

**Planning meeting**  
**Africana-cruise December 2009**  
**17.6.2009 13<sup>00</sup>**  
**ZMT**

Participants: Werner Ekau, Chris Bartholomae, Beau Tjizoo, Nadine Moroff, Simon Geist, Fritz Buchholz, Thorsten Werner, Anna Schukat, Holger Auel, Hans Verheye, Bettina Martin, Rolf Koppelman, Tim Rixen, Martin Schmidt, Birgit Nagel, Anita Flohr

A brief introduction of the participants was followed by a short presentation on the Africana (slide show).

We started with the presentation of the actual status of the November-workshop planning. The workshop is clashing with a BCC workshop. It has to be clarified if the potential participants of the workshop will also be attending the BCC meeting or if the workshop has to be moved. Detailed report from the workshop committee will follow.

Dates of sailing: final dates cannot yet be confirmed. Departure is still on 1 December 2009, Return on 15 December.

The Ferrybox (O<sub>2</sub>, CO<sub>2</sub>, Nutrients, Chl *y*, Temperature), pCO<sub>2</sub>-system and CUFES will be run continuously during the cruise ! Water flow needed for Ferry box and pCO<sub>2</sub> is 3ltr per min each, CUFES needs 400 ltr per min. The pipe system for CUFES is under reconstruction and will be new at that time.

ADCP will be used permanently and analysed on board.

On the first part of the cruise (Cape Town - Walvis Bay) eight trawl stations are planned with CTD, vertical multinet, oblique multinet, and pelagic fish trawl. A mooring from IOW will be retrieved before entering Walvis Bay.

In Walvis Bay exchange of some crew members will happen (Fishing master and crew from board, Namibians on board).

The second part will start with the deployment of the mooring.

Five transects were identified for station work and ranked accordingly:

1. Walvis Bay line (T8 at 23 °S)
2. Cape Frio line (T5 at 19°S)
3. Lüderitz line (H at 27°S)
4. Orange river line (N at 30°S)
5. Kunene river line (at 17°15'S)

It was agreed that at least five stations per transect should be envisaged.

It was clear that time will not be enough to do the five transects. Priority is given to the first three. If time allows the Orange river line could be done for hydrography (CTD).

Least time is spent for the four transects when starting with T5 from shore to offshore, doing T8 from offshore to onshore, then transect H onshore-offshore and transect N offshore-onshore. Starting with T8 and then doing T5 needs 4-5 hours more steaming time but may fit better into the workflow. This has to be decided on time based on satellite images etc.

The stations will have a routine set of gears consisting of CTD, Apstein net (from ZMT) and vertical and oblique multinet. MOCNESS is foreseen for the outer deep stations, WP2 alternatively on the shelf stations. Eight Tucker Trawl stations on request. Eight multicorer stations are foreseen. Positions have still to be defined.

The map and table give an overview on the positions of the stations and the work planned. At the moment we have about 12 hours spare time at the end of the cruise. A preliminary list of participants was prepared.

#### Container:

Two containers will be necessary, one shipped from Hamburg and one from Bremen. Equipment from IOW goes either to Hamburg or Bremen depending on quantity.

