



Lamont-Doherty
Earth Observatory
of Columbia University

P.O. BOX 1000 / RT 9W / PALISADES, NY 10964-8000 USA / 914-359-2900

June 30, 1993

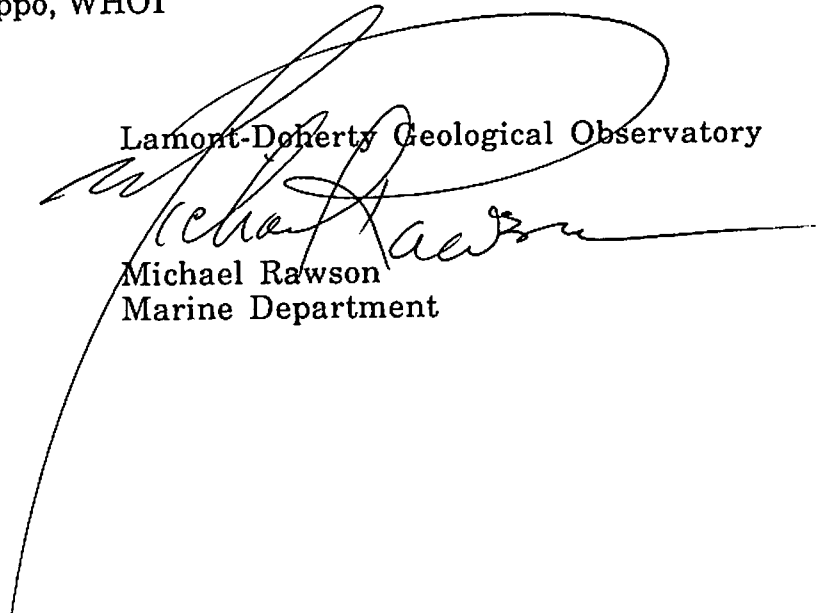
TO: Bash, J. UNOLS, URI
 Hayes, D. L-DGO
 Kaulum, K. ONR
 Dieter, E.R. OCFNS/NSF, Rm. 609
 C.O. Naval Oceanographic Office

SHIP UTILIZATION DATA
R/V MAURICE EWING

The following Ship Utilization Data forms have been completed for R/V MAURICE EWING cruises during 1993:

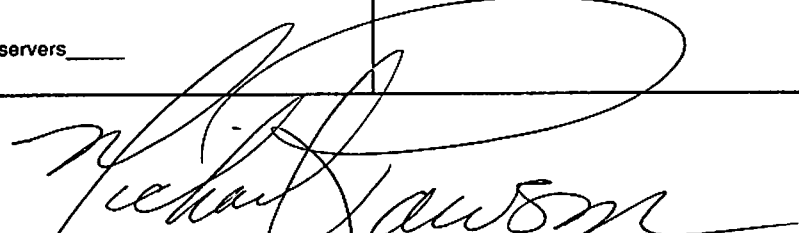
EW93-01 D. Hayes, L-DEO
EW93-02 D. Oppo, WHOI

