	FOR COLLATIMG CENTRE USE								
CRUISE SUMMARY REPORT	Centre: DOD Ref. No.:								
	Is data exchange restricted Yes In part No								
SHIP enter the full name and international radio call sign of the ship from which the data were collected, and indicate the type of ship, for example, research ship; ship of opportunity, naval survey vessel; etc.									
Name: <u>RV Alkor</u>	Call Sign: <u>DBND</u>								
Type of ship: <u>research vessel</u>									
CRUISE NO. / NAME Alkor 267	enter the unique number, name or acronym assigned to the cruise (or cruise leg, if appropriate).								
CRUISE PERIOD start (set sail) day/ month/ year to 03/10/2005 day/ month/ year (return	end to port)								
PORT OF DEPARTURE (enter name and country) Kiel, Germany									
PORT OF RETURN (enter name and country) Kiel, Germany									
RESPONSIBLE LABORATORY enter name and address of the laboratory responsible for coodinating the scientific planning of the cruise									
Name: Max Planck Institute for Marine Microbiology									
Address: <u>Celsiusstr 1</u>									
Country: <u>D-28359 Bremen</u>									
CHIEF SCIENTIST(S) enter name and laboratory of the person(s) in charge of	the scientific work (chief of mission) during the cruise.								
Prof. Antje Boetius, MPI/IUB/AWI									
OBJECTIVES AND BRIEF NARRATIVE OF CRUISE enter sufficient in as to provide the	formation about the purpose and nature of the cruise so context in which the report data were collected.								
This cruise contributed to the BMBF Geotechnology project MUN	IM and the EU Project EXOCET								
(Extreme ecosystem studies in the deep ocean: Technological D	evelopments) as well as to the								
Objectives of the virtual institute "Marlech" of the Helmholtz four EXOCET and MarTech are projects of the collaboration between	ndation. MPI, AWI and the University Bremen.								
In the framework of the previous EU Project METROL in the Nort	h Sea the question was addressed								
now methane turnover is controlled in shallow gassy sediments. Objectives of Exocet and MarTech are testing of underwater technology, including payloads of two platforms. the ROV Cherokee and the									
underwater benthic crawler MOVE. Tasks included	sy sediments								
as well as the characterisation of the geochemical conditions									
B) Collection of gas and sediment from natural gas seeps using ROV pushcores and gas collectors.									
the MOVE crawler									
 D) test of WLAN connection between ship and buoy connected to MOVE E) identification of microorganisms responsible for methane turnover 									
Station work focused on areas already intensively studied in earl information came from Statoil.	ier years by Hovland & Judd (1988). Geographical								
PROJECT (IF APPLICABLE) if the cruise is designated as part of a larger scale cooperative project (or expedition), then enter the name of the project and of organisation responsible for co-ordinating the project.									
Project name: MUMM, EXOCET, MARTECH									
Coordinating body: <u>EU, BMBF, Helmholtz</u>									

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PRINCIPAL INVESTIGATORS: Enter the name and address of the Principal Investigators responsible for the data collected on the cruise and who may be contacted for further information about the data. (The letter assigned below against each Principal Investigator is used on pages 2 and 3, under the column heading 'PI', to identify the data sets for which he/she is responsible)

B. Christoph Waldmann, MARUM University of Bremen, D-28359 Bremen

- C. Michael Schlüter. AWI, D27515 Bremen
- D. _____
- E. _____
- F. _____

MOORINGS, BOTTOM MOUNTED GEAR AND DRIFTING SYSTEMS

This section should be used for reporting moorings, bottom mounted gear and drifting systems (both surface and deep) deployed and/or recovered during the cruise. Separate entries should be made for each location (only deployment positions need be given for drifting systems). This section may also be used to report data collected at fixed locations which are returned to routinely in order to construct 'long time series'.

PI	APPROXIMATE POSITION						DATA TYPE	DESCRIPTION				
See top						enter code(s) from list on cover page.	measured, the number of instruments and their depths, whether deployed a recovered, dates of deployments and/or recovery, and any identifiers given t					
or page.	deg	min	N/S	deg	min	E/W		site.				
		<u> </u>				<u> </u>						
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								Please continue on separate sheet if necessa				

SUMMARY OF MEASUREMENTS AND SAMPLES TAKEN

Except for the data already described on page 2 under 'Moorings, Bottom Mounted Gear and Drifting Systems', this section should include a summary of all data collected on the cruis whether they be measurements (e.g. temperature, salinity values) or samples (e.g. cores, net hauls).

Separate entries should be made for each distinct and coherent set of measurements or samples. Different modes of data collection (e.g. vertical profiles as opposed to underway measurements) should be clearly distinguished, as should measurements/sampling techniques that imply distinctly different accuracy's or spatial/temporal resolutions. Thus, for example, separate entries would be created for i) BT drops, ii) water bottle stations, iii) CTD casts, iv) towed CTD, v) towed undulating CTD profiler, vi) surface water intake measurements, etc.

