

CRUISE REPORT

UNOLS 12/89

Ship Utilization Data

1. Ship Name R/V MAURICE EWING		2. Operating Institution Lamont-Doherty Geological Observatory		3. Cruise (leg) Number ME 90-01	
4. Dates of Project: Begin: 6/13/90 End: 6/19/90		7. Participating Personnel: Code Title Name Institution		Function on Cruise (Ch.Sci.,Obs.,Tech.,Grad. Student, Undergrad, For.Obsv.)	
Port Calls Place Date		1 Dr. John Diebold L-DGO		Ch. Sci.	
New Orleans, LA Yard period 6/13/90		2 Mr. James A. Smith L-DGO		Technician	
Miami, FL 6/18/90 6/19/90		3 Ms. M. A. Winslow L-DGO		Scientist	
		4 Mr. Dale N. Chayes L-DGO		Technician	
		5 Mr. Joseph Greer L-DGO		Technician	
		6 Mr. S. Budhypramon L-DGO		Technician	
		7 Roger DePietro L-DGO		Technician	
		8 Mr. Steve LaBrecque L-DGO		Technician	
		9 Mr. Peter Lemmond URI		Technician	
		10 Mr. M. Iltzsche L-DGO		Technician	
		11 Mr. Ruben Smith L-DGO		Technician	
		12 Mr. J. DiBernardo L-DGO		Technician	
		13 Mr. B. Kuettel Eq.Controls Ltd.		Technician	
		14 Mr. K. Daigle Hydro Conn.		Technician	
		15 Mr. G. Maggiar Am.Bur.Shipping		Technician	
		16 Mr. R. Ricca Equitable Yard		Technician	
		17 Mr. M. Walsh Equitable Yard		Technician	
		18 Mr. C. Broomfield Equitable Yard		Technician	
		19 Mr. D. Tillery Equitable Yard		Technician	
		20 J. Stennett L-DGO		Technician	
5. Number, Sea Days 6. Number, Port Days		Use reverse of necessary			
6 1					
8a. Area of Operations, Area Index and Geographic Description NA9 North Atlantic					
8b. Research in Foreign Waters?_NO__ Country:					

9. Primary Project(s)

a. Project Title,Principal Investigator,Institution	b.Sponsoring Agency/	c.Grant or Contract	d.Participating Personnel	ee. Discipline
Shakedown John Diebold L-DGO				OT

10. Ancillary Project(s)

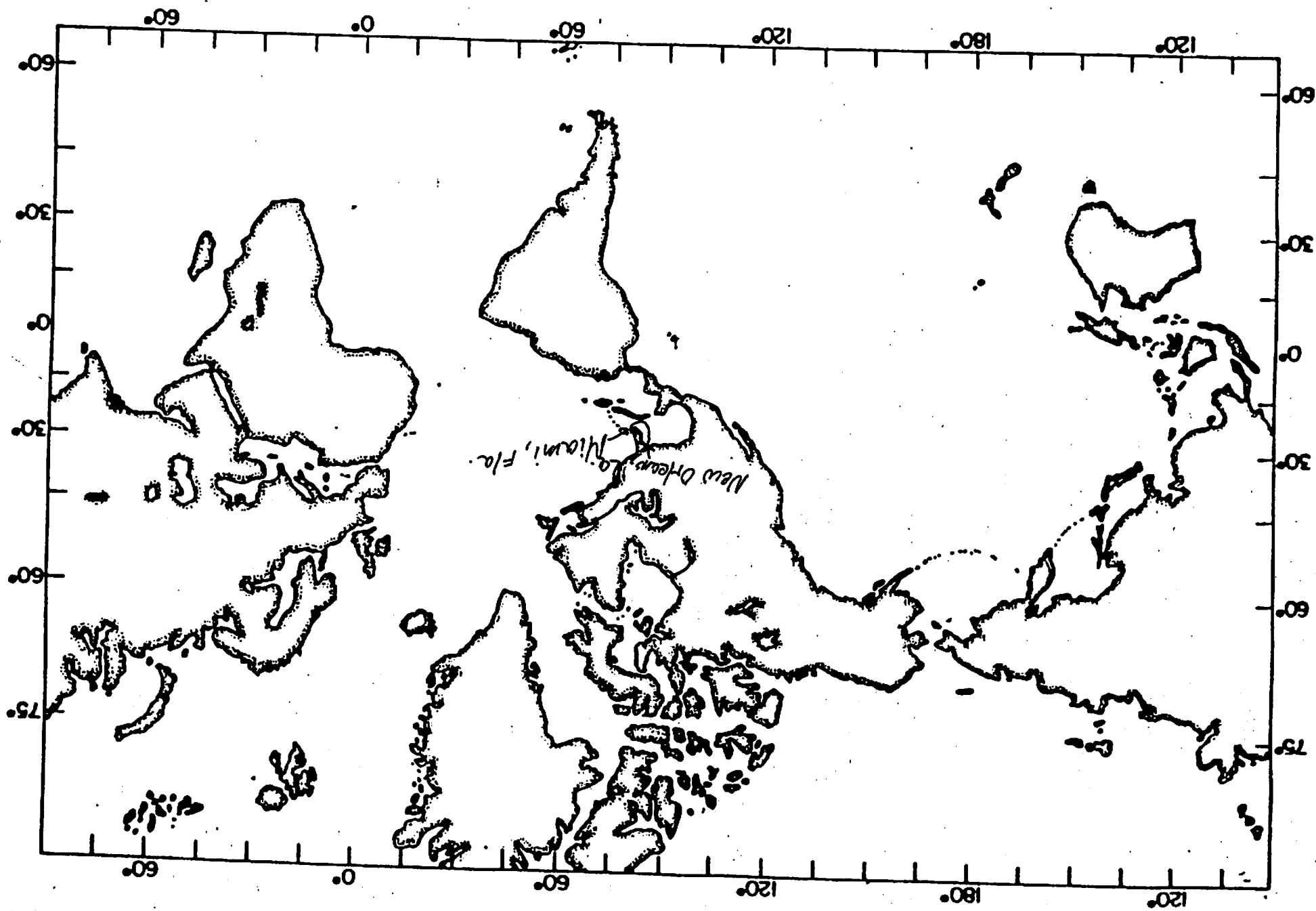
a. Project Title,Principal Investigator,Institution	b.Sponsoring Agency/	c.Grant or Contract	d.Participating Personnel	ee. Discipline

