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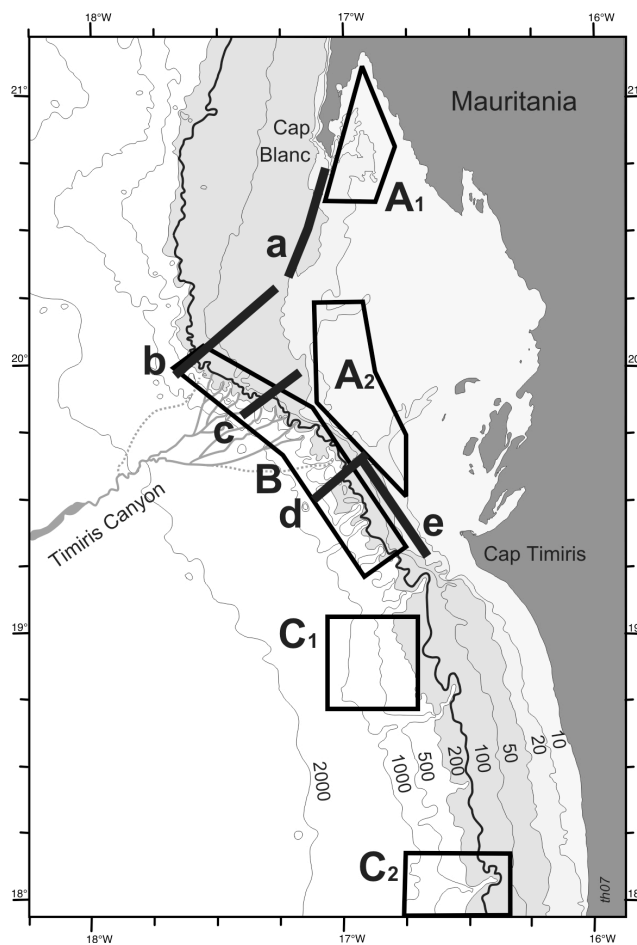
**Short Cruise Report**  
**Maria S. Merian Cruise MSM16/3**

**Bremerhaven / Germany – Mindelo / Cap Verde**

**October 13<sup>th</sup> – November 20<sup>th</sup>, 2010**

**Chief Scientist: Prof. Dr. Hildegard Westphal**

**Captain: Friedhelm von Staa**



RV Maria S. Merian leg 16/3 study area on the shelf and slope off Mauritania

## Objectives

The aim of the expedition MSM 16/3 was the comprehensive study of the complex mixed eolian and biogenic depositional system on the shelf off NW Mauritania, and the development of oceanographic upwelling and fluvial history related to Holocene sea-level rise and climate change.

The following questions were addressed:

- Characterization of the heterozoan tropical carbonates produced on the Mauritanian shelf by means of taxonomy, sedimentology, and geochemistry. Characterization of the ecosystem and influence of the upwelling and dust input on the carbonate production on the shallow shelf and the deep-water reefs on the continental slope;
- Distribution of living and dead deep-water reefs (most corals recovered during earlier expeditions in the study area were dead). Relationship between hydrography and hydrochemistry, condition, distribution of species, accompanying fauna. Differences between reefs in submarine canyons and on the continental slope. Development during the Pleistocene to Holocene;
- Terrigenous influx and marine biogenic production in the cores from the Mauritanian mud belt allow for correlating environmental conditions on land and in the sea. The depocenters on the Mauritanian shelf have a high potential for acting as high-resolution climate and environmental archive for the Holocene;
- Influence of current patterns on the clastic sedimentology, reworking patterns, influence of winnowing on clastic climate archives;
- Dust input in nearshore settings (collectors for airborne dust) to complement earlier studies further offshore;

In addition, the seafloor morphology of this complex depositional system was mapped as basic data set.

Below, details are given on the three sub-projects comprising this expedition:

### 1. Carbonate production and deposition

A main goal of the expedition was to study the carbonate production and the sedimentary system of the shallow parts of the NW Mauritanian shelf, namely the extensive shallow-water area called Banc d'Arguin. The carbonate sediments reflect the complex interaction of the influence of upwelling, dust input and the current system (i.e. the nutrient, temperature, and water energy conditions). For that, an extensive sampling program (surface samples, gravity cores and vibrocores) surface samples) was undertaken that was complemented by extensive sampling of shallow-water (2-10 mwd) areas of the Banc d'Arguin from a zodiac – an area previously not studied because of the inaccessibility for research vessels. From the zodiac, also water transparency, temperature and salinity were measured to better understand the ecological conditions in this shallow-water ecosystem.

### 2. Deep-water reefs

The deep-water reefs along the Mauritanian shelf margin were systematically mapped by multibeam and parasound profiling. In addition to conventional sediment sampling methods (gravity corer, box corer), a remotely operated vessel (ROV) was employed for the study of deep-water reef ecosystems. Employment of the ROV allowed for the characterization of selected habitats (reefs, canyons) and targeted sampling. With these techniques, samples and data were collected to allow for a better understanding of the distribution of deep-water corals and the accompanying fauna off Mauritania, determination of the environmental steering factors, and the

long-term development of the deep-water coral reef ecosystems.

### 3. Clastic sedimentation on the shelf

The aim was to study the present-day sedimentary system of the Golfe d'Arguin in large detail, and to reconstruct the Holocene development with a high resolution. For this task, two areas of the shelf were studied for the first time to achieve a complete image. Before the cruise, no information existed on the carbonate sediment production and sediment reworking on the shallow (<10m) parts of Banc d'Arguin. However, this information is required in order to understand the sediment distribution of the depositional system and to combine the aspects sediment input, sediment production, currents, and morphology. In addition, the development of the shelf during deglacial flooding to the Holocene sealevel high-stand and to the modern situation will be reconstructed on the basis of the new sediment cores taken.

## **Narrative**

### **Transit to Las Palmas**

RV Maria S. Merian left the port of Bremerhaven on Thursday 14<sup>th</sup>, 2010 at 13:10h, heading towards Las Palmas/Gran Canaria. The vibrocorer had been assembled on the deck of Maria S. Merian in the port of Bremerhaven. Two scientists, Stephen Schilling and Hermann Kudrass, participated at the transect to Las Palmas/Gran Canaria in order to prepare Parasound, multibeam and Innomar operations.

### **1<sup>st</sup> Week – Oct 21 - 27 2010**

The other scientists flew to Las Palmas and boarded on October 21<sup>st</sup>. The transit from Las Palmas to the study area off Mauritania took about 40h. During the transit, the scientific crew prepared laboratories, installed instruments such as the dust collector, and several preparatory meetings between scientists and crew took place in order to prepare ROV and Zodiac operations. We approached the study area on Saturday 23<sup>rd</sup>, 2010. The first station was a CTD profile starting at 22:40h, combined with a parasound profile of the outer shelf of northernmost Mauritania. The following days were used to sample a profile with box corer, gravity corer, and vibrocorer, mapped the night before. The nights of the following days were usually used to map the shelf off central Banc d'Arguin with parasound and multibeam. Additionally more CTD's were cast in the seaward positions on the profiles. On Tuesday 26<sup>th</sup> Maria S. Merian approached the shallow southern Banc d'Arguin to a water depth of about 30m, where the zodiac was deployed in order to access the shallow water areas bank with water depth of less than 10m. During the first zodiac trip in the morning, the parasound device (Innomar) was used to study the sedimentary architecture, later in the afternoon during a second zodiac trip surface samples were taken (hand-grab gear) and additional physicochemical measurements of the water column were undertaken using hand-CTD and Secchi disk. During the night the mud wedge off the southern Banc d'Arguin was mapped with parasound and multibeam and several CTD casts were run. On the 27<sup>th</sup>, the zodiac was deployed on a position a few miles south of the previous deployment position. As for the day before, in the morning mapping by Innomar gear was undertaken to gain information on the sedimentary architecture, and from noon to the early evening, a second zodiac trip took place to sample the seafloor sediment and run CTD and Secchi disk measurements. During the night, canyons in the area mapped the days before were re-mapped in higher detail to provide the bathymetric information for the first ROV run planned for the next day.

### **2<sup>nd</sup> Week – Oct 28 - Nov 3**

On Thursday 28<sup>th</sup> the ROV was deployed for the first time during this cruise in order to investigate a canyon system and a structure elevated about 35m above the side of the canyon thalweg in about 500m waterdepth. The dive confirmed the assumption that this structure represents a multipeak coral mound. During the night time and early morning, multibeam- and parasound-mapping of the canyon area was continued and a yet unstudied canyon off Cap Timiris was mapped. Friday 29<sup>th</sup> was spent on innomar profiling the shallow bank areas with the zodiac and to

take sediment samples on a second trip later in the afternoon. In the evening, gravity coring complemented the previous sampling of the shelf area. During the remaining night coral mound structures and canyon valleys were mapped. On Oct. 30, a second ROV dive was undertaken that observed active patch reefs of the deep water coral *Lophelia* in a water depth of 300-600m. On Sunday 31<sup>st</sup>, we arrived at Cap Blanc and entered the Baie de Lévier on the northernmost Mauritanian shelf. In the bay, the zodiac was deployed to undertake the now routine inshore and sediment sampling program. Nov 1 was spent on a second day of zodiac operations in shallow waters of Baie du Levrier. Sediments in the adjacent deeper areas of >20m are fine grained and rich in organic material (H<sub>2</sub>S smell), whereas the shallow-water sediment of areas less than 10m are coarse grained, biogenic carbonatic material with admixed, well rounded siliciclastic grains. During zodiac operations, from board of the Maria S. Merian vibro- and gravity-cores were taken in water depth of 23-85 metres in order to obtain archives of the Holocene evolution of the shelf, i.e. the post-glacial flooding and the climate evolution during the Holocene. After leaving the bay, during following night the northernmost major submarine canyon off Golfe d'Arguin, the Tandouret Canyon, was mapped to prepare ROV operations planned for the next day. Additionally two CTDs were run for gaining a better understanding of the current regime and water masses in the canyon. On Wednesday 3<sup>rd</sup>, the ROV was deployed in the area of Tandouret Canyon that had been mapped the night before. The ROV encountered abundant live *Lophelia*, a large number of crabs and fish. Again samples of the *Lophelia* biohermal structures were taken. After casting a CTD, the parasound profiling along the 40 mwd isobath of the Banc d'Arguin was continued southward.

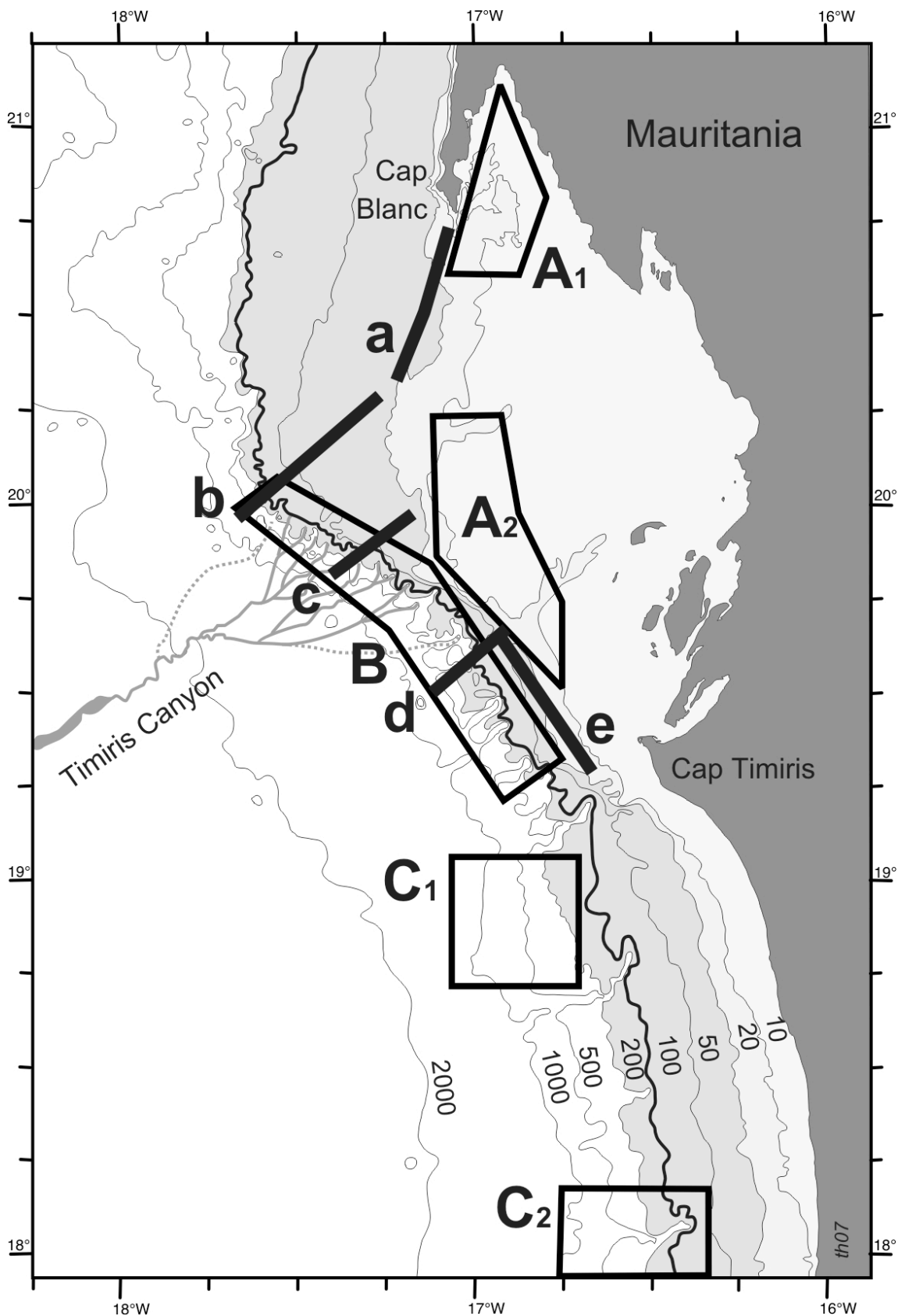
### **3<sup>rd</sup> Week – Nov 4 - 10**

On Nov 4, the zodiac was deployed on the southern Banc d'Arguin just west of the positions of the first week in order to study the shoals of this part of the bank. During the late afternoon, a safety exercise of the crew took place. On Friday 5<sup>th</sup> the last zodiac operations of our cruise took place on the central Banc d'Arguin in water depth up to 25 mwd. In the evening vibrocoring was scheduled for sampling the outer Arguin mud wedge, however because of technical problems the procedure was cancelled. During the remaining night, a parasound survey and multibeam mapping took place. The night work was completed CTD. During Saturday, positions on the small mud wedge between the Arguin and Timiris mud wedges were sampled by means of box, gravity and vibro-coring. During the night the deep mound chain was mapped in detail in order to assess the probability that these structures represent coral buildups. On Sunday 7<sup>th</sup>, sediment sampling of the deep mound chain took place in water depth between 1000 to 1300 mwd. However all promising structures showed consolidated clays but no corals. During the night from Sunday to Monday we moved southward while measuring a parasound section of the Timiris mud wedge at the edge of the southern Golfe d'Arguin in order to complete the profiling in this area. Later that day the sampling of the Timiris mud wedge took place, by means of box coring and gravity coring. Seven cores were taken in order to gain a better understanding of the architecture of the sediment bodies on the shelf. The map of the southernmost canyon off Cap Timiris was completed with a last multibeam survey at the canyon site. In the evening and during the night a 13-hours yoyo CTD was run in the canyon system in order to gain data on the variability of the oceanographic parameters during tidal cycles. After a short transit to an adjacent canyon head, we launched the ROV again in search for cold-water coral habitats. Following the ROV dive we left the canyon area off the Golfe d'Arguin and mapped a 30-miles long transect towards south along the continental slope with multibeam and parasound. Two ridges of coral reefs at different water depths were detected. On Wednesday 10<sup>th</sup> two ROV dives were carried out to explore coral mounds off southern Mauritania. During the night, mapping was continued along the coral-mound chains further south.