Departure of container: around **1 November 2009**

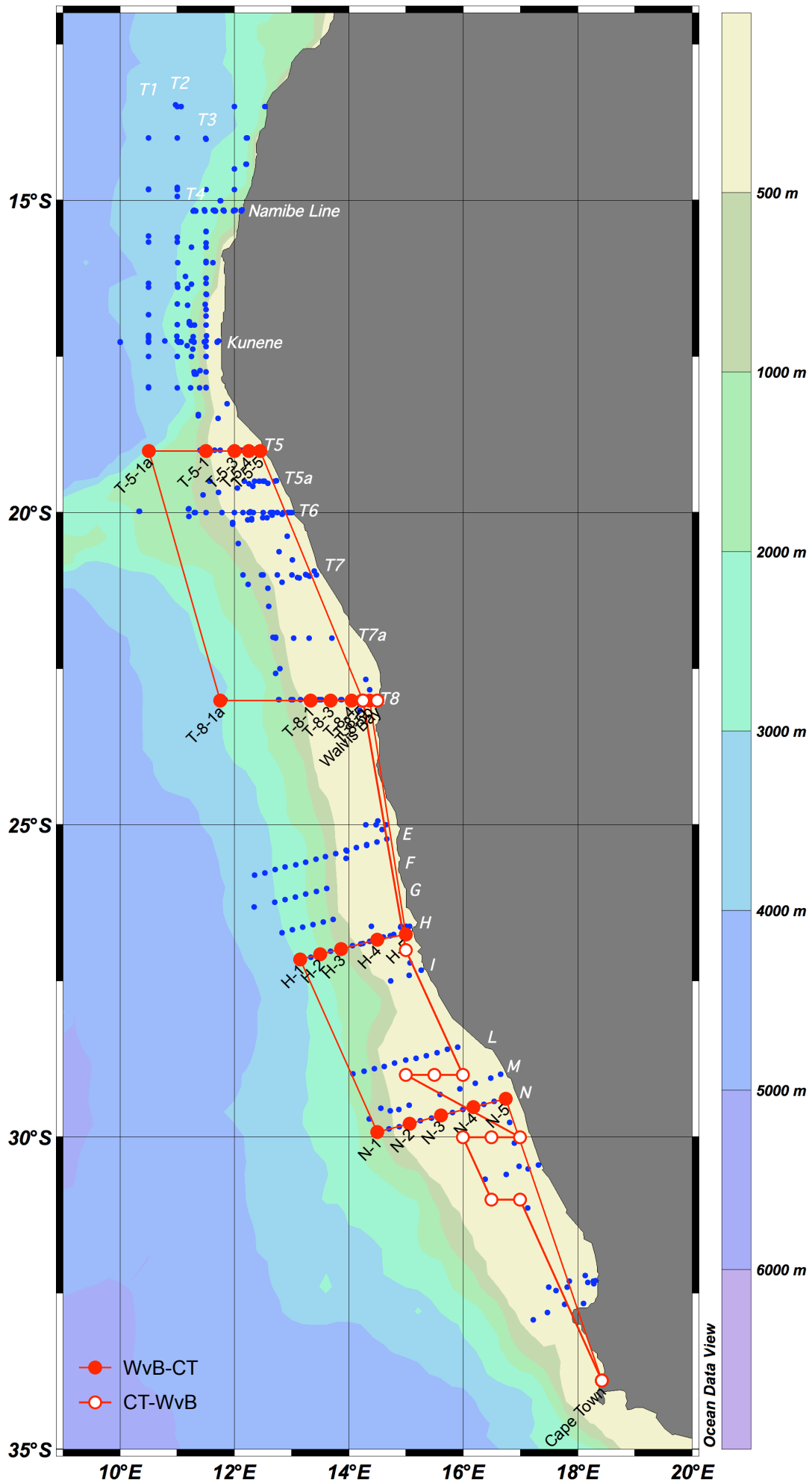
Every institute has to nominate a responsible person to the coordinator for the formalities and customs documents.

Formalin and alcohol may be bought in Cape Town as well as liquid nitrogen.

Transport of frozen samples back from Cape Town will be necessary.

#### Preliminary list of participants Africana cruise Dec 2009

		CT-WVB (15)	WVB-CT (19)
1	AWI	Fritz Buchholz	Fritz Buchholz
2	AWI	Thorsten Werner	Thorsten Werner
3	IfBM	Niko Lahajnar	Niko Lahajnar
4	IfBM		Andreas Neumann
5	IfBM		1
6	IHF	Bettina Martin	Bettina Martin
7	IHF	Sarina Jung	Sarina Jung
8	IOW	Volker Mohrholz	Volker Mohrholz
9	IOW	Toralf Heene	Toralf Heene
10	IOW	Annethea Müller	Annethea Müller
11	MarZoo	Anna Schukat	Anna Schukat
12	MarZoo	Holger Auel	Holger Auel
13	Namibianer	Beau Tjizoo	1
14	Namibianer		1
15	Namibianer		1
16	ZMT-Bio	Werner Ekau	Werner Ekau
17	ZMT-Bio	Simon Geist	Simon Geist
18	ZMT-Biogeo	Anita Flohr	Anita Flohr
19	ZMT-Biogeo	Tim Rixen	Tim Rixen
	Summe	15	19
1	MCM	Hans Verheye	Hans Verheye
2	MCM (Electronics)	Hermann Engel	Hermann Engel
3	MCM (CTD,ADCP)	Tammy Morris	Tammy Morris
4	MCM (lipid student)	Mutshutshu Tsanwani	student
5	MCM	Fishing master	
6	MCM	crew (fisheries)	
7	MCM	crew (fisheries)	