11. Science Party:		12. Cost Allocation Data	
Scientists__2__ Grad. Students__	a. Days Charged	b. Agency or Activity Charged	c. Grant or Contract No.
Undergrads__ Technicians__18__	7	NSF	OCE 90-01169
Observers__			
Foreign Observers__			

13 Michael Rawson, Marine Science Coordinator Lamont-Doherty Geological Observatory Palisades, NY 10964 Title, Signature, Operating Institution Official	Dec. 7, 1990 Date
--	----------------------

Leg ME 90-01

Appendix C



10/10/10
10/10/10
10/10/10
10/10/10

10/10/10
10/10/10
10/10/10
10/10/10

10/10/10
10/10/10
10/10/10
10/10/10

10/10/10
10/10/10
10/10/10
10/10/10

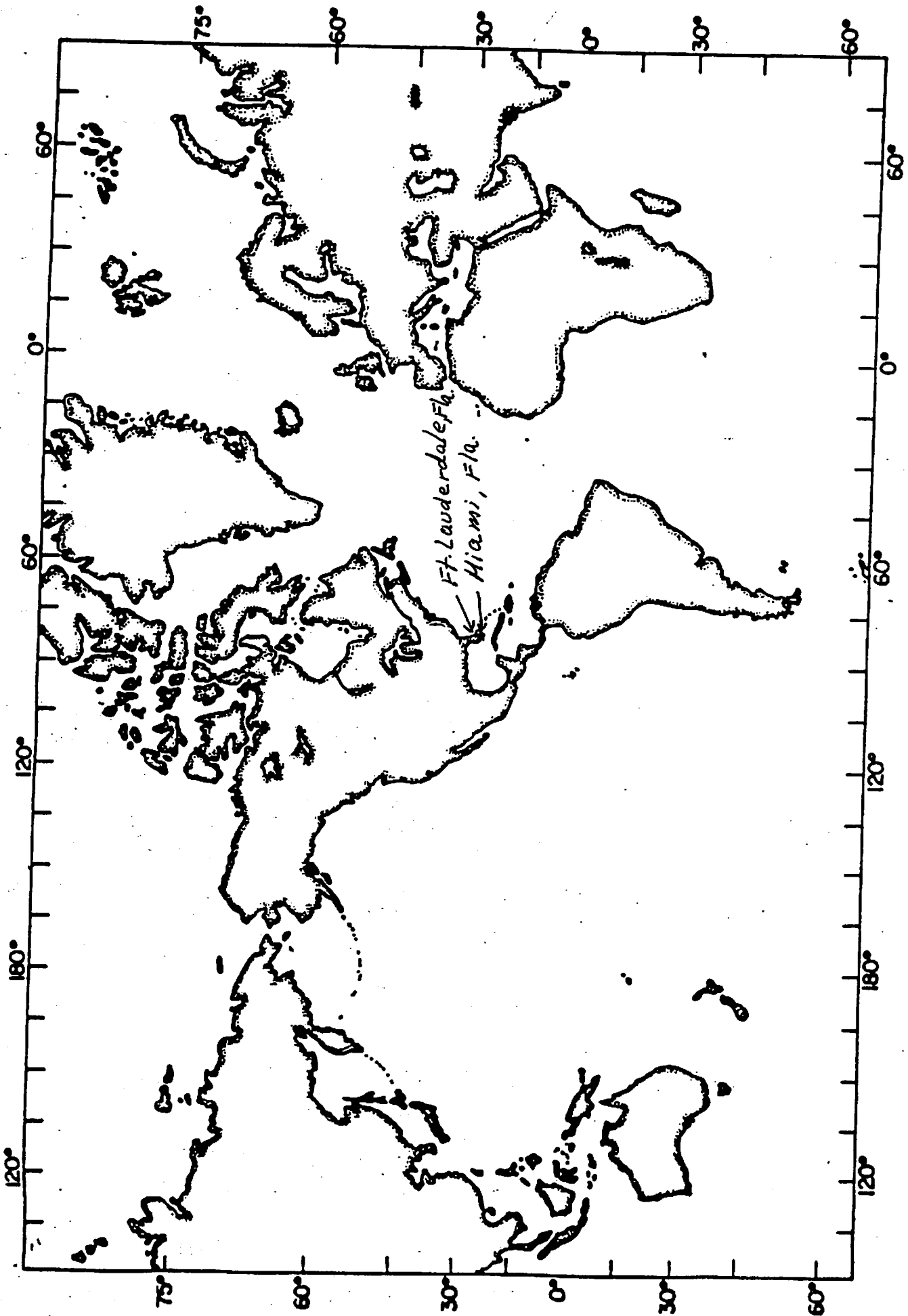
10/10/10
10/10/10
10/10/10
10/10/10

CRUISE REPORT

UNOLS 12/89

Ship Utilization Data

1. Ship Name R/V MAURICE EWING		2. Operating Institution Lamont-Doherty Geological Observatory		3. Cruise (leg) Number ME 90-02																																																																																																													
4. Dates of Project: Begin: 6/20/90 End: 6/24/90		7. Participating Personnel: Function on Cruise (Ch.Sci.,Obs.,Tech.,Grad. Student, Undergrad, For.Obsv.) Dates (If less than entire cruise)																																																																																																															
Port Calls Place Date Miami, FLA 6/18/90 6/20/90 Ft.Lauderdale, FLA 6/24/90 6/25/90		<table border="1"> <thead> <tr> <th>Code</th> <th>Title</th> <th>Name</th> <th>Institution</th> <th>Function on Cruise</th> <th>Dates</th> </tr> </thead> <tbody> <tr><td>1</td><td>Dr. John Diebold</td><td></td><td>L-DGO</td><td>Ch. Sci.</td><td></td></tr> <tr><td>2</td><td>Mr. James A. Smith</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>3</td><td>Mr. Joseph Stennett</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>4</td><td>Dr. Phillip Froelich</td><td></td><td>L-DGO</td><td>Scientist</td><td></td></tr> <tr><td>5</td><td>Mr. Dale Chayes</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>6</td><td>Dr. Wm. Menka</td><td></td><td>L-DGO</td><td>Scientist</td><td></td></tr> <tr><td>7</td><td>Dr. A. Malinverno</td><td></td><td>L-DGO</td><td>Scientist</td><td></td></tr> <tr><td>8</td><td>Mr. Joseph Coop</td><td></td><td>L-DGO</td><td>Student</td><td></td></tr> <tr><td>9</td><td>Mr. Joseph Greer</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>10</td><td>Mr. S. Budhypramo</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>11</td><td>Mr. Roger Depietre</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>12</td><td>Mr. M. Iltzsche</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>13</td><td>Mr. Rubin Smith</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>14</td><td>Mr. J. DiBernardo</td><td></td><td>L-DGO</td><td>Technician</td><td></td></tr> <tr><td>15</td><td>Mr. Gunter Larsen</td><td></td><td>KAE</td><td>Technician</td><td></td></tr> <tr><td>16</td><td>Mr. M. Braun</td><td></td><td>KAE</td><td>Technician</td><td></td></tr> <tr><td>17</td><td>Mr. J. Uhrbrock</td><td></td><td>KAE</td><td>Technician</td><td></td></tr> </tbody> </table>				Code	Title	Name	Institution	Function on Cruise	Dates	1	Dr. John Diebold		L-DGO	Ch. Sci.		2	Mr. James A. Smith		L-DGO	Technician		3	Mr. Joseph Stennett		L-DGO	Technician		4	Dr. Phillip Froelich		L-DGO	Scientist		5	Mr. Dale Chayes		L-DGO	Technician		6	Dr. Wm. Menka		L-DGO	Scientist		7	Dr. A. Malinverno		L-DGO	Scientist		8	Mr. Joseph Coop		L-DGO	Student		9	Mr. Joseph Greer		L-DGO	Technician		10	Mr. S. Budhypramo		L-DGO	Technician		11	Mr. Roger Depietre		L-DGO	Technician		12	Mr. M. Iltzsche		L-DGO	Technician		13	Mr. Rubin Smith		L-DGO	Technician		14	Mr. J. DiBernardo		L-DGO	Technician		15	Mr. Gunter Larsen		KAE	Technician		16	Mr. M. Braun		KAE	Technician		17	Mr. J. Uhrbrock		KAE	Technician	
Code	Title	Name	Institution	Function on Cruise	Dates																																																																																																												
1	Dr. John Diebold		L-DGO	Ch. Sci.																																																																																																													
2	Mr. James A. Smith		L-DGO	Technician																																																																																																													
