

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 2004
R/V BLUE HERON

| Cruise Dates | Map Index/ Area/ Purpose | P.I./Institution/ Proposal | Ports | Days/Agency/ Status/Clearance |
|---------------------|---------------------------------|-----------------------------------|--------------|--------------------------------------|
| 14 May | GL4/ W. Sup./ | May, Brian/ UMD/ | Duluth | 0.5*/ State/ F |
| 14 May | Triaxus Survey | University funds | Duluth | none |
| 18 May | GL4/ Superior / | McKay, Robert/ BGSU/ | Duluth | 4/ NSF / F |
| 21 May | Biological Limn. | OCE-0327738 | Duluth | none |
| 27 May | GL4/ W. Sup./ | Branstrator, Donn/ UMD/ | Duluth | 0.5*/ State/ F |
| 27 May | Educational | University funds | Duluth | none |
| 02 June | GL4/ W. Sup./ | May, Brian / UMD/ | Duluth | 0.5*/State/ F |
| 02 June | Triaxus Survey | University funds | Duluth | none |
| 15 June | GL4/ W. Sup./ | Johnson, Thomas/ UMD/ | Duluth | 0.5*/State/ F |
| 15 June | Educational | University Funds | Duluth | none |
| 22 June | GL4/ W. Sup./ | May, Brian / UMD/ | Duluth | 0.5*/State/ F |
| 22 June | Mooring | University funds | Duluth | none |
| 14 July | GL4/ W. Sup./ | May, Brian / UMD/ | Duluth | 0.5*/ State/ F |
| 14 July | Triaxus Survey | University funds | Duluth | none |
| 21 July | GL4/ Superior/ | Wattrus, Nigel/ UMD/ | Duluth | 6/ State/ F |
| 26 July | Geophysics | University funds | Duluth | Canadian |
| 28 July | GL4/ W. Sup./ | Cameron, Dawn/ Sci. Mus. | Duluth | 0.5* / State/ F |
| 28 July | Educational | of MN./ Sci. Mus. of MN. | Duluth | none |
| 03 Aug. | GL4/ W. Sup./ | May, Brian/ UMD/ | Duluth | 1/ State/ F |
| 03 Aug. | Mooring & Triaxus | University funds | Duluth | none |
| 14 Aug. | GL4/ Superior/ | Hrabik, Thomas/ UMD/ | Duluth | 3/ State/ F |
| 18 Aug. | Trawl | MN. Dept. of Nat. Res. | Duluth | none |

| | | | | |
|----------------------|------------------------------------|--|------------------|------------------------|
| | GL4/ Superior/ Trawl | Hrabik, Thomas/ UMD/ WI. Dept. of Nat. Res. | | 1/ State/ F none |
| | GL4/ Superior/ Trawl | Hrabik, Thomas/ UMD/ University funds | | 1/ State/ F none |
| 24 Aug. 26 Aug. | GL4/ Superior/ Chemical Limn. | Werne, Joe/ UMD/ University funds | Duluth Duluth | 3/ State/ F none |
| 31 Aug. 02 Sept. | GL4/ Superior/ Triaxus Survey | May, Brian/ UMD/ OCE- 0115810 | Duluth Duluth | 2.5/ NSF /F none |
| | GL4/ Superior/ Triaxus Survey | May, Brian/ UMD/ University funds | | 0.5/ State/F none |
| 08 Sept. 11 Sept. | GL4/ Superior/ Trawl | Hrabik, Thomas/ UMD/ University funds | Duluth Duluth | 4/ State/F none |
| 14 Sept. 17 Sept. | GL4/ Superior/ Biological Limn. | McKay, Robert/ BGSU/ OCE-0327738 | Duluth Duluth | 4/ NSF/ F none |
| 21 Sept. 21 Sept. | GL4/ W. Sup./ Triaxus Survey | May, Brian/ UMD/ University funds | Duluth Duluth | 0.5*/ State/ F none |
| 22 Sept. 22 Sept. | GL4/ W. Sup./ Ed. & Triaxus | May, Brian/ UMD/ University funds | Duluth Duluth | 0.5*/ State/ F none |
| 23 Sept. 23 Sept. | GL4/ W. Sup./ Educational | Sharp, Angela/ UMD/ University funds | Duluth Duluth | 0.5*/ State/ F none |
| 24 Sept. 24 Sept. | GL4/ W. Sup./ Educational | Pedersen, William/ UMD/ University funds | Duluth Duluth | 0.5*/ State/ F none |
| 28 Sept. 28 Sept. | GL4/ W. Sup./ Educational | Rutkowski, Gregory/ UMD/ University funds | Duluth Duluth | 0.5*/ State/ F none |
| 29 Sept. 29 Sept. | GL4/ W. Sup./ Educational | Branstrator, Donn/ UMD/ Univ. funds | Duluth Duluth | 0.5*/ State/ F none |
| 30 Sept. 30 Sept. | GL4/ W. Sup./ Educational | Branstrator, Donn/ UMD/ Univ. funds | Duluth Duluth | 0.5*/ State/ F none |
| 08 Oct. 08 Oct. | GL4/ W. Sup./ Physical Limn. | May, Brian/ UMD/ University funds | Duluth Duluth | 0.5*/ State/ F none |
| 12 Oct. 12 Oct. | GL4/ W. Sup./ Triaxus Survey | May, Brian/ UMD/ University funds | Duluth Duluth | 1/ State/ F none |
| 23 Oct. | GL4/ W. Sup./ | Hrabik, Thomas/ UMD/ | Duluth | 3/ NOAA/ F |

| | | | | |
|---------|------------------|---------------------------|--------|-------------|
| 25 Oct. | Biological Limn. | Seagrant | Duluth | none |
| 28 Oct. | GL4/ W. Sup./ | Sterner, Robert/ UMN -TC/ | Duluth | 1/ State/ F |
| 28 Oct. | Biological Limn. | University funds | Duluth | none |

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

SUMMARY

| Agency | Funded | Proposed | Total |
|--------|--------|----------|-------|
| NSF | 10.5 | | 10.5 |
| NOAA | 3 | | 3 |
| State | 29 | | 29 |
| Total | 42.5 | | 42.5 |