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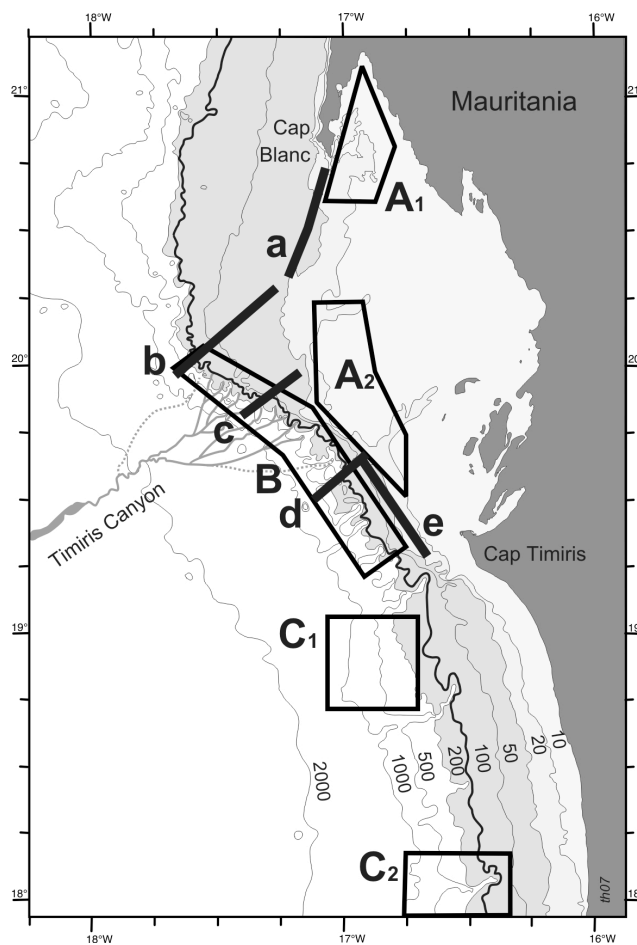
Short Cruise Report
Maria S. Merian Cruise MSM16/3

Bremerhaven / Germany – Mindelo / Cap Verde

October 13th – November 20th, 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 14th, 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.

1st Week – Oct 21 - 27 2010

The other scientists flew to Las Palmas and boarded on October 21st. 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 23rd, 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 26th 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 27th, 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 Secci 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.

2nd Week – Oct 28 - Nov 3

On Thursday 28th 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 29th 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 31st, 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 (H₂S 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 3rd, 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.

3rd 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 5th 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 7th, 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 10th 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.

4th 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 12th 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 *Lophilia* and giant bivalve species *Acesta*, crabs and some deep-sea oysters. During the night a yoyo-CTD was carried out. Saturday

13th 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 14th 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 14th to 15th, 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 16th 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 17th 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 17th 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.