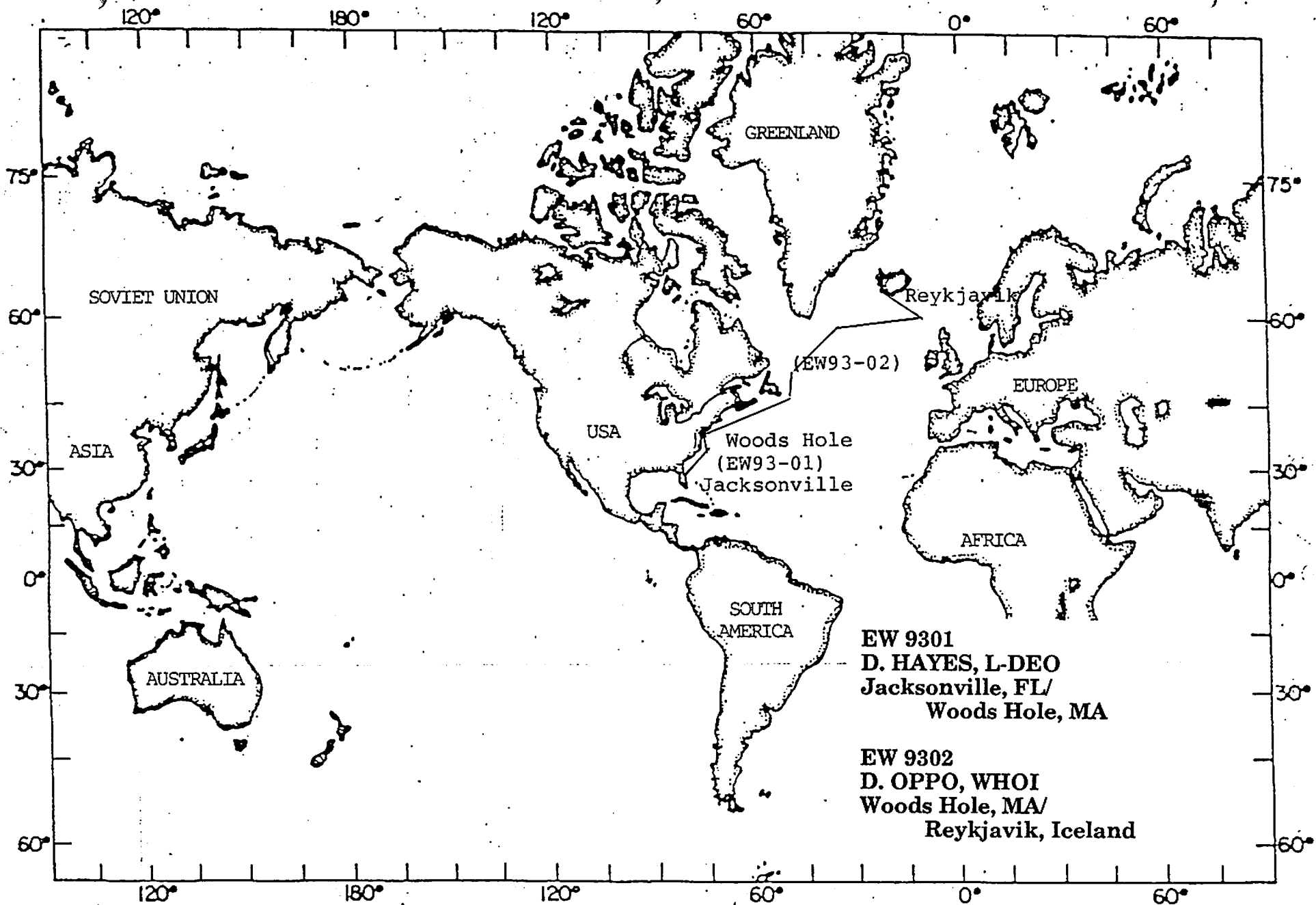
Lamont-Doherty Geological Observatory


Michael Rawson
Marine Department

CRUISE REPORT

Ship Utilization Data

1. Ship Name W MAURICE EWING		2. Operating Institution Lamont-Doherty Earth Observatory Palisades, N.Y. 10964		3. Cruise (leg) Number EW93-02																																																																																																			
4. Dates of Project: Begin: 25 May 1993 End: 22 June 1993		7. Participating Personnel:		Function on Cruise (Ch.Sci.,Obs.,Tech.,Grad.) <u>Student Undergrad For.Obsv.)</u>																																																																																																			
Port Calls <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Place</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Woods Hole MA</td> <td>25-26 May 1993</td> </tr> <tr> <td>Reykjavik, Ice.</td> <td>22-Jun-93</td> </tr> </tbody> </table>		Place	Date	Woods Hole MA	25-26 May 1993	Reykjavik, Ice.	22-Jun-93	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>Title</th> <th>Name</th> <th>Institution</th> </tr> </thead> <tbody> <tr><td>1</td><td>Dr. Delia Oppo,</td><td>WHOI</td><td>Chief Scientist</td></tr> <tr><td>2</td><td>Dr. Pat Manley,</td><td>Middlebury College</td><td>Co-Chief Scientist</td></tr> <tr><td>3</td><td>Dr. Scott Lehman,</td><td>WHOI</td><td>Scientist</td></tr> <tr><td>4</td><td>Dr. Edward Laine,</td><td>Bowdoin</td><td>Scientist</td></tr> <tr><td>5</td><td>Mr. Danial Bissell,</td><td>Middlebury College</td><td>Student</td></tr> <tr><td>6</td><td>Ms Dorinda Ostermann,</td><td>WHOI</td><td>Technician</td></tr> <tr><td>7</td><td>Mr. Ernst Joynt,</td><td>WHOI</td><td>Technician</td></tr> <tr><td>8</td><td>Ms. Kelly Krye,</td><td>Middlebury Coll</td><td>Student</td></tr> <tr><td>9</td><td>Dr. James Cullen,</td><td>Salem State Coll</td><td>Scientist</td></tr> <tr><td>10</td><td>Ms. Ellen R. Roosen,</td><td>WHOI</td><td>Technician</td></tr> <tr><td>11</td><td>Mr. Alan Gagnon,</td><td>WHOI</td><td>TEchnician</td></tr> <tr><td>12</td><td>Ms. Ellem Roark,</td><td>Middlebury Coll</td><td>Student</td></tr> <tr><td>13</td><td>Mr. Chris Zafirou,</td><td>WHOI</td><td>Student</td></tr> <tr><td>14</td><td>Mr. Greg Harvey,</td><td>Bowdoin</td><td>Student</td></tr> <tr><td>15</td><td>Mr. John Anthony,</td><td>Middlebury Coll</td><td>Student</td></tr> <tr><td>16</td><td>Mr. James Broda,</td><td>WHOI</td><td>Scientist</td></tr> <tr><td>17</td><td>Mr. S. Budhyprmano,</td><td>L-DEO</td><td>Computer Technician</td></tr> <tr><td>18</td><td>Mr. Joseph Stennett,</td><td>L-DEO</td><td>Science Officer</td></tr> <tr><td>19</td><td>Mr. William Koczynski,</td><td>L-DEO</td><td>Technician</td></tr> <tr><td>20</td><td>Dr. David Caress,</td><td>L-DEO</td><td>Scientist</td></tr> <tr><td>21</td><td>Mr. John Di Bernardo</td><td></td><td>Seismic Technician</td></tr> <tr><td>22</td><td>Mr. Ropate Maiwiriri,</td><td>L-DEO</td><td>Core Technician</td></tr> </tbody> </table>		Code	Title	Name	Institution	1	Dr. Delia Oppo,	WHOI	Chief Scientist	2	Dr. Pat Manley,	Middlebury College	Co-Chief Scientist	3	Dr. Scott Lehman,	WHOI	Scientist	4	Dr. Edward Laine,	Bowdoin	Scientist	5	Mr. Danial Bissell,	Middlebury College	Student	6	Ms Dorinda Ostermann,	WHOI	Technician	7	Mr. Ernst Joynt,	WHOI	Technician	8	Ms. Kelly Krye,	Middlebury Coll	Student	9	Dr. James Cullen,	Salem State Coll	Scientist	10	Ms. Ellen R. Roosen,	WHOI	Technician	11	Mr. Alan Gagnon,	WHOI	TEchnician	12	Ms. Ellem Roark,	Middlebury Coll	Student	13	Mr. Chris Zafirou,	WHOI	Student	14	Mr. Greg Harvey,	Bowdoin	Student	15	Mr. John Anthony,	Middlebury Coll	Student	16	Mr. James Broda,	WHOI	Scientist	17	Mr. S. Budhyprmano,	L-DEO	Computer Technician	18	Mr. Joseph Stennett,	L-DEO	Science Officer	19	Mr. William Koczynski,	L-DEO	Technician	20	Dr. David Caress,	L-DEO	Scientist	21	Mr. John Di Bernardo		Seismic Technician	22	Mr. Ropate Maiwiriri,	L-DEO	Core Technician	Dates (If less than entire cruise)	