### **4<sup>th</sup> Week – Nov 11 – 17**

On Nov 11 we returned to the ROV position of Nov 9 for box coring and gravity coring of the reef in order to investigate the development of the reef through time. Box core surfaces confirmed the findings of the ROV dive that the reefs are heavily damaged and are covered by coral rubble, colonized by bryozoans, sponges and hydrozoans. The shallower and the deeper ridge were thus sampled. Later that day a 13-hours yoyo CTD was run in the same area. On Friday 12<sup>th</sup> gravity coring of the reefs was resumed. The remaining day was used for filling gaps in the multibeam maps and for conducting an ROV dive to investigate clusters of *Lophelia* and giant bivalve species *Acesta*, crabs and some deep-sea oysters. During the night a yoyo-CTD was carried out. Saturday

13<sup>th</sup> was spent on further investigation of the coral mounds, including ROV dives, core sampling. During the evening the parasound and multibeam mapping continued southbound to the Banda Mounds off Nouakchott. The mapping was completed on Sunday 14<sup>th</sup> in the morning. The Banda mounds had already been visited during RV Poseidon cruise 346 in 2007/2007. The planned ROV dive had to be cancelled due rough sea conditions, instead Van Veen grabs, gravity coring and static CTD cast were carried out in this area. The afternoon was spent on mapping large slide scars that apparently were colonized by coral mounds. The mapping was completed in the evening and an additional yoyo CTD was started in an off-slope position. During the night from 14<sup>th</sup> to 15<sup>th</sup>, a 13 hours yoyo-CTD was carried out west of the submarine slide mapped the day before. The morning was spent on an ROV dive. We encountered abundant live corals, mainly *Lophelia* and accompanying fauna such as fish and crabs. After the dive samples were taken using the gravity corer and the van veen grab. After the sediment sampling, a CTD was casted, later during the night, multibeam mapping continued along the mound chain in southward direction and back up north to the Banda mounds. On Tuesday 16<sup>th</sup> the ROV was deployed to investigate the Banda mounds. The status of these reefs here was much poorer than that of the chain in the slide area. A second dive in the afternoon took place again in the slide region further to the south. The dive site was the tail of a several kilometre-long coral mound ridge. Surprisingly the tail was composed of muddy-silty sediments with sparse coral coverage. During the evening and the night, box coring and gravity coring was undertaken in the slide region next to the waypoints of the last ROV dive. After completing coring and multibeam procedures we headed to our southernmost position of the cruise at the southernmost part of the mound chain. Curious honeycomb network structures of the mound ridges characterize the large-scale geometry of this part of the coral mound chain. The next and last working day, Wednesday 17<sup>th</sup> was spent on the investigation of the honeycomb structures encountered the day before. The ROV was set out and a CTD cast was run. We locally found flourishing reef structures colonizing hardground blocks overgrown by *Lophelia* and *Madrepora* coral, abundant *Acesta* and various sponges and bryozoans. After completing the Maria S. Merian left the study area headed for Mindelo, Cap Verde. A final meeting of the scientists completed the scientific program of the cruise. On Friday 17<sup>th</sup> of November we arrived in Mindelo at 9:00 local time. At 10:00 the port crane arrived to take the containers offboard. After packing of an additional container for the abundant sediment sample material, the laboratories were cleaned.



**Fig. 1:** Study area on the shelf and slope off Mauritania. Areas A1, A2 focused on the shallow Banc d'Arguin (carbonate production, dust reworking) and were sampled from the zodiac. Area B focused on shelf development and high-resolution archives. Areas C1, C2 concentrated on deep-water coral sediments. Note that C2 was extended southward on a short-term permit of the Mauritanian authorities.



**Fig. 2** The MSM16-3 scientists:

(f.l.t.r.) Guillem Mateu, André Klicpera, Abdoul Dia, Stefan Braun, Nereo Preto, Hendrik Lantzsch, Claudia Wienberg, Oliver Mund, Hildegard Westphal, Lydia Beuck, Philipp Meyer, Corinna Schollenberger, André Freiwald, Jonas Von Reumont, Brit Kockisch, Stephen Meyer, Steffen Hetzinger, Tomas Lundälv, Till Hanebuth, Hermann Kudrass. (Photo: Nereo Preto)

## Acknowledgements

We would like to thank captain Friedhelm von Staa, his officers and crew of RV Maria S. Merian for their support of our measurement and sampling programme and for creating a very friendly atmosphere on board. Thanks are also due to the Marum logistics, in particular Götz Ruhland, Marco Klann, and Volker Diekamp, as well as Nadine Peichert, for their support during preparations. Sincere thanks to the Mauritanian Authorities for permitting us to work in their waters. The Foreign Ministry and Embassy, namely Wolfgang Mahrle and Claudia Fröning, are also acknowledged for their help. Many thanks are due to Abdoul Dia from the Mauritanian Institute for Oceanographic Research and Fisheries for his collaboration.

## Cruise participants

|     |                        |                                    |                         |
|-----|------------------------|------------------------------------|-------------------------|
| 1.  | Hildegard Westphal     | Chief Scientist                    | ZMT/MARUM/FB5           |
| 2.  | Till Hanebuth          | Clastic sedimentology              | MARUM/FB5               |
| 3.  | Andre Freiwald         | Deep water corals                  | SaM                     |
| 4.  | Lydia Beuck            | Deep water corals                  | SaM                     |
| 5.  | André Klicpera         | Carbonate sedimentology            | MARUM/FB5               |
| 6.  | Hendrik Lantsch        | Clastic sedimentology              | MARUM/FB5               |
| 7.  | Tomas Lundälv          | ROV pilot                          | UGotenborg              |
| 8.  | Guillem Mateu Vicens   | Foraminifers                       | UBalears                |
| 9.  | Stefan Braun           | Dust                               | MARUM/FB5               |
| 10. | Claudia Wienberg       | Deep water corals                  | MARUM/FB5               |
| 11. | Marco Taviani          | Mollusks                           | ISMAR-CNR               |
| 12. | Jonas v Reumont        | CTD/Rosette                        | IfM-GEOMAR              |
| 13. | Steffen Hetzinger      | CTD/Rosette                        | IfM-GEOMAR              |
| 14. | Oliver Mund            | Technican                          | MARUM/FB5               |
| 15. | Nereo Preto            | Carbonate Sedimentology            | UPadova                 |
| 16. | Brit Kockisch          | Lab-Logistic                       | MARUM/FB5               |
| 17. | Stephen Schilling      | Acoustics                          | MARUM/FB5               |
| 18. | Philipp Meyer          | Clastic sedimentology              | MARUM/FB5               |
| 19. | Abdoul Dia             | Scientific observer                | IMROP                   |
| 20. | Corinna Schollenberger | Technican                          | SaM                     |
| 21. | Hermann Kudrass        | Acoustics                          | MARUM/FB5               |
| 22. | Jan Philipp Günter     | additional 2 <sup>nd</sup> Officer | Briese shipping company |
| 23. | Reinhard Müller        | Medical doctor                     | Briese shipping company |



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## Station list

### Parasound/Mulibeam profiles

| GeoB station | MSM station | Campaign | Area                                       | Device | Date start | Time start | Date end | Time end | Latitude start | Longitude start | Water depth start (m) | Latitude end | Longitude end | Water depth end (m) |
|--------------|-------------|----------|--------------------------------------------|--------|------------|------------|----------|----------|----------------|-----------------|-----------------------|--------------|---------------|---------------------|
| GeoB 14702-1 | MSM 868-1   | MSM16-3  | Arguin mud wedge                           | PS/MB  | 23.10.10   | 23:01      | 24.10.10 | 08:07    | 20°28.97'      | 17°37.803'      | -135                  | 20°20.061'   | 17°24.528'    | -43                 |
| GeoB 14709-1 | MSM 875-1   | MSM16-3  | Arguin mud wedge                           | PS/MB  | 24.10.10   | 20:15      | 25.10.10 | 16:04    | 20°17.03'      | 17°21.68'       | -33                   | 20°15.08'    | 17°32.45'     | -56                 |
| GeoB 14718-1 | MSM 884-1   | MSM16-3  | Timiris Canyon system                      | PS/MB  | 25.10.10   | 21:12      | 26.10.10 | 03:58    | 19°54.380'     | 17°15.057'      | -37                   | 19°43.40'    | 17°12.45'     | -660                |
| GeoB 14739-1 | MSM 904-1   | MSM16-3  | outer shelf southern Banc d'Arguin         | PS/MB  | 26.10.10   | 17:53      | 27.10.10 | 05:30    | 19°42.13'      | 16°56.89'       | -40                   | 19°26.21'    | 16°52.25'     | 82                  |
| GeoB 14758-1 | MSM 923-1   | MSM16-3  | Canyon area southern Banc d'Arguin         | PS/MB  | 27.10.10   | 21:35      | 28.10.10 | 08:24    | 19°41.99'      | 17°11.48'       | -552                  | 19°43.85'    | 17°08.97'     |                     |
| GeoB 14762-1 | MSM 927-1   | MSM16-3  | Banc d'Arguin                              | PS/MB  | 28.10.10   | 21:10      | 29.10.10 | 08:00    | 19°49.58'      | 17°15.36'       | -221                  | 19°07.33'    | 16°36.12'     | -61                 |
| GeoB 14774-1 | MSM 940-1   | MSM16-3  | Cap Timiris                                | PS/MB  | 29.10.10   | 16:35      | 29.10.10 | 19:24    | 19°13.40'      | 16°40.64'       | -107                  | 19°08.29'    | 16°44.64'     | -576                |
| GeoB 14776-1 | MSM 940-2   | MSM16-3  | Cap Timiris                                | PS/MB  | 29.10.10   | 21:55      | 30.10.10 | 08:00    | 19°08.40'      | 16°44.46'       | -576                  | 19°10.38'    | 16°49.29'     | -215                |
| GeoB 14787-1 | MSM 953-1   | MSM16-3  | Banc d'Arguin                              | PS/MB  | 01.11.10   | 18:51      | 02.11.10 | 06:19    | 20°35.07'      | 17°09.93'       | -34                   | 20°15.62'    | 17°34.78'     | -44                 |
| GeoB 14793-1 | MSM 959-1   | MSM16-3  | northern canyon area west of Banc d'Arguin | PS/MB  | 02.11.10   | 17:48      | 03.11.10 | 03:20    | 20°18.67'      | 17°35.19'       | -81                   | 20°20.14'    | 17°41.39'     | -497                |
| GeoB 14804-1 | MSM 970-1   | MSM16-3  | Banc d'Arguin                              | PS/MB  | 04.11.10   | 00:40      | 04.11.10 | 06:57    | 20°13.00'      | 17°34.64'       | -72                   | 19°45.27'    | 17°02.14'     | -56                 |
| GeoB 14823-1 | MSM 989-1   | MSM16-3  | Banc d'Arguin                              | PS/MB  | 04.11.10   | 17:37      | 05.11.10 | 01:12    | 19°40.60'      | 16°55.62'       | -37                   | 20°12.13'    | 17°30.01'     | -48                 |
| GeoB 14824-1 | MSM 989-1   | MSM16-3  | Banc d'Arguin                              | PS/MB  | 05.11.10   | 01:13      | 05.11.10 | 08:00    | 20°12.13'      | 17°30.01'       | -48                   | 20°10.06'    | 17°22.60'     | -32                 |
| GeoB 14843-1 | MSM 1011-1  | MSM16-3  | Banc d'Arguin                              | PS/MB  | 05.11.10   | 17:28      | 05.11.10 | 18:54    | 20°07.15'      | 17°22.47'       | -31                   | 20°01.59'    | 17°29.24'     | -69                 |
| GeoB 14845-1 | MSM 1013-1  | MSM16-3  | southern Banc d'Arguin                     | PS/MB  | 05.11.10   | 19:36      | 06.11.10 | 03:23    | 20°01.62'      | 17°29.30'       | -70                   | 19°49.77'    | 17°18.02'     | -258                |
| GeoB 14851-1 | MSM 1019-1  | MSM16-3  | deep mound chain                           | PS/MB  | 06.11.10   | 17:58      | 07.11.10 | 08:06    | 19°40.53'      | 17°16.47'       | -922                  | 19°48.63'    | 17°28.34'     | -1312               |
| GeoB 14864-1 | MSM 1032-1  | MSM16-3  | Timiris mud wedge                          | PS/MB  | 07.11.10   | 23:35      | 08.11.10 | 07:43    | 19°44.00'      | 17°01.15'       | -66                   | 19°30.67'    | 16°51.71'     | -54                 |
| GeoB 14869-1 | MSM 1037-1  | MSM16-3  | Canyon area W of Cap Timiris               | PS/MB  | 08.11.10   | 18:46      | 08.11.10 | 22:18    | 19°11.95'      | 16°49.70'       | ?                     | 19°10.04'    | 16°43.23'     | ?                   |
| GeoB 14875-1 | MSM 1042-1  | MSM16-3  | Timiris coral mound chain                  | PS/MB  | 10.11.10   | 19:22      | 11.11.10 | 06:58    | 18°57.67'      | 16°51.29'       | 534                   | 18°46.30'    | 16°49.33'     | -468                |
| GeoB 14872-1 | MSM 1040-1  | MSM16-3  | Timiris coral mound chain                  | PS/MB  | 09.11.10   | 23:19      | 10.11.10 | 08:03    | 19°02.35'      | 16°52.18'       | ?                     | 18°57.08'    | 16°50.53'     | -432                |
| GeoB 14893-1 | MSM 1059-1  | MSM16-3  | Banda mounds                               | PS/MB  | 13.11.10   | 15:26      | 14.11.10 | 08:01    | 18°38.48'      | 16°43.52'       | -501                  | 17°37.69'    | 16°41.38'     | -598                |

|                     |            |         |                          |              |                 |              |          |       |                  |                  |             |           |           |      |
|---------------------|------------|---------|--------------------------|--------------|-----------------|--------------|----------|-------|------------------|------------------|-------------|-----------|-----------|------|
| <b>GeoB 14900-1</b> | MSM 1066-1 | MSM16-3 | Banda slide              | <b>PS/MB</b> | <b>14.11.10</b> | <b>13:35</b> | 14.11.10 | 21:52 | <b>17°40.06'</b> | <b>16°40.17'</b> | <b>-544</b> | 17°36.59' | 16°41.89' | -714 |
| <b>GeoB 14907-1</b> | MSM 1073-1 | MSM16-3 | Banda slide              | <b>PS/MB</b> | <b>16.11.10</b> | <b>01:51</b> | 16.11.10 | 07:59 | <b>17°29.13'</b> | <b>16°41.36'</b> | <b>-479</b> | 17°39.45' | 16°41.80' | -652 |
| <b>GeoB 14913-1</b> | MSM 1079-1 | MSM16-3 | southernmost mound chain | <b>PS/MB</b> | <b>17.11.10</b> | <b>00:51</b> | 17.11.10 | 07:52 | <b>17°28.90'</b> | <b>16°42.16'</b> | <b>-573</b> | 17°05.69' | 16°49.50' | -543 |

