NOTIFICATION OF PROPOSED RESEARCH CRUISE

GENE				Page 1				
Part A								
<u>01.</u>	Name of research sh	ip: MARIA S. MERIAN		Cruise No. MSM13-1				
02.	Dates of cruise	from 28.09.2009 Rostock		to 22.10.2009 Limassol				
03.	Operating Authority	Instit	ut für Meereskunde /	University of Hamburg				
			lesstr. 53, D-20146 Ha					
		Tel.: -	+49-40-42838-3974 -	Fax: +49-40-42838-46 44				
		Telex	<u>: 212586 ifmhh d</u>					
04.	Owner (if different from para 3)	<u>Fede</u>	ral State Mecklenburg	g-Vorpommern, Germany				
05.	Particulars of ship:	Name		MARIA S. MERIAN				
		Nationality		German				
		Overall length		94,8 metres				
		Maximum draught		6,5 metres				
		Nett tonnage		1750 NRZ				
		Propulsion		Diesel Electric				
		Call s	ign	DBBT				
06.	Crew	Name	of master	von Staa				
		No. of	crew	<u>max. 23</u>				
07.	Scientific personnel:	Name	and address of	Dagmar Hainbucher				
		scient	ist in charge	Institut für Meereskunde				
				University of Hamburg				
				Bundesstr. 53				
				D-20146 Hamburg, Germany				
		Tel./F	ax/Telex No.	+49-42838-5745 /+49-42838-4644				
		No. of	scientists	<u>max.23</u>				
08.	Geographical areas i (with reference in lati Area of interest: 33	itude ar	nd longitude)	– 22°30' E and t ransfer: from				

54°N 9°E along the Dutch, Belgian, French, Portug uese, Spanish, British and

Moroccan coast to the area of interest (Ionian Sea)

- 09. Brief description of purpose of cruise: Transit to the eastern Mediterranean Sea
- 10. Dates and names of intended ports of call: not relevant
- 11. Any special logistic requirements at ports of call: not relevant

Page 2

DETAIL

Part B

- 01. Name of research ship Cruise No. MSM13-1
- 02. Dates of cruise from: 28.09.2009 Rostock to: 22.10.2009 Limassol
- 03. Purpose of research and general operational methods: **Quantification of the**

fractions of deep water masses from the Aegean and Adriatic Seas in the Ionian Deep

Water, changes of deep water mass characteristics. Measurements are carried out by

CTD/ADCP surveys, Argo floats and moorings.

Education of students starting already during the transfer

04. Attach chart showing (on an appropriate scale) the geographical area of the intended work, positions of intended statons, tracks of survey lines, positions of moored / seabed equipment.

see attachment

05. Types of samples required, e.g. Geological / Water / Plankton / Fish / Radioactivity / Isotope

water samples only

and methods by which samples will be obtained (including dredging / coring / drilling).

Shipboard measurements during transfer

06. Details of moored equipment:

D a t e s
Laying Recovery Description Latitude Longitude

Page 3

- 07. Explosives: *no explosives*
 - (a) Type and Trade name
 - (b) Chemical content
 - (c) Dept of Trade class and stowage
 - (d) Size
 - (e) Depth of detonation
 - (f) Frequency of detonation
 - (g) Position in latitude and longitude
 - (h) Dates of detonation
- 08. Detail and reference of
 - (a) Any relevant previous / future cruises

Previous: POS298, M71-3, planned: MERIAN cruise in May 2010

- (b) Any previous published research data relating to the porposed cruise. (Attach separate sheet if necessary.)
 Hainbucher, D., Rubino, A., 2003. Cruise Report, Poseidon Cruise 298, Brindisi-Palermo, 12. May - 28. May 2003. Technical Report 1-2003, Institut für Meereskunde, Universität Hamburg.
 Emeis K-C., 2007. Cruise Report, METEOR Cruise 71-3, Heraklion, Greece – Istanbul, Turkey 17. Jan. - 04. Feb 2007. Expedition brochure M71, Institut für Meereskunde, Universität Hamburg.
 Hainbucher, D., Rubino, A., Klein, B., 2006. Water mass characteristics in the deep layers of the western Ionian Basin observed during May 2003. *Geophys. Res. Lett.*, 33, L05608.
 Rubino, A. and Hainbucher, D., 2007: A large abrupt change in the abyssal water masses of the eastern Mediterranean. *GEOPHYS. RES. LET.*, 34, L23607,doi:10.1029/2007GL031737
- 09. Names and addresses of scientists of the coastal state in whose waters the proposed cruise takes place with whom previous contact has been made.
- 10. State:
 - Whether visitis to the ship in port by scientists of the coastal state concerned will be acceptable.
 Not relevant
 - (b) Whether it will be acceptable to carry on board an observer from the coastal state for any part of the cruise and dates and ports of embarkation / disembarkation.
 Yes, after discussion.
 - (c) When research data from intended cruise is likely to be made available to the coastal state and if so by what means.
 - Cruise Report three months after finishing the research cruise
 - Scientific publication within the following three years

Page 4

COASTAL STATE: Great Britain

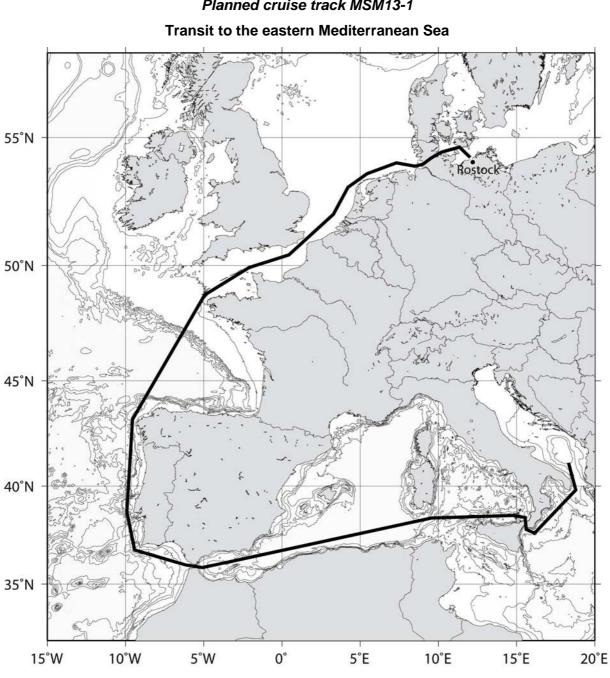
SCIENTIFIC EQUIPMENT

11. Complete the following table - SEPARATE COPY FOR EACH COASTAL STATE

(indicate 'YES' or 'NO')

List of all major Marine Scientific Equipment it is proposed to use and indicate waters in which it will be deployed	Fisheries Research within Fishing Limits	Research concerning Continental Shelf out to Coastal State's	Within 3 NM	Between 3 - 12 NM	Between 12 - 50 NM	Between 50 - 200 NM
		Margin				

a) Shipboard ADCP	No	Yes	No	Yes	Yes	Yes
b) Shipboard Thermosalinograph	No	Yes	No	Yes	Yes	Yes
c) Shipboard meteorological measurements	No	Yes	No	Yes	Yes	Yes



Planned cruise track MSM13-1