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FINAL SHIP OPERATING SCHEDULE FOR 2003
R/V BLUE HERON

Cruise Dates	Map Index/ Area/ Purpose	P.I./Institution/ Proposal	Ports	Days/Agency/ Status/Clearance
01 May	GL4/ W. Sup./	Angela Cates/ UMD/	Duluth	0.5/ State/ F
01 May	Educational	University funds	Duluth	none
03 May	GL4/ W. Sup./	Jim Cotner/ UMN-	Duluth	0.5/ State/ F
03 May	Educational	TC/ University funds	Duluth	none
08 May	GL4/ W. Sup./	R. DeWitte/ UMD/	Duluth	0.5/ State/ F
08 May	Educational	University funds	Duluth	none
12 June	GL4/ W. Sup./	Joe Werne/ UMD/	Duluth	0.5/State/ F
12 June	Chem. Limn.	University funds	Duluth	none
16 June	GL4/ W. Sup./	Brian May/ UMD/	Duluth	2/ NSF/ F
17 June	MRI- Triaxus	OCE- 0115810	Duluth	none
19 June	GL4/ Great Lakes	Tom Johnson/ UMD/	Duluth	7.5/State/ F
03 July	/Limnology	University funds	Duluth	none
	GL4/ Michigan/ Educational	Tom Johnson/ UMD/ OCE-0200987		4/ NSF/ F
	GL4/ Michigan/ Bio. and Geo.	John Janssen/ UW- CGLR/ NOAA Expl.		3.5/ NOAA/ F
09 July	GL4/ W. Sup./	Elise Ralph/ UMD/	Duluth	0.5/ State/ F
09 July	Phy. Limnology	University funds	Duluth	none
15 July	GL4/ W. Sup./	Nigel Wattrus/ UMD/	Duluth	3/ State/ F
20 July	Geophysics	University funds	Duluth	none
	GL4/ W. Sup./ Geophysics	Nigel Wattrus/ UMD/ Seagrant		3/ NOAA/ F
29 July	GL4/ W. Sup./	Tom Johnson/ UMD/	Duluth	0.5/ State/ F
29 July	Educational	University funds	Duluth	none

05 Aug.	GL4/ W. Sup./	K. McNeill/ UMN-	Duluth	0.5/ State/ F
05 Aug.	Chem. Limn.	TC/ University funds	Duluth	none
13 Aug.	GL4/ W. Sup./	Erik Brown/ UMD/	Duluth	3/ State/ F
15 Aug.	Bio. & Chem.	University funds	Duluth	none
19 Aug.	GL4/ W. Sup./	Bill Arnold/ UMN-	Duluth	0.5/ State/ F
19 Aug.	Bio. Limn.	TC/ University funds	Duluth	none
21 Aug.	GL4/ W. Sup./	Randy Hicks/ UMD/	Duluth	0.5/ State/F
21 Aug.	Bio. Limn.	University funds	Duluth	none
03 Sept.	GL4/ W. Sup./	Fardin Oliaei/ MPC/	Duluth	2/ State/F
07 Sept.	Chem. Limn.	MN Poll. Control	Duluth	Canada
	GL4/ W. Sup./	Tom Johnson/ UMD/		3/ State/ F
	Geophysics	University funds		
10 Sept.	GL4/ W. Sup./	Nigel Wattrus/ UMD/	Duluth	0.5/ State/ F
10 Sept.	Geophysics	University funds	Duluth	none
12 Sept.	GL4/ W. Sup./	Ted Stets/ UMN-TC/	Duluth	0.5/ State/ F
12 Sept.	Bio. Limn.	University funds	Duluth	none
15 Sept.	GL4/ W. Sup./	Erik Brown/ UMD/	Duluth	3/ State/ F
17 Sept.	Bio. & Chem.	University funds	Duluth	none
21 Sept.	GL4/ W. Sup./	Brian May/ UMD/	Duluth	3/ NSF/ F
23 Sept.	MRI- Triaxus	OCE- 0115810	Duluth	none
24 Sept.	GL4/ W. Sup./	Angela Cates/ UMD/	Duluth	0.5/ State/ F
24 Sept.	Educational	University funds	Duluth	none
25 Sept.	GL4/ W. Sup./	D. Branstrator/	Duluth	0.5/ State/ F
25 Sept.	Educational	UMD/ Univ. funds	Duluth	none
26 Sept.	GL4/ W. Sup./	D. Branstrator/	Duluth	0.5/ State/ F
26 Sept.	Educational	UMD/ Univ. funds	Duluth	none
27 Sept.	GL4/ W. Sup./	Nigel Wattrus/ UMD/	Duluth	0.5/ State/ F
27 Sept.	Educational	University funds	Duluth	none
14 Oct.	GL4/ W. Sup./	Tom Hrabik/ UMD/	Duluth	3/ State/ F
18 Oct.	Bio. Limn.	University funds	Duluth	none
	GL4/ W. Sup./	Tom Hrabik/ UMD/		1/ State/ F
	Bio. Limn.	Dept. of Nat. Res.		
	GL4/ W. Sup./	Tom Hrabik/ UMD/		1/ NOAA/ F
	Bio. Limn.	SeaGrant		

20 Nov. GL4/ W. Sup./ Brian May/ UMD/ Duluth 0.5/ NSF/ F
20 Nov. MRI- Triaxus OCE- 0115810 Duluth none

SUMMARY

Agency	Funded	Proposed	Total
NSF	9.5		9.5
NOAA	7.5		7.5
State	33		33
Total	50		50