## CTD/ROS stations

| GeoB station        | MSM station | Campaign | Area                                       | Device         | Consec.<br>number of<br>cast | Date     | Time  | Latitude   | Longitude  | Water<br>depth (m) |
|---------------------|-------------|----------|--------------------------------------------|----------------|------------------------------|----------|-------|------------|------------|--------------------|
| <b>GeoB 14701-1</b> | MSM 867-1   | MSM16-3  | Arguin mud wedge                           | <b>CTD/ROS</b> | 1                            | 23.10.10 | 22:06 | 20°26.600' | 17°41.696' | -245               |
| <b>GeoB 14708-1</b> | MSM874-1    | MSM16-3  | Arguin mud wedge                           | <b>CTD/ROS</b> | 2                            | 24.10.10 | 18:14 | 20°14.120' | 17°35.309' | -90                |
| <b>GeoB 14710-1</b> | MSM 876-1   | MSM16-3  | Arguin mud wedge                           | <b>CTD/ROS</b> | 3                            | 24.10.10 | 23:28 | 20°07.726' | 17°38.692' | -23                |
| <b>GeoB 14711-1</b> | MSM 877-1   | MSM16-3  | Arguin mud wedge                           | <b>CTD/ROS</b> | 4                            | 25.10.10 | 00:47 | 20°04.687' | 17°34.268' | -92                |
| <b>GeoB 14712-1</b> | MSM 878-1   | MSM16-3  | Arguin mud wedge                           | <b>CTD/ROS</b> | 5                            | 25.10.10 | 05:15 | 20°01.241' | 17°29.936' | -70                |
| <b>GeoB 14713-1</b> | MSM 879-1   | MSM16-3  | Timiris canyon                             | <b>CTD/ROS</b> | 6                            | 25.10.10 | 06:28 | 19°57.120' | 17°27.260' | -112               |
| <b>GeoB 14719-1</b> | MSM 885-1   | MSM16-3  | Timiris Canyon system                      | <b>CTD/ROS</b> | 7                            | 25.10.10 | 22:51 | 19°47.913' | 17°16.376' | -721               |
| <b>GeoB 14720-1</b> | MSM 886-1   | MSM16-3  | Timiris Canyon system                      | <b>CTD/ROS</b> | 8                            | 26.10.10 | 01:35 | 19°45.485' | 17°14.782' | -205               |
| <b>GeoB 14721-1</b> | MSM 887-1   | MSM16-3  | Timiris Canyon system                      | <b>CTD/ROS</b> | 9                            | 26.10.10 | 04:35 | 19°43.471' | 17°12.442' | -598               |
| <b>GeoB 14740-1</b> | MSM 905-1   | MSM16-3  | outer shelf southern Banc d'Arguin         | <b>CTD/ROS</b> | 10                           | 26.10.10 | 19:49 | 19°35.225' | 17°00.772' | -260               |
| <b>GeoB 14741-1</b> | MSM 906-1   | MSM16-3  | outer shelf southern Banc d'Arguin         | <b>CTD/ROS</b> | 11                           | 27.10.10 | 01:58 | 19°29.990' | 17°02.488' | -296               |
| <b>GeoB 14742-1</b> | MSM 907-1   | MSM16-3  | outer shelf southern Banc d'Arguin         | <b>CTD/ROS</b> | 12                           | 27.10.10 | 05:52 | 19°25.985' | 16°52.680' | -92                |
| <b>GeoB 14757-1</b> | MSM 922-1   | MSM16-3  | Canyon area southern Banc d'Arguin         | <b>CTD/ROS</b> | 13                           | 27.10.10 | 20:40 | 19°41.990' | 17°11.479' | -499               |
| <b>GeoB 14760-1</b> | MSM 925-1   | MSM16-3  | Canyon area southern Banc d'Arguin         | <b>CTD/ROS</b> | 14                           | 28.10.10 | 16:34 | 19°44.292' | 17°08.754' | -458               |
| <b>GeoB 14761-2</b> | MSM 926-2   | MSM16-3  | Canyon area southern Banc d'Arguin         | <b>CTD/ROS</b> | 15                           | 28.10.10 | 19:10 | 19°44.271' | 17°08.827' | -470               |
| <b>GeoB 14777-1</b> | MSM 942-1   | MSM16-3  | Cap Timiris                                | <b>CTD/ROS</b> | 16                           | 30.10.10 | 10:04 | 19°10.384' | 16°49.315' | -810               |
| <b>GeoB 14778-1</b> | MSM 943-1   | MSM16-3  | Cap Timiris                                | <b>CTD/ROS</b> | 17                           | 30.10.10 | 12:07 | 19°12.956' | 16°51.679' | -693               |
| <b>GeoB 14794-1</b> | MSM 960-1   | MSM16-3  | northern canyon area west of Banc d'Arguin | <b>CTD/ROS</b> | 18                           | 03.11.10 | 05:25 | 20°13.747' | 17°43.629' | -1023              |

|                     |            |         |                                                   |                |    |          |       |            |            |       |
|---------------------|------------|---------|---------------------------------------------------|----------------|----|----------|-------|------------|------------|-------|
| <b>GeoB 14795-1</b> | MSM 961-1  | MSM16-3 | northern canyon area west of Banc d'Arguin        | <b>CTD/ROS</b> | 19 | 03.11.10 | 07:00 | 20°14.340' | 17°44.162' | -595  |
| <b>GeoB 14797-1</b> | MSM 963-1  | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>CTD/ROS</b> | 20 | 03.11.10 | 17:30 | 20°17.380' | 17°40.180' | -560  |
| <b>GeoB 14846-1</b> | MSM 1014-1 | MSM16-3 | southern Banc d'Arguin                            | <b>CTD/ROS</b> | 21 | 06.10.10 | 07:06 | 19°38.505' | 17°16.506' | -1001 |
| <b>GeoB 14803-1</b> | MSM 969-1  | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>CTD/ROS</b> | 21 | 03.11.10 | 23:26 | 20°14.854' | 17°40.194' | -661  |
| <b>GeoB 14870-1</b> | MSM 1038-1 | MSM16-3 | Canyon area W of Cap Timirs                       | <b>CTD/ROS</b> | 22 | 08.11.10 | 23:14 | 19°10.856' | 16°48.370' | -707  |
| <b>GeoB 14881-1</b> | MSM 1048-1 | MSM16-3 | Timiris coral mound chain                         | <b>CTD/ROS</b> | 23 | 11.11.10 | 16:38 | 18°57.720' | 16°52.259' | -568  |
| <b>GeoB 14887-1</b> | MSM 1054-1 | MSM16-3 | Canyon S of Timiris mound chain                   | <b>CTD/ROS</b> | 24 | 12.11.10 | 21:13 | 18°39.403' | 16°43.765' | -942  |
| <b>GeoB 14894-1</b> | MSM 1060-1 | MSM16-3 | Banda mounds                                      | <b>CTD/ROS</b> | 25 | 14.11.10 | 08:58 | 17°40.173' | 16°41.194' | -605  |
| <b>GeoB 14901-1</b> | MSM 1067-1 | MSM16-3 |                                                   | <b>CTD/ROS</b> | 26 | 14.11.10 | 22:50 | 17°36.557' | 16°44.581' | -889  |
| <b>GeoB 14906-1</b> | MSM 1072-1 | MSM16-3 | Banda slide                                       | <b>CTD/ROS</b> | 27 | 16.11.10 | 01:00 | 17°32.489' | 16°40.122' | -567  |
| <b>GeoB 14912-1</b> | MSM 1078-1 | MSM16-3 | southern Banda slide                              | <b>CTD/ROS</b> | 28 | 17.11.10 | 00:25 | 17°28.925' | 16°41.930' | -548  |
| <b>GeoB 14915-1</b> | MSM 1081-1 | MSM16-3 | southernmost mound chain                          | <b>CTD/ROS</b> | 29 | 17.11.10 | 17:35 | 17°08.045' | 16°48.967' | -415  |

## Zodiac SES (Innomar)

| GeoB station        | MSM station | Campaign | Area                   | Device     | Consec.<br>number of<br>cast | Date     | Time<br>start | Time<br>end | Latitude<br>start | Longitude<br>start | Water<br>depth start<br>(m) | Latitude<br>end | Longitude<br>end | Water<br>depth end<br>(m) |
|---------------------|-------------|----------|------------------------|------------|------------------------------|----------|---------------|-------------|-------------------|--------------------|-----------------------------|-----------------|------------------|---------------------------|
| <b>GeoB 14722-1</b> | MSM 888-1   | MSM16-3  | southern Banc d'Arguin | <b>SES</b> | 1                            | 26.10.10 | 09:10         | 11:06       | 19°42.7'          | 16°56.3'           | -3                          | 19°42.8'        | 16°55.7'         | -3                        |
| <b>GeoB 14743-1</b> | MSM 908-1   | MSM16-3  | southern Banc d'Arguin | <b>SES</b> | 2                            | 27.10.10 | 00:00         | 11:30       | 19°32.70'         | 16°50.40'          | -29                         | 19°33.49'       | 16°51.01'        | -27                       |
| <b>GeoB 14763-1</b> | MSM 928-1   | MSM16-3  | Cap Timiris shelf      | <b>SES</b> | 3                            | 29.10.10 | 08:26         | 10:30       | 19°07.381'        | 16°34.976'         | -60                         | 19°07.23'       | 16°34.53'        | -60                       |
| <b>GeoB 14781-1</b> | MSM 946-1   | MSM16-3  | Baie du Levrier        | <b>SES</b> | 4                            | 31.10.10 | 11:33         | 13:03       | 20°52.81'         | 16°59.53'          | -15                         | 20°52.81'       | 16°59.53'        | -15                       |
| <b>GeoB 14784-1</b> | MSM 950-1   | MSM16-3  | Baie du Levrier        | <b>SES</b> | 5                            | 01.11.10 | 08:54         | 11:06       | 20°49.44'         | 16°59.63'          | -14                         | 20°49.44'       | 16°59.63'        | -14                       |
| <b>GeoB 14805-1</b> | MSM 971-1   | MSM16-3  | southern Banc d'Arguin | <b>SES</b> | 6                            | 04.11.10 | 08:21         | 11:20       | 19°42.74'         | 16°57.13'          | -37                         | 19°43.29'       | 16°58.35'        | -44                       |
| <b>GeoB 14825-1</b> | MSM 993-1   | MSM16-3  | central Banc d'Arguin  | <b>SES</b> | 7                            | 05.11.10 | 08:15         | 11:26       | 20°10.06'         | 17°22.43'          | -32                         | 20°11.75'       | 17°21.97'        | -32                       |

## Zodiac Sediment Sampling and CTD

| GeoB station  | MSM station | Campaign | Area                   | Device        | Date     | Latitude   | Longitude  | Water depth (m) |
|---------------|-------------|----------|------------------------|---------------|----------|------------|------------|-----------------|
| GeoB 14725    |             |          |                        |               | 26.10.10 |            |            |                 |
| GeoB 14725-1  | MSM 891-1   | MSM16-3  | southern Banc d'Arguin | hCTD, hBG     | 26.10.10 | 19°43.688' | 16°55.122' | -7              |
| GeoB 14725-2  | MSM 891-2   | MSM16-3  | southern Banc d'Arguin | hCTD, hBG     | 26.10.10 | 19°44.055' | 16°54.354' | -8,5            |
| GeoB 14725-3  | MSM 891-3   | MSM16-3  | southern Banc d'Arguin | hBG           | 26.10.10 | 19°43.581' | 16°54.273' | -9              |
| GeoB 14725-4  | MSM 891-4   | MSM16-3  | southern Banc d'Arguin | hBG           | 26.10.10 | 19°43.185' | 16°54.360' | -8,5            |
| GeoB 14725-5  | MSM 891-5   | MSM16-3  | southern Banc d'Arguin | hCTD, hBG     | 26.10.10 | 19°42.823' | 16°54.450' | -8              |
| GeoB 14725-6  | MSM 891-6   | MSM16-3  | southern Banc d'Arguin | hCTD, hBG, SD | 26.10.10 | 19°42.414' | 16°54.572' | -6              |
| GeoB 14725-7  | MSM 891-7   | MSM16-3  | southern Banc d'Arguin | hBG, SD       | 26.10.10 | 19°42.163' | 16°54.699' | -8              |
| GeoB 14725-8  | MSM 891-8   | MSM16-3  | southern Banc d'Arguin | hCTD, hBG, SD | 26.10.10 | 19°41.903' | 16°55.033' | -8              |
| GeoB 14725-9  | MSM 891-9   | MSM16-3  | southern Banc d'Arguin | hCTD, hBG, SD | 26.10.10 | 19°41.729' | 16°55.003' | -12             |
| GeoB 14725-10 | MSM 891-10  | MSM16-3  | southern Banc d'Arguin | SD            | 26.10.10 | 19°41.631' | 16°54.859' | -7,5            |
| GeoB 14725-11 | MSM 891-11  | MSM16-3  | southern Banc d'Arguin | hCTD, SD      | 26.10.10 | 19°41.551' | 16°54.807' | -7,5            |
| GeoB 14725-12 | MSM 891-12  | MSM16-3  | southern Banc d'Arguin | hBG           | 26.10.10 | 19°41.491' | 16°54.760' | -8              |
| GeoB 14725-13 | MSM 891-13  | MSM16-3  | southern Banc d'Arguin | hBG           | 26.10.10 | 19°41.024' | 16°54.943' | -22             |
| GeoB 14725-14 | MSM 891-14  | MSM16-3  | southern Banc d'Arguin | hCTD, hBG     | 26.10.10 | 19°41.118' | 16°54.907' | -15             |
| GeoB 14725-15 | MSM 891-15  | MSM16-3  | southern Banc d'Arguin | hCTD, hBG     | 26.10.10 | 19°40.930' | 16°55.096' | -26             |
| GeoB 14748    |             |          |                        |               | 27.10.10 |            |            |                 |
| GeoB 14748-1  | MSM 913-1   | MSM16-3  | southern Banc d'Arguin | hBG, hCTD, SD | 27.10.10 | 19°32.965' | 16°49.950' | -23             |
| GeoB 14748-2  | MSM 913-2   | MSM16-3  | southern Banc d'Arguin | hBG           | 27.10.10 | 19°33.257' | 16°49.513' | -19             |
| GeoB 14748-3  | MSM 913-3   | MSM16-3  | southern Banc d'Arguin | hBG, hCTD, SD | 27.10.10 | 19°33.524' | 16°49.110' | -18             |
| GeoB 14748-4  | MSM 913-4   | MSM16-3  | southern Banc d'Arguin | hBG           | 27.10.10 | 19°33.825' | 16°48.706' | -15             |
| GeoB 14748-5  | MSM 913-5   | MSM16-3  | southern Banc d'Arguin | hBG (3x)      | 27.10.10 | 19°33.836' | 16°48.829' | -15             |

|                      |            |         |                        |                      |                 |                   |                   |            |
|----------------------|------------|---------|------------------------|----------------------|-----------------|-------------------|-------------------|------------|
| <b>GeoB 14748-6</b>  | MSM 913-6  | MSM16-3 | southern Banc d'Arguin | <b>hBG, hCTD, SD</b> | <b>27.10.10</b> | <b>19°34.083'</b> | <b>16°48.271'</b> | <b>-8</b>  |
| <b>GeoB 14748-7</b>  | MSM 913-7  | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°34.026'</b> | <b>16°48.396'</b> | <b>-12</b> |
| <b>GeoB 14748-8</b>  | MSM 913-8  | MSM16-3 | southern Banc d'Arguin | <b>hBG (2x)</b>      | <b>27.10.10</b> | <b>19°33.961'</b> | <b>16°48.550'</b> | <b>-14</b> |
| <b>GeoB 14748-9</b>  | MSM 913-9  | MSM16-3 | southern Banc d'Arguin | <b>hBG, hCTD, SD</b> | <b>27.10.10</b> | <b>19°34.165'</b> | <b>16°48.211'</b> | <b>-8</b>  |
| <b>GeoB 14748-10</b> | MSM 913-10 | MSM16-3 | southern Banc d'Arguin | <b>hBG, hCTD, SD</b> | <b>27.10.10</b> | <b>19°34.169'</b> | <b>16°48.218'</b> | <b>-8</b>  |
| <b>GeoB 14748-11</b> | MSM 913-11 | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°33.697'</b> | <b>16°48.022'</b> | <b>-8</b>  |
| <b>GeoB 14748-12</b> | MSM 913-12 | MSM16-3 | southern Banc d'Arguin | <b>hBG, hCTD, SD</b> | <b>27.10.10</b> | <b>19°33.280'</b> | <b>16°47.779'</b> | <b>-12</b> |
| <b>GeoB 14748-13</b> | MSM 913-13 | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°32.810'</b> | <b>16°47.568'</b> | <b>-14</b> |
| <b>GeoB 14748-14</b> | MSM 913-14 | MSM16-3 | southern Banc d'Arguin | <b>hBG, hCTD, SD</b> | <b>27.10.10</b> | <b>19°32.576'</b> | <b>16°48.122'</b> | <b>-15</b> |
| <b>GeoB 14748-15</b> | MSM 913-15 | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°32.358'</b> | <b>16°48.635'</b> | <b>-17</b> |
| <b>GeoB 14748-16</b> | MSM 913-16 | MSM16-3 | southern Banc d'Arguin | <b>hBG, hCTD, SD</b> | <b>27.10.10</b> | <b>19°32.334'</b> | <b>16°49.183'</b> | <b>-20</b> |
| <b>GeoB 14748-17</b> | MSM 913-17 | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°31.809'</b> | <b>16°49.119'</b> | <b>-22</b> |
| <b>GeoB 14748-18</b> | MSM 913-18 | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°31.321'</b> | <b>16°48.974'</b> | <b>-23</b> |
| <b>GeoB 14748-19</b> | MSM 913-19 | MSM16-3 | southern Banc d'Arguin | <b>hBG, hCTD, SD</b> | <b>27.10.10</b> | <b>19°30.852'</b> | <b>16°48.857'</b> | <b>-23</b> |
| <b>GeoB 14748-20</b> | MSM 913-20 | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°30.423'</b> | <b>16°48.588'</b> | <b>-23</b> |
| <b>GeoB 14748-21</b> | MSM 913-21 | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°29.983'</b> | <b>16°48.376'</b> | <b>-23</b> |
| <b>GeoB 14748-22</b> | MSM 913-22 | MSM16-3 | southern Banc d'Arguin | <b>hBG, hCTD, SD</b> | <b>27.10.10</b> | <b>19°30.004'</b> | <b>16°48.939'</b> | <b>-26</b> |
| <b>GeoB 14748-23</b> | MSM 913-23 | MSM16-3 | southern Banc d'Arguin | <b>hBG</b>           | <b>27.10.10</b> | <b>19°30.070'</b> | <b>16°49.456'</b> | <b>-31</b> |
| <b>GeoB 14783</b>    |            |         |                        |                      | <b>31.10.10</b> |                   |                   |            |
| <b>GeoB 14783-1</b>  | MSM 948-1  | MSM16-3 | Baie du Levrier        | <b>hBG, hCTD, SD</b> | <b>31.10.10</b> | <b>20°52.354'</b> | <b>16°59.069'</b> | <b>-12</b> |
| <b>GeoB 14783-2</b>  | MSM 948-2  | MSM16-3 | Baie du Levrier        | <b>hBG</b>           | <b>31.10.10</b> | <b>20°52.262'</b> | <b>16°58.681'</b> | <b>-11</b> |
| <b>GeoB 14783-3</b>  | MSM 948-3  | MSM16-3 | Baie du Levrier        | <b>hBG, hCTD, SD</b> | <b>31.10.10</b> | <b>20°52.162'</b> | <b>16°58.165'</b> | <b>-12</b> |
| <b>GeoB 14783-4</b>  | MSM 948-4  | MSM16-3 | Baie du Levrier        | <b>hBG</b>           | <b>31.10.10</b> | <b>20°52.168'</b> | <b>16°57.466'</b> | <b>-13</b> |
| <b>GeoB 14783-5</b>  | MSM 948-5  | MSM16-3 | Baie du Levrier        | <b>hBG, hCTD, SD</b> | <b>31.10.10</b> | <b>20°52.207'</b> | <b>16°57.288'</b> | <b>-13</b> |
| <b>GeoB 14783-6</b>  | MSM 948-6  | MSM16-3 | Baie du Levrier        | <b>hBG</b>           | <b>31.10.10</b> | <b>20°52.690'</b> | <b>16°57.635'</b> | <b>-12</b> |

