

RV *Maria S. Merian* Short Cruise Report MSM 16/1ab GEBGAS Rostock-Visby-Emden

July 31st - August 22nd, 2010



edited by

Gregor Rehder

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1. Mission summary

Leg MSM 16/1ab of RV Maria S. Merian addressed the methane cycle in the Baltic Sea, with research areas in Arkona Basin, the Bornholm Basin, the Baltic Proper, the Bothnian Bay and Bothnian Sea. The overarching goal was to gain quantitative and mechanistic insights into the generation, accumulation, and flux of methane from Baltic Sea sediments, in particular to understand their biogeochemical controls and potential change due to eutrophication and climate change. Shallow gas occurrences were mapped by various geoacoustic methods, and the diffusive methane flux as well as the rate of oxidation by sulphate were quantified based on geochemical analysis of long sediment cores. Investigations on sediments addressed the history of salt water inflows into the Baltic, as well as the temporal evolution of hypoxia. Areas of enhanced methane flux were investigated in detail using single and multibeam seismoacoustics, sediment geochemistry as well as water column chemical, microbiological, and hydro-graphic data. The cruise fullfilled important goals of the projects BALTIC GAS, HYPER, and INFLOW, all funded within the BONUS+ initiative

2. Participating organizations and Cruise participants

2.1 Particpating organizations

- AWI Alfred-Wegener-Institute of Polar and Marine Research, Bremerhaven, Germany
- CfG Center for Geomicrobiology, Aarhus University, Denmark
- GTK Geological Survey of Finland, Finland
- IOW Leibniz-Institut für Ostseeforschung Warnemünde an der Universität Rostock, Germany
- NERI National Environmental Research Institute, Aarhus, Denmark
- MPI-Bremen Max Planck Institut für Marine Mikrobiologie, Germany
- UBremen University of Bremen, FB5 Geosciences, Bremen, Germany
- ULund Lund University, Department of Geology, Lund, Sweden
- UStockholm Stockholm University, Department of Stockholm, Germany of Geological Sciences, Stockholm, Sweden

2.2. **Participants**

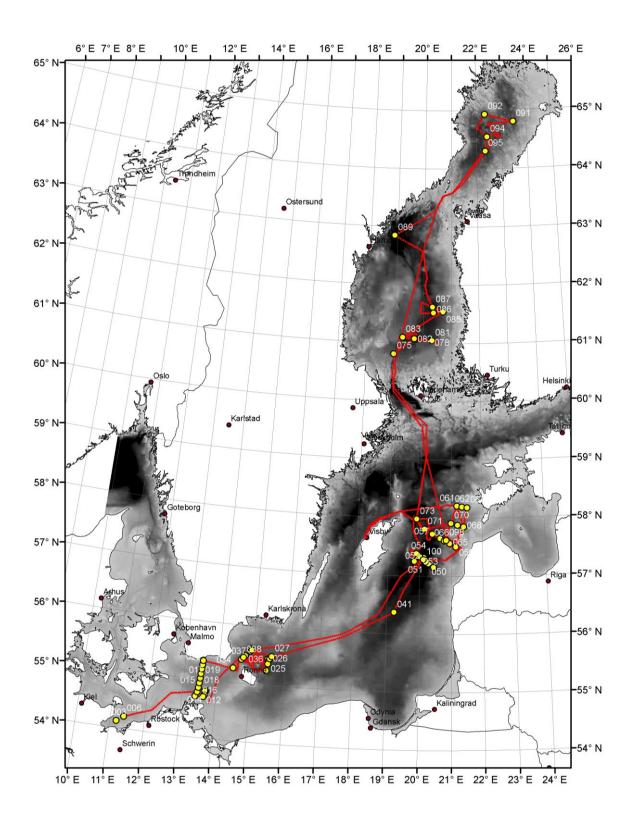
MSM 16/1 – Leg a Rostock – Visby July 31st, 2010 - August 8th, 2010

1. Rehder, Gregor	Fahrtleiter / Chief Scientist	IOW
2. Jorgensen, Bo Barker	Coring/Biogeochemistry	MPI/CfG
3. Flury, Sabine	Pore water geochemistry	CfG
4. Lapham, Laura	Pore water geochemistry	CfG
5. Fossing; Henrik	Pore water methane	NERI
6. Nguyen, Thang Manh	Incubation	MPI
7. Oehler, Till	In situ pore water sampling	AWI
8. Gülzow, Wanda	Water column/surface methane	IOW
9. Jeschek, Jenny	Water column/surface methane	IOW
10. Schmale Oliver	Water column/surface methane	IOW
11. Lage, Susanne	Water column/surface methane	IOW
12. Schneider, Jens	Multibeam	IOW
13. Endler, Rudolph	Coring, Acoustics	IOW
14. Nickel, Gerald	Acoustics	IOW
15. Kurth, Jorn	Coring	IOW
16. Frahm, Andreas	Coring	IOW
17. Plewe, Sascha	Coring, core logging	IOW
18. Krüger, Siegfried	CTD/Pump CTD	IOW
19. Prien, Ralf	CTD/mooring recover	IOW
20. Conley, Dan	Logging magnetics, Core description	ULund
21. Lougheed, Bryan	Logging magnetics, Core description	ULund
22. Toth, Zsuzsanna	Acoustics	UBremen

MSM 16/1 – Leg b Visby - Emden August 8th, 2010 – August 22nd, 2010

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14. Krüger, Siegfried	CTD/Pump CTD	IOW
15. Lenz, Conny	Logging magnetics, Core desci	ription ULund
16. Reinholdsson, Maya	Logging magnetics, Core desci	•
17. Virtasalo, Joonas	Coring	UTurku
18. Spiess, Volkhard	Multichannel seismic	MARUM / FB5
19. Fekete, Noémi	Multichannel seismic	MARUM / FB5
20. Keil, Hanno	Multichannel seismic	MARUM / FB5
21. Toth, Zsuzsanna	Multichannel seismic	MARUM / FB5
22. Brüchert, Volker	Biogeochemistry	UStockholm
23. Gintes, Livia	Biogeochemistry	UStockholm
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3. Map with cruise track



Overview map of Expedition MSM 16/1ab in the Baltic with bathymetry, cruise track and indication of individual stations

4. Cruise Narrative

Saturday, July 31st

RV Maria S. Merian left Rostock at 9.am local time on July 31st under friendly weather conditions to begin expedition MSM 16/1. Four containers of scientific equipment had been brought to the ship on July 29th, most of its content used to install the laboratories of the ship and secured for rougher seas, instruments were already up and running and chemicals prepared, as according to the science plan the ship was to hit its first station in Mecklenburg Bay after only 2h. However, an emergency call from RV Alkor asked for help after the ship had lost an ROV in the north of the island of Fehmarn. With a size of a little more than 1m, it appeared that the instrument could potentially be found by RV Maria S.Merian's excellent shallow multibeam system. So the 2 h of steaming were used to define a grid for a Multibeam survey around the area of loss. While the survey clearly showed the ability of the instrument to reveal objects of this size at the seafloor, we were unable to help our colleagues from Kiel, as the seafloor was too rocky and the tremendous amount of rocks and boulders at the seafloor of a size similar to the dimension of the lost device hampered the effort.

So, with some delay, the vessel approached the first scientific target of the expediton MSM 16/1, an area with a shallow methane transitions zone, where a series of Rumohr and Frahm cores were taken as first of a set of 3 stations to investigate changes in the imprint of methane oxidation processes in the sediments along the salinity- (and thus sulphate-)gradient of the Baltic (station 03).

A shallow water multibeam and Parasound survey was then used to seek for methane escaping into the water column as bubbles in an area where indications for this phenomenon existed (stations 04 - 05). After a CTD cast to sample for the methane distribution, FS Maria S Merian headed to the Arkona Basin over night and spent the early morning hours to map the size and shape of a pockmark structure formerly found by single beam echosounder system (station 08).

Sunday, August 1st

The daylight program of August 1st was mainly used to cover 4 stations, each with a program of a CTD cast to determine the water column structure as well as oxygen and methane content of the water column, and a series of Rumohr-, Frahm-, and gravity cores. While the first of these stations (station 009) was located in the center of the pockmark structure mapped in the early morning, the section of the remaining 3 coring positions (stations 10-12) was designed to investigate the geophysical and geochemical signature of the sediments along a section where the Holocene mud layer is potentially thinning out and containing an increasing fraction of sandy material.

The CTD casts revealed a methane content exceeding 100 nm in a saline, particle-rich bottom water layer, which had not been observed in casts at very similar positions taken in December 2009 on RV Poseidon. The coring showed considerable increase in methane concentrations up to several mM already in the upper m of the water column covered by the Rumohr-corer, and concentrations remained high all the way down to the end of the gravity cores with lengths of up to 11m.

The time from the evening to the next morning was spent on a hydrographic section consisting of 9CTD casts (stations 13-21) crossing the Arkona Basin from South to North, and was designed to determine the methane inventory across the westernmost basin of the Baltic Sea. With current data from hydrographic modeling, one of the aims is to estimate the in- and outflow of methane across this line. The section showed the existence of the methane and particle-enriched saline bottom laver all over the basin except for the very north, a result of the strong isopycnal showling towards the south.

With this, the scientific program in the Arkona Basin was ended.

Monday, August 2nd

The transit to the Bornholm Basin was used for a multibeam survey (shallow water MB EM 1002) of one of the main flow paths of deep saline water around Bornholm, a request of the hydrographic modelers of IOW to better constrain bottom shear stress and thus, boundary mixing. Smoothly operating from a scientific point of view (station 23), this station was a demanding task for the bridge, as the survey went into one of the main ship traffic routes of the Baltic, and close to the Danish-Swedish border. In the early afternoon, we sampled a station (024) by a series of a CTD, five Rumohr cores and 2 gravity cores. The site was selected as a key site showing the transition from the gas-rich Littorina mud layer to methane-poor Ancylus lake deposits and deeper strata already observed during Poseidon cruise P392 in December, 2009. On top of the standard geochemical program, methanogenesis and methane oxidation rate measurements as well as microbiological techniques will be used in particular to understand the processes behind the decreasing concentrations of methane towards the older post glacial and late glacial strata. It appears that methane consumption in the post glacial Ancylus clay might be driven by reduction by ferric iron which has not yet been completely sulphidized.