3	Mr. Joseph Stennett		L-DGO	Technician																																																																																																													
4	Dr. Phillip Froelich		L-DGO	Scientist																																																																																																													
5	Mr. Dale Chayes		L-DGO	Technician																																																																																																													
6	Dr. Wm. Menka		L-DGO	Scientist																																																																																																													
7	Dr. A. Malinverno		L-DGO	Scientist																																																																																																													
8	Mr. Joseph Coop		L-DGO	Student																																																																																																													
9	Mr. Joseph Greer		L-DGO	Technician																																																																																																													
10	Mr. S. Budhypramo		L-DGO	Technician																																																																																																													
11	Mr. Roger Depietre		L-DGO	Technician																																																																																																													
12	Mr. M. Iltzsche		L-DGO	Technician																																																																																																													
13	Mr. Rubin Smith		L-DGO	Technician																																																																																																													
14	Mr. J. DiBernardo		L-DGO	Technician																																																																																																													
15	Mr. Gunter Larsen		KAE	Technician																																																																																																													
16	Mr. M. Braun		KAE	Technician																																																																																																													
17	Mr. J. Uhrbrock		KAE	Technician																																																																																																													
5. Number, Sea Days 4		6. Number, Port Days 1																																																																																																															
8a. Area of Operations, Area Index and Geographic Description NA9 North Atlantic																																																																																																																	
8b. Research in Foreign Waters?_NO__ Country:																																																																																																																	
Use reverse of necessary																																																																																																																	
9. Primary Project(s)																																																																																																																	
a. Project Title,Principal Investigator,Institution Shakedown John Diebold L-DGO		b.Sponsoring Agency/		c.Grant or Contract d.Participating Personnel ee. Discipline OT																																																																																																													
10. Ancillary Project(s)																																																																																																																	
a. Project Title,Principal Investigator,Institution		b.Sponsoring Agency/		c.Grant or Contract d.Participating Personnel ee. Discipline																																																																																																													
11. Science Party: Scientists_4__ Grad. Students_1__ Undergrads____ Technicians_12__ Observers____ Foreign Observers____		12. Cost Allocation Data a. Days Charged b. Agency or Activity Charged c. Grant or Contract No. 5 NSF OCE 90-01169																																																																																																															
13 Michael Rawson, Marine Science Coordinator Lamont-Doherty Geological Observatory Palisades, NY 10964 Title, Signature, Operating Institution Official				Dec. 7, 1990 Date																																																																																																													