|                      |            |         |                 |               |                 |            |            |      |
|----------------------|------------|---------|-----------------|---------------|-----------------|------------|------------|------|
| <b>GeoB 14783-7</b>  | MSM 948-7  | MSM16-3 | Baie du Levrier | hBG, hCTD, SD | 31.10.10        | 20°52.219' | 16°56.752' | -8   |
| <b>GeoB 14783-8</b>  | MSM 948-8  | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°52.286' | 16°56.224' | -11  |
| <b>GeoB 14783-9</b>  | MSM 948-9  | MSM16-3 | Baie du Levrier | hBG, hCTD, SD | 31.10.10        | 20°52.357' | 16°55.684' | -11  |
| <b>GeoB 14783-10</b> | MSM 948-10 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°52.431' | 16°55.180' | -12  |
| <b>GeoB 14783-11</b> | MSM 948-11 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°52.477' | 16°54.647' | -10  |
| <b>GeoB 14783-12</b> | MSM 948-12 | MSM16-3 | Baie du Levrier | hBG, hCTD, SD | 31.10.10        | 20°52.513' | 16°54.101' | -10  |
| <b>GeoB 14783-13</b> | MSM 948-13 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°52.319' | 16°56.482' | -8   |
| <b>GeoB 14783-14</b> | MSM 948-14 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°52.594' | 16°56.539' | -6   |
| <b>GeoB 14783-15</b> | MSM 948-15 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°52.838' | 16°56.590' | -7   |
| <b>GeoB 14783-16</b> | MSM 948-16 | MSM16-3 | Baie du Levrier | hBG, hCTD     | 31.10.10        | 20°53.099' | 16°56.636' | -12  |
| <b>GeoB 14783-17</b> | MSM 948-17 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°53.135' | 16°56.318' | -8   |
| <b>GeoB 14783-18</b> | MSM 948-18 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°53.126' | 16°56.053' | -9   |
| <b>GeoB 14783-19</b> | MSM 948-19 | MSM16-3 | Baie du Levrier | hBG, hCTD, SD | 31.10.10        | 20°52.603' | 16°56.155' | -9   |
| <b>GeoB 14783-20</b> | MSM 948-20 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°52.036' | 16°56.226' | -12  |
| <b>GeoB 14783-21</b> | MSM 948-21 | MSM16-3 | Baie du Levrier | hBG, hCTD     | 31.10.10        | 20°51.957' | 16°56.489' | -8   |
| <b>GeoB 14783-22</b> | MSM 948-22 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°51.950' | 16°56.759' | -10  |
| <b>GeoB 14783-23</b> | MSM 948-23 | MSM16-3 | Baie du Levrier | hBG           | 31.10.10        | 20°51.949' | 16°57.039' | -12  |
| <b>GeoB 14786</b>    |            |         |                 |               | <b>01.11.10</b> |            |            |      |
| <b>GeoB 14786-1</b>  | MSM 952-1  | MSM16-3 | Baie du Levrier | hBG           | 01.11.10        | 20°49.159' | 16°59.102' | -10  |
| <b>GeoB 14786-2</b>  | MSM 952-2  | MSM16-3 | Baie du Levrier | hBG, hCTD, SD | 01.11.10        | 20°48.956' | 16°58.606' | -7   |
| <b>GeoB 14786-3</b>  | MSM 952-3  | MSM16-3 | Baie du Levrier | hBG           | 01.11.10        | 20°48.766' | 16°58.191' | -8   |
| <b>GeoB 14786-4</b>  | MSM 952-4  | MSM16-3 | Baie du Levrier | hBG, hCTD, SD | 01.11.10        | 20°48.497' | 16°57.634' | -7   |
| <b>GeoB 14786-5</b>  | MSM 952-5  | MSM16-3 | Baie du Levrier | hBG           | 01.11.10        | 20°48.424' | 16°57.451' | -6   |
| <b>GeoB 14786-6</b>  | MSM 952-6  | MSM16-3 | Baie du Levrier | hBG, hCTD, SD | 01.11.10        | 20°48.340' | 16°57.333' | -4,5 |
| <b>GeoB 14786-7</b>  | MSM 952-7  | MSM16-3 | Baie du Levrier | hBG           | 01.11.10        | 20°48.269' | 16°57.134' | -9   |

|                      |            |         |                        |               |          |            |            |      |
|----------------------|------------|---------|------------------------|---------------|----------|------------|------------|------|
| <b>GeoB 14786-8</b>  | MSM 952-8  | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°48.181' | 16°56.933' | -8   |
| <b>GeoB 14786-9</b>  | MSM 952-9  | MSM16-3 | Baie du Levrier        | hBG, hCTD, SD | 01.11.10 | 20°48.119' | 16°56.740' | -9   |
| <b>GeoB 14786-10</b> | MSM 952-10 | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°48.065' | 16°56.570' | -11  |
| <b>GeoB 14786-11</b> | MSM 952-11 | MSM16-3 | Baie du Levrier        | hBG, hCTD, SD | 01.11.10 | 20°47.988  | 16°56.379' | -12  |
| <b>GeoB 14786-12</b> | MSM 952-12 | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°47.662' | 16°55.685' | -15  |
| <b>GeoB 14786-13</b> | MSM 952-13 | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°47.472' | 16°55.222' | -13  |
| <b>GeoB 14786-14</b> | MSM 952-14 | MSM16-3 | Baie du Levrier        | hBG, hCTD, SD | 01.11.10 | 20°47.309' | 16°54.737' | -10  |
| <b>GeoB 14786-15</b> | MSM 952-15 | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°47.004' | 16°55.004' | -10  |
| <b>GeoB 14786-16</b> | MSM 952-16 | MSM16-3 | Baie du Levrier        | hBG, hCTD, SD | 01.11.10 | 20°47.035' | 16°55.633' | -13  |
| <b>GeoB 14786-17</b> | MSM 952-17 | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°47.050' | 16°56.189' | -16  |
| <b>GeoB 14786-18</b> | MSM 952-18 | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°47.055' | 16°56.604' | -10  |
| <b>GeoB 14786-19</b> | MSM 952-19 | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°46.946' | 16°56.417' | -11  |
| <b>GeoB 14786-20</b> | MSM 952-20 | MSM16-3 | Baie du Levrier        | hBG, hCTD, SD | 01.11.10 | 20°47.637' | 16°57.562' | -7   |
| <b>GeoB 14786-21</b> | MSM 952-21 | MSM16-3 | Baie du Levrier        | hBG           | 01.11.10 | 20°48.443' | 16°58.362' | -8   |
| <b>GeoB 14786-22</b> | MSM 952-22 | MSM16-3 | Baie du Levrier        | hBG, hCTD, SD | 01.11.10 | 20°48.952' | 16°59.082' | -10  |
| <b>GeoB 14812</b>    |            |         |                        |               | 01.11.10 |            |            |      |
| <b>GeoB 14812-1</b>  | MSM 978-1  | MSM16-3 | southern Banc d'Arguin | hBG, hCTD, SD | 04.11.10 | 19°42.728' | 16°57.082' | -38  |
| <b>GeoB 14812-2</b>  | MSM 978-2  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°43.135' | 16°56.741' | -28  |
| <b>GeoB 14812-3</b>  | MSM 978-3  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°43.535' | 16°56.405' | -23  |
| <b>GeoB 14812-4</b>  | MSM 978-4  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°43.930' | 16°56.092' | -16  |
| <b>GeoB 14812-5</b>  | MSM 978-5  | MSM16-3 | southern Banc d'Arguin | hBG, hCTD, SD | 04.11.10 | 19°44.233' | 16°55.877' | -4,5 |
| <b>GeoB 14812-6</b>  | MSM 978-6  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°44.674' | 16°55.595' | -5   |
| <b>GeoB 14812-7</b>  | MSM 978-7  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°45.071' | 16°55.259' | -7   |
| <b>GeoB 14812-8</b>  | MSM 978-8  | MSM16-3 | southern Banc d'Arguin | hBG, hCTD, SD | 04.11.10 | 19°45.475' | 16°54.934' | -5   |
| <b>GeoB 14812-9</b>  | MSM 978-9  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°45.864' | 16°54.610' | -7   |



|               |             |         |                        |               |          |            |            |     |
|---------------|-------------|---------|------------------------|---------------|----------|------------|------------|-----|
| GeoB 14812-10 | MSM 978-10  | MSM16-3 | southern Banc d'Arguin | hBG, hCTD, SD | 04.11.10 | 19°46.288' | 16°54.319' | -6  |
| GeoB 14812-11 | MSM 978-11  | MSM16-3 | southern Banc d'Arguin | hBG, hCTD, SD | 04.11.10 | 19°45.061' | 16°55.276' | -6  |
| GeoB 14812-12 | MSM 978-12  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°43.379' | 16°55.413' | -6  |
| GeoB 14812-13 | MSM 978-13  | MSM16-3 | southern Banc d'Arguin | hBG, hCTD, SD | 04.11.10 | 19°43.120' | 16°55.434' | -5  |
| GeoB 14812-14 | MSM 978-14  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°43.155' | 16°55.655' | -6  |
| GeoB 14812-15 | MSM 978-15  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°42.958' | 16°55.651' | -8  |
| GeoB 14812-16 | MSM 978-16  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°42.796' | 16°55.791' | -18 |
| GeoB 14812-17 | MSM 978-17  | MSM16-3 | southern Banc d'Arguin | hBG, hCTD, SD | 04.11.10 | 19°42.894' | 16°55.720' | -12 |
| GeoB 14812-18 | MSM 978-18  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°42.838' | 16°55.751' | -12 |
| GeoB 14812-19 | MSM 978-19  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°42.832' | 16°55.765' | -14 |
| GeoB 14812-20 | MSM 978-20  | MSM16-3 | southern Banc d'Arguin | hBG           | 04.11.10 | 19°42.818' | 16°55.784' | -16 |
| GeoB 14833    |             |         |                        |               | 05.11.10 |            |            |     |
| GeoB 14833-1  | MSM 1001-1  | MSM16-3 | central Banc d'Arguin  | hBG, hCTD, SD | 05.11.10 | 20°10.288' | 17°21.901' | -30 |
| GeoB 14833-2  | MSM 1001-2  | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°10.366' | 17°21.370' | -26 |
| GeoB 14833-3  | MSM 1001-3  | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°10.365' | 17°20.800' | -20 |
| GeoB 14833-4  | MSM 1001-4  | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°10.372' | 17°20.247' | -26 |
| GeoB 14833-5  | MSM 1001-5  | MSM16-3 | central Banc d'Arguin  | hBG, hCTD, SD | 05.11.10 | 20°10.433' | 17°19.729' | -26 |
| GeoB 14833-6  | MSM 1001-6  | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°10.507' | 17°19.226' | -28 |
| GeoB 14833-7  | MSM 1001-7  | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°09.998' | 17°19.240' | -22 |
| GeoB 14833-8  | MSM 1001-8  | MSM16-3 | central Banc d'Arguin  | hBG, hCTD, SD | 05.11.10 | 20°09.460' | 17°19.267' | -24 |
| GeoB 14833-9  | MSM 1001-9  | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°09.391' | 17°19.517' | -26 |
| GeoB 14833-10 | MSM 1001-10 | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°09.410' | 17°19.787' | -23 |
| GeoB 14833-11 | MSM 1001-11 | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°09.428' | 17°20.065' | -23 |
| GeoB 14833-12 | MSM 1001-12 | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°09.452' | 17°20.338' | -24 |
| GeoB 14833-13 | MSM 1001-13 | MSM16-3 | central Banc d'Arguin  | hBG           | 05.11.10 | 20°09.349' | 17°20.751' | -20 |

|               |             |         |                       |               |          |            |            |       |
|---------------|-------------|---------|-----------------------|---------------|----------|------------|------------|-------|
| GeoB 14833-14 | MSM 1001-14 | MSM16-3 | central Banc d'Arguin | hBG, hCTD, SD | 05.11.10 | 20°09.321' | 17°21.040' | -23   |
| GeoB 14833-15 | MSM 1001-15 | MSM16-3 | central Banc d'Arguin | hBG           | 05.11.10 | 20°08.863' | 17°20.746' | -22   |
| GeoB 14833-16 | MSM 1001-16 | MSM16-3 | central Banc d'Arguin | hBG           | 05.11.10 | 20°08.385' | 17°20.747' | -21   |
| GeoB 14833-17 | MSM 1001-17 | MSM16-3 | central Banc d'Arguin | hBG           | 05.11.10 | 20°07.906' | 17°20.740' | -23   |
| GeoB 14833-18 | MSM 1001-18 | MSM16-3 | central Banc d'Arguin | hBG           | 05.11.10 | 20°07.626' | 17°20.459' | -27   |
| GeoB 14833-19 | MSM 1001-19 | MSM16-3 | central Banc d'Arguin | hBG           | 05.11.10 | 20°07.634' | 17°19.922' | -21   |
| GeoB 14833-20 | MSM 1001-20 | MSM16-3 | central Banc d'Arguin | hBG           | 05.11.10 | 20°07.626' | 17°19.369' | -22   |
| GeoB 14833-21 | MSM 1001-21 | MSM16-3 | central Banc d'Arguin | hBG, hCTD, SD | 05.11.10 | 20°07.612' | 17°18.878' | -22,5 |
| GeoB 14833-22 | MSM 1001-22 | MSM16-3 | central Banc d'Arguin | hBG           | 05.11.10 | 20°07.901' | 17°21.310' | -29   |