Due to the same scientific interest, a site some 7 nm to the north (025) was sampled, at the time only for the standard parameters, which would allow clarification whether further detailed sampling was required. At 10 pm ship time, the day program ended with the ship's labs overloaded with sediments and experiments to be started.

During the night, a couple of CTD stations served the purpose to map a permanent anomaly of the methane distribution in the water column around 60 m water depth already observed during the cruises Pos 392 and MSM 08, as well as to assess the extent of an extremely CH4-enriched bottom water layer observed at stations 024 and 025.

Tuesday, August 3rd

Closely after the date shifted, a series of long lines of single beam echosounder surveys was used to enhance our spatial coverage of data about the distribution of free gas in the sediments, followed by a multibeam track crossing the boundary between a zone of free gas and a zone without gas in the upper sediment. The scope of this station (029) was to test whether the distribution of free gas can be extracted from the backscatter signal of the MB system This proved extremely successful, and was ground-truthed by coring at two stations inside and outside the gassy area (stations 31 and 32).

The way back from this working area to the SE (station 33), where the pump-CTD was to be used for the first time during this cruise to get high-resolution insight into the enormously enriched methane boundary layer at this site, was used to further fill the gaps in the mapping of the gas distribution by single beam echosounding. During the following pump-CTD station (034), it was possible to reveal that the methane-rich layer with concentrations in the range of 1 micromol/L extended uniformly over several meters above the seafloor. The almost unlimited supply of water from single depth levels provided by the pump CTD allowed taking a set of samples for incubation experiments on top of the standard seawater program. These are dedicated to test the ad hoc hypothesis that the methane is partly produced within the fluffy layer with a high content of fresh organic material rather than in the sediments.

Wednesday, August 4th

The remainder of the night was spent with an additional single beam echosounder line (035), which ended at the first of three CTD stations (036-038) which were arranged to cover the main inflow paths of deep water from west into the Bornholm Basin north of Bornholm. The scope was to investigate whether this water already shows the permanent enrichment in about 60 m water depths, as well as to further constrain the lateral extent of the strongly enriched bottom waters. The gaining of additional cores of different lengths at the position partly sampled already on August 2nd (040 and 025 on same location) for enhanced studies and incubation experiments then completed the field work in the Bornholm basin and in the

early afternoon, RV *Maria S Merian* started its 140 nm mile transit to the next working area, the Stolpe Foredelta.

Thursday, August 5th

We arrived in the Stolpe Fordelta region 2 hours after midnight. A CTD cast (041) was used to obtain a sound profile from the water body in the area for the following MB survey, as well as to further map the methane-enriched bottom layer. In the following, a 5h multibeam (EM 1002) survey was dedicated to map an area where some channel-like structures appear to be "carved" into the upper sedimentary layer. These structures were first detected by single beam echosounding and interpreted as pockmarks, which are often a sign for gas ebullition from the seafloor. While a survey during Baltic Gas cruise P392 with RV Poseidon had already led to the impression that the features were connected, the high resolution bathymetric survey clearly revealed a system of scarps, which from a first glance can neither be assigned to trawled gear, nor to erosion from focused boundary currents. Though remaining enigmatic in their origin, we can exclude the presence of pockmarks in the area, and together with some earlier sedimentary and echo sounding work, we can conclude that this area is of neglible importance for the methane cycle of the Baltic Sea.

After moving 60 nm further north, we arrived at 55° 17' N, 19° 50' east, where a major task was awaiting us: the recovery of the new profiling mooring GODDESS (**Go**tland **D**eep **E**nvironmental **S**ampling **S**tation), which had been launched about 3 weeks earlier from RV *Alkor*. The system uses and underwater winch situated below the redoxcline to move a sensor unit at given time intervals through the water column. For this trial case, the system was set to take 4 CTD casts (with additional sensor for oxygen) every 4 hours. It was the first long-term deployment of the instrument, which is an integral part of the future long-term observation efforts of IOW in the Gotland Deep, where it will be almost permanently deployed in the near future. While the recovery of the mooring appeared to work smoothly at the beginning, the sensor package was ripped off during recovery. After getting the winch, rope, and bottom gear aboard, the profiling unit was secured using the ship's zodiac. A first glance at the data shows that the instrument seems to have worked flawlessly, a major step toward continuous high spatiotemporal data acquisition of water column properties in the Gotland Deep.

After the successful recovery of GODDESS, we headed toward a key station for sedimentary geochemical and biogeochemical work at a station dedicated to detailed work on the formation and destruction of barite in different strata of the sediments in the Gotland Basin. The sampling of this key station (045) comprised not less than 11 cores in total, finding their way into the different labs, isotope container, and the cool storage for further analysis ashore. The night was spent for a single beam echosounder survey first heading NW, continued by a section crossing the western part of the GD in NW-SE direction (046) and extending a line in the eastern part of the GD already recorded during cruise P392 of RV *Poseidon.* The remainder of the night was spent with a pump CTD cast in the central GD, where the upper 30 m of the water column were sampled with high resolution to address the still enigmatic process of methane production in the upper, well oxygenated water column (047).

Friday, August 6th

This day was dedicated to a transect of CTD and coring stations based on the echosounder transects of station 046 and its northeastward extension recorded during P 392. The six stations (049 to 054) extend from the SE from a position close to the point where the depth of the redoxcline "hits" the seafloor towards the NW until the seafloor is mostly free of organic-rich Littorina stage sediments, including the central Gotland Deep station (052). At this station, additional long cores were taken for paleomagnetic studies and a biomarker study to look at signs of methanotrophic processes. The water column methane distribution still shows a slight maximum at around 60 m, but is dominated by the known high concentrations in the anoxic part of the water column. The coring revealed high methane increase in some,

but not all of the stations and point to a strong dependence of the flux of methane from the thickness of the organic-rich Littorina mud deposits.

The night was spent with a long single beam echosounder survey (055), which was used to first proceed northward and then to define a NW-SE trending section across the central Baltic from the Faro Depression to the Piltene Depression.

Saturday, August 7th

Based on the results of station 055, a section of 5 CTD/coring stations was selected, of which the three stations (56-58) furthest to the SE were sampled in the remaining time of the first cruise leg. Station 056 in the Piltene Depression was located above a shallow gas occurrence, and consequently showed a very strong methane gradient in the upper sediment column. The water column methane profile showed a distinct maximum in about 25m leading to enhanced surface concentrations, which confirms the observations of a continuous CH4 monitoring system installed by IOW on a ship-of-opportunity line between Helsinki and Travemünde. Further towards the NW, the methane concentrations in this depth layer gradually decrease (057-058). In the same direction, the methane gradients in the underlying sediments got less steep, with no detectable gradient measured in the upper meter of station 058. After another 4 h of echosounder surveys, the scientific program of MSM 16/1a ended at midnight and the ship headed towards the harbor of Visby (Gotland, Sweden).

Sunday, August 8th

At 8 am on August 8th, RV *Maria S Merian* went into the port of Visby, where seven members left the scientific party of MSM16/1, while eight new colleagues from Sweden and Germany joined us for the 2nd leg of the cruise. While the village of Visby was in the hands of vikings and knights armed with helmets, longbows, axes and swords because of the opening of the Medieval Festival, all members of crew and science party were back on the boat unharmed, the ship left port on schedule at 6 p.m., and we headed towards the eastern slope of the Gotland Deep at the latitude of the mouth of the Gulf or Riga

Monday, August 9th to Tuesday, August 10th

Here, we conducted a 26h program of 8 CTD casts and a series of transects inbetween (stations 060 – 070), covered with acoustic profiling by the single beam echosounder systems, but dedicated to a surface water equilibration system measuring the methane and carbon dioxide concentration continuously. The survey was initiated by data from a similar, continuously operating system on the ship of opportunity Finnmaid, which regularly show that this region acts as a source of methane of unknown origin. The survey revealed a clear pattern of methane oversaturations of up to 600%, apparently fed by enhanced sub-thermocline concentrations in about 25 m water depths and increasing towards the shore. Detailed analysis of T/S/methane relations and isotopic analysis will be used to further constrain whether this permanent source is driven by local geologic point sources or the interaction with the waters leaving the Gulf of Riga.

This survey ended at 4 a.m. on August 10th, and the program continued by two more CTD/coring stations (071, 073), completing the section started on August 7th (056-058). While station 071 was chosen to gather information about the pore water/methane distribution in an area where only very few organic younger sediments are deposited, station 73 was positioned in the high-accumulation region of the Faro depression. This station was designated extended biogeochemical sampling, which resulted in a total of 12 cores of different length to be taken, including 2 gravity cores of which the first, with 15m, was the longest core so far retrieved during this cruise. Between these two stations, the multichannel seismic equipment was tested (072), and successfully recorded along a part of an earlier acoustic survey (055). This approach will allow a combination and comparison of various acoustic methods optimized for different resolution and penetration, which is one of the key approaches followed within Baltic Gas. After resuming the coring program (073) at midnight, we headed north for our 180 nm transit to the southern extension of the Bothnian Sea.

Wednesday, August 11th

Parts of the transit to the Bothnian Sea were used for further acoustic lines in the northern part of the Gotland Deep and the southernmost part of the Bothnian Sea (074 and 076), before a 37 nm transect across the areas with highest deposition of Littorina sediments was covered by single beam echosounding and towed multichannel seismic during the night (077).

Thursday, August 12th.

Station 077 revealed that the distribution of organic-rich Littorina sediments is rather complex, with areas with several meter thickness of different size alternating with eroded sections with harder and less carbon containing strata. Two small patches with indication of free gas in the upper sediment layer were detected both in the Parasound as well as in the SE 96 echosounder data. The availability of both data sets facilitates the optimization of the positioning of 4 CTD/coring stations, and a total of five stations (078, 080-083) was selected. A striking contrast in the general water column properties is the lower salinity, the well oxygenated and cold bottom waters, all consequences of the lack of a permanent pronounced halocline and thus, better ventilation in wintertime. Four of the coring stations were aiming for varying thicknesses of the methanogenic Littorina mud layer, while one station almost devoid of these deposits (082) was chosen to prove the concept that the methane flux from these settings can be neglected for a budget of the methane flux for the Baltic.

