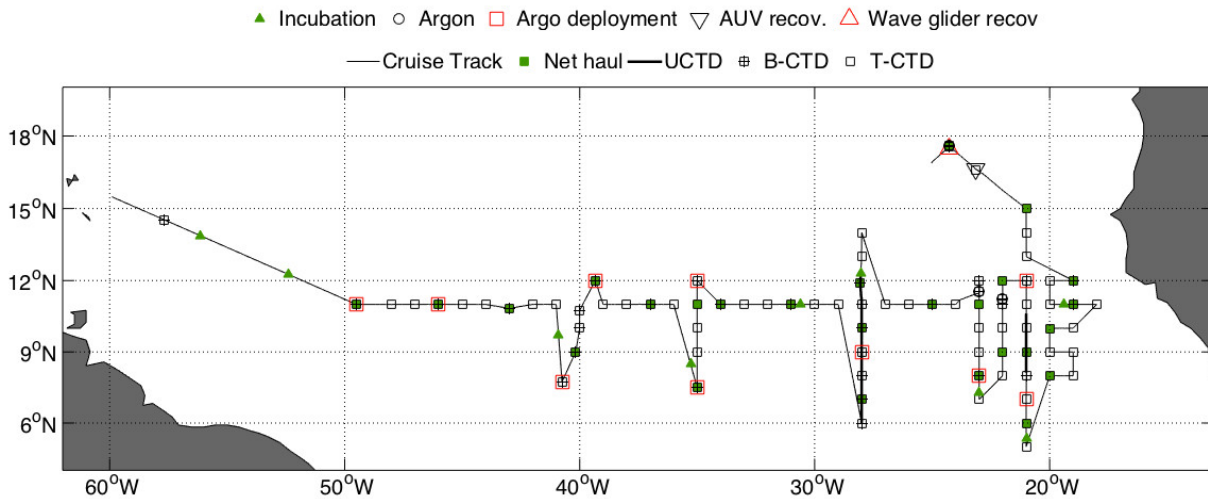


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Short Cruise Report
R/V METEOR M116-1
Pointe-a-Pitre, Guadeloupe – Mindelo, Kap Verde
1st May – 3rd June 2015
Chief Scientist: Prof. Dr. Martin Visbeck
Captain: Rainer Hammacher



Objectives

Cruise M116-1 is a contribution to the DFG Collaborative Research Project (SFB) 754: "Climate-Biogeochemistry Interactions in the Tropical Ocean". The main goal of the project is to quantify and better understand the supply of oxygen to the oxygen minimum zone (OMZ) of the Tropical Atlantic with a particular focus on the role of regional advection, mesoscale and sub-mesoscale processes for lateral and vertical oxygen fluxes and thus a critical aspect of the ventilation of this region. One of the methods to derive oxygen transports is the "Oxygen Supply Tracer Release Experiment" (OSTRE), will allow for quantification of the time averaged diapycnal and lateral mixing rates in the region.

The main objective of the cruise was to: a) perform the third mapping of the tracer CF_3SF_5 that was injected in late 2012 (MSM23) near the OMZ at around 10°N 21°W and about 500 meters depth; b) map the water mass, oxygen and transient tracer distribution by the CTDs; c) determine the synoptic ocean circulation and mixing by S-ADCP observations; d) determine biogeochemical rates of oxygen consumption and nutrient cycling by nitrogen fixation experiments; e) document the long term changes of water mass properties at repeat stations along the 11°N transects and several short dog legs with a focus on transient tracers, the carbonate system, oxygen and nutrients; f) deploy 10 Argo floats sponsored by the German BSH; g) recover two glider.

The cruise was very successful and almost all planned objectives were reached and the measurements were carried out as planned.