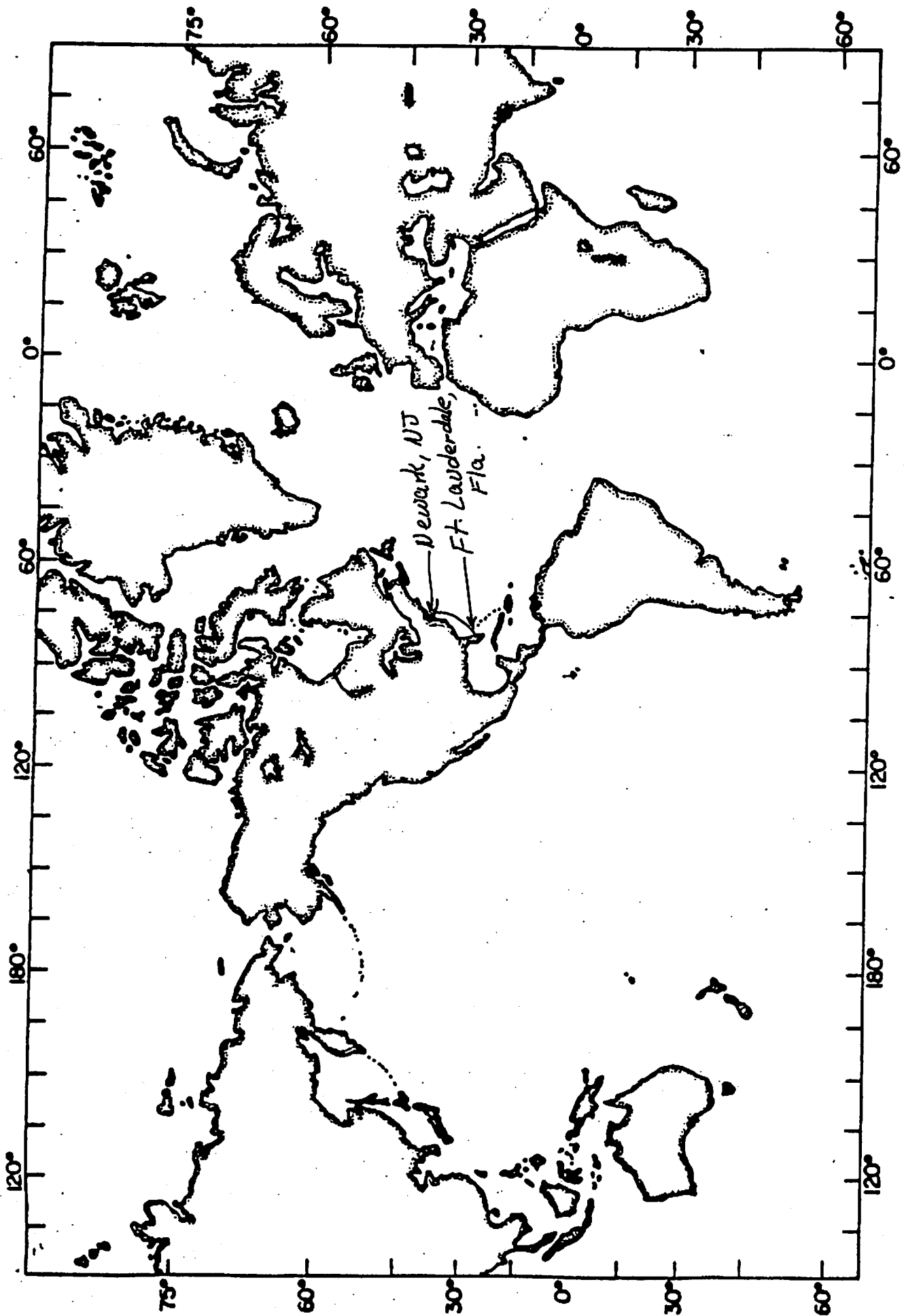
Leg ME 90-02

CRUISE REPORT

UNOLS 12/89

Ship Utilization Data

1. Ship Name R/V MAURICE EWING		2. Operating Institution Lamont-Doherty Geological Observatory		3. Cruise (leg) Number 90-03	
4. Dates of Project: Begin: 6/25/90 End: 7/3/90		7. Participating Personnel: Function on Cruise (Ch.Sci.,Obs.,Tech.,Grad. Student, Undergrad, For.Obsv.) Dates (If less than entire cruise)			
Port Calls Place Date		Code Title Name Institution			
Ft.Lauderdale, FL/ 6/24/90 6/25/90		1. Mr. John Diebold L-DGO Ch. Sci.			
Newark, NJ 7/2/90 7/6/90		2. Mr. James Smith L-DGO Technician			
		3. Mr. J. Stennett L-DGO Technician			
		4. Mr. Dale Chayes L-DGO Technician			
		5. Mr. J. Austin UTIG Scientist			
		6. Dr. W. Menka L-DGO Scientist			
		7. Dr. A. Malinverno L-DGO Scientist			
		8. Mr. L. Pratson L-DGO Student			
		9. Mr. J. Coop L-DGO Student			
		10. Mr. J. Greer L-DGO Technician			
		11. Mr. S. Budhypramor L-DGO Technician			
		12. Mr. R. Depietro L-DGO Technician			
		13. Mr. S. LaBrecque L-DGO Technician			
		14. Mr. M. Iltzsche L-DGO Technician			
		15. Mr. R. Smith L-DGO Technician			
		16. Mr. J. DiBernardo L-DGO Technician			
5. Number, Sea Days 6. Number, Port Days		Use reverse of necessary			
7 2					
8a. Area of Operations, Area Index and Geographic Description NA9 North Atlantic					
8b. Research in Foreign Waters? _NO_					
Country:					
9. Primary Project(s)					
a. Project Title, Principal Investigator, Institution		b. Sponsoring Agency/		c. Grant or Contract d. Participating Personnel ee. Discipline	
Shakedown John Diebold L-DGO NSF		OCE 90-01169		OT	
10. Ancillary Project(s)					
a. Project Title, Principal Investigator, Institution		b. Sponsoring Agency/		c. Grant or Contract d. Participating Personnel ee. Discipline	
Blake Plateau William Ryan DMSS Tow		CNR		N00014-87-K-0204 Scope BMS GG	
11. Science Party:		12. Cost Allocation Data			
Scientists_4___ Grad. Students_2___		a. Days Charged		b. Agency or Activity Charged c. Grant or Contract No.	
Undergrads___ Technicians_10___		3		CNR N00014-87-K0204	