Friday, August 13th

The night was used for to head north and gather subbottom acoustic information along 3 transects crossing the central Bothnian Sea (084), with the aim to have a data base for the selection of coring sites on the next day. Despite the fact that pronounced backscatter in the deeper layers of the water column could be detected, the methane concentrations in the water column of the Bothnian Sea stays very low (085-087). Sampling of the sediments included one station (085) where geochemical, physical and various rate measurements to be performed resulted in a total of 10 cores to be taken – a tedious work due to the very soft and nearly unretainable upper sediments. At the end of the day, the entire scientific crew was willed to believe in any tales dealing with Friday 13th as well as to leave the working region of the Bothnian Bay.

Saturday, August 14th

In the following night, FS *Maria S. Merian* headed north towards the northernmost basin of the Baltic, the Bothnian Bay. On its way, station US2 at the northern end of the Bothnian Sea was sampled in the morning on request of the INFLOW project (089). The core was taken right into a drift body in a depression some 40 m deeper (209 m) than the surrounding seafloor. After we reached the Bothnian Bay in the beginning of the night, the night from Saturday to Sunday was spend for a hydroacoustic survey (90) heading north, zigzagging across the main depositional basin for young Littorina sediments with the aim of having better information of the sub-seafloor for the CTD/coring program of the next day.

Sunday, August 15th

In an extended coring program from 8 am to midnight, five coring sites were sampled (091-095), of which three were requested coring sites of the INFLOW and/or HYPER projects (RR6, F9, BO3sed), one was suggested by our Finnish colleagues because of the known existence of shallow gas deposits (RR3), and one was selected as typical for a large deposition basin for postglacial young sediments based on the preceding survey (090). All of the stations except BO3sed (095) were sampled for all parameters needed to estimate the methane flux, while the shallow gas station (092, RR3) was used to end the sequence of cores taken to investigate the characteristics of biomarkers for methanotrophic processes along the salinity gradient of the Baltic (started with Station 03 in the Mecklenburg Bight and continued with Station 56 on the eastern part of the Gotland Basin). Station F9 (093) was selected as site for detailed studies again, with a total of eleven cores taken.

Monday, August 16th

After using the transit back to the northern Bothnian sea for some additional acoustic profiling (096), a gravity core was taken at HYPER/INFLOW station US5B (97). After this short interruption, we directly headed further towards the eastern Gotland Basin.

Tuesday, August 17th

Upon arrival at the eastern Gotland Basin south of the Gulf of Riga, a CTD/rosette was taken for a test of different methods for the determination of methane in seawater. Due to the fast and positive reaction of the ministry of foreign affairs of Latvia to an urgent request to extend our working area towards the east, it was possible to map a large area of the Piltene depression by towed multichannel seismic in combination with Parasound and Multibeam backscatter recording (099). The area is characterized by a sedimentary filled basin with a widespread distribution of free gas, partly derived from deeper sedimentary strata.

Wednesday, August 18th

After ending the multichannel seismic survey of the Piltene Basin in the early morning, we headed further south towards the central Gotland Deep, where the last pump-CTD station of our expedition was dedicated to the task of the comparison of different analytic methods for methane in the water column, including a fully automated gas-water equilibration system which is usually used as an underway system, but here was fed by the water stream of the pump-CTD. With this, our work in the Gotland Basin ended in the afternoon and we headed further to the Bornholm Basin.

Thursdsay, August 19th

In the morning of August 19th, three stations in immediate vicinity were sampled by Rumohr corer in the northern Bornholm Basin (101-103) within the area of the earlier deep-water Multibeam backscatter survey across the boundary between gas and non gas-containing surface sediments (029). The scope of this survey was to correlate the strength of the backscatter data and the upper depth of the free gas zone directly with the geochemically estimated free gas zone based on methane gradient measurements. After this, a 24h multichannel seismic survey (with Parasound and EM120 backscatter survey, station 104) was used to complete some of the gaps of the shallow gas transition zone mapping during the first 2 hours, and then was dedicated to reveal deeper insight into the main gas accumulation areas in the Bornholm Basin.

Friday, August 20th

After ending the multichannel seismic work at 2p.m., RV *Maria S Merian* was bound to head towards Kiel Canal. The track was used for further gathering data on the methane and CO_2 surface water distribution (105), and after entering into Danish waters, the scientific program of MSM 16/1 ended at 00:00.

Saturday, August 21st to Sunday, August 22nd

RV *Maria S. Merian* met the pilot at Kiel Holtenau in time and went into the sleuth at 11a.m. Here, a larger fraction of the scientific party left the ship, while some guests of the science party as the first delegation of the shipyard entered the ship. With disembarkation of the guests and some additional people boarding the ship, we left Brunsbüttel at 8 p.m. and headed to our final destination, the shipyard in Emden where the ship arrived at former Blohm& Voss on Sunday, August 22nd, at 12:30.

5. Station list and device acronyms

CTD	CTD/Rosette
CTD SV	
CTD btl	
GC	Gravity corer
FL	Frahm corer
MB	Multibeam Echosounder (depth)
PS	Parasound Sediment Echosounder (depth)
RL	Rumohr corer
SES	Single Beam echosounder
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Abbreviations used in attached station list

DescriptionDescriptic	Stationlist of	MSM 16/	/1 ah			Start of Station					Bottom	On deck	Recovery			
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				MSM16-		[UTC]	DEG MIN	DEG	MIN				Y/N - [m]	Name		
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MSM16/1 022 IV 718 01 CTD 02.08.10 06.31 55 12.988 14 33.22 42.4 06.35:00 06.37 yes Krüger Shallow gas: 08:50																
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MSM16/1 028 01 725 01 CTD 02.08.10 19.44 55 22,183 15 27,866 93,7 19.49.08 20.02 yes Mc MSM16/1 026 01 773 01 CTD 02.08.10 21.01 55 27,166 15 31,013 82,9 21.08.41 21.21 yes K MSM16/1 027 01 774 01 CTD 02.08.10 21.01 55 37,015 15 34,039 76,2 22:27 yes K MSM16/1 028 01 725 01 CTD 03.08.10 01.35 55 35,769 14 54,851 75,3 00.48:00 00.52 yes Krüger MSM16/1 028 01 726 01 SES, PS 03.08.10 01:03 55 35,769 14 54,851 75,3 00.48:00 00.52 yes Mriger MSM16/1 028 01 726 01 SES, PS 03.08.10 01:03 55 35,788 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td></t<>																
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02 02 MB, PS 03.08.10 05:48 07:42 yes Schneider										10,0						
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			03		03 MB, PS	03.08.10 08:00	55 34	14	56,3			10:00		Schneider		

