

POC: Doug Ricketts
 Large Lakes Observatory
 University of Minnesota
 10 University Drive, RLB 109
 Duluth, MN 55812
 Telephone: 218-726-7826
 Fax: 218-726-6979
 E-mail: ricketts@d.umn.edu

FINAL SHIP OPERATING SCHEDULE FOR 2005
R/V BLUE HERON

Cruise Dates	Map Index/ Area/ Purpose	P.I./Institution/ Proposal	Ports	Days/Agency/ Status/Clearance
05 May	GL4/Superior	Cates/UMN-D	Duluth	0.5*/State/None
05 May	Educational	University funds	Duluth	
27 May	GL4/Superior	Brown/UMN-D	Duluth	0.5*/State/None
27 May	Chem. Limn.	University funds	Duluth	
01 June	GL4/Superior	Brown/UMN-D	Duluth	2/NOAA/None
02 June	Chem. Limn.	NA03OAR4170048	Duluth	
03 June	GL4/Superior	Cotner/UMN-TC	Duluth	0.5*/NOAA/None
03 June	Bio. Limn.	NA03OAR4170048	Duluth	
06 June	GL4/Superior	Sterner/UMN-TC	Duluth	3/NSF/None
09 June	Bio. Limn.	OCE-0352291	Duluth	
	GL4/Superior	Sterner/UMN-TC		1/State/None
	Bio. Limn.	University funds		
10 June	GL4/Superior	Johnson & Werne/ UMN-	Duluth	3/State/None
12 June	Geol & Chem	D/Univ. funds	Duluth	
16 June	GL4/Superior	Colman/UMN-D	Duluth	0.5*/NSF/None
16 June	Geophysics	OCE-0421091	Duluth	
06 July	GL4/Superior	Brown/UMN-D	Duluth	2/NOAA/None
07 July	Chem. Limn.	NA03OAR4170048	Duluth	
11 July	GL4/Superior	Cotner/UMN-TC	Duluth	0.5*/NOAA/None
11 July	Bio. Limn.	NA03OAR4170048	Duluth	
13 July	GL4/Superior	Hrabik/UMN-D	Duluth	3/State/None
15 July	Bio. Limn.	University funds	Duluth	

17 July	GL4/Superior	Colman/UMN-D	Duluth	0.5*/NSF/None
17 July	Geophysics	OCE-0421091	Duluth	
18 July	GL4/Superior	Barthel/UMN-D	Duluth	0.5*/State/None
18 July	Educational	University funds	Duluth	
20 July	GL4/Superior	Sterner/UMN-TC	Duluth	5/NSF/None
24 July	Bio. Limn.	OCE-0352291	Duluth	
26 July	GL4/Superior	Johnson/UMN-D	Duluth	0.5*/State/None
26 July	Educational	University funds	Duluth	
29 July	GL4/Superior	Hrabik/UMN-D/University	Duluth	3/State/None
04 Aug	Bio. Limn.	funds	Duluth	
	GL4/Superior	Hrabik/UMN-D/MN DNR		3/State/None
	Bio. Limn.			
	GL4/Superior	Hrabik/UMN-D/WI DNR		1/State/None
	Bio. Limn.			
08 Aug	GL4/Superior	Colman/UMN-D	Duluth	7/NSF/Canadian
14 Aug	Geophysics	OCE-0421091	Duluth	
21 Aug	GL4/Superior	Branstrator/UMN-D	Duluth	6/NOAA/None
26 Aug	Bio. Limn.	NA03OAR4170048	Duluth	
28 Aug	GL4/Superior	Sterner/UMN-TC	Duluth	5/NSF/None
01 Sept	Bio. Limn.	OCE-0352291	Duluth	
07 Sept	GL4/Superior	Brown/UMN-D	Duluth	2/State/None
08 Sept	Chem. Limn.	University funds	Duluth	
09 Sept	GL4/Superior	Colman/UMN-D	Duluth	0.5*/NSF/None
09 Sept	Geophysics	OCE-0421091	Duluth	
13 Sept	GL4/Superior	Colman/UMN-D	Duluth	0.5*/NSF/None
13 Sept	Geophysics	OCE-0421091	Duluth	
15 Sept	GL4/Superior	Cates/UMN-D	Duluth	0.5*/State/None
15 Sept	Educational	University funds	Duluth	
16 Sept	GL4/Superior	Cotner/UMN-TC	Duluth	0.5*/NOAA/None
16 Sept	Bio. Limn.	NA03OAR4170048	Duluth	
17 Sept	GL4/Superior	Sterner/UMN-TC	Duluth	1/NSF/None
17 Sept	Bio. Limn.	OCE-0352291	Duluth	

20 Sept	GL4/Superior	Werne/UMN-D	Duluth	3/State/None
22 Sept	Chem. Limn.	University funds	Duluth	
26 Sept	GL4/Superior	Hale/UMN-D	Duluth	0.5*/State/None
26 Sept	Educational	University funds	Duluth	
27 Sept	GL4/Superior	Hale/UMN-D	Duluth	0.5*/State/None
27 Sept	Educational	University funds	Duluth	
29 Sept	GL4/Superior	Colman/UMN-D	Duluth	0.5*/NSF/None
29 Sept	Geophysics	OCE-0421091	Duluth	
01 Oct	GL4/Superior	Wattrus/UMN-D	Duluth	0.5*/State/None
01 Oct	Educational	University funds	Duluth	
02 Oct	GL4/Superior	Sterner/UMN-TC	Duluth	1/NSF/None
02 Oct	Bio. Limn.	OCE-0352291	Duluth	
04 Oct	GL4/Superior	Colman/UMN-D	Duluth	0.5*/NSF/None
04 Oct	Geophysics	OCE-0421091	Duluth	
08 Oct	GL4/Superior	Colman/UMN-D	Duluth	0.5*/State/None
08 Oct	Educational	GLMRI funds	Duluth	
09 Oct	GL4/Superior	Brown/UMN-D	Duluth	2/State/None
10 Oct	Chem. Limn.	University funds	Duluth	
27 Oct	GL4/Superior	Colman/UMN-D	Duluth	0.5*/State/None
27 Oct	Geophysics	GLMRI funds	Duluth	

* half day (<10hrs) rate available to all users

SUMMARY

Agency	Funded	Proposed	Total
NSF	25		25
NOAA	11.5		11.5
State	26		26
Total	62.5		62.5