## ROV

| LabelEvent    | Optional LabelEvent | Campaign | Area                                    | Device       | Date     | Time start | Time end | Latitude start | Longitude start | Water depth start (m) | Latitude end | Longitude end | Water depth end (m) |
|---------------|---------------------|----------|-----------------------------------------|--------------|----------|------------|----------|----------------|-----------------|-----------------------|--------------|---------------|---------------------|
| GeoB 14759-1  | MSM 924-1           | MSM16-3  | southern canyon area W of Banc d'Arguin | ROV          | 28.10.10 | 10:56      | 15:10    | 19°44.045'     | 17°08.726'      | -546                  | 19°44.27'    | 17°08.83'     |                     |
| GeoB 14779-1  | MSM 944-1           | MSM16-3  | Canyon area W of Cap Timirs             | ROV          | 30.10.10 | 14:03      | 19:58    | 19°10.778'     | 16°48.351'      | -618                  | 19°10.592'   | 16°48.288'    | -449                |
| GeoB 14779-2  |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 14:25      |          | 19°10.777'     | 16°48.352'      | -618                  |              |               |                     |
| GeoB 14779-3  |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 14:27      |          | 19°10.777'     | 16°48.352'      | -618                  |              |               |                     |
| GeoB 14779-4  |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 14:29      |          | 19°10.777'     | 16°48.352'      | -618                  |              |               |                     |
| GeoB 14779-5  |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 14:54      |          | 19°10.777'     | 16°48.354'      | -617                  |              |               |                     |
| GeoB 14779-6  |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 15:52      |          | 19°10.765'     | 16°48.354'      | -601                  |              |               |                     |
| GeoB 14779-7  |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 18:08      |          | 19°10.638'     | 16°48.320'      | -526                  |              |               |                     |
| GeoB 14779-8  |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 18:17      |          | 19°10.638'     | 16°48.318'      | -526                  |              |               |                     |
| GeoB 14779-9  |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 18:48      |          | 19°10.635'     | 16°48.327'      | -513                  |              |               |                     |
| GeoB 14779-10 |                     | MSM16-3  |                                         | ROV sampling | 30.10.10 | 19:06      |          | 19°10.617'     | 16°48.316'      | -502                  |              |               |                     |
| GeoB 14796-1  | MSM 962-1           | MSM16-3  | northern canyon area W of Banc d'Arguin | ROV          | 03.11.10 | 11:03      | 15:29    | 20°14.840'     | 17°40.193'      | -642                  | 20°14.575'   | 17°40.071'    | -487                |
| GeoB 14796-2  |                     | MSM16-3  |                                         | ROV sampling | 03.11.10 | 11:35      |          | 20°14.826'     | 17°40.181'      | -620                  |              |               |                     |

|               |            |         |                                |              |          |       |       |            |            |      |            |            |      |
|---------------|------------|---------|--------------------------------|--------------|----------|-------|-------|------------|------------|------|------------|------------|------|
| GeoB 14796-3  |            | MSM16-3 |                                | ROV sampling | 03.11.10 | 11:36 |       | 20°14.826' | 17°40.181' | -620 |            |            |      |
| GeoB 14796-4  |            | MSM16-3 |                                | ROV sampling | 03.11.10 | 11:48 |       | 20°14.827' | 17°40.182' | -617 |            |            |      |
| GeoB 14796-5  |            | MSM16-3 |                                | ROV sampling | 03.11.10 | 11:59 |       | 20°14.823' | 17°40.178' | -613 |            |            |      |
| GeoB 14796-6  |            | MSM16-3 |                                | ROV sampling | 03.11.10 | 13:04 |       | 20°14.796' | 17°40.166' | -573 |            |            |      |
| GeoB 14796-7  |            | MSM16-3 |                                | ROV sampling | 03.11.10 | 14:51 |       | 20°14.585' | 17°40.109' | -500 |            |            |      |
| GeoB 14871-1  | MSM 1039-1 | MSM16-3 | Canyon area W of Cap Timiris   | ROV          | 09.11.10 | 14:00 | 15:58 | 19°08.344' | 16°45.874' | -588 | 19°08.361' | 16°45.819' | -518 |
| GeoB 14871-3  |            |         |                                | ROV sampling | 09.11.10 | 14:08 |       | 19°08.349' | 16°45.827' | -551 |            |            |      |
| GeoB 14871-4  |            |         |                                | ROV sampling | 09.11.10 | 14:50 |       | 19°08.350' | 16°45.821' | -542 |            |            |      |
| GeoB 14871-5  |            |         |                                | ROV sampling | 09.11.10 | 14:53 |       | 19°08.350' | 16°45.821' | -542 |            |            |      |
| GeoB 14871-6  |            |         |                                | ROV sampling | 09.11.10 | 15:06 |       | 19°08.351' | 16°45.818' | -540 |            |            |      |
| GeoB 14871-7  |            |         |                                | ROV sampling | 09.11.10 | 15:08 |       | 19°08.351' | 16°45.818' | -540 |            |            |      |
| GeoB 14871-10 |            |         |                                | ROV sampling | 09.11.10 | 15:47 |       | 19°08.3??' | 16°45.8??' | -523 |            |            |      |
| GeoB 14871-2  | MSM 1039-2 | MSM16-3 | Canyon area W of Cap Timiris   | ROV          | 09.11.10 | 17:37 | 21:10 | 19°08.344' | 16°45.849' | -566 | 19°08.235' | 16°45.664' | -427 |
| GeoB 14871-11 |            |         |                                | ROV sampling | 09.11.10 | 18:33 |       | 19°08.301' | 16°45.804' | -524 |            |            |      |
| GeoB 14871-12 |            |         |                                | ROV sampling | 09.11.10 | 18:46 |       | 19°08.354' | 16°45.794' | -516 |            |            |      |
| GeoB 14871-13 |            |         |                                | ROV sampling | 09.11.10 | 19:01 |       | 19°08.354' | 16°45.781' | -504 |            |            |      |
| GeoB 14871-14 |            |         |                                | ROV sampling | 09.11.10 | 20:33 |       | 19°08.303' | 16°45.710' | -476 |            |            |      |
| GeoB 14871-15 |            |         |                                | ROV sampling | 09.11.10 | 20:39 |       | 19°08.235' | 16°40.664' | -475 |            |            |      |
| GeoB 14871-8  |            |         |                                | ROV sampling | 09.11.10 | 15:?? |       | 19°08.352' | 16°45.815' | -535 |            |            |      |
| GeoB 14871-9  |            |         |                                | ROV sampling | 09.11.10 | 15:?? |       | 19°08.352' | 16°45.815' | -535 |            |            |      |
| GeoB 14873-1  | MSM 1041-1 | MSM16-3 | Timiris deep coral mound chain | ROV          | 10.11.10 | 10:07 | 13:47 | 18°57.675' | 16°52.287' | -602 | 18°57.876' | 16°52.018' |      |
| GeoB 14873-2  |            |         |                                | ROV sampling | 10.11.10 | 10:31 |       | 18°57.725' | 16°52.264' | -574 |            |            |      |
| GeoB 14873-3  |            |         |                                | ROV sampling | 10.11.10 | 10:49 |       | 18°57.736' | 16°52.244' | -557 |            |            |      |
| GeoB 14873-4  |            |         |                                | ROV sampling | 10.11.10 | 11:36 |       | 18°57.758' | 16°52.177' | -498 |            |            |      |
| GeoB 14873-5  |            |         |                                | ROV sampling | 10.11.10 | 11:48 |       | 18°57.765' | 16°52.151' | -485 |            |            |      |

|               |            |         |                                           |              |          |       |       |            |            |      |            |            |      |
|---------------|------------|---------|-------------------------------------------|--------------|----------|-------|-------|------------|------------|------|------------|------------|------|
| GeoB 14874-1  | MSM 1041-2 | MSM16-3 | Timiris shallow coral mound chain         | ROV          | 10.11.10 | 15:29 | 18:23 | 18°58.005' | 16°51.253' | -520 | 18°57.607' | 16°51.064' | -427 |
| GeoB 14874-2  |            |         |                                           | ROV sampling | 10.11.10 | 15:51 |       | 18°57.942' | 16°51.227' | -525 |            |            |      |
| GeoB 14874-3  |            |         |                                           | ROV sampling | 10.11.10 | 16:01 |       | 18°57.942' | 16°51.217' | -520 |            |            |      |
| GeoB 14874-4  |            |         |                                           | ROV sampling | 10.11.10 | 16:05 |       | 18°57.923' | 16°51.218  | -520 |            |            |      |
| GeoB 14874-5  |            |         |                                           | ROV sampling | 10.11.10 | 16:25 |       | 18°57.896' | 16°51.197' | -493 |            |            |      |
| GeoB 14874-6  |            |         |                                           | ROV sampling | 10.11.10 | 16:31 |       | 18°57.886' | 16°51.175' | -484 |            |            |      |
| GeoB 14874-7  |            |         |                                           | ROV sampling | 10.11.10 | 16:45 |       | 18°57.843' | 16°51.157' | -446 |            |            |      |
| GeoB 14874-8  |            |         |                                           | ROV sampling | 10.11.10 | 16:54 |       | 18°57.841' | 16°51.145' | -445 |            |            |      |
| GeoB 14874-9  |            |         |                                           | ROV sampling | 10.11.10 | 17:04 |       | 18°57.840' | 16°51.155' | -446 |            |            |      |
| GeoB 14874-10 |            |         |                                           | ROV sampling | 10.11.10 | 17:13 |       | 18°57.881' | 16°51.186' | -438 |            |            |      |
| GeoB 14886-1  | MSM 1053-1 | MSM16-3 | Canyon S of Timiris mound chain (N-flank) | ROV          | 12.11.10 | 13:18 | 19:10 | 18°39.013' | 16°43.580' | -640 | 18°38.476' | 16°43.757' | -484 |
| GeoB 14886-2  |            |         |                                           | ROV sampling | 12.11.10 | 13:36 |       | 18°39.003' | 16°43.589' | -620 |            |            |      |
| GeoB 14886-3  |            |         |                                           | ROV sampling | 12.11.10 | 13:37 |       | 18°39.003' | 16°43.589' | -620 |            |            |      |
| GeoB 14886-4  |            |         |                                           | ROV sampling | 12.11.10 | 13:43 |       | 18°39.003' | 16°43.589' | -618 |            |            |      |
| GeoB 14886-5  |            |         |                                           | ROV sampling | 12.11.10 | 14:06 |       | 18°38.938' | 16°43.659' | -597 |            |            |      |
| GeoB 14886-6  |            |         |                                           | ROV sampling | 12.11.10 | 14:53 |       | 18°38.968' | 16°43.639' | -583 |            |            |      |
| GeoB 14886-7  |            |         |                                           | ROV sampling | 12.11.10 | 16:19 |       | 18°38.827' | 16°43.707' | -550 |            |            |      |
| GeoB 14886-8  |            |         |                                           | ROV sampling | 12.11.10 | 16:37 |       | 18°38.786' | 16°43.713' | -546 |            |            |      |
| GeoB 14886-9  |            |         |                                           | ROV sampling | 12.11.10 | 18:14 |       | 18°38.516' | 16°43.730' | -498 |            |            |      |
| GeoB 14891-1  | MSM 1058-1 | MSM16-3 | Canyon S of Timiris mound chain (S-flank) | ROV          | 13.11.10 | 12:50 | 14:10 | 18°39.850' | 16°43.428' | -592 | 18°39.947' | 16°43.485' | -474 |
| GeoB 14891-2  |            |         |                                           | ROV sampling | 13.11.10 | 13:10 |       | 18°39.880' | 16°43.446' | -559 |            |            |      |
| GeoB 14891-3  |            |         |                                           | ROV sampling | 13.11.10 | 13:40 |       | 18°39.928' | 16°43.485' | -502 |            |            |      |
| GeoB 14891-4  |            |         |                                           | ROV sampling | 13.11.10 | 13:51 |       | 18°39.934' | 16°43.488' | -504 |            |            |      |
| GeoB 14902-1  | MSM 1068-1 | MSM16-3 | Banda slide                               | ROV          | 15.11.10 | 13:22 | 19:42 | 17°32.4??  | 16°40.1??  | -580 | 17°32.858' | 16°39.684' | -396 |
| GeoB 14902-2  |            |         |                                           | ROV sampling | 15.11.10 | 13:54 |       | 17°32.473' | 16°40.095' | -558 |            |            |      |

|               |            |         |                          |              |          |       |       |            |            |      |            |            |      |
|---------------|------------|---------|--------------------------|--------------|----------|-------|-------|------------|------------|------|------------|------------|------|
| GeoB 14902-3  |            |         |                          | ROV sampling | 15.11.10 | 14:27 |       | 17°32.450' | 16°40.051' | -505 |            |            |      |
| GeoB 14902-4  |            |         |                          | ROV sampling | 15.11.10 | 14:40 |       | 17°32.450' | 16°40.051' | -505 |            |            |      |
| GeoB 14902-5  |            |         |                          | ROV sampling | 15.11.10 | 15:10 |       | 17°32.444' | 16°40.018' | -471 |            |            |      |
| GeoB 14902-6  |            |         |                          | ROV sampling | 15.11.10 | 16:10 |       | 17°32.518' | 16°39.954' | -495 |            |            |      |
| GeoB 14902-7  |            |         |                          | ROV sampling | 15.11.10 | 16:39 |       | 17°32.550' | 16°39.898' | -501 |            |            |      |
| GeoB 14902-8  |            |         |                          | ROV sampling | 15.11.10 | 18:32 |       | 17°32.743' | 16°39.754' | -469 |            |            |      |
| GeoB 14902-9  |            |         |                          | ROV sampling | 15.11.10 | 19:22 |       | 17°32.848' | 16°39.703' | -407 |            |            |      |
| GeoB 14908-1  | MSM 1074-1 | MSM16-3 | Banda mounds             | ROV          | 16.11.10 | 09:17 | 13:00 | 17°40.213' | 16°40.829' | -574 | 17°40.191' | 16°40.289' | -463 |
| GeoB 14908-2  |            |         |                          | ROV sampling | 16.11.10 | 09:?? |       | 17°40.210' | 16°40.808' | -551 |            |            |      |
| GeoB 14908-3  |            |         |                          | ROV sampling | 16.11.10 | 10:09 |       | 17°40.171' | 16°40.722' | -522 |            |            |      |
| GeoB 14908-4  |            |         |                          | ROV sampling | 16.11.10 | 10:54 |       | 17°40.165' | 16°40.646' | -523 |            |            |      |
| GeoB 14908-5  |            |         |                          | ROV sampling | 16.11.10 | 11:39 |       | 17°40.170' | 16°40.506' | -498 |            |            |      |
| GeoB 14908-6  |            |         |                          | ROV sampling | 16.11.10 | 11:40 |       | 17°40.160' | 16°40.504' | -498 |            |            |      |
| GeoB 14914-1  | MSM 1080-1 | MSM16-3 | southernmost mound chain | ROV          | 17.11.10 | 09:03 | 15:59 | 17°08.203' | 16°49.478' | -514 | 17°07.898' | 16°48.878' | -417 |
| GeoB 14914-2  |            |         |                          | ROV sampling | 17.11.10 | 09:10 |       | 17°08.194' | 16°49.466' | -513 |            |            |      |
| GeoB 14914-3  |            |         |                          | ROV sampling | 17.11.10 | 09:19 |       | 17°08.196' | 16°49.466' | -512 |            |            |      |
| GeoB 14914-4  |            |         |                          | ROV sampling | 17.11.10 | 09:34 |       | 17°08.215' | 16°49.442' | -492 |            |            |      |
| GeoB 14914-5  |            |         |                          | ROV sampling | 17.11.10 | 09:51 |       | 17°08.218' | 16°49.434' | -484 |            |            |      |
| GeoB 14914-6  |            |         |                          | ROV sampling | 17.11.10 | 11:14 |       | 17°08.126' | 16°49.294' | -429 |            |            |      |
| GeoB 14914-7  |            |         |                          | ROV sampling | 17.11.10 | 11:26 |       | 17°08.123' | 16°49.293' | -428 |            |            |      |
| GeoB 14914-8  |            |         |                          | ROV sampling | 17.11.10 | 12:15 |       | 17°08.123' | 16°49.290' | -420 |            |            |      |
| GeoB 14914-9  |            |         |                          | ROV sampling | 17.11.10 | 12:49 |       | 17°08.118' | 16°49.280' | -429 |            |            |      |
| GeoB 14914-10 |            |         |                          | ROV sampling | 17.11.10 | 13:33 |       | 17°08.075' | 16°49.110' | -451 |            |            |      |
| GeoB 14914-11 |            |         |                          | ROV sampling | 17.11.10 | 14:?? |       | 17°08.096' | 16°48.949' | -417 |            |            |      |
| GeoB 14914-12 |            |         |                          | ROV sampling | 17.11.10 | 15:32 |       | 17°07.933' | 16°48.958' | -410 |            |            |      |