Observers___		6		NSF OCE 90-01169	
Foreign Observers___					
13					
Michael Rawson, Marine Science Coordinator Lamont-Doherty Geological Observatory Palisades, NY 10964 Title, Signature, Operating Institution Official		Dec. 7, 1990 Date			



Leg ME 90-03

R/V EWING legs 90-01, 90-02 and 90-03

Cruise Report

These three legs comprised the NSF-funded, post-refit shakedown of UNOLS vessel R/V EWING, formerly known as MV BERNIER. The ship left the Trinity Marine (Equitable) shipyard in New Orleans on 13 June 1990, and arrived at Port Newark on 2 July. In the intervening period, the EWING's major systems, both operational and scientific, were tested and adjusted. Virtually all of the scientific equipment was either new, or "crossdecked" from CONRAD, a process that in some cases involved major modifications. Setting up and testing these systems was crucial to the future usefulness of the ship. In addition, many details of the various scientific hydraulics systems, uncompleted at the shipyard due to the diversion of effort to correcting the rudder control system, were finished during the shakedown.

90-01: Following an 8:00 am departure from Equitable, 50 hours were spent conducting sea trials in the presence of shipyard representatives. A further seven hours were spent making maneuvering tests. It was demonstrated that the new Becker articulated rudder provides the EWING with an extremely small turning radius. During the remaining 68 hours of this leg, installation of the core winch hydraulics was completed and the deep-tow conductor wire was streamed and retensioned. The single channel seismic [SCS] compressor installation was completed, and the compressor, high pressure air piping and receivers were tested. It was determined that the Fisher high volume relief valve inherited from BERNIER was not operating properly. Preliminary Hydrosweep tests were performed. Other ongoing work during this leg included final adjustments to the newly installed propulsion system made by the engineering staff and B. Keuttel, consultant to the project. EWING arrived in Miami ca. 13:00 on 18 June.