Place	Date																																																																																																						
Woods Hole MA	25-26 May 1993																																																																																																						
Reykjavik, Ice.	22-Jun-93																																																																																																						
Code	Title	Name	Institution																																																																																																				
1	Dr. Delia Oppo,	WHOI	Chief Scientist																																																																																																				
2	Dr. Pat Manley,	Middlebury College	Co-Chief Scientist																																																																																																				
3	Dr. Scott Lehman,	WHOI	Scientist																																																																																																				
4	Dr. Edward Laine,	Bowdoin	Scientist																																																																																																				
5	Mr. Danial Bissell,	Middlebury College	Student																																																																																																				
6	Ms Dorinda Ostermann,	WHOI	Technician																																																																																																				
7	Mr. Ernst Joynt,	WHOI	Technician																																																																																																				
8	Ms. Kelly Krye,	Middlebury Coll	Student																																																																																																				
9	Dr. James Cullen,	Salem State Coll	Scientist																																																																																																				
10	Ms. Ellen R. Roosen,	WHOI	Technician																																																																																																				
11	Mr. Alan Gagnon,	WHOI	TEchnician																																																																																																				
12	Ms. Ellem Roark,	Middlebury Coll	Student																																																																																																				
13	Mr. Chris Zafirou,	WHOI	Student																																																																																																				
14	Mr. Greg Harvey,	Bowdoin	Student																																																																																																				
15	Mr. John Anthony,	Middlebury Coll	Student																																																																																																				
16	Mr. James Broda,	WHOI	Scientist																																																																																																				
17	Mr. S. Budhyprmano,	L-DEO	Computer Technician																																																																																																				
18	Mr. Joseph Stennett,	L-DEO	Science Officer																																																																																																				