## Van Veen grab samples

| GeoB station | MSM station | Campaign | Area                   | Device | Consec.<br>Number of<br>samples | Date     | Time  | Latitude   | Longitude  | Water depth<br>(m) | Recovery |
|--------------|-------------|----------|------------------------|--------|---------------------------------|----------|-------|------------|------------|--------------------|----------|
| GeoB 14726-1 | MSM 890-2   | MSM16-3  | southern Banc d'Arguin | BG     | 1                               | 26.10.10 | 12:06 | 19°42.344' | 16°56.878' | -33                | /        |
| GeoB 14726-2 | MSM 890-2   | MSM16-3  | southern Banc d'Arguin | BG     | 2                               | 26.10.10 | 12:09 | 19°42.344' | 16°56.876' | -33                | bulk     |
| GeoB 14727-1 | MSM 892-1   | MSM16-3  | southern Banc d'Arguin | BG     | 3                               | 26.10.10 | 13:06 | 19°42.435' | 16°56.740' | -30                | bulk     |
| GeoB 14728-1 | MSM 893-1   | MSM16-3  | southern Banc d'Arguin | BG     | 4                               | 26.10.10 | 13:22 | 19°42.655' | 16°56.723' | -22                | bulk     |
| GeoB 14729-1 | MSM 894-1   | MSM16-3  | southern Banc d'Arguin | BG     | 5                               | 26.10.10 | 13:41 | 19°42.895' | 16°56.718' | -26                | bulk     |
| GeoB 14730-1 | MSM 895-1   | MSM16-3  | southern Banc d'Arguin | BG     | 6                               | 26.10.10 | 14:12 | 19°43.003' | 16°57.347' | -30                | bulk     |
| GeoB 14731-1 | MSM 896-1   | MSM16-3  | southern Banc d'Arguin | BG     | 7                               | 26.10.10 | 14:30 | 19°42.703' | 16°57.145' | -31                | bulk     |
| GeoB 14732-1 | MSM 897-1   | MSM16-3  | southern Banc d'Arguin | BG     | 8                               | 26.10.10 | 14:46 | 19°42.445' | 16°56.889' | -32                | bulk     |
| GeoB 14733-1 | MSM 898-1   | MSM16-3  | southern Banc d'Arguin | BG     | 9                               | 26.10.10 | 15:03 | 19°42.156' | 16°56.634' | -32                | bulk     |
| GeoB 14734-1 | MSM 899-1   | MSM16-3  | southern Banc d'Arguin | BG     | 10                              | 26.10.10 | 15:16 | 19°41.876' | 16°56.487' | -32                | /        |
| GeoB 14734-2 | MSM 899-2   | MSM16-3  | southern Banc d'Arguin | BG     | 11                              | 26.10.10 | 15:20 | 19°41.873' | 16°56.488' | -32                | bulk     |
| GeoB 14735-1 | MSM 900-1   | MSM16-3  | southern Banc d'Arguin | BG     | 12                              | 26.10.10 | 15:36 | 19°41.639' | 16°56.237' | -31                | bulk     |
| GeoB 14736-1 | MSM 901-1   | MSM16-3  | southern Banc d'Arguin | BG     | 13                              | 26.10.10 | 15:54 | 19°41.397' | 16°55.98'  | -29                | bulk     |
| GeoB 14737-1 | MSM 902-1   | MSM16-3  | southern Banc d'Arguin | BG     | 14                              | 26.10.10 | 16:13 | 19°41.082' | 16°55.713' | -28                | bulk     |
| GeoB 14738-2 | MSM 903-1   | MSM16-3  | southern Banc d'Arguin | BG     | 15                              | 26.10.10 | 16:32 | 19°40.770' | 16°55.575' | -28                | bulk     |
| GeoB 14745-1 | MSM 910-1   | MSM16-3  | southern Banc d'Arguin | BG     | 16                              | 27.10.10 | 09:28 | 19°32.946' | 16°50.576' | -24                | bulk     |
| GeoB 14746-1 | MSM 911-1   | MSM16-3  | southern Banc d'Arguin | BG     | 17                              | 27.10.10 | 10:03 | 19°33.178' | 16°50.789' | -26                | bulk     |
| GeoB 14747-1 | MSM 912-1   | MSM16-3  | southern Banc d'Arguin | BG     | 18                              | 27.10.10 | 10:51 | 19°33.424' | 16°50.982' | -27                | bulk     |
| GeoB 14749-1 | MSM 914-1   | MSM16-3  | southern Banc d'Arguin | BG     | 19                              | 27.10.10 | 13:23 | 19°32.353' | 16°50.384' | -25                | bulk     |
| GeoB 14750-1 | MSM 915-1   | MSM16-3  | southern Banc d'Arguin | BG     | 20                              | 27.10.10 | 13:40 | 19°32.024' | 16°50.348' | -25                | bulk     |
| GeoB 14752-1 | MSM 917-1   | MSM16-3  | southern Banc d'Arguin | BG     | 21                              | 27.10.10 | 14:51 | 19°31.328' | 16°50.355' | -29                | bulk     |
| GeoB 14753-1 | MSM 918-1   | MSM16-3  | southern Banc d'Arguin | BG     | 22                              | 27.10.10 | 15:11 | 19°31.017' | 16°50.159' | -29                | bulk     |

|                     |           |         |                                                   |           |    |          |       |            |            |      |      |
|---------------------|-----------|---------|---------------------------------------------------|-----------|----|----------|-------|------------|------------|------|------|
| <b>GeoB 14754-1</b> | MSM 919-1 | MSM16-3 | southern Banc d'Arguin                            | <b>BG</b> | 23 | 27.10.10 | 15:35 | 19°30.715' | 16°50.017' | -27  | bulk |
| <b>GeoB 14755-1</b> | MSM 920-1 | MSM16-3 | southern Banc d'Arguin                            | <b>BG</b> | 24 | 27.10.10 | 15:56 | 19°30.399' | 16°49.844' | -27  | bulk |
| <b>GeoB 14756-1</b> | MSM 921-1 | MSM16-3 | southern Banc d'Arguin                            | <b>BG</b> | 25 | 27.10.10 | 16:19 | 19°30.094' | 16°49.738' | -26  | bulk |
| <b>GeoB 14765-1</b> | MSM 930-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 26 | 29.10.10 | 09:47 | 19°07.230' | 16°34.530' | -53  | bulk |
| <b>GeoB 14765-2</b> | MSM 931-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 27 | 29.10.10 | 10:59 | 19°07.230' | 16°34.530' | -60  | bulk |
| <b>GeoB 14766-1</b> | MSM 932-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 28 | 29.10.10 | 11:38 | 19°09.201' | 16°36.912' | -71  | bulk |
| <b>GeoB 14767-1</b> | MSM 933-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 29 | 29.10.10 | 12:14 | 19°12.001' | 16°37.733' | -75  | bulk |
| <b>GeoB 14768-1</b> | MSM 934-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 30 | 29.10.10 | 12:48 | 19°14.290' | 16°39.211' | -66  | bulk |
| <b>GeoB 14769-1</b> | MSM 935-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 31 | 29.10.10 | 13:09 | 19°14.536' | 16°40.127' | -41  | bulk |
| <b>GeoB 14769-2</b> | MSM 935-2 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 32 | 29.10.10 | 13:12 | 19°14.535' | 16°40.127' | -43  | bulk |
| <b>GeoB 14770-1</b> | MSM 936-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 33 | 29.10.10 | 13:34 | 19°14.693' | 16°40.656' | -70  | bulk |
| <b>GeoB 14771-1</b> | MSM 937-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 34 | 29.10.10 | 14:09 | 19°16.684' | 16°42.431' | -44  | bulk |
| <b>GeoB 14772-1</b> | MSM 938-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 35 | 29.10.10 | 14:41 | 19°18.189' | 16°45.257' | -41  | bulk |
| <b>GeoB 14773-1</b> | MSM 939-1 | MSM16-3 | Cap Timiris shelf                                 | <b>BG</b> | 36 | 29.10.10 | 15:14 | 19°20.733' | 16°46.847' | -33  | bulk |
| <b>GeoB 14780-1</b> | MSM 945-1 | MSM16-3 | Baie du Levrier                                   | <b>BG</b> | 37 | 31.10.10 | 10:12 | 20°49.015' | 17°01.113' | -13  | /    |
| <b>GeoB 14780-2</b> | MSM 945-2 | MSM16-3 | Baie du Levrier                                   | <b>BG</b> | 38 | 31.10.10 | 10:14 | 20°49.015' | 17°01.113' | -13  | bulk |
| <b>GeoB 14782-1</b> | MSM 947-1 | MSM16-3 | Baie du Levrier                                   | <b>BG</b> | 39 | 31.10.10 | 12:14 | 20°52.810' | 16°58.533' | -16  | bulk |
| <b>GeoB 14782-5</b> | MSM 949-3 | MSM16-3 | Baie du Levrier                                   | <b>BG</b> | 40 | 31.10.10 | 15:54 | 20°52.807' | 16°59.530' | -15  | bulk |
| <b>GeoB 14785-1</b> | MSM 951-1 | MSM16-3 | Baie du Levrier                                   | <b>BG</b> | 41 | 01.11.10 | 09:13 | 20°49.44'  | 16°59.63'  | -14  | bulk |
| <b>GeoB 14785-4</b> | MSM 951-4 | MSM16-3 | Baie du Levrier                                   | <b>BG</b> | 42 | 01.11.10 | 12:46 | 20°49.428' | 16°59.616' | -14  | bulk |
| <b>GeoB 14800-1</b> | MSM 966-1 | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>BG</b> | 43 | 03.11.10 | 21:21 | 20°14.748' | 17°40.187' | -560 | bulk |
| <b>GeoB 14801-1</b> | MSM 967-1 | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>BG</b> | 44 | 03.11.10 | 21:59 | 20°14.762' | 17°40.173' | -568 | bulk |
| <b>GeoB 14802-1</b> | MSM 968-1 | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>BG</b> | 45 | 03.11.10 | 22:33 | 20°14.791' | 17°40.188' | -595 | bulk |
| <b>GeoB 14806-1</b> | MSM 972-1 | MSM16-3 | southern Banc d'Arguin                            | <b>BG</b> | 46 | 04.11.10 | 08:45 | 19°42.740' | 16°57.128' | -37  | bulk |
| <b>GeoB 14807-1</b> | MSM 973-1 | MSM16-3 | southern Banc d'Arguin                            | <b>BG</b> | 47 | 04.11.10 | 09:19 | 19°43.02'  | 16°57.16'  | -33  | bulk |

|                     |            |         |                        |           |    |          |       |            |            |     |      |
|---------------------|------------|---------|------------------------|-----------|----|----------|-------|------------|------------|-----|------|
| <b>GeoB 14808-1</b> | MSM 974-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 48 | 04.11.10 | 09:57 | 19°43.10'  | 16°57.47'  | -35 | bulk |
| <b>GeoB 14809-1</b> | MSM 975-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 49 | 04.11.10 | 10:26 | 19°43.154' | 16°57.784' | -38 | bulk |
| <b>GeoB 14810-1</b> | MSM 976-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 50 | 04.11.10 | 10:50 | 19°43.242' | 16°58.087' | -38 | bulk |
| <b>GeoB 14811-1</b> | MSM 977-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 51 | 04.11.10 | 11:13 | 19°43.286' | 16°58.348' | -41 | bulk |
| <b>GeoB 14813-1</b> | MSM 979-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 52 | 04.11.10 | 12:59 | 19°42.605' | 16°56.850' | -36 | bulk |
| <b>GeoB 14814-1</b> | MSM 980-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 53 | 04.11.10 | 13:17 | 19°42.321' | 16°56.698' | -36 | bulk |
| <b>GeoB 14815-1</b> | MSM 981-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 54 | 04.11.10 | 13:39 | 19°41.947' | 16°56.609' | -39 | bulk |
| <b>GeoB 14816-1</b> | MSM 982-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 55 | 04.11.10 | 13:59 | 19°41.837' | 16°56.309' | -36 | bulk |
| <b>GeoB 14817-1</b> | MSM 983-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 56 | 04.11.10 | 14:20 | 19°41.647' | 16°56.114' | -35 | bulk |
| <b>GeoB 14818-1</b> | MSM 984-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 57 | 04.11.10 | 14:38 | 19°41.506' | 16°55.828' | -32 | bulk |
| <b>GeoB 14819-1</b> | MSM 985-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 58 | 04.11.10 | 14:59 | 19°41.235' | 16°55.588' | -30 | bulk |
| <b>GeoB 14820-1</b> | MSM 986-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 59 | 04.11.10 | 15:28 | 19°40.947' | 16°55.362' | -30 | bulk |
| <b>GeoB 14821-1</b> | MSM 987-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 60 | 04.11.10 | 15:48 | 19°40.655' | 16°55.157' | -29 | bulk |
| <b>GeoB 14822-1</b> | MSM 988-1  | MSM16-3 | southern Banc d'Arguin | <b>BG</b> | 61 | 04.11.10 | 16:07 | 19°40.305' | 16°55.058' | -30 | bulk |
| <b>GeoB 14826-1</b> | MSM 994-1  | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 62 | 05.11.10 | 08:58 | 20°10.076' | 17°22.467' | -32 | bulk |
| <b>GeoB 14827-1</b> | MSM 995-1  | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 63 | 05.11.10 | 09:27 | 20°10.350' | 17°22.337' | -32 | bulk |
| <b>GeoB 14828-1</b> | MSM 996-1  | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 64 | 05.11.10 | 09:49 | 20°10.630' | 17°22.222' | -32 | bulk |
| <b>GeoB 14829-1</b> | MSM 997-1  | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 65 | 05.11.10 | 10:15 | 20°10.920' | 17°22.085' | -31 | bulk |
| <b>GeoB 14830-1</b> | MSM 998-1  | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 66 | 05.11.10 | 10:39 | 20°11.19'  | 17°21.99'  | -32 | bulk |
| <b>GeoB 14831-1</b> | MSM 999-1  | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 67 | 05.11.10 | 11:00 | 20°11.485' | 17°21.937' | -32 | bulk |
| <b>GeoB 14832-1</b> | MSM 1000-1 | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 68 | 05.11.10 | 11:19 | 20°11.752' | 17°21.965' | -32 | bulk |
| <b>GeoB 14834-1</b> | MSM 1002-1 | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 69 | 05.11.10 | 13:03 | 20°09.788' | 17°22.602' | -25 | bulk |
| <b>GeoB 14836-1</b> | MSM 1004-1 | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 70 | 05.11.10 | 14:10 | 20°09.086' | 17°22.623' | -25 | bulk |
| <b>GeoB 14837-1</b> | MSM 1005-1 | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 71 | 05.11.10 | 14:13 | 20°08.78'  | 17°22.61'  | -25 | bulk |
| <b>GeoB 14838-1</b> | MSM 1006-1 | MSM16-3 | central Banc d'Arguin  | <b>BG</b> | 72 | 05.11.10 | 14:50 | 20°08.462' | 17°22.635' | -25 | bulk |



|                     |            |         |                                           |           |    |          |       |            |            |      |      |
|---------------------|------------|---------|-------------------------------------------|-----------|----|----------|-------|------------|------------|------|------|
| <b>GeoB 14839-1</b> | MSM 1007-1 | MSM16-3 | central Banc d'Arguin                     | <b>BG</b> | 73 | 05.11.10 | 15:18 | 20°08.019' | 17°22.618' | -25  | bulk |
| <b>GeoB 14840-1</b> | MSM 1008-1 | MSM16-3 | central Banc d'Arguin                     | <b>BG</b> | 74 | 05.11.10 | 15:40 | 20°07.720' | 17°22.614' | -25  | bulk |
| <b>GeoB 14841-1</b> | MSM 1009-1 | MSM16-3 | central Banc d'Arguin                     | <b>BG</b> | 75 | 05.11.10 | 16:02 | 20°07.424' | 17°22.554' | -25  | bulk |
| <b>GeoB 14842-1</b> | MSM 1010-1 | MSM16-3 | central Banc d'Arguin                     | <b>BG</b> | 76 | 05.11.10 | 16:22 | 20°07.141' | 17°22.430' | -25  | bulk |
| <b>GeoB 14858-1</b> | MSM 1026-1 | MSM16-3 | Canyon area southern Banc d'Arguin (ROV2) | <b>BG</b> | 77 | 07.11.10 | 19:39 | 19°44.283' | 17°08.790' | -483 | bulk |
| <b>GeoB 14859-1</b> | MSM 1027-1 | MSM16-3 | Canyon area southern Banc d'Arguin (ROV2) | <b>BG</b> | 78 | 07.11.10 | 20:10 | 19°44.266' | 17°08.750' | -490 | /    |
| <b>GeoB 14859-2</b> | MSM 1027-2 | MSM16-3 | Canyon area southern Banc d'Arguin (ROV2) | <b>BG</b> | 79 | 07.11.10 | 20:33 | 19°44.266' | 17°08.749' | -485 | /    |
| <b>GeoB 14860-1</b> | MSM 1028-1 | MSM16-3 | Canyon area southern Banc d'Arguin (ROV2) | <b>BG</b> | 80 | 07.11.10 | 20:59 | 19°44.265' | 17°08.753' | -493 | bulk |
| <b>GeoB 14861-1</b> | MSM 1029-1 | MSM16-3 | Canyon area southern Banc d'Arguin (ROV2) | <b>BG</b> | 81 | 07.11.10 | 21:25 | 19°44.255' | 17°08.746' | -513 | bulk |
| <b>GeoB 14862-1</b> | MSM 1030-1 | MSM16-3 | Canyon area southern Banc d'Arguin (ROV2) | <b>BG</b> | 82 | 07.11.10 | 21:54 | 19°44.234' | 17°08.745' | -545 | bulk |
| <b>GeoB 14863-1</b> | MSM 1031-1 | MSM16-3 | Canyon area southern Banc d'Arguin (ROV2) | <b>BG</b> | 83 | 07.11.10 | 22:27 | 19°44.095' | 17°08.728' | -556 | bulk |
| <b>GeoB 14895-1</b> | MSM 1061-1 | MSM16-3 | Banda mounds                              | <b>BG</b> | 84 | 14.11.10 | 10:04 | 17°40.191' | 16°40.840' | -577 | bulk |
| <b>GeoB 14896-1</b> | MSM 1062-1 | MSM16-3 | Banda mounds                              | <b>BG</b> | 85 | 14.11.10 | 10:45 | 17°40.190' | 16°40.741' | -566 | bulk |
| <b>GeoB 14897-1</b> | MSM 1063-1 | MSM16-3 | Banda mounds                              | <b>BG</b> | 86 | 14.11.10 | 11:37 | 17°40.171' | 16°40.483' | -505 | bulk |
| <b>GeoB 14898-1</b> | MSM 1064-1 | MSM16-3 | Banda mounds                              | <b>BG</b> | 87 | 14.11.10 | 12:15 | 17°40.193' | 16°40.415' | -505 | bulk |