MSM16/1																	
MONTRACT	030	01	727	01	iPWS	03.08.10	11:06	55	35,32	14	53,638	78,1	11:10:00	11:23	yes	Oehler	
MSM16/1	031	01	728	01	CTD	03.08.10	12:17	55	33,4996	14	55,4032	75,8	12:31:00	12:55	yes	Prien	
		02		02	RL	03.08.10	13:05	55	33,499	14	55,401	77,9	13:08:35	13:14	yes		
					RL	03.08.10	13:16	55	33,5	14	55,401	77,9	13:20:20	13:25	no		
		03		03	RL	03.08.10	13:27	55	33,5	14	55,401	77,9	13:30:01	13:32	yes		
MSM16/1	032	01	729	01	CTD	03.08.10	14:04	55	34,92	14	57,4891	76,4	14:10:00	14:28	full	Prien	
		02		02	RL	03.08.10	14:30	55	34.92	14	57,49		14:33:56	14:35	yes		
		03		03	RL	03.08.10	14:42	55	34,92	14	57,49		14:45:10	14:47	yes		
		04		04	FL	03.08.10	15:01	55	34,92	14	57,49		15:05:00	15:12	yes		
		05			GC	03.08.10	15:20	55	34,921	14	57,491		15:24:00	15:32	yes		
MSM16/1	033	01	730		SES, PS	03.08.10	15:54	55	34,921	14	57,491	78		19:20	yes	Endler, Nickel	
MSM16/1	034	01	731		pCTD	03.08.10	19:26	55	14,95	15	26,16	90,7	19:55	13.20		Krüger	
10/310/1	034	02	731	01	pCTD	03.08.10	20:07	55	14,95	15	26,16		22:42:00		yes	Krüger	
-														00.05	yes	v	
		03			pCTD	03.08.10	22:48	55	14,96	15	26,16		00:08:00	00:25	yes	Krüger	
MCM4C/4	005	01	700	01	050	04.00.40	00.00		44.00	45		Vednesda		02:40		Niekel	
MSM16/1	035	01	732	01	SES	04.08.10	00:28	55	14,96	15	26,15	90,7		03:40	yes	Nickel	
MSM16/1	036	01	733	01	CTD	04.08.10	03:42	55	28,6165	14	46,4394		03:50:00	04:08	full	Prien	
MSM16/1	037	01	734	01	CTD	04.08.10	05:02	55	24,5972	14	40,323		05:12:00	05:23	full	Prien	
MSM16/1	038	01	735	01	CTD	04.08.10	06:16	55	26,7186	14	43,4811		06:24:00	06:37	full	Prien	
MSM16/1	039	01	736	01	SES	04.08.10	06:43	55	26,72	14	43,48	68		09:49	yes	Endler	
MSM16/1	040	01	737		RL	04.08.10	10:07	55	22,18	15	27,29		10:09:10	10:12	yes		
L					RL	04.08.10	10:19	55	22,18	15	27,29		10:21:30	10:24	no		
				03	RL	04.08.10	10:29	55	22,18	15	27,29		10:31:25	10:33	no		
		02		04		04.08.10	10:40	55	22,18	15	27,29		10:42:24	10:47	yes		
				05	RL	04.08.10	10:50	55	22,18	15	27,29		10:53:00	10:56	no		
				06	RL	04.08.10	10:59	55	22,18	15	27,29		11:03:00	11:07	no		
		03		07	RL	04.08.10	11:10	55	22,18	15	27,29	93,6	11:13:19	11:16	yes		
		04			RL	04.08.10	11:22	55	22,18	15	27,29		11:25:10	11:28	yes		
		05			GC	04.08.10	11:40	55	22,18	15	27,29		11:43:01	11:50	yes		
MSM16/1	041	01	738		CTD SV	04.08.10	23:45	55	22,145		13,905		00:00:00	00:21	yes	Krüger	
									,			Thursday			,		
MSM16/1	042	01	739	01	MB, PS	05.08.10	01:08	55	19,53	19	13,92	120		06:15	yes	Schneider	
MSM16/1	043	01	740-741		MOR	05.08.10	06:22							13:00	yes		
MSM16/1	040	01	742	01	CTD SV	05.08.10	13:13	57	19,339	20	7,817	237	13:22:00	13:33	yes	Krüger	
MSM16/1	044	01	742	01	CTD SV	05.08.10	15:32	57	15,003	19	50,012		15:40:06	15:50	yes	Krüger	
	0-10		140	02	RL	05.08.10	15:54	57	15,003	19	50,012		16:05:00	16:12	no	i i i dyei	
<u> </u>		02		02	RL	05.08.10	15:54	57	15,003	19	50,012		16:20:35	16:12	yes		
		02		05	DL	05.08.10	16:35	57	15,003	19	50,012		16:42:48	16:50		-	
-					KL DI										yes	-	
		04		06	RL	05.08.10	16:55	57	15,003	19	50,012		17:01:55	17:09	yes		
		05			RL	05.08.10	17:13	57	15,003	19	50,012		17:19:03	17:25	yes		
		06		08	RL	05.08.10	17:28	57	15,003	19	50,012		17:33:55	17:39	yes		
		07		09		05.08.10	17:41	57	15,003	19	50,012	210	17:47:39	17:53	yes		
1																	
-				10		05.08.10	17:58	57	15,003	19	50,012	210	18:04:13	18:09	no		
		08		11	FL	05.08.10	18:13	57	15,003	19	50,012	210	18:21:20	18:09 18:25			
		9a		11 12	FL FL	05.08.10 05.08.10	18:13 18:28	57 57	15,003 15,003	19 19	50,012 50,012	210 210 210	18:21:20 18:36:03	18:09 18:25 18:41	no		
		9a 9b		11 12 13	FL FL FL	05.08.10 05.08.10 05.08.10	18:13 18:28 18:46	57 57 57	15,003 15,003 15,003	19 19 19	50,012 50,012 50,012	210 210 210 210	18:21:20 18:36:03 18:52:17	18:09 18:25 18:41 18:57	no yes		
		9a		11 12	FL FL FL	05.08.10 05.08.10 05.08.10 05.08.10	18:13 18:28 18:46 19:10	57 57	15,003 15,003	19 19	50,012 50,012	210 210 210 210 210 210	18:21:20 18:36:03 18:52:17 19:15:09	18:09 18:25 18:41	no yes yes		
		9a 9b 10 11		11 12 13	FL FL GC	05.08.10 05.08.10 05.08.10	18:13 18:28 18:46	57 57 57 57 57 57	15,003 15,003 15,003	19 19 19 19 19	50,012 50,012 50,012	210 210 210 210 210 210	18:21:20 18:36:03 18:52:17	18:09 18:25 18:41 18:57	no yes yes yes		
MSM16/1	046	9a 9b 10	744	11 12 13 14	FL FL GC GC	05.08.10 05.08.10 05.08.10 05.08.10	18:13 18:28 18:46 19:10	57 57 57 57	15,003 15,003 15,003 15,003	19 19 19 19	50,012 50,012 50,012 50,012	210 210 210 210 210 210	18:21:20 18:36:03 18:52:17 19:15:09	18:09 18:25 18:41 18:57 19:21	no yes yes yes yes	Nickel	
MSM16/1	046	9a 9b 10 11	744	11 12 13 14 15	FL FL GC GC	05.08.10 05.08.10 05.08.10 05.08.10 05.08.10	18:13 18:28 18:46 19:10 20:54	57 57 57 57 57 57	15,003 15,003 15,003 15,003 15,003	19 19 19 19 19	50,012 50,012 50,012 50,012 50,012 50,012	210 210 210 210 210 210	18:21:20 18:36:03 18:52:17 19:15:09 20:59:15 	18:09 18:25 18:41 18:57 19:21 21:07	no yes yes yes yes yes	Nickel	
MSM16/1 MSM16/1	046	9a 9b 10 11	744	11 12 13 14 15 01	FL FL GC GC	05.08.10 05.08.10 05.08.10 05.08.10 05.08.10	18:13 18:28 18:46 19:10 20:54	57 57 57 57 57 57	15,003 15,003 15,003 15,003 15,003	19 19 19 19 19	50,012 50,012 50,012 50,012 50,012 50,012	210 210 210 210 210 210 210	18:21:20 18:36:03 18:52:17 19:15:09 20:59:15 	18:09 18:25 18:41 18:57 19:21 21:07	no yes yes yes yes yes	Nicke!	
MSM16/1	047	9a 9b 10 11 01 01 02		11 12 13 14 15 01	FL FL GC GC SES PCTD	05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 06.08.10	18:13 18:28 18:46 19:10 20:54 21:50 01:07 01:22	57 57 57 57 57 57 57 57 57 57	15,003 15,003 15,003 15,003 15,003 15 15 17,027 17,027	19 19 19 19 19 19 19 20 20	50,012 50,012 50,012 50,012 50,012 50 7,132 7,132	210 210 210 210 210 210 5 Friday 0 30 30	18:21:20 18:36:03 18:52:17 19:15:09 20:59:15 06.08.10.	18:09 18:25 18:41 18:57 19:21 21:07 00:54	no yes yes yes yes yes yes	Krüger Krüger	
		9a 9b 10 11 01		11 12 13 14 15 01	FL FL GC GC SES	05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 06.08.10	18:13 18:28 18:46 19:10 20:54 21:50 01:07	57 57 57 57 57 57 57 57 57	15,003 15,003 15,003 15,003 15,003 15 15 15	19 19 19 19 19 19 19 20	50,012 50,012 50,012 50,012 50,012 50,012 50 7,132	210 210 210 210 210 210 5 Friday 0 30 30 240	18:21:20 18:36:03 18:52:17 19:15:09 20:59:15 6.08.10. 	18:09 18:25 18:41 18:57 19:21 21:07 00:54 01:12	no yes yes yes yes yes yes yes	Krüger	
MSM16/1	047	9a 9b 10 11 01 01 02		11 12 13 14 15 01	FL FL GC GC SES PCTD	05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 06.08.10	18:13 18:28 18:46 19:10 20:54 21:50 01:07 01:22	57 57 57 57 57 57 57 57 57 57	15,003 15,003 15,003 15,003 15,003 15 15 17,027 17,027	19 19 19 19 19 19 19 20 20	50,012 50,012 50,012 50,012 50,012 50 7,132 7,132	210 210 210 210 210 210 5 Friday 0 30 30 240	18:21:20 18:36:03 18:52:17 19:15:09 20:59:15 6.08.10. 	18:09 18:25 18:41 18:57 19:21 21:07 00:54 01:12	no yes yes yes yes yes yes yes yes	Krüger Krüger	
