19° 59,97' S	11° 49,95' E	407.8	ESE 2		75.1	0.4 MSN	at depth
ME1031/053-4	14.01.2014	19:24	19° 59,97' S	11° 49,92' E	408.4	ESE 3		273.7	0.7 MUC	at sea bottom
ME1031/053-5	14.01.2014	19:52	20° 0,17' S	11° 49,92' E	410.5	ESE 3		184.4	1.1 RTR	start trawling
ME1031/053-6	14.01.2014	20:20	20° 1,01' S	11° 50,00' E	412.6	E 3		0	0.2 RTR	start trawling
ME1031/053-7	14.01.2014	20:36	20° 1,26' S	11° 50,03' E	415.3	SE 3		89	1.7 RTR	surface
ME1031/053-8	14.01.2014	20:40	20° 1,26' S	11° 50,03' E	414.9	SE 3		144.4	0.3 HN	surface
ME1031/053-9	14.01.2014	21:28	20° 2,16' S	11° 50,17' E	443.8	SE 5		160.7	2.3 MOC	max ropelength
ME1031/053-9	14.01.2014	21:28	20° 2,16' S	11° 50,17' E	443.8	SE 5		160.7	2.3 MOC	begin heave
ME1031/053-10	14.01.2014	22:56	20° 4,29' S	11° 49,78' E	444.1	ESE 5		169.6	1.3 MSS	on deck
ME1031/054-1	14.01.2014	23:48	19° 59,97' S	11° 54,96' E	369.8	E 4		159.8	0.4 MSS	surface
ME1031/054-1	15.01.2014	00:38	20° 0,77' S	11° 54,66' E	374.6	ENE 4		222.8	1.3 MSS	on deck
ME1031/055-1	15.01.2014	01:24	20° 0,03' S	11° 59,93' E	338.0	E 1		174.5	0.9 MSS	surface
ME1031/055-1	15.01.2014	02:13	20° 0,86' S	11° 59,53' E	341.0	SE 3		186.2	0.9 MSS	on deck
ME1031/056-1	15.01.2014	03:00	19° 59,99' S	12° 4,99' E	306.2	S 2		183.7	1.3 MSS	surface
ME1031/056-1	15.01.2014	03:47	20° 0,73' S	12° 5,00' E	306.0	S 3		170.1	1.8 MSS	on deck
ME1031/057-1	15.01.2014	04:27	20° 0,02' S	12° 8,94' E	929.7	S 3		187.8	0.8 CTD/RO	surface
ME1031/057-2	15.01.2014	04:56	20° 0,02' S	12° 8,94' E	281.4	SSE 4		279.7	1 HN	on deck
ME1031/057-3	15.01.2014	04:58	20° 0,02' S	12° 8,94' E	281.9	SSE 4		260.3	1.2 MSN	surface
ME1031/057-4	15.01.2014	05:22	20° 0,42' S	12° 8,89' E	282.7	S 4		185.9	3.2 RTR	start trawling
ME1031/057-4	15.01.2014	05:41	20° 0,93' S	12° 8,77' E	285.0	S 4		263.5	0.5 RTR	start trawling
ME1031/057-4	15.01.2014	05:47	20° 0,93' S	12° 8,76' E	283.3	S 4		343.6	0.6 RTR	on deck
ME1031/057-4	15.01.2014	05:51	20° 0,93' S	12° 8,74' E	286.8	S 4		18	0.9 RTR	start trawling
ME1031/057-5	15.01.2014	06:01	20° 0,92' S	12° 8,70' E	284.9	SSE 6		99.8	1 SD	on deck
ME1031/057-6	15.01.2014	06:02	20° 0,92' S	12° 8,69' E	286.6	SSE 5		221.3	0.3 SLS	into water
ME1031/057-7	15.01.2014	07:15	20° 1,72' S	12° 8,37' E	288.0	SE 6		165.3	1.2 MSS	on deck