90-02: Obtained Fisher valve parts and other shipboard service in port. Departed Miami ca. 11:00, 20 June with three Krupp-Atlas engineers aboard. Set course for Providence channel and deep water. On the way, SCS streamer winch installation was completed. The streamer was deployed, and analogue SCS records were made with two waterguns. The magnetometer was deployed, and appeared to work properly. During Hydrosweep testing, maggie data were collected at crossovers in a number of areas, so that the effect of the EWING's hull on the magnetic field in the area of the sensor [as now configured] could be determined. About two days were spent performing Hydrosweep calibrations, although lack of a CTD profile and pre-



existing multibeam survey data prevented our meeting K-A specs completely. Progress continued on setting up the MCS system, and digital SCS profile recordings were made on the way into Port Everglades. Ewing arrived in Port Everglades at 8:00 on the 24th of June.

90-03 Parts required to improve the MCS airgun towing boom operating mechanisms were obtained. EWING departed Port Everglades at 19:00 June 25th, and began the Northward transit towards the Blake Abyssal Plain. W.B.F. Ryan's dual-frequency towed sonar vehicle was deployed for the first time on the 26th, with mixed results. On the 27th, the area of interest was reached, and the vehicle was deployed again. These tests were completed at 10:15 on 28 June, and EWING continued Northwards. The two operational LMF seismic compressors were tested during this period; Hydrosweep noise tests were made, and the SCS watergun sources were replaced by 16 airguns. A Hydrosweep survey was carried out off of Tom's Canyon during the night of June 29-30. On the 30th, airgun towing tests were carried out to establish the minimum turning radius for MCS surveys. On the first of July, an additional survey at the Northern edge of the Toms Canyon area was carried out, and a series of airgun signature tests was made with a hydrophone deployed on the deep tow wire at a depth of 1000m. Four shots from each of 16 airguns were recorded with the MCS DSS240 system. A brief Hydrosweep survey of the Hudson Canyon was made on the way to Newark, the ship arriving at 8:00 on 2 July.

Summary: Although scheduling considerations shortened the shakedown period slightly, and forced its coincidence with the dual-frequency towed sonar tests, the cruises were quite successful. As expected, some problems surfaced that weren't completely solved during the shakedown period, but by and large, most of the ship's systems were operating satisfactorily by the time of arrival in Port Newark. The ship's and scientific crews showed an unusually high level of cooperation during the three legs, and this was a major factor in producing a successful shakedown.



John Diebold, Ch. Sci.

RESEARCH VESSEL MAURICE EWING
=====

Nationality - U.S.A.

Port of Registry - New York, New York

Official Reg.# - NY6034FL

Gross Tons - 1978.63

Net Tons - 593.59

Departure - NEW ORLEANS, LOUISIANA

Date - 13 JUNE, 1990

CREW LIST

#	NAME	POSITION	NATIONALITY/Z#-SSN	D.O.B.
1.	PETERLIN, John G. III	Master	USA #049-48-9496	20 Aug 54
2.	MELLO, Louis J.	Chief Mate	USA #566-82-2352 D1	11 Jan 54
3.	ZEIGLER, Stanley P. Jr.	Second Mate	USA #164-38-6082	16 May 49
4.	LANDOW, Mark C.	Third Mate	USA #085-60-6748	03 Apr 67
5.	SANTINI, John J.	Bosun	USA # Z-530675	25 Feb 27
6.	BARROS, Larry W.	A/B	USA #017-38-6566	25 Mar 48
7.	DUNNEY, William D.	A/B	USA #143-48-8824	15 Jun 54
8.	MURLEY, Daniel K.	A/B	USA #006-68-7588	04 May 61
9.	PALONEY, Frank	O/S - Steward	USA # Z-1304 255	28 Sep 25
10.	BLYTHE, Andrew B.	O/S - Cook	USA #T-133-56-0642	19 Mar 67
11.	KARLYN, Albert D.	Chief Engineer	USA #048-48-3942 D1	31 Jul 55
12.	PICA, Stephen M.	First Asst/Engr	USA #016-50-9095	16 Oct 57
13.	TUCKE, Matthew S.	2nd Asst/Engr	USA #030-54-5037	10 Oct 59
14.	WALSH, Albert H.	3rd Asst/Engr	USA #020-60-9004 D1	02 May 64
15.	MATOS, Frank N.	Electrician	CAN #033-70-0636	13 Jul 35
16.	SANTOS, James E.	Oiler	USA #013-30-8995	01 May 41
17.	URIBE, Guillermo F.	Oiler	CHILE #224-25-9030	29 Oct 51
18.	VAN DUYN, Matthew J.	Oiler	USA #329-62-1760	29 Nov 61
19.	MOQD, Luke	Utility	FIJI P/P 238636	03 Jul 45

CREW LIST CONTINUES ON PAGE TWO (2)

