

CRUISE REPORT

78030

P. C. Valentine, U. S. Geological Survey
Woods Hole, Mass. 02543

CRUISE: RV LULU Cruise 101 (Woods Hole to Woods Hole)
DS/RV ALVIN Dives 835-840.

SPONSOR: National Marine Fisheries Service, Woods Hole, Mass.

AREA: Oceanographer Canyon (southeastern margin of Georges Bank).

DATE: September 22-October 1, 1978.

SCIENTIFIC PARTY: Chief Scientist: J. R. Uzmann, National Marine Fisheries Service
P. C. Valentine, U. S. Geological Survey
S. Cobb, University of Rhode Island

SHIP'S CAPTAIN: James Boord, Woods Hole Oceanographic Institution.

PURPOSE: To make faunal surveys, geological observations, and collect rock
samples from the walls of Oceanographer Canyon.

DS/RV ALVIN DIVE STATISTICS: See attached sheet.

GEOLOGICAL SAMPLES COLLECTED:

ALVIN Dive 835, west wall of Oceanographer Canyon

- USGS 5121: Water depth 690 m; core sample; soft, olive-green silty clay; late Quaternary age (calc. nannofossils).
- USGS 5122: Water depth 645 m; core sample; stiff, dark gray-green clay; late Quaternary age (calc. nannofossils).
- USGS 5123: Water depth 645 m; rock sample; stiff, dark gray-green clay; late Quaternary age (calc. nannofossils).

ALVIN Dive 836, east wall of Oceanographer Canyon

- USGS 5124: Water depth 1255 m; core sample; soft, olive-green to blue-gray silty clay; Late Cretaceous (Santonian) age (calc. nannofossils).
- USGS 5125: Water depth 1255 m; rock sample; slightly indurated, friable, olive-green clayey silt; Late Cretaceous (Santonian) age (calc. nannofossils).
- USGS 5126: Water depth 1162 m; core sample; stiff, dark gray-green clay; Late Cretaceous (Santonian) age (calc. nannofossils).
- USGS 5127: Water depth 1142 m; rock sample; slightly indurated, olive-green clayey silt; Late Cretaceous (Santonian) age (calc. nannofossils).
- USGS 5128: Water depth 1125 m; rock sample; soft, olive-green silty clay; Late Cretaceous (Santonian) age (calc. nannofossils).

R. V. LULU Cr. No.	Date	P.R.V. ALVIN Dive No.	Oceanographer Canyon Location	Sponsor/Purpose	PIC/CP	Obs.	Time			Depth M/ft.	Remarks
							Dive	Surf	Sub.		
101	9/24/78	835 VSC	40°27.1'N 68°08.2'W Bad data	37342.5 W.C. 70341.3	R. HOLLIS	J. UZMANN P. VALENTINE	1329	1745	4:16	690	
	9/25/78	836 VSC	40°17.7'N 68°07.4'W		L. SHUMAKER	J. UZMANN S. COBB	1331	1801	4:30	1295	
	9/26/78	837	40°27.4'N 68°08.9'W		R. HOLLIS	J. UZMANN S. COBB	1623	1929	3:06	354M	
	9/27/78	838	40°11.1'N 68°04.7'W		L. SHUMAKER	J. UZMANN P. VALENTINE	1101	1729	6:28	1857	
	9/28/78	839	40°25.0'N 68°08.5'W		R. HOLLIS	J. UZMANN P. VALENTINE	1106	1717	6:11	516	
	9/30/78	840	40°20.8'N 68°08.9'W		L. SHUMAKER G. ELLIS	J. COBB	0934	1333	3:59	946	