ME1031/058-1	15.01.2014	08:12	19° 59,65' S	12° 14,95' E	244.8	ESE 6		220.7	0.6 MSS	surface
ME1031/058-1	15.01.2014	09:04	20° 0,28' S	12° 14,96' E	249.0	ESE 4		227.1	0.7 MSS	on deck
ME1031/059-1	15.01.2014	09:49	19° 59,95' S	12° 19,97' E	212.5	SE 1		73.5	1.2 CTD/RO	surface
ME1031/059-2	15.01.2014	09:50	19° 59,95' S	12° 19,97' E	212.9	SE 1		271.8	1.6 SD	surface
ME1031/059-3	15.01.2014	09:56	19° 59,95' S	12° 19,97' E	213.3	S 2		91.3	0.8 HN	on deck
ME1031/059-4	15.01.2014	09:58	19° 59,95' S	12° 19,97' E	213.2	SSE 2		145.2	0.4 HN	surface
ME1031/059-5	15.01.2014	10:24	19° 59,95' S	12° 19,97' E	212.5	SE 2		155	0.4 MUC	at sea bottom
ME1031/059-6	15.01.2014	11:58	20° 1,10' S	12° 19,13' E	225.5	SSW 4		233.9	1.5 MSS	on deck
ME1031/060-1	15.01.2014	13:10	19° 59,96' S	12° 24,98' E	196.6	SSW 5		155.1	0.4 MSS	surface
ME1031/060-1	15.01.2014	13:55	20° 0,24' S	12° 24,68' E	196.7	SSW 5		260.6	1 MSS	on deck
ME1031/061-1	15.01.2014	14:38	20° 0,00' S	12° 29,99' E	149.5	S 5		165	0.5 SLS	into water
ME1031/061-2	15.01.2014	14:53	19° 59,99' S	12° 29,99' E	149.7	SSE 5		230	0.5 CTD/RO	surface
ME1031/061-3	15.01.2014	14:55	19° 59,99' S	12° 29,99' E	150.4	SSE 5		271.7	1.7 SD	surface
ME1031/061-4	15.01.2014	15:03	19° 59,99' S	12° 29,99' E	150.6	SSE 6		65.6	0.3 HN	on deck
ME1031/061-5	15.01.2014	15:27	20° 0,32' S	12° 29,97' E	151.4	SSE 6		179.3	1.8 RTR	start trawling
ME1031/061-5	15.01.2014	15:49	20° 0,90' S	12° 29,94' E	151.8	SE 5		92.8	0.3 RTR	start trawling
ME1031/061-5	15.01.2014	15:58	20° 0,90' S	12° 29,94' E	152.0	SE 5		86.2	1.7 RTR	on deck



Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/061-6	15.01.2014	16:04	20° 0,90' S	12° 29,94' E	152.1	SE 6	243	1.3	MSS	surface
ME1031/062-1	15.01.2014	17:33	20° 0,01' S	12° 34,96' E	134.2	SE 3	253.8	0.7	MSS	surface
ME1031/062-1	15.01.2014	18:14	20° 0,55' S	12° 34,84' E	137.4	ESE 4	143.6	1.4	MSS	on deck
ME1031/063-1	15.01.2014	18:55	19° 59,97' S	12° 39,96' E	126.0	ESE 4	156.6	0.5	MSS	surface
ME1031/063-1	15.01.2014	19:34	20° 0,60' S	12° 39,97' E	126.5	ESE 3	182.6	1.1	MSS	on deck
ME1031/064-1	15.01.2014	20:13	19° 59,94' S	12° 44,98' E	117.5	ESE 4	254.2	0.8	MSS	surface
ME1031/064-1	15.01.2014	20:48	20° 0,50' S	12° 44,98' E	117.7	SE 4	175.1	1	MSS	on deck
ME1031/065-1	15.01.2014	21:36	19° 59,94' S	12° 50,99' E	97.1	SSE 3	337.1	0.3	CTD/RO	surface
