

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 2002
R/V BLUE HERON

Cruise Dates	Map Index/ Area/ Purpose	P.I./Institution/ Proposal	Ports	Days/Agency/ Status/Clearance
15 Jan 15 Jan	GL4/ W. Sup./ Physical Limn.	T. Johnson/ UMD/ University	Duluth Duluth	0.5/ State/ F none
01 Apr 01 Apr	GL4/ W. Sup./ Physical Limn.	E. Ralph/ UMD/ University	Duluth Duluth	0.5/ State/ F none
29 Apr 29 Apr	GL4/ W. Sup./ Educational	K. Beuning/ U. Wisc E.C./ University	Duluth Duluth	0.5/ State/ F none
30 Apr 30 Apr	GL4/ W. Sup./ Educational	A. Cates/ UMD/ University	Duluth Duluth	0.5/State/ F none
03 May 03 May	GL4/ W. Sup./ Educational	C. Gallup/ UMD/ University	Duluth Duluth	0.5/State/ F none
04 May 04 May	GL4/ W. Sup./ Educational	J. Cotner/ UMN-TC/ University	Duluth Duluth	0.5/State/ F none
07 May 07 May	GL4/ W. Sup./ Educational	R. DeWitte/ UMD/ University	Duluth Duluth	0.5/State/ F none
10 Jul 10 Jul	GL4/ W. Sup./ Educational	C. Wolosz/ UMD/ University	Duluth Duluth	0.5/ State/ F none
14 May 18 May	GL4/ W. Sup./ Geological Limn.	N. Wattrus/ UMD/ University	Duluth Duluth	5/ State/ F none
04 Jun 05 Jun	GL4/Superior/ Physical Limn.	E. Ralph/ UMD/ LCMR	Duluth Duluth	2/ State/ F none
07 Jun 10 Jun	GL4/ W. Sup./ Geological Limn.	N. Wattrus/ UMD/ University	Duluth Houghton	4/ State/ F none

11 Jun	GL4/ W. Sup./	C. Patterson/ UMN-	Houghton	3/ State/ F
13 Jun	Geological Limn.	TC/ University	Duluth	none
20 Jun	GL4/Superior-	Transit/ n.a./ OCE-	Duluth	4/ NSF/ F
23 Jun	Michigan/ Transit	0200987	Milwaukee	none
24 Jun	GL4/ Michigan/	R. Cuhel/UW-Mil. /	Milwaukee	6/ NSF/F
29 Jun	Educational	OCE-0097639	Milwaukee	none
30 June	GL4/ Michigan-	Transit/ n.a./ OCE-	Milwaukee	4/ NSF/F
03 Jul	Superior/ Transit	0200987	Duluth	none
10 Jul	GL4/ W. Sup./	J. Cotner/ UMN-TC/	Duluth	2/ NOAA/ F
11 Jul	Biological Limn.	SeaG.-NA16RG1046	Duluth	none
19 Jul	GL4/ W. Sup./	E. Ralph/ UMD/	Duluth	4/ State/ F
22 Jul	Physical Limn.	University	Duluth	none
24 Jul	GL4/ W. Sup./	C. Wittkop/ UMN-	Duluth	0.5/ State/ F
24 Jul	Educational	TC/ University	Duluth	none
30 Jul	GL4/ W. Sup./	B. May/ UMD/	Duluth	0.5/ State/ F
30 Jul	Physical Limn.	Univ.-Grant in Aid	Duluth	none
01 Aug	GL4/ W. Sup./	B. May/ UMD/	Duluth	0.5/ State/ F
01 Aug	Physical Limn.	Univ.-Grant in Aid	Duluth	none
06 Aug	GL4/ W. Sup./	R. Hicks/ UMD/	Duluth	2/ State/ F
07 Aug	Biological Limn.	University	Duluth	none
13 Aug	GL4/ W. Sup./	E. Brown/ UMD/	Duluth	0.5/ NOAA/ F
13 Aug	Geological Limn.	SeaG.-NA16RG1046	Duluth	none
14 Aug	GL4/ W. Sup./	E. Brown/ UMD/	Duluth	0.5/ NOAA/ F
14 Aug	Geological Limn.	SeaG.-NA16RG1046	Duluth	none
15 Aug	GL4/ W. Sup./	E. Brown/ UMD/	Duluth	0.5/ NOAA/ F
15 Aug	Geological Limn.	SeaG.-NA16RG1046	Duluth	none
19 Aug	GL4/ W. Sup./	K. McNeill/ UMN-	Duluth	0.5/ State/ F
19 Aug	Chemical Limn.	TC/ University	Duluth	none
20 Aug	GL4/ W. Sup./	E. Brown/ UMD/	Duluth	0.5/ NOAA/ F
20 Aug	Geological Limn.	SeaG.-NA16RG1046	Duluth	none
21 Aug	GL4/ W. Sup./	E. Brown/ UMD/	Duluth	0.5/ NOAA/ F
21 Aug	Geological Limn.	SeaG.-NA16RG1046	Duluth	none