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MSM16/1 MSM16/1 MSM16/1 MSM16/1 MSM16/1 MSM16/1	047 048 049 050 050 051	9a 9a 9b 10 10 11 01 01 01 02 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 04 01 02 03 04 01 05 5a 5b 06 06 07	745 746 747 748 748 749	111 12 13 14 15 01 01 01 01 01 02 03 04 05 06 01 02 03 04 05 06 01 02 03 04 05 06 01 02 03 04 05 06 01 02 03 04 05 06 01 02 03 04 05 06 04 05 06 06 07 07 08 06 07 07 08 06 07 07 08 06 07 07 08 08 08 08 08 08 08 08 08 08	FL FL FL GC GC SES PCTD SES CTD RL FL CTD RL FL CTD RL FL FL CTD RL FL GC GC GC CTD	05.08:10 05.08:10 05.08:10 05.08:10 05.08:10 05.08:10 05.08:10 05.08:10 05.08:10 05.08:10 06.08:10 <t< th=""><th>18:13 18:28 18:46 19:10 20:54 21:50 01:07 01:22 04:40 06:09 06:44 07:00 07:11 08:35 09:51 10:02 10:15 11:08 11:51 12:26 12:24 14:42 14:42 14:42 14:42 15:24 15:24 15:30 16:53 17:52</th><th>57 57 57 57 57 57 57 57 57 57 57 57 57 5</th><th>15,003 15,003 15,003 15,003 15,003 15,003 15,003 15 17,027 17,027 17 9,0983 9,099 9,099 9,099 9,099 9,099 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 14,937 16,998 16,998 16,998 16,999 16,993 16,993 16,993 16,993</th><th>19 19 19 19 19 19 20</th><th>50,012 50,012 50,012 50,012 50,012 50 7,132 7,132 7,132 7,132 7,132 7,132 7,132 7,132 7,132 7,132 126,4637 26,465 26,465 26,465 26,465 16,851 16,851 16,851 16,851 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 7,181 7,182 7,182 7,182 7,182 7,182 7,182 7,203 7,204 0,0808</th><th>210 30 30 30 240 126,7 126,7 172,5 172,5 172,5 172,5 172,5 172,5 172,5 172,5 172,5 235 235 235 235 235 238 242 242 242 242 241,9 241,9 240 241</th><th>18:21:20 18:36:03 18:52:17 18:52:17 18:52:17 18:52:17 06:08:10 06:08:10 06:08:10 06:08:17 07:03:17 07:15:10 08:56:53 10:07:00 10:07:00 10:07:00 11:28:53 12:10:00 12:26:00 12:26:00 14:35:40 14:48:14 15:22:30 15:16:34 15:24:50 16:16:08 16:34:40 16:45:50 18:08:35</th><th>18:09 18:25 18:41 18:57 19:21 01:12 00:37 06:50 07:06 07:06 07:07 09:32 09:32 09:47 10:03 10:01 11:46 12:05 12:44 12:59 14:25 15:08 15:21 15:34 16:00 16:23 16:23 16:23 16:23 16:23 16:23 16:23 16:23 16:24 17:04</th><th>no Yes Yes</th><th>Krüger Krüger Nickel Prien</th><th></th></t<>	18:13 18:28 18:46 19:10 20:54 21:50 01:07 01:22 04:40 06:09 06:44 07:00 07:11 08:35 09:51 10:02 10:15 11:08 11:51 12:26 12:24 14:42 14:42 14:42 14:42 15:24 15:24 15:30 16:53 17:52	57 57 57 57 57 57 57 57 57 57 57 57 57 5	15,003 15,003 15,003 15,003 15,003 15,003 15,003 15 17,027 17,027 17 9,0983 9,099 9,099 9,099 9,099 9,099 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 12,855 14,937 16,998 16,998 16,998 16,999 16,993 16,993 16,993 16,993	19 19 19 19 19 19 20	50,012 50,012 50,012 50,012 50,012 50 7,132 7,132 7,132 7,132 7,132 7,132 7,132 7,132 7,132 7,132 126,4637 26,465 26,465 26,465 26,465 16,851 16,851 16,851 16,851 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 7,181 7,182 7,182 7,182 7,182 7,182 7,182 7,203 7,204 0,0808	210 30 30 30 240 126,7 126,7 172,5 172,5 172,5 172,5 172,5 172,5 172,5 172,5 172,5 235 235 235 235 235 238 242 242 242 242 241,9 241,9 240 241	18:21:20 18:36:03 18:52:17 18:52:17 18:52:17 18:52:17 06:08:10 06:08:10 06:08:10 06:08:17 07:03:17 07:15:10 08:56:53 10:07:00 10:07:00 10:07:00 11:28:53 12:10:00 12:26:00 12:26:00 14:35:40 14:48:14 15:22:30 15:16:34 15:24:50 16:16:08 16:34:40 16:45:50 18:08:35	18:09 18:25 18:41 18:57 19:21 01:12 00:37 06:50 07:06 07:06 07:07 09:32 09:32 09:47 10:03 10:01 11:46 12:05 12:44 12:59 14:25 15:08 15:21 15:34 16:00 16:23 16:23 16:23 16:23 16:23 16:23 16:23 16:23 16:24 17:04	no Yes	Krüger Krüger Nickel Prien	
MSM16/1 MSM16/1 MSM16/1 MSM16/1 MSM16/1 MSM16/1	047 048 049 050 050 051	9a 9a 9b 10 10 11 01 01 01 02 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 04 01 02 03 04 01 05 5a 5b 06 06 07	745 746 747 748 748 749	111 12 13 14 15 01 01 02 03 04 01 02 03 04 04 05 06 01 02 03 04 05 06 01 02 03 04 05 06 01 02 03 04 05 06 09 99	FL FL FL GC GC SES DCTD RL RL FL CTD RL FL CTD RL FL CTD RL FL FL CTD RL FL GC GC GC GC GC GC GC GC	05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 05.08.10 06.08.10 <t< td=""><td>18:13 18:28 18:46 19:10 20:54 21:50 01:07 01:22 04:40 06:09 06:44 07:00 07:11 08:35 09:28 09:38 09:51 10:02 10:15 11:51 12:26 12:34 12:49 14:429 14:42 14:42 15:10 15:24 15:40 15:41 16:63 16:50</td><td>57 57 57 57 57 57 57 57 57 57 57 57 57 5</td><td>15,003 15,003 15,003 15,003 15,003 15 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 12,855 14,937 14,937 14,937 14,937 16,998 16,998 16,993 16,993 16,993</td><td>19 19 19 19 19 19 20</td><td>50,012 50,012 50,012 50,012 50 7,132 7,132 7,2 26,463 16,851 16,851 16,851 16,851 16,851 16,851 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,163 12,163 12,165 12,163 12,165 12,163 12,165 12,165 12,163 12,165 12,163 12,165 12,163 12,165 12,163 12,165 12,260 12,2</td><td>210 30 30 30 240 126,7 126,7 172,5 172,5 172,5 172,5 172,5 172,5 172,5 235 235 235 235 235 235 238 242 242 242 242 241,9 241,9 241 241 241<</td><td>18:21:20 18:36:03 18:52:17 18:52:17 18:52:17 18:52:17 0:608:10 </td><td>18:09 18:25 18:41 18:41 18:57 19:21 01:12 00:54 01:12 04:38 06:37 06:50 07:06 07:20 09:15 09:32 09:47 10:03 11:46 12:59 14:25 15:21 15:24 15:25 15:21 15:34 16:23 16:42 17:00</td><td>n0 yes full yes no yes no yes no yes no yes yes</td><td>Krüger Krüger Nickel Prien</td><td></td></t<>	18:13 18:28 18:46 19:10 20:54 21:50 01:07 01:22 04:40 06:09 06:44 07:00 07:11 08:35 09:28 09:38 09:51 10:02 10:15 11:51 12:26 12:34 12:49 14:429 14:42 14:42 15:10 15:24 15:40 15:41 16:63 16:50	57 57 57 57 57 57 57 57 57 57 57 57 57 5	15,003 15,003 15,003 15,003 15,003 15 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 17,027 12,855 14,937 14,937 14,937 14,937 16,998 16,998 16,993 16,993 16,993	19 19 19 19 19 19 20	50,012 50,012 50,012 50,012 50 7,132 7,132 7,2 26,463 16,851 16,851 16,851 16,851 16,851 16,851 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,165 12,163 12,163 12,165 12,163 12,165 12,163 12,165 12,165 12,163 12,165 12,163 12,165 12,163 12,165 12,163 12,165 12,260 12,2	210 30 30 30 240 126,7 126,7 172,5 172,5 172,5 172,5 172,5 172,5 172,5 235 235 235 235 235 235 238 242 242 242 242 241,9 241,9 241 241 241<	18:21:20 18:36:03 18:52:17 18:52:17 18:52:17 18:52:17 0:608:10	18:09 18:25 18:41 18:41 18:57 19:21 01:12 00:54 01:12 04:38 06:37 06:50 07:06 07:20 09:15 09:32 09:47 10:03 11:46 12:59 14:25 15:21 15:24 15:25 15:21 15:34 16:23 16:42 17:00	n0 yes full yes no yes no yes no yes no yes	Krüger Krüger Nickel Prien	