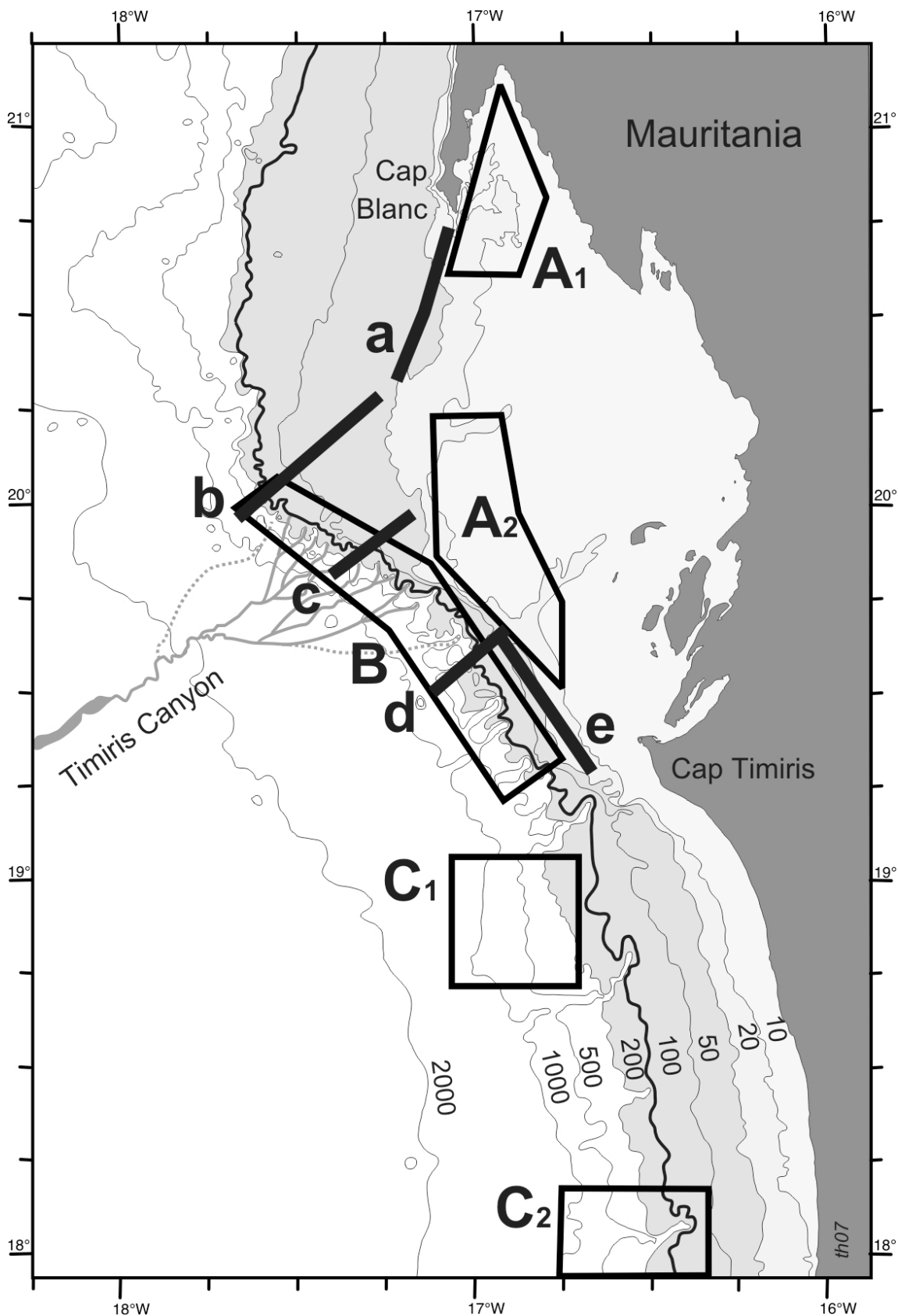


Fig. 1: Study area on the shelf and slope off Mauritania. Areas A1, A2 focused on the shallow Banc d'Arguin (carbonate production, dust reworking) and were sampled from the zodiac. Area B focused on shelf development and high-resolution archives. Areas C1, C2 concentrated on deep-water coral sediments. 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	UGotenburg
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 nd 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

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

CTD/ROS stations

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

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

Zodiac SES (Innomar)

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

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

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

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

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

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

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

Box Cores

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

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

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

GeoB 14904-1	MSM 1070-1	MSM16-3	Banda slide	GKG	57	15.11.10	22:03	17°32.559'	16°39.805'	-510	0,36
GeoB 14905-1	MSM 1071-1	MSM16-3	Banda slide	GKG	58	15.11.10	23:15	17°32.457'	16°39.997'	-486	0,36
GeoB 14910-1	MSM 1076-1	MSM16-3	southern Banda slide	GKG	59	16.11.10	20:30	17°28.998'	16°41.647'	-535	/
GeoB 14910-2	MSM 1076-2	MSM16-3	southern Banda slide	GKG	60	16.11.10	20:56	17°28.998'	16°41.647'	-535	0,24
GeoB 14911-1	MSM 1077-1	MSM16-3	southern Banda slide	GKG	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. core number	Date	Time	Latitude	Longitude	Water depth (m)	Recovery (m)
GeoB 14703-2	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
GeoB 14704-2	MSM 870-2	MSM16-3	Arguin mud wedge	SL (3m)	2	24.10.10	11:34	20°21.904'	17°41.000'	-247	/
GeoB 14704-3	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
GeoB 14705-2	MSM 871-2	MSM16-3	Arguin mud wedge	SL (6m)	4	24.10.10	13:19	20°25.287'	17°38.971'	-91	/
GeoB 14714-2	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	/
GeoB 14775-2	MSM 941-2	MSM16-3	Cap Timiris	SL (6m)	6	29.10.10	20:28	19°08.402'	16°44.458'	-537	5,58
GeoB 14775-3	MSM 941-3	MSM16-3	Cap Timiris	SL (12m)	7	29.10.10	21:33	19°08.403'	16°44.455'	-537	5,84
GeoB 14782-4	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
GeoB 14790-2	MSM 956-2	MSM16-3	Arguin mud belt	SL (3m)	9	02.11.10	13:37	20°03.663'	17°25.524'	-42	/
GeoB 14785-3	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
GeoB 14792-1	MSM 958-1	MSM16-3	Arguin mud belt	SL (12m)	11	02.11.10	16:43	20°15.085'	17°32.447'	-56	/
GeoB 14799-2	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
GeoB 14847-2	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
GeoB 14847-3	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
GeoB 14848-2	MSM 1016-2	MSM16-3	southern Banc d'Arguin	SL (6m)	15	06.11.10	12:54	19°49.309'	17°15.700'	-516	/
GeoB 14848-3	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

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