19	Mr. William Koczynski,	L-DEO	Technician																																																																																																				
20	Dr. David Caress,	L-DEO	Scientist																																																																																																				
21	Mr. John Di Bernardo		Seismic Technician																																																																																																				
22	Mr. Ropate Maiwiriri,	L-DEO	Core Technician																																																																																																				
5. Number, Sea Days		6. Number, Port Days																																																																																																					
26		3																																																																																																					
8a. Area of Operations, Area Index and Geographic Description NA6, NA4, NA5 North Atlantic																																																																																																							
8b. Research in Foreign Waters?_Yes Country: Greenland, Iceland, Canada																																																																																																							
9. Primary Project(s)																																																																																																							
a. Project Title,Principal Investigator,Institution		b.Sponsoring Agency/		c.Grant or Contract																																																																																																			
a. ODP Site Survey of Rockali Plateau and E. Flank of teh Rykjanes Ridge: Drift Evolution and High Resolution Paleoceanography*		d> Dr. Delia Oppo, WHOI & Dr. Pat Manley, Middlebury College		e. MG&G																																																																																																			
b. NSF		c. OCE92-17291		ee. Discipline																																																																																																			
10. Ancillary Project(s)																																																																																																							
a. Project Title,Principal Investigator,Institution		b.Sponsoring Agency/		c.Grant or Contract																																																																																																			
N/A		d.Participating Personnel		ee. Discipline																																																																																																			
11. Science Party:		12. Cost Allocation Data																																																																																																					
Scientists_7_ Grad. Students_____		a. Days Charged		b. Agency or Activity Charged																																																																																																			
Undergrads_6 Technicians_11_		29		NSF-ODP																																																																																																			
Observers_____		Participants (Cont'd)																																																																																																					
Foreign Observers_____		23 Ms. Suzanne O'Hara, L-DEO		Terchnician																																																																																																			
		24 Mr. Carlos Alvarez, L-DEO		Seismic Technician																																																																																																			
13		 Michael Rawson, Marine Science Coordinator Title, Signature, Operating Institution Official			30-Jun-93 Date																																																																																																		



TRACK CHART