ME1031/065-2	15.01.2014	21:49	19° 59,94' S	12° 50,99' E	96.0	SE 4	208.1	0.3	HN	on deck
ME1031/065-3	15.01.2014	21:54	19° 59,94' S	12° 50,98' E	96.3	SE 4	153.8	0.6	MUC	surface
ME1031/065-3	15.01.2014	21:58	19° 59,94' S	12° 50,98' E	96.6	SE 3	293.6	0.4	MUC	at sea bottom
ME1031/065-3	15.01.2014	21:59	19° 59,94' S	12° 50,98' E	93.4	SE 3	44	0.3	MUC	hiev
ME1031/065-4	15.01.2014	22:45	20° 0,60' S	12° 50,70' E	95.9	SE 4	243.9	0.7	MSS	on deck
ME1031/065-5	15.01.2014	23:04	20° 0,71' S	12° 50,69' E	102.1	SE 4	180.1	1.9	MOC-D	to water
ME1031/065-5	15.01.2014	23:20	20° 1,19' S	12° 50,57' E	100.5	SE 4	181.5	2.6	MOC-D	on deck
ME1031/066-1	16.01.2014	00:02	19° 59,97' S	12° 54,94' E	161.5	SE 4	212.6	1.5	MSS	surface
ME1031/066-1	16.01.2014	00:32	20° 0,43' S	12° 54,50' E	0.0	ESE 4	229.5	1.8	MSS	on deck
ME1031/067-1	16.01.2014	01:14	19° 59,99' S	12° 59,94' E	87.9	ESE 3	146.2	0.3	CTD/RO	surface
ME1031/067-2	16.01.2014	01:18	20° 0,00' S	12° 59,94' E	28.7	SE 2	108.3	0.6	HN	surface
ME1031/067-1	16.01.2014	01:24	20° 0,00' S	12° 59,94' E	28.5	SSE 1	242.5	1.5	CTD/RO	on deck
ME1031/067-3	16.01.2014	01:32	20° 0,00' S	12° 59,94' E	28.3	SSW 3	232.8	0.9	MUC	surface
ME1031/067-4	16.01.2014	01:59	20° 0,22' S	13° 0,04' E	28.1	S 7	91.1	0.7	MSS	on deck
ME1031/068-1	16.01.2014	20:56	23° 2,54' S	12° 18,47' E	0.0	SE 5	183.3	0.6	MOR	Hydrophone into the water
ME1031/068-1	16.01.2014	21:00	23° 2,55' S	12° 18,46' E	0.0	SE 6	305.8	0	MOR	Hydrophone on Deck
ME1031/068-1	16.01.2014	21:13	23° 2,90' S	12° 17,98' E	0.0	SE 5	259.3	1	MOR	Hydrophone into the water
ME1031/068-1	16.01.2014	21:15	23° 2,90' S	12° 17,94' E	0.0	SE 5	257.9	0.8	MOR	Hydrophone on Deck
ME1031/068-1	16.01.2014	21:34	23° 1,92' S	12° 18,36' E	0.0	SE 4	42.5	0.8	MOR	Hydrophone into the water
ME1031/068-1	16.01.2014	21:36	23° 1,89' S	12° 18,38' E	0.0	SE 4	360	0.5	MOR	Hydrophone on Deck
ME1031/068-1	16.01.2014	21:55	23° 2,69' S	12° 19,09' E	0.0	ESE 4	220	1	MOR	Hydrophone into the water
ME1031/068-1	16.01.2014	22:00	23° 2,77' S	12° 19,09' E	0.0	SE 3	84.2	2.2	MOR	Hydrophone on Deck
ME1031/069-1	17.01.2014	02:05	23° 0,95' S	13° 1,78' E	0.0	SSW 1	352	-0.1	MOR	Hydrophone into the water
ME1031/069-1	17.01.2014	02:11	23° 0,94' S	13° 1,80' E	0.0	SSW 1	124.4	0.8	MOR	Hydrophone on Deck