CT - WB WB - CT	stat	Lat	Long	Start of station UTC	Water depth	Distance (nm)	Time at sta- tion	End of station	Geräte											11
									30 45	30 45	30 45	30 45	0	30	120	45	120	45	180	
										CTD	MNV	MNo	TT	Phyto	WP2	MOC	Multi core floorin	Fish trawl		
<b>Cape Town</b>	<b>33°54'</b>	<b>18°26'</b>	<b>1.12.2009 08:00</b>																	
Fi-1	31°00'	17°00'	2.12.2009 01:08	<500	188,53	135	2.12.2009 03:23			1	1	1						1		
Fi-2	31°00'	16°30'	2.12.2009 05:43	<500	25,72	105	2.12.2009 07:28			1	1	1						1		
Fi-3	30°00'	16°00'	2.12.2009 13:24	<500	65,33	135	2.12.2009 15:39			1	1	1						1		
Fi-4	30°00'	16°30'	2.12.2009 18:01	<500	25,98	105	2.12.2009 19:46			1	1	1						1		
Fi-5	30°00'	17°00'	2.12.2009 22:08	<500	25,98	135	3.12.2009 00:23			1	1	1						1		
Fi-6	29°00'	15°00'	3.12.2009 11:20	<500	120,45	135	3.12.2009 13:35			1	1	1						1		
Fi-7	29°00'	15°30'	3.12.2009 15:58	<500	26,24	105	3.12.2009 17:43			1	1	1						1		
Fi-8	29°00'	16°00'	3.12.2009 20:06	<500	26,24	135	3.12.2009 22:21			1	1	1						1		
	27°00'	15°00'	4.12.2009 10:17		131,17	0	4.12.2009 10:17													
	23°00'	14°15'	5.12.2009 08:24		243,44	120	5.12.2009 10:24											1		
<b>Walvis Bay</b>	<b>23°00'</b>	<b>14°30'</b>	<b>5.12.2009 11:40</b>																	
	23°00'	14°15'	5.12.2009 15:55		13,81	180	5.12.2009 18:55											1		
T-5-5	19°00'	12°27'	6.12.2009 18:35	37	260,32	195	6.12.2009 21:50			1	1	1						1		
T-5-4	19°00'	12°15'	6.12.2009 22:52	111	11,35	150	7.12.2009 01:22			1	1	1						1		
T-5-3	19°00'	12°00'	7.12.2009 02:39	211	14,18	330	7.12.2009 08:09			1	1	1						1		
T-5-1	19°00'	11°30'	7.12.2009 10:44	400	28,37	285	7.12.2009 15:29			1	1	1						1		
T-5-1a	19°00'	10°30'	7.12.2009 20:38	3000	56,73	263	8.12.2009 01:01			1	1	1						1		
T-8-1a	23°00'	11°45'	8.12.2009 23:45	3000	250,01	285	9.12.2009 04:30			1	1	1						1		
T-8-1	23°00'	13°20'	9.12.2009 12:27	356	87,45	285	9.12.2009 17:12			1	1	1						1		
T-8-3	23°00'	13°41'	9.12.2009 18:57	154	19,33	195	9.12.2009 22:12			1	1	1						1		
T-8-4	23°00'	14°03'	10.12.2009 00:02	132	20,25	150	10.12.2009 02:32			1	1	1						1		
T-8-5	23°00'	14°14'	10.12.2009 03:28	104	10,13	195	10.12.2009 06:43			1	1	1						1		
T-8-5b	23°00'	14°22'	10.12.2009 07:23	47	7,36	195	10.12.2009 10:38			1	1	1						1		
H-5	26°45'	15°00'	11.12.2009 07:19	47	227,63	173	11.12.2009 10:12			1	1	1						1		
H-4	26°50'	14°30'	11.12.2009 12:41	200	27,24	195	11.12.2009 15:56			1	1	1						1		
H-3	26°59'	13°52'	11.12.2009 19:07	500	35,06	330	12.12.2009 00:37			1	1	1						1		
H-2	27°04'	13°30'	12.12.2009 02:27	2000	20,23	285	12.12.2009 07:12			1	1	1						1		
H-1	27°09'	13°09'	12.12.2009 08:58	3000	19,35	285	12.12.2009 13:43			1	1	1						1		
N-1	29°55'	14°30'	13.12.2009 06:08	1000	180,61	45	13.12.2009 06:53			1										
N-2	29°47'	15°04'	13.12.2009 09:39	450	30,56	45	13.12.2009 10:24			1										
N-3	29°39'	15°37'	13.12.2009 13:07	300	29,76	45	13.12.2009 13:52			1										
N-4	29°31'	16°11'	13.12.2009 16:39	200	30,63	45	13.12.2009 17:24			1										
N-5	29°23'	16°45'	13.12.2009 20:11	100	30,67	45	13.12.2009 20:56			1										
<b>Cape Town</b>	<b>33°54'</b>	<b>18°26'</b>	<b>14.12.2009 22:47</b>		<b>284,31</b>		<b>14.12.2009 22:47</b>			<b>1</b>										
				Total			1.927			26	20	24	8	16	8	8	8	2	8	