## Box Cores

| GeoB station        | MSM station | Campaign | Area                          | Device     | Consec.<br>Number of<br>cores | Date     | Time  | Latitude   | Longitude  | Water depth<br>(m) | Recovery<br>(m) |
|---------------------|-------------|----------|-------------------------------|------------|-------------------------------|----------|-------|------------|------------|--------------------|-----------------|
| <b>GeoB 14703-1</b> | MSM 869-1   | MSM16-3  | Arguin mud wedge              | <b>GKG</b> | 1                             | 24.10.10 | 08:51 | 20°14.120' | 17°36.173' | -111               | 0.21-0.27       |
| <b>GeoB 14704-1</b> | MSM 870-1   | MSM16-3  | Arguin mud wedge              | <b>GKG</b> | 2                             | 24.10.10 | 10:59 | 20°21.905' | 17°41.001' | -246               | 0.01-0.18       |
| <b>GeoB 14705-1</b> | MSM 871-1   | MSM16-3  | Arguin mud wedge              | <b>GKG</b> | 3                             | 24.10.10 | 12:54 | 20°25.291' | 17°38.970' | -91                | 0.01-0.24       |
| <b>GeoB 14706-1</b> | MSM 872-1   | MSM16-3  | Arguin mud wedge              | <b>GKG</b> | 4                             | 24.10.10 | 13:59 | 20°27.416' | 17°40.768' | -142               | 0,15            |
| <b>GeoB 14714-1</b> | MSM 880-1   | MSM16-3  | outer shelf off Banc d'Arguin | <b>GKG</b> | 5                             | 25.10.10 | 09:47 | 20°02.627' | 17°27.420' | -52                | 0,30            |
| <b>GeoB 14715-1</b> | MSM 881-1   | MSM16-3  | outer shelf off Banc d'Arguin | <b>GKG</b> | 6                             | 25.10.10 | 13:07 | 20°05.582' | 17°32.633' | -83                | 0,39            |

|                     |           |         |                                                   |            |    |          |       |            |            |      |           |
|---------------------|-----------|---------|---------------------------------------------------|------------|----|----------|-------|------------|------------|------|-----------|
| <b>GeoB 14716-1</b> | MSM 882-1 | MSM16-3 | outer shelf off Banc d'Arguin                     | <b>GKG</b> | 7  | 25.10.10 | 16:09 | 20°15.085' | 17°32.441' | -56  | 0.24-0.32 |
| <b>GeoB 14717-1</b> | MSM 883-1 | MSM16-3 | outer shelf off Banc d'Arguin                     | <b>GKG</b> | 8  | 25.10.10 | 18:32 | 20°01.573' | 17°29.265' | -69  | 0.24-0.26 |
| <b>GeoB 14723-1</b> | MSM 889-1 | MSM16-3 | southern Banc d'Arguin                            | <b>GKG</b> | 9  | 26.10.10 | 09:15 | 19°42.75'  | 16°56.499' | -25  | /         |
| <b>GeoB 14723-2</b> | MSM 889-1 | MSM16-3 | southern Banc d'Arguin                            | <b>GKG</b> | 10 | 26.10.10 | 09:19 | 19°42.75'  | 16°56.50'  | -25  | /         |
| <b>GeoB 14723-3</b> | MSM 889-2 | MSM16-3 | southern Banc d'Arguin                            | <b>GKG</b> | 11 | 26.10.10 | 10:25 | 19°42.749' | 16°56.499' | -25  | /         |
| <b>GeoB 14724-1</b> | MSM 890-1 | MSM16-3 | southern Banc d'Arguin                            | <b>GKG</b> | 12 | 26.10.10 | 11:11 | 19°42.344' | 16°56.876' | -33  | /         |
| <b>GeoB 14740-2</b> | MSM 905-2 | MSM16-3 | outer shelf southern Banc d'Arguin                | <b>GKG</b> | 13 | 26.10.10 | 20:17 | 19°35.226' | 17°00.772' | -269 | /         |
| <b>GeoB 14740-3</b> | MSM 905-3 | MSM16-3 | outer shelf southern Banc d'Arguin                | <b>GKG</b> | 14 | 26.10.10 | 20:41 | 19°35.229' | 17°00.768' | -271 | /         |
| <b>GeoB 14744-1</b> | MSM 909-1 | MSM16-3 | southern Banc d'Arguin                            | <b>GKG</b> | 15 | 27.10.10 | 08:30 | 19°32.700' | 16°50.400' | -23  | 0,22      |
| <b>GeoB 14751-1</b> | MSM 916-1 | MSM16-3 | southern Banc d'Arguin                            | <b>GKG</b> | 16 | 27.10.10 | 13:56 | 19°31.696' | 16°50.397' | -27  | 0,36      |
| <b>GeoB 14760-2</b> | MSM 925-2 | MSM16-3 | Canyon area southern Banc d'Arguin                | <b>GKG</b> | 17 | 28.10.10 | 17:15 | 19°44.292' | 17°08.754' | -478 | bulk      |
| <b>GeoB 14760-3</b> | MSM 925-3 | MSM16-3 | Canyon area southern Banc d'Arguin                | <b>GKG</b> | 18 | 28.10.10 | 17:49 | 19°44.286' | 17°08.754' | -473 | bulk      |
| <b>GeoB 14761-1</b> | MSM 926-1 | MSM16-3 | Canyon area southern Banc d'Arguin                | <b>GKG</b> | 19 | 28.10.10 | 18:28 | 19°44.272' | 17°08.825' | -494 | bulk      |
| <b>GeoB 14764-1</b> | MSM 929-1 | MSM16-3 | Cap Timiris shelf                                 | <b>GKG</b> | 20 | 29.10.10 | 08:50 | 19°07.381' | 16°34.976' | -56  | 0,36      |
| <b>GeoB 14775-1</b> | MSM 941-1 | MSM16-3 | Cap Timiris                                       | <b>GKG</b> | 21 | 29.10.10 | 19:44 | 19°08.402' | 16°44.456' | -537 | 0,55      |
| <b>GeoB 14782-3</b> | MSM 949-1 | MSM16-3 | Baie du Levrier                                   | <b>GKG</b> | 22 | 31.10.10 | 13:47 | 20°52.807' | 16°59.533' | -14  | 0,50      |
| <b>GeoB 14785-2</b> | MSM 951-2 | MSM16-3 | Baie du Levrier                                   | <b>GKG</b> | 23 | 01.11.10 | 10:07 | 20°49.441' | 16°59.627' | -14  | 0.52-0.57 |
| <b>GeoB 14788-1</b> | MSM 954-1 | MSM16-3 | central outer Banc d'Arguin                       | <b>GKG</b> | 24 | 02.11.10 | 08:24 | 20°16.989' | 17°20.009' | -30  | 0.16-0.26 |
| <b>GeoB 14789-1</b> | MSM 955-1 | MSM16-3 | central outer Banc d'Arguin                       | <b>GKG</b> | 25 | 02.11.10 | 11:25 | 20°10.062' | 17°22.788' | -32  | 0.17-0.27 |
| <b>GeoB 14790-1</b> | MSM 956-1 | MSM16-3 | Arguin mud belt                                   | <b>GKG</b> | 26 | 02.11.10 | 13:16 | 20°03.658' | 17°25.537' | -42  | 0.16.0.36 |
| <b>GeoB 14791-1</b> | MSM 957-1 | MSM16-3 | Arguin mud belt                                   | <b>GKG</b> | 27 | 02.11.10 | 15:06 | 20°08.000' | 17°29.688' | -46  | 0.28-0.38 |
| <b>GeoB 14797-2</b> | MSM 963-2 | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>GKG</b> | 28 | 03.11.10 | 18:14 | 20°14.380' | 17°40.180' | -544 | bulk      |
| <b>GeoB 14798-1</b> | MSM 964-1 | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>GKG</b> | 29 | 03.11.10 | 19:11 | 20°14.699' | 17°40.131' | -560 | /         |
| <b>GeoB 14798-2</b> | MSM 964-2 | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>GKG</b> | 30 | 03.11.10 | 19:27 | 20°14.701' | 17°40.131' | -559 | bulk      |
| <b>GeoB 14799-1</b> | MSM 965-1 | MSM16-3 | northern canyon area west of Banc d'Arguin (ROV3) | <b>GKG</b> | 31 | 03.11.10 | 20:06 | 20°14.574' | 17°40.088' | -490 | 0.05-0.3  |

|                     |            |         |                                   |            |    |          |       |            |            |       |           |
|---------------------|------------|---------|-----------------------------------|------------|----|----------|-------|------------|------------|-------|-----------|
| <b>GeoB 14835-1</b> | MSM 1003-1 | MSM16-3 | central Banc d'Arguin             | <b>GKG</b> | 32 | 05.11.10 | 13:19 | 20°09.441' | 17°22.633' | -25   | 0.09-0.18 |
| <b>GeoB 14844-1</b> | MSM 1012-1 | MSM16-3 | southern Banc d'Arguin            | <b>GKG</b> | 33 | 05.11.10 | 19:00 | 20°01.598' | 17°29.260' | -70   | 0.28-0.33 |
| <b>GeoB 14847-1</b> | MSM 1015-1 | MSM16-3 | southern Banc d'Arguin            | <b>GKG</b> | 34 | 06.11.10 | 09:34 | 19°51.143' | 17°15.816' | -369  | >0.55     |
| <b>GeoB 14848-1</b> | MSM 1016-1 | MSM16-3 | southern Banc d'Arguin            | <b>GKG</b> | 35 | 06.11.10 | 12:21 | 19°49.308' | 17°15.701' | -516  | 0.47-0.55 |
| <b>GeoB 14849-1</b> | MSM 1017-1 | MSM16-3 | southern Banc d'Arguin            | <b>GKG</b> | 36 | 06.11.10 | 14:57 | 19°46.500' | 17°09.806' | -103  | 0.27-0.29 |
| <b>GeoB 14850-1</b> | MSM 1018-1 | MSM16-3 | southern Banc d'Arguin            | <b>GKG</b> | 37 | 06.11.10 | 16:17 | 19°47.801' | 17°12.203' | -105  | 0.29-0.35 |
| <b>GeoB 14852-1</b> | MSM 1020-1 | MSM16-3 | deep mound chain                  | <b>GKG</b> | 38 | 07.11.10 | 08:40 | 19°48.642' | 17°28.228' | -1310 | 0.21-0.24 |
| <b>GeoB 14853-1</b> | MSM 1021-1 | MSM16-3 | deep mound chain                  | <b>GKG</b> | 39 | 07.11.10 | 10:02 | 19°48.487' | 17°28.294' | -1252 | 0.40-0.42 |
| <b>GeoB 14854-1</b> | MSM 1022-1 | MSM16-3 | deep mound chain                  | <b>GKG</b> | 40 | 07.11.10 | 13:32 | 19°49.675' | 17°27.690' | -1196 | >0.55     |
| <b>GeoB 14855-1</b> | MSM 1023-1 | MSM16-3 | deep mound chain                  | <b>GKG</b> | 41 | 07.11.10 | 14:49 | 19°49.865' | 17°27.845' | -1100 | 0.18-0.29 |
| <b>GeoB 14856-1</b> | MSM 1024-1 | MSM16-3 | deep mound chain                  | <b>GKG</b> | 42 | 07.11.10 | 16:27 | 19°46.324' | 17°22.086' | -1119 | 0,49      |
| <b>GeoB 14857-1</b> | MSM 1025-1 | MSM16-3 | deep mound chain                  | <b>GKG</b> | 43 | 07.11.10 | 17:53 | 19°42.394' | 17°19.073' | -1090 | bulk      |
| <b>GeoB 14865-1</b> | MSM 1033-1 | MSM16-3 | Timiris mud wedge                 | <b>GKG</b> | 44 | 08.11.10 | 08:04 | 19°30.702' | 16°51.706' | -52   | 0,35      |
| <b>GeoB 14866-1</b> | MSM 1034-1 | MSM16-3 | Timiris mud wedge                 | <b>GKG</b> | 45 | 08.11.10 | 09:36 | 19°33.037' | 16°58.385' | -100  | 0,30      |
| <b>GeoB 14867-1</b> | MSM 1035-1 | MSM16-3 | Timiris mud wedge                 | <b>GKG</b> | 46 | 08.11.10 | 11:14 | 19°39.295' | 16°56.302' | -52   | 0,40      |
| <b>GeoB 14868-1</b> | MSM 1036-1 | MSM16-3 | Timiris mud wedge                 | <b>GKG</b> | 47 | 08.11.10 | 13:57 | 19°42.706' | 16°59.502' | -62   | 0,50      |
| <b>GeoB 14876-1</b> | MSM 1043-1 | MSM16-3 | Timiris deep coral mound chain    | <b>GKG</b> | 48 | 11.11.10 | 08:31 | 18°57.743' | 16°52.244' | -548  | 0.13-0.20 |
| <b>GeoB 14877-1</b> | MSM 1044-1 | MSM16-3 | Timiris deep coral mound chain    | <b>GKG</b> | 49 | 11.11.10 | 09:46 | 18°57.802' | 16°52.126' | -498  | 0.23-0.35 |
| <b>GeoB 14878-1</b> | MSM 1045-1 | MSM16-3 | Timiris deep coral mound chain    | <b>GKG</b> | 50 | 11.11.10 | 12:37 | 18°57.934' | 16°52.073' | -493  | bulk      |
| <b>GeoB 14879-1</b> | MSM 1046-1 | MSM16-3 | Timiris shallow coral mound chain | <b>GKG</b> | 51 | 11.11.10 | 13:56 | 18°57.894' | 16°51.176' | -473  | bulk      |
| <b>GeoB 14879-2</b> | MSM 1046-2 | MSM16-3 | Timiris shallow coral mound chain | <b>GKG</b> | 52 | 11.11.10 | 14:29 | 18°57.897' | 16°51.177' | -485  | bulk      |
| <b>GeoB 14880-1</b> | MSM 1047-1 | MSM16-3 | Timiris shallow coral mound chain | <b>GKG</b> | 53 | 11.11.10 | 15:05 | 18°57.800' | 16°51.169' | -438  | bulk      |
| <b>GeoB 14888-1</b> | MSM 1055-1 | MSM16-3 | Canyon S of Timiris mound chain   | <b>GKG</b> | 54 | 13.11.10 | 09:32 | 18°38.997' | 16°43.607' | ~-600 | bulk      |
| <b>GeoB 14890-1</b> | MSM 1057-1 | MSM16-3 | Canyon S of Timiris mound chain   | <b>GKG</b> | 55 | 13.11.10 | 10:55 | 18°38.792' | 16°43.697' | -582  | bulk      |
| <b>GeoB 14903-1</b> | MSM 1069-1 | MSM16-3 | Banda slide                       | <b>GKG</b> | 56 | 15.11.10 | 20:39 | 17°32.853' | 16°39.700' | -414  | 0,23      |

|                     |            |         |                      |            |    |          |       |            |            |      |          |
|---------------------|------------|---------|----------------------|------------|----|----------|-------|------------|------------|------|----------|
| <b>GeoB 14904-1</b> | MSM 1070-1 | MSM16-3 | Banda slide          | <b>GKG</b> | 57 | 15.11.10 | 22:03 | 17°32.559' | 16°39.805' | -510 | 0,36     |
| <b>GeoB 14905-1</b> | MSM 1071-1 | MSM16-3 | Banda slide          | <b>GKG</b> | 58 | 15.11.10 | 23:15 | 17°32.457' | 16°39.997' | -486 | 0,36     |
| <b>GeoB 14910-1</b> | MSM 1076-1 | MSM16-3 | southern Banda slide | <b>GKG</b> | 59 | 16.11.10 | 20:30 | 17°28.998' | 16°41.647' | -535 | /        |
| <b>GeoB 14910-2</b> | MSM 1076-2 | MSM16-3 | southern Banda slide | <b>GKG</b> | 60 | 16.11.10 | 20:56 | 17°28.998' | 16°41.647' | -535 | 0,24     |
| <b>GeoB 14911-1</b> | MSM 1077-1 | MSM16-3 | southern Banda slide | <b>GKG</b> | 61 | 16.11.10 | 22:07 | 17°28.910' | 16°41.509' | -450 | 0.5-0.23 |