Each data set entry should start on a new line - it's description may extend over several lines if necessary.

NO, UNITS : for each data set, enter the estimated amount of data collected expressed in terms of the number of 'stations'; miles' of track; 'days' of recording; 'cores' taken; net 'hauls'; balloon 'ascents'; or whatever unit is most appropriate to the data. The amount should be entered under 'NO' and the counting unit should be identified in plain text under 'UNITS'.

DI DI				DESCRIPTION
PI	NO	UNITS	DATA TYPE	Identify, as appropriate, the nature of the data and of the instrumentation/sampling gear and list the parameter measured. Include any supplementary information that may be appropriate, e.g. vertical or horizontal profile
see page 2	see above	see above	Enter code(s) from list on cover page	depth horizons, continuous recording or discrete samples, etc. For samples taken for later analysis on shore, indication should be given of the type of analysis planned, i.e. the purpose for which the samples were taken.
с	2	CH4 sensor	H33 H32	
A	6	Echosounde	G72 G73	
Α	2	mult corer	B16 B72	0
А, В	5	MOVE	G08 B16	
A, C	2	ROV transe	G08 B16	
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	<u>.</u>			Please continue on separate sheet if necessa
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TRACK CHART: You are strongly encouraged to submit, with the completed report, an annotated track chart illustrating the route followed and the points where measurements were taken. Insert a tick(✓) in this box if a track chart is supplied

Page 4 Insert a tick(✓) in

GENERAL OCEAN AREA(S): Enter the names of the oceans and/or seas in which data were collected during the cruise – please use commonly recognised names (see, for example, International Hydrographic Bureau Special Publication No. 23, 'Limits of Oceans and Seas').

Northern North Sea

SPECIFIC AREAS: If the cruise activities were concentrated in a specific area(s) of an ocean or sea, then enter a description of the area(s). Such descriptions may include references to local geographic areas, to sea floor features, or to geographic coordinates. **Please insert here the number of each square in which data were collected from the below given chart**

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THANK YOU FOR YOUR COOPERATION

Please send your completed report without delay to the collating centre indicated on the cover page



Cruise track Alkor 267

Date	Station	Area	Gear	UTC	Start		End	End		depth
				Start	Latitude	Longitude	time	Latitude	Longitude	
25-sep-05	1273-1	Tommeliten	ES	20:20	56° 30,00	3° 10,00	20:49	56° 29,82	2° 85,00	75m
25-sep-05	1273-2	Tommeliten	ES	21:01	56° 30,00	3° 05,00	21:10	56° 29,82	2° 80,00	75m
25-sep-05	1273-3	Tommeliten	ES	21:20	56° 30,00	3° 00,00	21:35	56° 29,82	2° 75,00	75m
25-sep-05	1273-4	Tommeliten	ES	21:38	56° 30,00	2° 55,00	21:49	56° 29,82	2° 70,00	75m
25-sep-05	1274	Tommeliten	ROV	22:22	56° 30,02	2° 59,49	3:59	56° 29,84	2 59,82	75m
26-sep-05	1275/1276	Tommeliten	MOVE	5:25	56° 29,96	2° 59,83	10:35	56° 30,16	3° 00,16	75m
26-sep-05	1277	Tommeliten	CH4-Sensor	12:43	56° 29,78	2° 59,81	14:18	56° 29,98	2° 59,87	75m
26-sep-05	1278	Tommeliten	TV-MUC	16:25	56° 29,94	2° 59,88	16:40	56° 29,92	2° 59,88	75m
26-sep-05	1279	Tommeliten	TV-MUC	17:05	56° 29,93	2° 59,74	17:19	56° 29,92	2° 59,86	75m
28-sep-05	1280	Skudenes fjord	ES	17:35	59° 00,37	5° 41,94	18:28	59° 00,97	5° 42,66	85m
28-sep-05	1281	Skudenes fjord	ROV	18:40	59° 09,27	5° 43,20	21:05	59° 9,33	5° 43,29	85m
28-sep-05	1282	Skudenes fjord	MOVE	6:52	59° 01,11	5° 43,78	11:13	59° 1,20	5° 43,74	85m
28-sep-05	1283	Skudenes fjord	MOVE	13:32	59° 01,31	5° 43,77	17:42	59° 1,33	5° 43,56	85m
28-sep-05	1284	Skudenes fjord	MOVE	19:36	59° 03,69	5° 49,40	20:40	59° 3,69	5° 49,14	85m
28-sep-05	1285	Skudenes fjord	MOVE	22:09	59° 0,89	5° 44,44	0:12	59° 00,86	5° 44,44	35m
30-sep-05	1286	Gullfaks	ES	4:35	61° 10,47	2° 14,57	5:05	61° 10,42	2° 14,50	145m