#	NAME	POSITION	NATIONALITY/Z#-SSN	D.O.B.
20.	DIEBOLD, John B.	Chief Scientist	USA 057-36-5702	22 Mar 44
21.	SMITH, James A.	Scientist	USA 371-66-2181	23 Apr 56
22.	STENNETT, Joseph N.	Science Officer	USA 057-28-0883	08 Jun 36
23.	WINSLOW, Margaret A.	Scientist	USA 073-42-5471	14 Feb 49
24.	CHAYES, Dale N.	Scientist	USA 049-44-8559	11 Mar 51
25.	GREER, Joseph	Senior Technician	USA 407-90-6936	11 Nov 57
26.	BUDHYPRAMONO, Stefanus	Technician	USA 456-77-8954	26 Sep 65
27.	DEPIETRO, Roger J.	Technician	USA 137-40-0493	20 Nov 55
28.	LaBRECQUE, Steve	Technician	USA 005-62-5970	22 Apr 64
29.	LEMMOND, Peter	Technician	USA 060-40-8371	03 Feb 56
30.	ILTZSCHE, Martin W.	Technician	FGR 113-64-2976	08 Jan 39
31.	SMITH, Ruben Jr.	Technician	USA 437-92-4046	24 Apr 55
32.	DiBERNARDO, John	Technician	USA 133-52-2789	09 May 58
33.	KUETTEL, Beat	Technician	SWISS P/P 5173625	02 May 48
34.	DAIGLE, Kendall	Technician	USA 438-70-3259	23 Sep 53
35.	MAGGIAR, George	A.B.S.	USA 097-42-4174	23 Mar 48
36.	RICCA, Robert	Equitable Yard	USA 434-48-9821	18 Sep 38
37.	WALSH, Mike	Equitable Yard	USA 434-25-1945	08 Feb 60
38.	BROOMFIELD, C.	Equitable Yard	USA 438-98-6441	13 Dec 57
39.	TILLERY, D.	Equitable Yard	USA 434-29-1023	05 Jun 60
40.				
41.				
42.				

#35, 36, 37, 38

#39 DEPARTED SHIP

Total Crew Including Master - 39

CREW BOAT PRIOR
DEPARTURE SEABUOY
ON 6/15/90 JP

R/V MAURICE EWING
New York, N.Y.
Off. # NY 6034FL
CALL SIGN WLDZ
G.T. 1978.63 N.T. 593.59

John G. Peterlin III
Master

RESEARCH VESSEL MAURICE EWING
=====

Nationality - U.S.A.

Port of Registry - New York, New York

Official Reg.# - NY6034FL

Gross Tons - 1978.63

Net Tons - 593.59

Departure - MIAMI, FLORIDA

Date - 20 JUNE, 1990

R/V MAURICE EWING
New York, N.Y.
Off. # NY 6034FL
CALL SIGN WLDZ
G.T. 1978.63 N.T. 593.59

CREW LIST

#	NAME	POSITION	NATIONALITY/Z#-SSN	D.O.B.
1.	PETERLIN, John G. III	Master	USA #049-48-9496	20 Aug 54
2.	MELLO, Louis J.	Chief Mate	USA #566-82-2352 D1	11 Jan 54
3.	ZEIGLER, Stanley P. Jr.	Second Mate	USA #164-38-6082	16 May 49
4.	LANDOW, Mark C.	Third Mate	USA #085-60-6748	03 Apr 67
5.	SANTINI, John J.	Bosun	USA # Z-530675	25 Feb 27
6.	BARROS, Larry W.	A/B	USA #017-38-6566	25 Mar 48
7.	DUNNEY, William D.	A/B	USA #143-48-8824	15 Jun 54
8.	MURLEY, Daniel K.	A/B	USA #006-68-7588	04 May 61
9.	PALONEY, Frank	O/S - Steward	USA # Z-1304 255	28 Sep 25
10.	BLYTHE, Andrew B.	O/S - Cook	USA #T-133-56-0642	19 Mar 67
11.	KARLYN, Albert D.	Chief Engineer	USA #048-48-3942 D1	31 Jul 55
12.	PICA, Stephen M.	First Asst/Engr	USA #016-50-9095	16 Oct 57
13.	TUCKE, Matthew S.	2nd Asst/Engr	USA #030-54-5037	10 Oct 59
14.	WALSH, Albert H.	3rd Asst/Engr	USA #020-60-9004 D1	02 May 64
15.	MATOS, Frank N.	Electrician	CAN #033-70-0636	13 Jul 35
16.	SANTOS, James E.	Oiler	USA #013-30-8995	01 May 41
17.	URIBE, Guillermo F.	Oiler	CHILE #224-25-9030	29 Oct 51
18.	VAN DUYN, Matthew J.	Oiler	USA #329-62-1760	29 Nov 61
19.	MOGO, Luke	Utility	FIJI P/P 238636	03 Jul 45

CREW LIST CONTINUES ON PAGE TWO (2)

#	NAME	POSITION	NATIONALITY/Z#-SSN	D.O.B.
20.	DIEBOLD, John B.	Chief Scientist	USA 057-36-5702	22 Mar 44
21.	SMITH, James A.	Scientist	USA 371-66-2181	23 Apr 56
22.	STENNETT, Joseph N.	Science Officer	USA 057-28-0883	08 Jun 36
23.	FROELICH, Philip N.	Scientist	USA 242-74-1238	12 Apr 46
24.	CHAYES, Dale N.	Scientist	USA 049-44-8559	11 Mar 51
25.	MENKA, William H.	Scientist	USA 054-50-4916	15 Oct 54
26.	MALINVERNO, Alberto	Scientist	ITALY P/P 09 1234 A	29 Dec 57
27.	COOP, Joseph W.	Student	USA 114-70-5317	07 Dec 69
28.	GREER, Joseph	Senior Technician	USA 407-90-6936	11 Nov 57
29.	BUDHYPRAMONO, Stefanus	Technician	USA 456-77-8954	26 Sep 65
30.	DEPIETRO, Roger J.	Technician	USA 137-40-0493	20 Nov 55
31.	LaBRECQUE, Steve	Technician	USA 005-62-5970	22 Apr 64
32.	ILTZSCHE, Martin W.	Technician	FRG 113-64-2976	08 Jan 39
33.	SMITH, Ruben Jr.	Technician	USA 437-92-4046	24 Apr 55
34.	DiBERNARDO, John	Technician	USA 133-52-2789	09 May 58
35.	LARSEN, Gunter	Mfgr Rep K.A.E.	FRG P/P F4120173	01 Mar 51
36.	BRAUN, Michael L.	Technician KAE	FRG P/P H5091203	26 Oct 54
37.	UHRBROCK, Jens C.	Technician KAE	FRG P/P H0057271	01 Nov 59
38.				
39.				
40.				
41.				