Scientific party of the cruise M116-1

Narrative

R/V METEOR departed from Pointe-a-Pitre on May 1, 2015 at 9:00 and transited towards 11°S. Underway sampling began at May 2, 0:00. We reached the first CTD station on May 5, 0:00 UTC at 11°N 49°30'W, deployed the first Argo float and began the 11°N transect with a station every full degree. Between May 8 and May 10 we revisited 5 stations from the TTO cruise roughly along a 40°W south to north transect between 7° 45' N and 12°N. We ventured east mostly along 11°N with two more dog legs at 35°W and 28°W. During the 28°W section on May 18 the W2 winch showed increasing spooling delay and station depths had to be limited to 4000m water depths. On May 21, 2015 we reached the northwestern corner of the tracer control volume box at 12°N and 23°W and sampled along 23°W, 22°W and an extended southward leg along 21°W. On May 29 we reached the easternmost station at 11°N and 18°W. On May 31 we completed the survey at 15°N and 21°W. An ocean glider was recovered on June 1 southwest of the island Sal and on June 2 we completed the last sampling at CVOO 60nm north of Mindelo and recovered a wave glider. We reached the port of Mindelo in the evening of June 2 2015.

Acknowledgements

We greatly appreciate the wonderful working atmosphere as well as the professionalism and seamanship of crew, officers and Captain of R/V METEOR, which made this work a success. Financial support came from the German Science Foundation (DFG).

Participants

Name	Position/Discipline	Institute
1. Prof. Dr. Visbeck, Martin	Chief scientist	GEOMAR
2. Dr. Tanhua, Toste	Tracer	GEOMAR
3. Dr. Schmidtko, Sunke	CTD	GEOMAR
4. Handmann, Patricia	CTD, SADCP	GEOMAR
5. Link, Rudolf	CTD	GEOMAR
6. Schmidt, Henrike	CTD	GEOMAR
7. Christiansen, Svenja	CTD, UVP	GEOMAR
8. Vieira, Nuno	CTD	INDP
9. Witt, Anja	CTD	GEOMAR
10. Bogner, Boie	Tracer	GEOMAR
11. Köllner, Manuela	Tracer	GEOMAR
12. Waltemathe, Henning	Tracer	GEOMAR
13. Liu, Mian	Tracer	GEOMAR
14. Rudminat, Francie	Tracer	GEOMAR
15. Kersting, Arne	Tracer	U-HD
16. Hahn, Tobias	CO ₂ , O ₂	GEOMAR
17. Campen, Hanna	CO ₂	GEOMAR
18. Fessler, Sebastian	CO ₂	GEOMAR
19. Maas, Josefine	O ₂ , Nutrients	GEOMAR
20. Lohmann, Martina	O ₂ , Nutrients	GEOMAR
21. Nachtigall, Kerstin	Nutrients	GEOMAR
22. Browning, Tom	Phytoplankton	GEOMAR
23. Utermann, Caroline	Phytoplankton	GEOMAR
24. Grefe, Imke	Nitrogen	DAL
25. Zorz, Jacqueline	Nitrogen	DAL
26. Eichhorn, Astrid	Air Chemistry	MPI-HH
27. Diouf, Aziz	Observer	Senegal

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MPI-HH Max Plank Institute for Meteorology, Hamburg, Germany

U-HD Heidelberg University, Germany

INDP Instituto Nacional do Desenvolvimento das Pescas, Cabo Verde

DAL Dalhousie University, Halifax, Canada

Station List: of R/V METEOR cruise M116-1.

Station	CTD Profile	Date	Time UTC	Latitude	Longitude	max. p [dbar]	Comment/measurements
M116_1/473	1	02/05/2015	14:05	14°31.86'	-58°19.51'	2003	O2 ,Nutrients ,NO2 ,NO3 ,PO4 ,Si
M116_1/474		02/05/2015	16:14	14° 31.86'	-57° 40.49'	0	TMC Fish deployment
M116_1/475	2	04/05/2015	23:05	11°00.00'	-50°29.98'	5026	Argo deployment ,O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/476	3	05/05/2015	11:05	11°00.00'	-48°00.03'	1203	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/477	4	05/05/2015	18:05	11°00.02'	-48°59.98'	1210	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/478	5	06/05/2015	02:05	10°59.91'	-46°00.02'	5047	Argo deployment ,O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/479	6	06/05/2015	11:05	10°59.97'	-46°59.94'	1202	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/480	7	06/05/2015	19:05	11°00.01'	-45°59.89'	1208	O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/481	8	07/05/2015	02:05	10°50.01'	-44°59.98'	5265	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/482	9	07/05/2015	11:05	11°00.00'	-43°59.96'	1203	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/483	10	07/05/2015	18:05	10°59.97'	-42°59.96'	1217	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/484	11	08/05/2015	12:05	7°44.96'	-41°14.99'	4772	Argo deployment ,O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/485	12	09/05/2015	00:05	9°00.01'	-41°49.96'	2340	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/486	13	09/05/2015	08:05	9°59.99'	-41°59.97'	4205	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/487	14	09/05/2015	15:05	10°44.97'	-41°59.96'	5386	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/488	15	10/05/2015	03:05	11°59.95'	-40°39.98'	5480	Argo deployment ,O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/489	16	10/05/2015	12:05	11°00.02'	-40°59.98'	1200	O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/490	17	10/05/2015	18:05	11°00.03'	-39°59.96'	1208	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/491	18	11/05/2015	01:05	10°59.99'	-37°00.00'	4479	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/492	19	11/05/2015	09:05	10°59.98'	-37°59.97'	1207	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/493	20	12/05/2015	05:05	7°29.92'	-36°59.93'	3910	Argo deployment ,O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/494	21	12/05/2015	16:05	8°59.93'	-36°59.97'	1204	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si