## Gravity Cores

| GeoB station        | MSM station | Campaign | Area                                              | Device   | Consec.<br>core<br>number | Date     | Time  | Latitude   | Longitude  | Water depth<br>(m) | Recovery<br>(m) |
|---------------------|-------------|----------|---------------------------------------------------|----------|---------------------------|----------|-------|------------|------------|--------------------|-----------------|
| <b>GeoB 14703-2</b> | MSM 869-2   | MSM16-3  | Arguin mud wedge                                  | SL (6m)  | 1                         | 24.10.10 | 09:29 | 20°14.118' | 17°36.171' | -104               | 2,39            |
| <b>GeoB 14704-2</b> | MSM 870-2   | MSM16-3  | Arguin mud wedge                                  | SL (3m)  | 2                         | 24.10.10 | 11:34 | 20°21.904' | 17°41.000' | -247               | /               |
| <b>GeoB 14704-3</b> | MSM 870-3   | MSM16-3  | Arguin mud wedge                                  | SL (3m)  | 3                         | 24.10.10 | 11:58 | 20°21.905' | 17°41.001' | -246               | 0,05            |
| <b>GeoB 14705-2</b> | MSM 871-2   | MSM16-3  | Arguin mud wedge                                  | SL (6m)  | 4                         | 24.10.10 | 13:19 | 20°25.287' | 17°38.971' | -91                | /               |
| <b>GeoB 14714-2</b> | MSM 880-2   | MSM16-3  | outer shelf off Banc d'Arguin                     | SL (6m)  | 5                         | 25.10.10 | 11:26 | 20°02.627' | 17°27.419' | -52                | /               |
| <b>GeoB 14775-2</b> | MSM 941-2   | MSM16-3  | Cap Timiris                                       | SL (6m)  | 6                         | 29.10.10 | 20:28 | 19°08.402' | 16°44.458' | -537               | 5,58            |
| <b>GeoB 14775-3</b> | MSM 941-3   | MSM16-3  | Cap Timiris                                       | SL (12m) | 7                         | 29.10.10 | 21:33 | 19°08.403' | 16°44.455' | -537               | 5,84            |
| <b>GeoB 14782-4</b> | MSM 949-2   | MSM16-3  | Baie du Levrier                                   | SL (12m) | 8                         | 31.10.10 | 14:32 | 20°52.807' | 16°59.531' | -15                | 5,07            |
| <b>GeoB 14790-2</b> | MSM 956-2   | MSM16-3  | Arguin mud belt                                   | SL (3m)  | 9                         | 02.11.10 | 13:37 | 20°03.663' | 17°25.524' | -42                | /               |
| <b>GeoB 14785-3</b> | MSM 951-3   | MSM16-3  | Baie du Levrier                                   | SL (6m)  | 10                        | 01.11.10 | 11:05 | 20°49.442' | 16°59.628' | -14                | 3,56            |
| <b>GeoB 14792-1</b> | MSM 958-1   | MSM16-3  | Arguin mud belt                                   | SL (12m) | 11                        | 02.11.10 | 16:43 | 20°15.085' | 17°32.447' | -56                | /               |
| <b>GeoB 14799-2</b> | MSM 965-2   | MSM16-3  | northern canyon area west of Banc d'Arguin (ROV3) | SL (6m)  | 12                        | 03.11.10 | 20:38 | 20°14.575' | 17°40.088' | -491               | 3,60            |
| <b>GeoB 14847-2</b> | MSM 1015-2  | MSM16-3  | southern Banc d'Arguin                            | SL (6m)  | 13                        | 06.11.10 | 10:17 | 19°51.143' | 17°15.817' | -370               | 5,36            |
| <b>GeoB 14847-3</b> | MSM 1015-3  | MSM16-3  | southern Banc d'Arguin                            | SL (12m) | 14                        | 06.11.10 | 11:11 | 19°51.141' | 17°15.817' | -370               | 10,35           |
| <b>GeoB 14848-2</b> | MSM 1016-2  | MSM16-3  | southern Banc d'Arguin                            | SL (6m)  | 15                        | 06.11.10 | 12:54 | 19°49.309' | 17°15.700' | -516               | /               |
| <b>GeoB 14848-3</b> | MSM 1016-3  | MSM16-3  | southern Banc d'Arguin                            | SL (12m) | 16                        | 06.11.10 | 13:37 | 19°49.310' | 17°15.701' | -516               | 6,81            |

|                     |            |         |                                   |                 |    |          |       |            |            |       |       |
|---------------------|------------|---------|-----------------------------------|-----------------|----|----------|-------|------------|------------|-------|-------|
| <b>GeoB 14853-2</b> | MSM 1021-2 | MSM16-3 | deep mound chain                  | <b>SL (6m)</b>  | 17 | 07.11.10 | 11:07 | 19°48.488' | 17°28.293' | -1252 | 5,65  |
| <b>GeoB 14865-2</b> | MSM 1033-2 | MSM16-3 | Timiris mud wedge                 | <b>SL (6m)</b>  | 18 | 08.11.10 | 08:28 | 19°30.702' | 16°51.706' | -52   | 4,27  |
| <b>GeoB 14867-2</b> | MSM 1035-2 | MSM16-3 | Timiris mud wedge                 | <b>SL (6m)</b>  | 19 | 08.11.10 | 11:50 | 19°39.298' | 16°56.302' | -52   | 5,72  |
| <b>GeoB 14867-3</b> | MSM 1035-3 | MSM16-3 | Timiris mud wedge                 | <b>SL (12m)</b> | 20 | 08.11.10 | 12:21 | 19°39.299' | 16°56.297' | -51   | 3,19  |
| <b>GeoB 14867-4</b> | MSM 1035-4 | MSM16-3 | Timiris mud wedge                 | <b>SL (12m)</b> | 21 | 08.11.10 | 12:58 | 19°39.300' | 16°56.300' | -51   |       |
| <b>GeoB 14868-2</b> | MSM 1036-2 | MSM16-3 | Timiris mud wedge                 | <b>SL (6m)</b>  | 22 | 08.11.10 | 14:15 | 19°42.706' | 16°59.504' | -62   | 5,65  |
| <b>GeoB 14868-3</b> | MSM 1036-3 | MSM16-3 | Timiris mud wedge                 | <b>SL (12m)</b> | 23 | 08.11.10 | 14:41 | 19°42.706' | 16°59.504' | -62   | /     |
| <b>GeoB 14868-4</b> | MSM 1036-4 | MSM16-3 | Timiris mud wedge                 | <b>SL (12m)</b> | 24 | 08.11.10 | 15:12 | 19°42.708' | 16°59.490' | -62   | 6,52  |
| <b>GeoB 14876-2</b> | MSM 1043-2 | MSM16-3 | Timiris deep coral mound chain    | <b>SL (6m)</b>  | 25 | 11.11.10 | 09:03 | 18°57.744' | 16°52.245' | -550  | 5,60  |
| <b>GeoB 14877-2</b> | MSM 1044-2 | MSM16-3 | Timiris deep coral mound chain    | <b>SL (6m)</b>  | 26 | 11.11.10 | 10:21 | 18°57.802' | 16°52.125' | -495  | 2,35  |
| <b>GeoB 14877-3</b> | MSM 1044-3 | MSM16-3 | Timiris deep coral mound chain    | <b>SL (12m)</b> | 27 | 11.11.10 | 11:05 | 18°57.802' | 16°52.124' | -500  | 2,30  |
| <b>GeoB 14877-4</b> | MSM 1044-4 | MSM16-3 | Timiris deep coral mound chain    | <b>SL (12m)</b> | 28 | 11.11.10 | 11:53 | 18°57.805' | 16°52.126' | -493  | /     |
| <b>GeoB 14878-2</b> | MSM 1045-2 | MSM16-3 | Timiris deep coral mound chain    | <b>SL (6m)</b>  | 29 | 11.11.10 | 13:06 | 18°57.934' | 16°52.073' | -487  | 3,13  |
| <b>GeoB 14882-1</b> | MSM 1049-1 | MSM16-3 | Timiris shallow coral mound chain | <b>SL (6m)</b>  | 30 | 12.11.10 | 06:20 | 18°57.801' | 16°51.166' | -438  | 2,66  |
| <b>GeoB 14883-1</b> | MSM 1050-1 | MSM16-3 | Timiris deep coral mound chain    | <b>SL (12m)</b> | 31 | 12.11.10 | 07:08 | 18°57.934' | 16°52.073' | -486  | 5,16  |
| <b>GeoB 14884-1</b> | MSM 1051-1 | MSM16-3 | Timiris deep coral mound chain    | <b>SL (12m)</b> | 32 | 12.11.10 | 08:14 | 18°57.803' | 16°52.123' | -492  | 8,13  |
| <b>GeoB 14885-1</b> | MSM 1052-1 | MSM16-3 | Timiris coral mound chain         | <b>SL (6m)</b>  | 33 | 12.11.10 | 09:29 | 18°57.418' | 16°52.705' | -611  | 5,65  |
| <b>GeoB 14889-1</b> | MSM 1056-1 | MSM16-3 | Canyon S of Timiris mound chain   | <b>SL (6)</b>   | 34 | 13.11.10 | 10:14 | 18°38.875' | 16°43.696' | ~-590 | 3,52  |
| <b>GeoB 14890-2</b> | MSM 1057-2 | MSM16-3 | Canyon S of Timiris mound chain   | <b>SL (12m)</b> | 35 | 13.11.10 | 11:29 | 18°38.792' | 16°43.698' | -580  | 10,13 |
| <b>GeoB 14899-1</b> | MSM 1065-1 | MSM16-3 | Banda mounds                      | <b>SL (12m)</b> | 36 | 14.11.10 | 13:10 | 17°40.191' | 16°40.329' | -485  | 5,10  |
| <b>GeoB 14903-2</b> | MSM 1069-2 | MSM16-3 | Banda slide                       | <b>SL (12m)</b> | 37 | 15.11.10 | 21:07 | 17°32.854' | 16°39.698' | -415  | 6,75  |
| <b>GeoB 14904-2</b> | MSM 1070-2 | MSM16-3 | Banda slide                       | <b>SL (12m)</b> | 38 | 15.11.10 | 22:32 | 17°32.558' | 16°39.806' | -517  | 10,28 |
| <b>GeoB 14905-2</b> | MSM 1071-2 | MSM16-3 | Banda slide                       | <b>SL (12m)</b> | 39 | 16.11.10 | 00:00 | 17°32.456' | 16°39.999' | -493  | 9,65  |
| <b>GeoB 14910-3</b> | MSM 1076-1 | MSM16-3 | southern Banda slide              | <b>SL (12m)</b> | 40 | 16.11.10 | 21:27 | 17°28.998' | 16°41.647' | -535  | 8,01  |
| <b>GeoB 14911-2</b> | MSM 1077-2 | MSM16-3 | southern Banda slide              | <b>SL (12m)</b> | 41 | 16.11.10 | 22:45 | 17°28.911' | 16°41.509' | -452  | 4,55  |

## Vibro Cores

| GeoB station | MSM station | Campaign | Area                          | Device | Consec.<br>core<br>number | Date     | Time  | Latitude   | Longitude  | Water depth<br>(m) | Recovery<br>(m) |
|--------------|-------------|----------|-------------------------------|--------|---------------------------|----------|-------|------------|------------|--------------------|-----------------|
| GeoB 14706-2 | MSM 872-2   | MSM16-3  | Arguin mud wedge              | VC     | 1                         | 24.10.10 | 15:31 | 20°27.417' | 17°40.767' | -149               | 3,08            |
| GeoB 14707-1 | MSM 873-1   | MSM16-3  | Arguin mud wedge              | VC     | 2                         | 24.10.10 | 16:41 | 20°25.281' | 17°38.952' | -96                | 4,74            |
| GeoB 14715-2 | MSM 881-2   | MSM16-3  | outer shelf off Banc d'Arguin | VC     | 3                         | 25.10.10 | 14:02 | 20°05.582' | 17°32.633' | -83                | 2,92            |
| GeoB 14716-2 | MSM 882-2   | MSM16-3  | outer shelf off Banc d'Arguin | VC     | 4                         | 25.10.10 | 16:34 | 20°15.090' | 17°32.440' | -56                | 5,07            |
| GeoB 14717-2 | MSM 883-2   | MSM16-3  | outer shelf off Banc d'Arguin | VC     | 5                         | 25.10.10 | 18:58 | 20°01.573' | 17°29.263' | -69                | 3,77            |
| GeoB 14782-2 | MSM 947-2   | MSM16-3  | Baie du Levrier               | VC     | 6                         | 31.10.10 | 13:13 | 20°52.810' | 16°59.533' | -15                | 4,75            |
| GeoB 14788-2 | MSM 954-2   | MSM16-3  | central outer Banc d'Arguin   | VC     | 7                         | 02.11.10 | 08:58 | 20°16.989' | 17°20.009' | -30                | 2,07            |
| GeoB 14789-2 | MSM 955-2   | MSM16-3  | central outer Banc d'Arguin   | VC     | 8                         | 02.11.10 | 11:55 | 20°10.062' | 17°22.788' | -32                | 2,96            |
| GeoB 14790-3 | MSM 956-3   | MSM16-3  | Arguin mud belt               | VC     | 9                         | 02.11.10 | 14:00 | 20°03.663' | 17°25.524' | -42                | 5,02            |
| GeoB 14791-2 | MSM 957-2   | MSM16-3  | Arguin mud belt               | VC     | 9                         | 02.11.10 | 15:29 | 20°08.000' | 17°29.688' | -46                | 4,94            |
| GeoB 14844-2 | MSM 1012-2  | MSM16-3  | southern Banc d'Arguin        | VC     | 10                        | 05.11.10 | 19:20 | 20°01.598' | 17°29.260' | -70                | /               |
| GeoB 14849-2 | MSM 1017-2  | MSM16-3  | southern Banc d'Arguin        | VC     | 11                        | 06.11.10 | 15:21 | 19°46.501' | 17°09.805' | -100               | 4,80            |
| GeoB 14850-2 | MSM 1018-2  | MSM16-3  | southern Banc d'Arguin        | VC     | 12                        | 06.11.10 | 16:37 | 19°47.801' | 17°12.207' | -105               | 4,35            |
| GeoB 14866-2 | MSM 1034-2  | MSM16-3  | Timiris mud wedge             | VC     | 13                        | 08.11.10 | 09:58 | 19°33.037' | 16°58.387' | -100               | 4,80            |