Total Crew Including Master - 37

R/V MAURICE EWING
 New York, N.Y.
 Off. # NY 6034FL
 CALL SIGN WLDZ
 G.T. 1978.63 N.T. 593.59

John G. Peterlin III



RESEARCH VESSEL MAURICE EWING

=====

Nationality - U.S.A.

Port of Registry - New York, New York

Official Reg.# - NY6034FL

Gross Tons - 1978.63

Net Tons - 593.59

Departure - FORT EVERGLADES, FLORIDA

Date - 25 JUNE, 1990

CREW LIST

#	NAME	POSITION	NATIONALITY/Z#-SSN	D.O.B.
1.	PETERLIN, John G. III	Master	USA #049-48-9496	20 Aug 54
2.	MELLO, Louis J.	Chief Mate	USA #566-82-2352 D1	11 Jan 54
3.	ZEIGLER, Stanley P. Jr.	Second Mate	USA #164-38-6082	16 May 49
4.	LANDOW, Mark C.	Third Mate	USA #085-60-6748	03 Apr 67
5.	SANTINI, John J.	Bosun	USA # Z-530675	25 Feb 27
6.	BARROS, Larry W.	A/B	USA #017-38-6566	25 Mar 48
7.	DUNNEY, William D.	A/B	USA #143-48-8824	15 Jun 54
8.	MURLEY, Daniel K.	A/B	USA #006-68-7588	04 May 61
9.	PALONEY, Frank	O/S - Steward	USA # Z-1304 255	28 Sep 25
10.	BLYTHE, Andrew B.	O/S - Cook	USA #T-133-56-0642	19 Mar 67
11.	KARLYN, Albert D.	Chief Engineer	USA #048-48-3942 D1	31 Jul 55
12.	PICA, Stephen M.	First Asst/Engr	USA #016-50-9095	16 Oct 57
13.	TUCKE, Matthew S.	2nd Asst/Engr	USA #030-54-5037	10 Oct 59
14.	WALSH, Albert H.	3rd Asst/Engr	USA #020-60-9004 D1	02 May 64
15.	MATOS, Frank N.	Electrician	CAN #033-70-0636	13 Jul 35
16.	SANTOS, James E.	Oiler	USA #013-30-8995	01 May 41
17.	URIBE, Guillermo F.	Oiler	CHILE #224-25-9030	29 Oct 51
18.	VAN DUYN, Matthew J.	Oiler	USA #329-62-1760	29 Nov 61
19.	MOGO, Luke	Utility	FIJI P/P 238636	03 Jul 45

CREW LIST CONTINUES ON PAGE TWO (2)

R/V MAURICE EWING - CREW LIST PAGE TWO (2) DEPARTURE - PORT EVERGLADES

#	NAME	POSITION	NATIONALITY/Z#-SSN	D.O.B.
1.	DIEBOLD, John B.	Chief Scientist	USA 057-36-5702	22 Mar 44
21.	SMITH, James A.	Scientist	USA 371-66-2181	23 Apr 56
22.	STENNETT, Joseph N.	Science Officer	USA 057-28-0883	08 Jun 36
23.	CHAYES, Dale N.	Scientist	USA 049-44-8559	11 Mar 51
24.	AUSTIN, James A.	Scientist	USA 134-44-5429	24 Sep 51
25.	MENKA, William H.	Scientist	USA 054-50-4916	15 Oct 54
26.	MALINVERNO, Alberto	Scientist	ITALY P/P 09 1234 A	29 Dec 57
27.	PRATSON, Lincoln	Grad. Student	USA 022-54-7478	24 Jan 61
28.	COOP, Joseph W.	Student	USA 114-70-5317	07 Dec 69
29.	GREER, Joseph	Senior Technician	USA 407-90-6936	11 Nov 57
30.	BUDHYPRAMONO, Stefanus	Technician	USA 456-77-8954	26 Sep 65
31.	DEPIETRO, Roger J.	Technician	USA 137-40-0493	20 Nov 55
32.	LaBRECQUE, Steve	Technician	USA 005-62-5970	22 Apr 64
33.	ILTZSCHE, Martin W.	Technician	FGR 113-64-2976	08 Jan 39
34.	SMITH, Ruben Jr.	Technician	USA 437-92-4046	24 Apr 55
35.	DiBERNARDO, John	Technician	USA 133-52-2789	09 May 58
36.				
37.				
38.				
39.				
40.				
41.				
42.				

Total Crew Including Master - 35

John G. Peterlin III
Master