											r							
					RL	06.08.10	19:07	57	19,884	20	0,81	234,5	19:12:20	19:19	no			
		02			RL	06.08.10	19:19	57	19,884	20	0,81	234,5	19:27:52	19:34	yes			
		03			RL	06.08.10	19:36	57	19,884	20	0,81	234,5	19:40:26	19:44	yes			
101404	054	04	754		FL	06.08.10	19:47	57	19,885	20	0,812	234,5	19:53:50	19:57	yes	17-9		
MSM16/1	054	01	751	01	CTD RL	06.08.10 06.08.10	20:54 21:32	57 57	23,066	19 19	53,565 53,564	200,7 204,4	21:11:15 21:36:50	21:25	yes	Krüger		
		02			RL	06.08.10	21:32	57	23,066 23,066	19	53,564	204,4	21:36:50	21:39 21:50	no yes			
		02			RL	06.08.10	21:55	57	23,066	19	53,564	204,4	22:00:00	21:00	yes			
		04			FL	06.08.10	22:09	57	23,066	19	53,566	204,4	22:14:00	22:20	yes			
MSM16/1	055	01	752	01	SES	06.08.10	22:38	57	23,69	19	54,29	200		08:16	yes	Nickel	-	
incinitor i	000	0.	102		020	00.00.10	22.00	0.	20,00		01,20		07.08.10		300	T NOKOT		
MSM16/1	056	01	753	01	CTD	07.08.10	08:38	57	30,0944	21	9,1797	66	08:45:00	08:54	full			
		02		02	RL	07.08.10	09:01	57	30,09	21	9,18	66	09:04:00	09:07	yes			
		03		03	RL	07.08.10	09:09	57	30,1	21	9,18	66	09:11:00	09:14	yes			
		04		04	RL	07.08.10	09:18	57	30,1	21	9,18	66	09:20:00	09:22	yes			
		05		05	FL	07.08.10	09:31	57	30,1	21	9,18	66	09:33:00	09:35	yes			
		06		06	FL	07.08.10	09:38	57	30,09	21	9,18	66	09:39:00	09:41	yes			
		07		07	GC	07.08.10	09:55	57	30,1	21	9,18	66	09:58:00	10:05	yes			
		08		08	iPWS	07.08.10	10:22	57	30,11	21	9,2	66	10:27:00	10:30	yes			
MSM16/1	057	01	754	01	CTD	07.08.10	13:43	57	38,884	20	38,751	136	13:54:13	14:46	yes			
		02		02		07.08.10	14:18	57	38,883	20	38,752	139,3	14:22:00	14:26	yes			
		03		03	RL	07.08.10	14:27	57	38,883	20	38,752	139,3	14:31:00	14:35	yes			
L		04		1	RL	07.08.10	14:37	57	38,883	20	38,752	139,3	14:41:00	14:45	no			
		05	-	04		07.08.10	14:47	57	38,883	20	38,752	139,3	14:50:00	14:54	yes			
MONTON	050	06	755	05		07.08.10	15:06	57	38,883	20	38,752	139,3	15:09:00	15:20	yes			
MSM16/1	058	01	755	01	CTD	07.08.10	16:41	57	43,259	20	23,534	140,2	03:41:00	17:04	yes			
		02		02	RL	07.08.10	17:08	57	43,259	20	23,534	140,2	17:12:00	17:17	yes			
		03 04		03 04	RL	07.08.10 07.08.10	17:18 17:28	57 57	43,259 43,259	20	23,534	140,2	17:22:00	17:26 17:32	yes			
MSM16/1	059	04	756		FL SES	07.08.10	17:28	57	43,259 43,06	20 20	23,534 23.30	140,2	17:28:00	22:34	yes			
10/310/10/1	039	01	750	01	363	07.06.10	10.00	57	43,00	20	23.30		08.08.10.	22.34	yes			
Visby				1	1	08.08.10	[1	1	1	1	Sunuay	00.00.10.					
VISDY						00.00.10			1			Monday	09.08.10.	I				
MSM16/1	060	01	757	01	MB, PS, SES	09.08.10	00:00	58	13,5	20	53,5	50		01:40	ves			
MSM16/1	061	01	758		CTD	09.08.10	01:45	58	12,285	21	10879	31		01:55	yes			
		02		02	CTD btl	09.08.10	01:56	58	12,285	21	10879	31	01:59:43	02:05	yes			
MSM16/1	062	01	759	01	CTD	09.08.10	03:10	58	11,375	21	21,033	31		03:20	yes			
		02		02	CTD btl	09.08.10	03:20	58	11,374	21	21,035	31	03:23:00	03:26	yes			
MSM16/1	063	01	760	01	CTD	09.08.10	04:24	58	10.631	21	30,93	34		04:31	yes			
		02		02	CTD btl	09.08.10	04:31	58	10,632	21	30,923	34	04:35:00	04:37	yes			
MSM16/1	064	01	757	01	MB, PS, SES. Equi	09.08.10	04:48	58	10,631	21	30,93	34			yes	Schneider		
MSM16/1	065	01	761	01	CTD	09.08.10	12:39	57	33,615	20	57,433	46,6		12:47	yes	Krüger		
					CTD btl					20		46,6	12:53:26					
		02		02		09.08.10	12:47	57	33,61		57,435			12:58	yes	Krüger		
MSM16/1	066	01	762	01	CTD	09.08.10	14:17	57	36,413	20	46,754	41,5		14:23	yes	Krüger		
		01 02		01 02	CTD CTD btl	09.08.10 09.08.10	14:17 14:23	57 57	36,413 36,41	20 20	46,754 46,756	41,5 41,7	 14:26:27		yes yes	Krüger Krüger		
MSM16/1	067	01 02 01	757	01 02 01	CTD CTD btl MB, PS, SES	09.08.10 09.08.10 09.08.10	14:17 14:23 14:35	57 57 57	36,413 36,41 36,413	20 20 20	46,754 46,756 46,754	41,5 41,7 41	 14:26:27 	14:23 14:28	yes yes yes	Krüger Krüger Endler, Schneider		
		01 02		01 02 01 01	CTD CTD btl MB, PS, SES CTD	09.08.10 09.08.10 09.08.10 09.08.10	14:17 14:23 14:35 22:52	57 57 57 57	36,413 36,41 36,413 50,764	20 20 20 21	46,754 46,756 46,754 24,239	41,5 41,7 41 60	 14:26:27 	14:23 14:28 22:59	yes yes yes yes	Krüger Krüger Endler, Schneider Krüger		
MSM16/1	067	01 02 01	757	01 02 01 01	CTD CTD btl MB, PS, SES	09.08.10 09.08.10 09.08.10	14:17 14:23 14:35	57 57 57	36,413 36,41 36,413	20 20 20	46,754 46,756 46,754	41,5 41,7 41 60 60	 14:26:27 23:03:37	14:23 14:28	yes yes yes	Krüger Krüger Endler, Schneider		
MSM16/1 MSM16/1	067 068	01 02 01 01	757 763	01 02 01 01 02	CTD CTD btl MB, PS, SES CTD CTD btl	09.08.10 09.08.10 09.08.10 09.08.10 09.08.10	14:17 14:23 14:35 22:52 22:59	57 57 57 57 57 57	36,413 36,41 36,413 50,764 50,766	20 20 20 21 21	46,754 46,756 46,754 24,239 24,24	41,5 41,7 41 60 60 Tuesday	 14:26:27 	14:23 14:28 22:59 23:07	yes yes yes yes yes	Krüger Krüger Endler, Schneider Krüger Krüger		
MSM16/1	067	01 02 01 01 01	757	01 02 01 01 02 01	CTD CTD btl MB, PS, SES CTD CTD btl CTD	09.08.10 09.08.10 09.08.10 09.08.10 09.08.10 09.08.10	14:17 14:23 14:35 22:52 22:59 00:14	57 57 57 57 57 57 57	36,413 36,41 36,413 50,764 50,766 52,689	20 20 21 21 21 21	46,754 46,756 46,754 24,239 24,24 12,552	41,5 41,7 41 60 60 Tuesday 75	 14:26:27 23:03:37 10.08.10. 	14:23 14:28 22:59 23:07 00:23	yes yes yes yes yes yes	Krüger Krüger Endler, Schneider Krüger Krüger Krüger		
MSM16/1 MSM16/1 MSM16/1	067 068	01 02 01 01 01 01 02	757 763 764	01 02 01 01 02	CTD CTD btl MB, PS, SES CTD CTD btl	09.08.10 09.08.10 09.08.10 09.08.10 09.08.10	14:17 14:23 14:35 22:52 22:59	57 57 57 57 57 57 57 57 57	36,413 36,41 36,413 50,764 50,766 52,689 52,69	20 20 21 21 21 21 21 21	46,754 46,756 46,754 24,239 24,24 12,552 12,533	41,5 41,7 41 60 60 Tuesday	 14:26:27 23:03:37 10.08.10.	14:23 14:28 22:59 23:07 00:23 00:34	yes yes yes yes yes yes yes	Krüger Krüger Endler, Schneider Krüger Krüger Krüger Krüger		
MSM16/1 MSM16/1	067 068 069	01 02 01 01 01	757 763	01 02 01 01 02 01 02	CTD CTD btl MB, PS, SES CTD CTD btl CTD CTD btl	09.08.10 09.08.10 09.08.10 09.08.10 09.08.10 10.08.10	14:17 14:23 14:35 22:52 22:59 00:14 00:24	57 57 57 57 57 57 57	36,413 36,41 36,413 50,764 50,766 52,689	20 20 21 21 21 21	46,754 46,756 46,754 24,239 24,24 12,552	41,5 41,7 41 60 60 Tuesda 75 75,25	 14:26:27 23:03:37 • 10.08.10. 00:30:00	14:23 14:28 22:59 23:07 00:23	yes yes yes yes yes yes	Krüger Krüger Endler, Schneider Krüger Krüger Krüger		
MSM16/1 MSM16/1 MSM16/1	067 068 069	01 02 01 01 01 02 01 02 01 02 01	757 763 764	01 02 01 01 02 01 02 01 02 01	CTD CTD btl MB, PS, SES CTD CTD btl CTD CTD btl CTD CTD btl	09.08.10 09.08.10 09.08.10 09.08.10 09.08.10 10.08.10 10.08.10 10.08.10	14:17 14:23 14:35 22:52 22:59 00:14 00:24 01:44	57 57 57 57 57 57 57 57 57 57	36,413 36,413 36,413 50,764 50,766 52,689 52,69 52,69 54,502	20 20 21 21 21 21 21 21 21 20	46,754 46,756 46,754 24,239 24,24 12,552 12,533 59,825	41,5 41,7 41 60 60 Tuesday 75 75,25 81	 14:26:27 23:03:37 10.08.10 00:30:00 	14:23 14:28 22:59 23:07 00:23 00:34 01:54	yes yes yes yes yes yes yes yes	Krüger Krüger Endler, Schneider Krüger Krüger Krüger Krüger Krüger		
MSM16/1 MSM16/1 MSM16/1 MSM16/1	067 068 069 070	01 02 01 01 01 02 01 02	757 763 764 765	01 02 01 02 01 02 01 02 01 02 01	CTD CTD btl MB, PS, SES CTD CTD btl CTD btl CTD btl CTD CTD btl CTD CTD btl CTD CTD btl	09.08.10 09.08.10 09.08.10 09.08.10 09.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10	14:17 14:23 14:35 22:52 22:59 00:14 00:24 01:44 01:54 05:02 05:12	57 57 57 57 57 57 57 57 57 57 57 57	36,413 36,41 36,413 50,764 50,766 52,689 52,69 54,502 54,502 54,503 48,536 48,538	20 20 21 21 21 21 21 20 20 20 20 20	46,754 46,756 46,754 24,239 24,24 12,552 12,533 59,825 59,825 59,825 8,806 8,805	41,5 41,7 41 60 70 75 75,25 81 81 140,5 140	 14:26:27 23:03:37 10.08.10 00:30:00 01:59:35 05:25:35	14:23 14:28 22:59 23:07 00:23 00:34 01:54 02:03 05:15 05:31	yes yes yes yes yes yes yes yes yes	Krüger Krüger Endler, Schneider Krüger Krüger Krüger Krüger Krüger Krüger		
MSM16/1 MSM16/1 MSM16/1 MSM16/1	067 068 069 070	01 02 01 01 02 01 02 01 02 01 02	757 763 764 765	01 02 01 02 01 02 01 02 01 02 01 02 01	CTD CTD btl MB, PS, SES CTD CTD btl CTD btl CTD btl CTD btl CTD btl CTD SV	09.08.10 09.08.10 09.08.10 09.08.10 09.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10	14:17 14:23 14:35 22:52 22:59 00:14 01:44 01:54 05:02 05:12 06:05	57 57 57 57 57 57 57 57 57 57 57 57 57	36,413 36,41 36,413 50,764 50,766 52,689 52,69 54,502 54,502 54,503 48,538 48,538	20 20 21 21 21 21 21 20 20 20 20 20 20	46,754 46,756 46,754 24,239 24,24 12,552 12,533 59,825 59,825 59,825 8,806 8,805 8,806	41,5 41,7 41 60 60 Tuesday 75 75,25 81 81 140,5 140 140	 14:26:27 23:03:37 10.08.10 00:30:00 01:59:35 05:25:35 06:10:00	14:23 14:28 22:59 22:59 00:23 00:34 01:54 02:03 05:15 05:31 06:15	yes yes yes yes yes yes yes yes yes yes	Krüger Krüger Endler, Schneider Krüger Krüger Krüger Krüger Krüger Krüger Krüger		