M116_1/495	22	12/05/2015	22:05	10°00.00'	-36°59.99'	1203	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/496	23	13/05/2015	05:05	10°59.96'	-36°59.98'	1210	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/497	24	13/05/2015	12:05	12°00.00'	-35°00.01'	5713	Argo deployment ,O2 ,Nutrients ,SF6 ,SF5 ,CFC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/498	25	13/05/2015	23:05	10°59.99'	-34°00.00'	5346	O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/499	26	14/05/2015	08:05	10°59.99'	-33°00.01'	1203	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/500	27	14/05/2015	14:05	10°59.98'	-33°59.96'	1202	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/501	28	14/05/2015	21:05	10°59.98'	-31°00.00'	5797	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/502	29	15/05/2015	06:05	10°59.98'	-31°59.99'	1203	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/503	30	15/05/2015	13:05	11°00.00'	-30°59.95'	1203	O2 ,Nutrients ,DNA ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/504	31	16/05/2015	15:05	5°59.97'	-29°59.97'	4049	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/505	32	16/05/2015	23:05	7°00.00'	-28°00.00'	4409	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/506	33	17/05/2015	08:05	7°59.97'	-28°00.01'	5195	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/507	34	17/05/2015	17:05	8°59.99'	-28°00.03'	5300	Argo deployment ,O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/508	35	18/05/2015	01:05	9°59.98'	-29°59.99'	5332	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/509	36	18/05/2015	10:05	10°59.98'	-28°00.00'	5796	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/510	37	18/05/2015	19:05	11°53.96'	-29°56.39'	5760	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/511	38	19/05/2015	08:05	13°00.01'	-28°00.00'	1216	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/512	39	19/05/2015	14:05	13°59.95'	-29°59.98'	1220	O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/513	40	20/05/2015	07:05	10°59.95'	-27°00.01'	1203	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/514	41	20/05/2015	14:05	10°59.95'	-27°59.92'	1213	O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/515	42	20/05/2015	20:05	10°59.96'	-26°59.97'	4004	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/516	43	21/05/2015	05:05	10°59.95'	-25°59.97'	1203	O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC

							,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/517	44	21/05/2015	15:05	11°32.93'	-23°00.47'	4014	Argon sample
M116_1/518	45	21/05/2015	20:05	11°59.97'	-24°59.96'	1263	O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/519	46	22/05/2015	03:05	10°59.94'	-24°59.93'	1201	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/520	47	22/05/2015	09:05	10°00.04'	-23°00.01'	1202	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/521	48	22/05/2015	16:05	8°59.89'	-23°00.04'	1203	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/522	49	22/05/2015	22:05	8°00.01'	-24°59.97'	2210	Argo deployment ,O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/523	50	23/05/2015	05:05	6°59.99'	-23°00.00'	1208	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/524	51	23/05/2015	14:05	7°59.98'	-23°59.99'	1204	O2 ,SF6 ,SF5 ,CFC ,Salinity
M116_1/525	52	23/05/2015	21:05	8°59.98'	-23°59.98'	1201	O2 ,SF6 ,SF5 ,CFC ,Salinity ,Plankton Net haul
M116_1/526	53	24/05/2015	04:05	9°59.98'	-22°00.07'	1202	SF6 ,SF5 ,CFC ,Salinity
M116_1/527	54	24/05/2015	10:05	11°00.01'	-22°00.00'	4002	O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/528	55	24/05/2015	14:05	11°14.97'	-23°59.98'	4006	Argon sample
M116_1/529	56	24/05/2015	22:05	11°59.95'	-23°59.98'	1202	O2 ,SF6 ,SF5 ,CFC ,Salinity ,Plankton Net haul
M116_1/530	57	25/05/2015	04:05	11°59.95'	-21°00.00'	2193	Argo deployment ,O2 ,Nutrients ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/531	58	25/05/2015	11:05	11°00.00'	-22°59.98'	1201	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/532	59	25/05/2015	17:05	9°59.95'	-21°00.02'	1208	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/533	60	25/05/2015	23:05	8°59.98'	-21°00.00'	1202	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/534	61	26/05/2015	06:05	7°59.99'	-21°00.02'	2204	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/535	62	26/05/2015	13:05	6°59.93'	-22°59.99'	1211	Argo deployment ,O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si
M116_1/536	63	26/05/2015	20:05	5°59.97'	-21°00.00'	1210	O2 ,Nutrients ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,NO2 ,NO3 ,PO4 ,TA ,Si ,Plankton Net haul
M116_1/537	64	27/05/2015	02:05	5°00.08'	-21°00.28'	1201	O2 ,Nutrients ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,TA
M116_1/538	65	27/05/2015	21:05	7°59.98'	-21°59.97'	1202	O2 ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,Plankton Net haul

M116_1/539	66	28/05/2015	03:05	7°59.94'	-19°00.01'	1203	O2 ,SF6 ,SF5 ,CFC ,Salinity
M116_1/540	67	28/05/2015	09:05	9°00.00'	-19°00.06'	1217	O2 ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity
M116_1/541	68	28/05/2015	16:05	8°59.92'	-20°00.04'	1202	O2 ,SF6 ,SF5 ,CFC ,Salinity
M116_1/542	69	28/05/2015	23:05	9°59.93'	-20°00.00'	1203	O2 ,Nitrogen ,SF6 ,SF5 ,CFC ,Salinity ,Plankton Net haul
M116_1/543	70	29/05/2015	05:05	9°59.97'	-19°00.05'	1206	O2 ,SF6 ,SF5 ,CFC ,Salinity
M116_1/544	71	29/05/2015	14:05	10°59.97'	-18°00.02'	1202	O2 ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,TA
M116_1/545	72	29/05/2015	20:05	10°59.93'	-19°00.01'	4548	O2 ,SF6 ,SF5 ,CFC ,DIC ,TA ,Plankton Net haul
M116_1/546	73	29/05/2015	23:05	10°59.97'	-20°59.97'	1201	
M116_1/547	74	30/05/2015	05:05	10°59.97'	-20°00.01'	1204	O2 ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,DIC ,TA
M116_1/548	75	30/05/2015	12:05	11°59.96'	-20°00.06'	1203	O2 ,SF6 ,SF5 ,CFC ,Salinity
M116_1/549	76	30/05/2015	18:05	11°59.96'	-19°00.01'	4492	O2 ,Nitrogen ,DNA ,SF6 ,SF5 ,CFC ,Salinity ,DIC ,TA ,Plankton Net haul
M116_1/550	77	31/05/2015	09:05	12°59.99'	-21°00.01'	1203	O2 ,DNA ,SF6 ,SF5 ,CFC ,DIC ,TA
M116_1/551	78	31/05/2015	16:05	13°59.93'	-22°59.95'	1203	O2 ,Nitrogen ,SF6 ,SF5 ,CFC ,DIC ,TA
M116_1/552	79	01/06/2015	00:06	14°59.95'	-21°00.00'	1204	O2 ,DNA ,SF6 ,SF5 ,CFC ,DIC ,TA ,Plankton Net haul
M116_1/553	80	01/06/2015	17:06	16°36.51'	-24°51.54'	1004	Glider IFM#12 recovery
M116_1/554	81	02/06/2015	02:06	17°34.89'	-25°42.94'	3642	O2 ,DNA ,SF6 ,SF5 ,CFC ,Plankton Net haul
M116_1/555	82	02/06/2015	06:06	17°34.97'	-25°42.98'	3647	Argon sample
M116_1/556		02/06/2015	09:20	17° 33.29'	-24°16.04'	0	Wave glider recovery