

CRUISE REPORT

SHIP UTILIZATION DATA

UNOLS #86021
Rev. 4/85

SHIP NAME R/V OCEANUS	OPERATING INST. W.H.O.I.	PARTICIPATING PERSONNEL			
CRUISE (LEG) NO. 178	DATES 9 Sept.-13 Sept. 1986	<u>CODE</u>	<u>NAME</u>	<u>TITLE</u>	<u>AFFILIATION</u>
AREA OF OPERATIONS: Georges Bank	PORT CALLS:		1. Dr. Michael Bothner	Oceanographer	U.S.G.S.
	<u>PLACE</u>	<u>DATES</u>	Chief Scientist		
	Lv. Woods Hole	9/9/86	2. Gregory P. DiLisio	Geologist	U.S.G.S.
	Ar. Woods Hole	9/13/86	3. D. George Harrison	Oceanographer	U.S.G.S.
			4. Steven J. Mateus	Geologist	U.S.G.S.
DAYS AT SEA 5	DAYS IN PORT 0	Use Page 2 If Additional Space Required.			

WAS RESEARCH CONDUCTED IN FOREIGN WATERS? No COUNTRY: _____
 PRIMARY PROJECTS (those which govern the principal operations, area and movements of the ship)

PROJECT TITLE AND PRINCIPAL INVESTIGATOR	SPONSORING ACTIVITY	GRANT OR CONTRACT NUMBER	PARTICIPATING PERSONNEL (AS CODED ABOVE)
Geochemistry of Offshore Marine Sediments -Dr. M. Bothner	U.S.G.S.	9450-01818	1 through 12
DISCIPLINE Chemistry			

ANCILLARY PROJECTS (which are accomplished on a not-to-interfere basis and contribute to the overall effectiveness of the cruise)

PROJECT TITLE AND PRINCIPAL INVESTIGATOR	SPONSORING ACTIVITY	GRANT OR CONTRACT NUMBER	PARTICIPATING PERSONNEL (AS CODED ABOVE)

SIGNATURE Michael W. Bothner DATE 10/10/86
 CHIEF SCIENTIST

TOTAL SCIENTISTS 10 TOTAL TECHNICIANS 2
 TOTAL GRAD STUDENTS _____ TOTAL STUDENTS/OBSERVERS _____

COST ALLOCATION DATA		
DAYS CHARGED	AGENCY OR ACTIVITY CHARGED	GRANT OR CONTRACT NO.
5 days <i>AM</i>	U.S. Geological Survey	OCE 83-16601

SIGNATURE George Price DATE Oct. 15, 1986

ATTACH PAGE SIZE CRUISE TRACK

R/V OCEANUSCruise No. 178

PARTICIPATING PERSONNEL (Cont.)

<u>CODE</u>	<u>NAME</u>	<u>TITLE</u>	<u>AFFILIATION</u>
5.	John A. Moody	Oceanographer	U.S. Geological Survey
6.	Carol M. Parmenter	Geologist	U.S. Geological Survey
7.	Richard R. Rendigs	Geologist	U.S. Geological Survey
8.	Mary E. Shoukimas	Technician	U.S. Geological Survey
9.	William S. Strahle	Electronic Engineer	U.S. Geological Survey
10.	William J. Winters	Civil Engineer	U.S. Geological Survey
11.	Patricia E. Hughes	Biologist	Coastal Zone Management
12.	Rosemarie F. Petrecca	Research Assistant	Woods Hole Oceanographic Institution
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Oceanus Cruise 178
9-13 Sept. 1986