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MSM16/1 MSM16/1 MSM16/1 MSM16/1	067 068 069 070	01 02 01 01 02 01 02 01 02 01 02 01 02 03 04	757 763 764 765	01 02 01 02 01 02 01 02 01 02 01 02 03 03 04	CTD CTD bit MB, PS, SES CTD CTD bit CTD CTD bit CTD bit CTD SV CTO bit RL RL	09.08.10 09.08.10 09.08.10 09.08.10 09.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10	14:17 14:23 14:35 22:52 22:59 00:14 00:24 01:44 01:54 05:02 05:12 06:05 06:20 06:30	57 57 57 57 57 57 57 57 57 57 57 57 57 5	36,413 36,41 36,413 50,764 50,766 52,689 52,69 54,502 54,502 54,503 48,538 48,538 48,538	20 20 21 21 21 21 21 20 20 20 20 20 20 20 20 20 20 20	46,754 46,754 46,754 24,239 24,24 12,552 12,533 59,825 59,825 59,825 8,806 8,806 8,806 8,806 8,806	41,5 41,7 41 60 60 Tuesda 75 75,25 81 140,5 140 140 140 140 140	 14:26:27 23:03:37 00:30:00 01:59:35 05:25:35 06:10:00 06:24:00 06:24:00	14:23 14:28 22:59 23:07 00:23 00:34 01:54 02:03 05:15 05:31 06:15 06:28 06:41	yes	Krüger Krüger Endler, Schneider Krüger Krüger Krüger Krüger Krüger Krüger Krüger		
MSM16/1 MSM16/1 MSM16/1 MSM16/1	067 068 069 070	01 02 01 01 02 01 02 01 02 01 02 03 03 04 05	757 763 764 765	01 02 01 02 01 02 01 02 01 02 01 02 03 03 04 05	CTD CTD btl MB, PS, SES CTD CTD btl CTD CTD btl RL RL RL RL FL	09.08.10 09.08.10 09.08.10 09.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10 10.08.10	14:17 14:23 14:35 22:52 22:52 22:59 22:59 00:14 01:54 01:54 05:02 05:12 06:05 06:20 06:30 06:43	57 57 57 57 57 57 57 57 57 57 57 57 57 5	36,413 36,413 36,413 50,764 50,766 50,766 52,689 52,689 52,69 54,502 54,502 54,502 48,538 48,538 48,538 48,538	20 20 21 21 21 21 20 20 20 20 20 20 20 20 20 20 20	46,754 46,756 46,757 24,239 24,24 12,552 12,552 12,553 59,825 59,825 59,825 8,806 8,806 8,806 8,806 8,806 8,806	41,5 41,7 41 60 75 75,25 81 140,5 140 140 140 140 140	 14:26:27 23:03:37 10.08.10. 00:30:00 05:25:35 06:10:00 06:24:00 06:34:00 06:48:00	14:23 14:28 22:59 23:07 00:23 00:23 00:34 01:54 02:03 05:15 05:31 06:15 06:15 06:41 06:53	yes	Krüger Krüger Endler, Schneider Krüger Krüger Krüger Krüger Krüger Krüger Krüger		
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				20		10.08.10	18:09	57	58,756	19	53,333	193,5	18:14:00		no		
		03b		21	RL	10.08.10	18:20	57		19	53,334	193,5	18:25:00	18:31	yes		
		09		22	FL	10.08.10	18:33	57	58,757	19	53,334	193,5	18:43:00	18:51	yes		
		12			GC	10.08.10	19:04	57	58,757	19	53,333	193,5	19:12:00	19:28	yes		
		13		24		10.08.10	21:16	57	58,757	19	53,335	193,5	21:21:00	21:39	yes		
MSM16/1	074	01	769		SES, PS	10.08.10	22:34	57	58,79	19	53,26	,0		21.00	100		+
101310110/1	0/4	01	703	01	5L5, F5	10.00.10	22.34	51	30,73	13		Vodpood	ay 11.08.1	n			
MSM16/1	075	01	770	01	CTD SV	11.08.10	15:01	60	48,775	18	59,112	74,7	ay 11.06.1	15:12	yes		1
	075		110	01													
MONTON	070	02		<u>.</u>	CTD btl	11.08.10	15:03	60	48,775	18	59,112	74,7	15:22:32	15:26	yes	F	+
MSM16/1	076	01	771	01	SES, PS	11.08.10	15:36	60	48,77	18	59,12	77		20:37	yes	Endler	
MSM16/1	077	01	772	01	MCS, PS	11.08.10	21:38	61	3,8418	19	12,363			06:45	yes		
						•	-		-				y 12.08.10				
MSM16/1	078	01	773	01	CTD	12.08.10	07:56	61	2,924	20	18,315	99,4		08:07	yes	Krüger	
		02			CTD btl	12.08.10	08:07	61	2,923	20	18,316		08:13:35	08:12	yes	Krüger	
				02	RL	12.08.10	08:25	61	2,918	20	18,327		08:30:00	08:34	no		
				03	RL	12.08.10	08:36	61	2,918	20	18,327		08:39:00	08:44	no		
		03			RL	12.08.10	08:46	61	2,918	20	18,328		08:51:00	08:56	yes		
		00			RL	12.08.10	08:59	61	2,918	20	18,327		09:03:00	09:07	no		
		04		06		12.08.10	09:11	61	2,918	20	18,327		09:15:00	09:19	yes		
-		04		07		12.08.10		61	2,917		18,326			19:32			
							09:24			20			09:27:00		yes		
		06			iPWS	12.08.10	09:41	61	2,917	20	18,327	100	09:53:00	10:33	yes		
MSM16/1	079	01	774		MB, PS, SES	12.08.10	11:00	61	2,877	20	17,435	100		13:06	yes	Schneider	
MSM16/1	080	01	775		GC	12.08.10	13:14	61	2,907	20	18,352		13:18:00	13:34	yes	Plewe	
				02		12.08.10	13:38	61	2,907	20	18,342		13:41:00	13:44	yes	Plewe	
]		03		12.08.10	13:48	61	2,905	20	18,349		13:51:00	13:55	no		
				04	FL	12.08.10	13:59	61	2,906	20	18,349		14:03:00	14:06	yes	Plewe	
MSM16/1	081	01	776		CTD	12.08.10	14:47	61	2,880	20	19,431	95,1	14:53:20	14:57	yes	Krüger	
		02			CTD btl	12.08.10	14:57	61	2,881	20	19,431	95,2	15:02:53	15:06	yes	Krüger	1 1
├ ──┼		02		02	RL	12.08.10	15:12	61	2,879	20	19,429	55,2	15:15:00	15:18	yes	raagoi	+
<u>⊢</u> – – – –		03			RL	12.08.10	15:21	61	2,879	20	19,429		15:25:00	15:29			+
┢───┼												<u> </u>			yes		+
MONTON	000	05			FL	12.08.10	15:32	61	2,879	20	19,428	400	15:35:00	15:38	yes	12	+
MSM16/1	082	01	777	01	CTD	12.08.10	17:51	61	4,611	19	41,93	128	18:01:00	18:07	yes	Krüger	+
		02			CTD btl	12.08.10	18:07	61	4,61	19	41,93	128	18:17:21	18:23	yes	Krüger	
					GC	12.08.10	18:29	61	4,609	19	41,929	128	18:34:00	18:48	no	Endler	
				03	GC	12.08.10	19:03	61	4,609	19	41,929	128	19:09:00	19:15	no	Endler	
		03		04	GC	12.08.10	19:37	61	4,610	19	41,940	128	19:43:00	19:54	yes		
				05	RL	12.08.10	20:00	61	4,610	19	41,940	128	20:06:00	20:10	no		
		04		06		12.08.10	20:15	61	4,609	19	41,941	131,3	20:17:00	20:22	yes		
		05		07		12.08.10	20:25	61	4,610	19	41,941	131,3	20:29:00	20:33	yes		1
		06			FL	12.08.10	20:20	61	4,610	19	41,941	131,3	20:41:00	20:33	yes		1
MSM16/1	083	01	778		CTD	12.08.10	20:37	61	5,908	19	16,894	98,6		22:18		Krüger	+
10/10/1	000	02	110	01		12.08.10	22:07	61	5,908			98,6	22:24:42	22:18	yes		+
┝───┼		02		00	CTD btl					19	16,893	90,0			yes	Krüger	
┢───┼					RL	12.08.10	22:34	61	5,908	19	16,894	<u> </u>	22:37:00	22:41	no		+
└── ↓				03	KL	12.08.10	22:43	61	5,908	19	16,894		22:46:00	22:50	no		L
<u>⊢</u>		03			RL	12.08.10	22:45	61		19	16,896		22:57:00	23:00	no		<u> </u>
L		04		05		12.08.10	23:06	61	5,922	19	16,893		23:09:00	23:12	yes		
		05		06	FL	12.08.10	23:20	61	5,919	19	16,909		23:23:00	23:27	yes		
												Friday	13.08.10.				
MSM16/1	084	01	779	01	SES, PS	13.08.10	00:29	61	5,91	19	16,95				yes	Nickel	
MSM16/1	085	01	780	01		13.08.10	12:01	61	32,398	20	42,,343	85		12:11	yes	Krüger	
		02			CTD btl	13.08.10	12:11	61		20	42,343	85	12:18:22	12:23	yes	Krüger	
		_		02	RL	13.08.10	12:28	61	32,398	20	42,342		12:30:00	12:33	no		1
					RL	13.08.10	12:37	61	32,398	20	42,343		12:39:00		no		1
├ ──┼				03	RL	13.08.10	12:43	61	32,398	20	42,343		12:46:00	12:49	no		+
<u>├</u> ──┼		03		04		13.08.10	12:43	61	32,398	20	42,343		12:46:00	12:49	ves		+
┝───┼		03			FL												+
┢───┼		0.1				13.08.10	13:08	61	32,398	20	42,343	<u> </u>	13:10:00	13:13	no		+
\vdash		04		07		13.08.10	13:17	61	32,398	20	42,343		13:19:00	13:22	yes		┥───┤
\vdash		05			FL	13.08.10	13:27	61	32,398	20	42,343		13:29:00	13:33	yes		+
<u>⊢</u>		06			GC	13.08.10	13:41	61	32,398	20	42,343		13:45:00	13:50	yes		<u> </u>
L		07		10	FL	13.08.10	14:00	61	32,398	20	42,343		14:02:00	14:05	yes		
		08			FL	13.08.10	14:17	61	32,398	20	42,343		14:20:00	14:24	yes		
				12	FL	13.08.10	14:30	61	32,398	20	42,343		14:32:00	14:36	no		
				13		13.08.10	14:39	61		20	42,343		14:41:00	14:45	no		
	1			14	FL	13.08.10	14:49	61	32,398	20	42,343		14:50:00	14:55	no		
		09			FL	13.08.10	14:57	61	32,398	20	42,343		14:59:00	15:02	yes		
		10			GC	13.08.10	15:14	61	32,398	20	42,348		15:19:00	15:25	yes		1
├ ──┼		11		17	FI	13.08.10	15:33	61	32,398	20	42,349		15:36:00	15:39	yes		+
۰		12		18	 Fl	13.08.10	15:45	61	32,398	20	42,348		15:47:00	15:50			
MCMACA	000		704									124.0			yes	Krö	+
MSM16/1	000		781	01		13.08.10			31,539					17:17	yes	Krüger	
⊢ – – ∔		02			CTD btl	13.08.10			31,539			124,1			yes	Krüger	+
<u>↓ </u>		03		02		13.08.10		61			22,126		17:40:00		yes		
					FL	13.08.10	17:49	61	31,539		22,126		17:53:00		no		
					FL	13.08.10	18:01	61			22,126		18:04:00		no		
		T			FL	13.08.10		61			22,126		18:16:00		no		
					FL	13.08.10	18:26	61	31,539	20	22,126		18:30:00	18:35	no		
					FL	13.08.10		61			22,126		18:40:00		yes		
		04									22,126		18:53:00		no		1
		04			FL	13,08 10	18.40	61	3 5 30								
					FL FI	13.08.10	18:49	61									
		05			FL	13.08.10	19:01	61	31,539	20	22,126		19:05:00	19:11	yes		
		05 06			FL GC	13.08.10 13.08.10	19:01 19:22	61 61	31,539 31,539	20 20	22,126 22,126		19:05:00 19:28:00	19:11 19:36	yes yes		
	007	05 06 07	700		FL GC GC	13.08.10 13.08.10 13.08.10	19:01 19:22 19:53	61 61 61	31,539 31,539 31,539	20 20 20	22,126 22,126 22,126	447	19:05:00 19:28:00 19:59:00	19:11 19:36 20:14	yes yes yes	V_8	
	087	05 06	782	01	FL GC	13.08.10 13.08.10	19:01 19:22 19:53 21:09	61 61	31,539 31,539 31,539 37,322	20 20 20 20	22,126 22,126	117 117	19:05:00 19:28:00 19:59:00 	19:11 19:36 20:14 21:23	yes yes	Krüger Krüger	