ME1031/069-1	17.01.2014	02:18	23° 0,71' S	13° 1,78' E	0.0	SW 1	330.4	1	MOR	Hydrophone into the water
ME1031/069-1	17.01.2014	02:21	23° 0,70' S	13° 1,76' E	0.0	WSW 1	318.8	0.2	MOR	Hydrophone on Deck
ME1031/069-1	17.01.2014	02:32	23° 1,04' S	13° 2,03' E	0.0	WNW 2	149	0.6	MOR	Hydrophone into the water
ME1031/069-1	17.01.2014	02:35	23° 1,06' S	13° 2,01' E	0.0	W 1	200	0.1	MOR	Hydrophone on Deck
ME1031/069-1	17.01.2014	02:46	23° 1,08' S	13° 1,58' E	0.0	WSW 0	237.6	0.6	MOR	Hydrophone into the water
ME1031/069-1	17.01.2014	02:49	23° 1,09' S	13° 1,57' E	0.0	W 1	245.7	0.3	MOR	Hydrophone on Deck
ME1031/070-1	17.01.2014	08:26	22° 59,75' S	14° 3,04' E	0.0	NE 4	171.7	1.1	MOR	information Hydrophone into the water
ME1031/070-1	17.01.2014	08:26	22° 59,75' S	14° 3,04' E	0.0	NE 4	171.7	1.1	MOR	information Hydrophone into the water
ME1031/070-1	17.01.2014	08:29	22° 59,80' S	14° 3,04' E	0.0	NE 4	172.8	1	MOR	released
ME1031/070-1	17.01.2014	08:43	22° 59,96' S	14° 3,06' E	126.7	NE 4	331	-0.3	MOR	on the surface
ME1031/070-1	17.01.2014	09:24	23° 0,29' S	14° 3,17' E	125.5	NE 4	186.9	0.9	MOR	information headbuoy on deck
ME1031/070-1	17.01.2014	09:25	23° 0,30' S	14° 3,18' E	124.7	NE 4	170.5	0.8	MOR	mooring on deck
ME1031/070-1	17.01.2014	09:27	23° 0,33' S	14° 3,19' E	124.7	NE 4	182	0.8	MOR	mooring on deck
ME1031/071-1	17.01.2014	09:50	23° 0,25' S	14° 3,51' E	124.7	NNE 3	134.2	0	MOR	information Hydrophone into the water
ME1031/071-1	17.01.2014	10:04	23° 0,21' S	14° 3,53' E	123.7	N 2	4.9	0.5	MOR	released
ME1031/071-1	17.01.2014	10:07	23° 0,21' S	14° 3,54' E	123.2	N 3	0	0	MOR	released
ME1031/071-1	17.01.2014	10:09	23° 0,21' S	14° 3,54' E	123.7	N 3	147.4	0	MOR	on the surface

Station	Date	Time	PositionLat	PositionLon	Depth [m]	Wind [m/s]	Course [°]	Speed [kn]	Gear	Action
ME1031/071-1	17.01.2014	10:39	23° 0,32' S	14° 3,93' E	125.7	N 3	177.8	0	MOR	headbuoy on deck
ME1031/071-1	17.01.2014	11:20	23° 0,30' S	14° 3,91' E	125.2	NW 2	132.1	0	MOR	mooring on deck
ME1031/072-1	17.01.2014	11:50	23° 1,39' S	14° 1,78' E	128.5	WNW 3	57.2	2.2	MOR	information
ME1031/072-1	17.01.2014	12:36	23° 1,36' S	14° 1,74' E	128.7	W 5	28.9	0	MOR	surface Rubberboat in water
ME1031/072-1	17.01.2014	12:50	23° 1,42' S	14° 1,99' E	129.2	W 6	228.4	0	MOR	water
ME1031/072-1	17.01.2014	13:12	23° 1,50' S	14° 2,27' E	128.5	WSW 5	119.9	-0.1	MOR	on deck