22 Aug	GL4/ W. Sup./	E. Brown/ UMD/	Duluth	0.5/ NOAA/ F
22 Aug	Geological Limn.	SeaG.-NA16RG1046	Duluth	none
23 Aug	GL4/ W. Sup./	E. Brown/ UMD/	Duluth	0.5/ NOAA/ F
23 Aug	Geological Limn.	SeaG.-NA16RG1046	Duluth	none
05 Sep	GL4/ W. Sup./	J. Cotner/ UMN-TC/	Duluth	0.5/ State/ F
05 Sep	Biological Limn.	University	Duluth	none
10 Sep	GL4/ Superior/	R. Sterner/ UMN-	Duluth	5/ NSF/ F
14 Sep	Biological Limn.	TC/ OCE 9819324	Duluth	none
19 Sep	GL4/ W. Sup./	J. Werne/ UMD/ Sea-	Duluth	0.5/ NOAA/ F
19 Sep	Chemical Limn.	Grant-NA86RG0033	Duluth	none
21 Sep	GL4/ W. Sup./	E. Brown/ UMD/Sea-	Duluth	0.5/ NOAA/ F
21 Sep	Educational	Grant-NA86RG0033	Duluth	none
24 Sep	GL4/ W. Sup./	T. Hrabik/ UMD/	Duluth	0.5/ State/ F
24 Sep	Educational	University	Duluth	none
26 Sep	GL4/ W. Sup./	D. Branstrator/	Duluth	0.5/ State/ F
26 Sep	Educational	UMD/ University	Duluth	none
27 Sep	GL4/ W. Sup./	D. Branstrator/	Duluth	0.5/ State/ F
27 Sep	Educational	UMD/ University	Duluth	none
28 Sep	GL4/ W. Sup./	T. Johnson/ UMD/	Duluth	0.5/ NOAA/ F
28 Sep	Educational	SeaG.-NA86RG0033	Duluth	none
30 Sep	GL4/ W. Sup./	E. Ralph/ UMD/	Duluth	0.5/ State/ F
30 Sep	Physical Limn.	University	Duluth	none
07 Oct	GL4/ W. Sup./	B. May/ UMD/ OCE-	Duluth	3/ NSF/ F
09 Oct	MRI-equip. test	0115810	Duluth	none
22 Oct	GL4/ W. Sup./	A. Cates/ UMD/	Duluth	0.5/ State/ F
22 Oct	Educational	University	Duluth	none
23 Oct	GL4/ W. Sup./	D. Branstrator/	Duluth	0.5/ State/ F
23 Oct	Educational	UMD/ University	Duluth	none
01 Nov	GL4/ W. Sup./	R. Hicks/ UMD/	Duluth	0.5/ State/ F
01 Nov	Educational	University	Duluth	none
06 Nov	GL4/ W. Sup./	B. May/ / UMD/	Duluth	0.5/ NSF/ F
06 Nov	MRI-equip. test	OCE-0115810	Duluth	none

19 Nov	GL4/ W. Sup./	W. Lin/ UMD/	Duluth	0.5/ State/ F
19 Nov	Physical Limn.	University	Duluth	none
21 Nov	GL4/ W. Sup./	N. Wattrus/ UMD/	Duluth	2/ State/ F
22 Nov	Limnology	University	Duluth	none
02 Dec	GL4/ W. Sup./	W. Lin/ UMD/	Duluth	0.5/ State/ F
02 Dec	Physical Limn.	University	Duluth	none
05 Dec	GL4/ W. Sup./	E. Ralph/ / UMD/	Duluth	0.5/ State/ F
05 Dec	Physical Limn.	University	Duluth	none
11 Dec	GL4/ W. Sup./	B. May/ / UMD/	Duluth	0.5/ NSF/ F
11 Dec	MRI-equip. test	OCE-0115810	Duluth	none

SUMMARY

Agency	Funded	Proposed	Total
NSF	23		23
NOAA	7		7
State	33.5		33.5
Total	63.5		63.5