					1													
		03		02		13.08.10	21:43	61	37,321				21:48:00	21:52	yes			
		04		03 04		13.08.10 13.08.10	21:58	61	37,320	20	19,993 19,995		22:02:00 22:14:00	22:06	yes			
		05 06		04		13.08.10	22:10 22:28	61 61	37,322 37,322	20	19,995		22:14:00	22:18 22:39	yes			
MSM16/1	088	06	783		SES, PS	13:08.10	22:28	61	37,322	20 20		120		07:23	yes yes	Nickel		
101310110/1	000	01	705	01	5L0, F0	13.00.10	22.40	01	57,55	20	20,02		y 14.08.10	07.25	yes	Nicker		
MSM16/1	089	01	784	01	CTD	14:08.10	08:13	62	50,709	18	53,374	197		08:35	yes	Krüger		
		02			CTD btl	14:08.10	08:35	62	50,713	18	53.373	197	08:47:29	08:57	ves	Krüger		
		03		02	GC	14:08.10	09:11	62	50,712	18	53,375		09:18:00	09:33	yes			
MSM16/1	090	01	785	01	MB, PS, SES	14:08.10	17:03	63	48,29	21	34,84	180	-	05:10	yes	Nickel		
									-		-		15.08.10.					
MSM16/1	091	01	786		CTD	15.08.10	05:21	64	48,005	23	28,803	83,5		05:29	yes	Krüger		
		02			CTD btl	15.08.10	05:29	64	48,002	23		83,5	05:35:01	05:39	yes	Krüger		
				02		15.08.10	05:59	64	48,005	23			06:02:00	06:06	no			
		03		03		15.08.10	06:09	64	48,005	23	28,803		06:12:00	06:16	yes			-
		04 05		04 05		15.08.10 15.08.10	06:19 06:30	64 64	48,005 48,007	23 23	28,801 28,800		06:21:00 06:33:00	06:25 06:39	yes	-		-
		05		05		15.08.10	06:51	64	48,007	23	28,800		06:55:00	06:39	yes yes			
		07		07		15.08.10	07:05	64	48,000	23	28,799		07:10:00	07:15	yes			
MSM16/1	092	01	787		CTD	15.08.10	10:16	64	56,018	22	20,753	91,5		10:30	yes	Krüger		
		02			CTD btl	15.08.10	10:30	64	56,018	22	20,754	91,5	10:36:42	10:42	yes	Krüger		
		03		02	RL	15.08.10	10:51	64	56,018	22	20,753		10:54:00	10:59	yes			
		04		03	RL	15.08.10	11:02	64	56,017	22	20,752		11:05:00	11:09	yes			
		05		04		15.08.10	11:13	64	56,017	22	20,754		11:16:00	11:21	yes			
		06		05		15.08.10	11:35	64	55,957	22	20,751		11:38:00	11:49	yes			
		07		06		15.08.10	11:57	64	55,957	22	20,746	04.5	12:00:00	12:05	yes			
		08		07		15.08.10	12:05	64	55,956	22	20,745		12:10:00	12:15	yes			
MSM16/1	093	09 01	788	08		15.08.10 15.08.10	12:20 14:17	64 64	55,956 41,999	22 22	20,745 3,719	91,5 130	12:25:00 14:22:00	12:30 14:28	yes	<u> </u>		+
101310110/1	093	02	700	02		15.08.10	14:17	64	41,999	22	3,745	122	14:43:00	14:48	yes			
		02		02		15.08.10	14:54	64	42,005	22	3,745	122	14:57:00	15:01	yes yes			
		04		04		15.08.10	15:04	64	42,005	22	3,744		15:04:00	15:12	yes			
		05		05		15.08.10	15:15	64	42,005	22	3,745		15:15:00	15:21	yes			
		06		06	RL	15.08.10	15:24	64	42,004	22	3,745		15:24:00	15:31	yes			
		07		07		15.08.10	15:35	64	42,004	22	3,745		15:35:00	15:42	yes			
		08			GC	15.08.10	16:13	64	42,01	22	3,743		16:18:00	16:34	yes			
		09		09		15.08.10	16:36	64	42,01	22	3,745		16:40:00	16:43	yes			
		10 11		10		15.08.10	16:46	64	42,011	22	3,744		16:51:00	16:54	yes			
	094	01	789		CTD	15.08.10 15.08.10	16:58 18:30	64 64	42,01 32,7	22 22	3,745 25,5	91.5	17:01:00	17:04 18:42	yes yes	-		
	094	02	769		CTD btl	15.08.10	18:42	64	32,7	22	25,5	91,5	18:48:23	18:52	yes			
		02		03		15.08.10	18:59	64	32,728	22	25,616	31,5	19:00:00	19:04	no			
				00	RL	15.08.10	19:06	64	32,729	22	25,65		19:09:00	19:11	no			
					RL	15.08.10	19:19	64	32,731	22	25,644		19:20:00	19:24	no			
					RL	15.08.10	19:27	64	32,734	22	25,627		19:31:00	19:35	no			
		03			FL	15.08.10	19:39	64	32,745	22	25,656		19:42:00	19:46	yes			
					FL	15.08.10	19:48	64	32,755	22	25,677		19:51:00	19:55	no			
		04			FL	15.08.10	19:58	64	32,76	22	25,633		20:00:00	20:05	yes	14.11		
MSM16/1	095	01 02	790	01	CTD btl	15.08.10 15.08.10	21:38 21:50	64	18,073	22	20,555	106,8 107,2	 21:57:18	21:50 22:02	yes	Krüger		-
		02		02	CTD btl GC	15.08.10	21:50	64 64	18,075 18,081	22 22	20,583	107,2	21:57:18	22:02	yes ves	Krüger		+
MSM16/1	096	03	791		MCS, PS, MB	15.08.10	22:11	64	18,081	22	20,019			02:30	ves		1	
												Monday	/ 16.08.10.		,00		•	
MSM16/1	097	01	792	01	GC	16.08.10	12:03	62	35,157	19	58,113	210	12:09:00	12:23	yes			
													y 17.08.10.					
MSM16/1	098	01	793		CTD btl	17.08.10	14:17	57	36,93	20	50,634	58,25	14:23:00	14:34	yes			
MSM16/1	099	01	793	02	MCS, PS, MB	17.08.10	17:39	57	36,844	20				04:17	yes	L	I	1
MSM16/1	100	01	794	01	pCTD prof	18.08.10	06:52	57	17.038	20	7.087		ay 18.08.1	0. 07:42	1/00	Krüger		
1/0111/1	100	01	794	01	pCTD prof pCTD const	18.08.10	06:52	57	17,038	20	7,087	233,5		07:42	yes yes	Krüger Krüger		+
		02		1	pCTD const	18.08.10	07.43	57	17,014	20	7,012	6,25		11:57	yes	Krüger		
		04		1	pCTD const	18.08.10	12:01	57	17,016	20	6,997	85,5		13:16	yes	Krüger		1 1
		05		1	pCTD const	18.08.10	13:21	57	17,021	20	7,007	186		15:29	yes	Krüger		
													y 19.08.10					
MSM16/1	101	01	796		CTD	19.08.10	09:47	55	34,05	14	56,295	76,25		09:53	yes	Krüger		
		02		02	RL	19.08.10	10:00	55	34,058	14	56,303		10:03:00	10:06	yes			
		03		03		19.08.10	10:09	55	34,054	14	56,311		10:12:00	10:15	yes			
MSM16/1	102	01	797	01		19.08.10	10.11	55	34,059	14	56,333	78	10:35:00	10:39	yes	+		+
L		02		02	RL	19.08.10 19.08.10	10:41 10:47	55 55	34,045 34,052	14 14	56,321		10:43:00 10:49:00	10:45 10:53	no			
MSM16/1	103	02	798	02		19.08.10	10:47	55	34,052 33,960	14	56,307 56,222	79	10:49:00	10:53	yes yes			+
WIGHTO/1	100	01	130	02		19.08.10	11:16	55	33,958	14	56,209	13	11:19:00	11:22	yes		1	1
MSM16/1	104	02	799		MCS, PS	19.08.10	12:01	55	34,08	14		91,7		12:07	yes	ł	On deck 20.08.10	
									. ,			Friday	20.08.10.		,			•
													y 21.08.10					
	End of da	ata aquis	sition			20.08.10	09:00	54	23,07	10	11,48							