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Curriculum Vitae

ROBERT CARL GROMAN

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Date of Birth: August 3, 1947

Place of Birth: Manhattan, NY

Nationality: USA

EDUCATION

B.A. (Physics), Clark University, 1969
Graduate work in physics, Dartmouth College, 1969-1971
M.S. (Computer Science), Worcester Polytechnic Institute, 1981
Management courses, Cape Cod Community College, 1983, 1984

PROFESSIONAL EXPERIENCE:

Computer and Programming Assistant, Clark University and Worcester Polytechnic Institute, 1967-1969

Teaching Assistant, Clark University, 1968-1969

Teaching Assistant, Dartmouth College, 1969-1971

Woods Hole Oceanographic Institution

Laboratory Assistant, May - September 1968
Programmer, June - September 1969
Research Assistant, September 1971-1977
Computer System Supervisor, November 1980 - 1990
Word Processing System Supervisor - January 1984 to 1989
IPCL Acting Manager, February - December 1989
IPCL Manager, December 1989 - 1992
Research Associate, April 1977 - July 1983
Research Specialist, July 1983 - March 1990
Information Systems Specialist, March 1990 - present
Director, Information Systems Center, 1992 - 1994
Administrator, U.S. GLOBEC Georges Bank Program Service & Data Management, 1994 - 2006
Data manager for U.S. GLOBEC Northeast Pacific and Southern Ocean Programs, 2000 - 2006
Data manager for the Northeast Consortium (2000-), FleetLink (2001-), and CMarZ (2004), * - present
Data manager for the BCO-DMO Office, 2006 - present

Private consulting, including computer programming and teaching courses in computer science, 1980 - present.

Book Review Editor, *Forum*, a publication of the Association for Computing Machinery Special Interest Group on Information Retrieval, 1977 to present.

AWARDS: None

PROFESSIONAL AFFILIATIONS

Member, Upsilon Pi Epsilon
Member, Sigma Pi Sigma
Member, Association for Computing Machinery
Member, IEEE, Computer Society

RESEARCH INTERESTS: information organization and retrieval, web data access, programming languages, user interfaces, and operating systems

Author or co-author of technical reports, computer documentation and software.

PUBLICATIONS AND TECHNICAL REPORTS

Groman, R. C., B. P. Luyendyk, D. A. Richards and C. M. Wooding, 1972, Data Processing of Geophysical Time Series Data. WHOI Reference No. 72-95 by E. Uchupi and K. O. Emery.

Richards, D. A., S. R. Gegg and R. C. Groman, 1974. Preliminary Cruise Report and Index of Geophysical Data CHAIN 115, Leg 1. WHOI Reference No. 74-38.

Richards, D., R. Groman, B. Luyendyk and C. Denham, 1974. Guide to Marine Geophysical Digital Data, 1959-1972. WHOI Reference No. 74-44.

Richards, D. A., R. C. Groman and S. R. Gegg, 1974. Cruise Data Report CHAIN 115 Leg 2 Southlant Expedition. WHOI Reference No. 74-59.

Groman, R. C., 1974. The Digital Data Library System: Library Storage and Retrieval of Digital Geophysical Data. WHOI Reference No. 74-68.

Groman, R. C., S. R. Gegg and J. D. Kroll, 1975. Cruise Data Report R/V Chain 115, Leg 5, Southlant Expedition. WHOI Reference No. 75-29.

Denham, C. R. and R. C. Groman, 1975. Programming for At-Sea Data Processing, contained in the Proceedings of the Working Conference on Oceanographic Data Systems, W.H.O.I., November 12-14, 1975.

Hoskins, H. and R. C. Groman, 1976. Informal Report on Surveys at IPOD Sites AT2.2 and AT2.3. Submitted to IPOD Site Survey Management.

Groman, R. C. and H. Hoskins, 1977. A Complete Navigation and Total Geomagnetic Processing Software Package using the Hewlett-Packard 9830 Calculator. WHOI Reference No. 77-23.

The Marine Geophysical Data Exchange Format - 'MGD77', Compiled by the MGD77 Task Group KGRD No. 10, National Geophysical and Solar-Terrestrial Data Center, September 1977.

Groman, R. C. and J. A. Dunworth, 1978. Cruise Data Report R/V ATLANTIS II 93 Leg 7. WHOI Reference No. 78-38.

Groman, R. C. 1979. Process Scheduling and Memory Management in the VAX -11/780 Computer. WHOI Technical Memorandum 1-79.

Little, William S., Robert C. Groman and Lee Grove. Data Processing and Analysis in Oceanographic Research. Sea Technology, February 1980.

Groman, R. C., 1981. Computer Storage and Retrieval of Position-Dependent Data at WHOI, in Frontiers in Data Storage, Retrieval and Display Proceedings of a Marine Geology and Geophysics Data Workshop, November 5-7, 1980, Boulder, Colorado, NOAA/EDIS/NGSDC June 1981. Allen M. Hittleman, editor.

- Groman, R. C., 1982. Computer Storage and Retrieval of Position-Dependent Data. WHOI Technical Memorandum 82-27.
- Groman, R. C., 1984. The VAX Generation: Management Decisions, USA 1984 Fall Proceedings of the Digital Equipment Computer Users Society, December 10-14, 1984. WHOI contribution number 5854.
- Groman, R. C., 1985. VAXcluster Management and User Experiences, USA 1985 Fall Proceedings of the Digital Equipment Computer Users Society, December, 1985. WHOI contribution number 6111.
- Groman, R. C., 1987. VAX Systems Coexisting in a Multi-vendor Environment, USA 1987 Spring Proceedings of the Digital Equipment Computer Users Society.
- Groman, R. C., 1989. Managing Computer Resources, USA 1989 Fall Proceedings of the Digital Equipment Computer Users Society.
- Groman, R. C., 1996. CD-ROM Appendix in *Deep Sea Research Part II, Topical Studies in Oceanography, Physical-Biological Interactions on Georges Bank and Its Environs*, Volume 43, No. 7-8, 1996. This multi-media CD-ROM is formatted as a self-contained Web site viewed by any standard Web Browser
- Groman, R. C. and Peter H. Wiebe. Management of Biological, Physical, and Chemical Data Within the U.S. GLOBEC Program, in Proceedings of the International Workshop on Oceanographic Biological and Chemical Data Management, May 20 - 23, 1996; NOAA Technical Report NESDIS 8, February 1997.
- Groman, R. C. U.S. GLOBEC Georges Bank Data Management System: A Demonstration, in Boehlert, G. W. and J. D. Schumacher, Eds. 1997. *Changing Oceans and Changing Fisheries: Environmental Data for Fisheries Research and Management*. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-239. Pp 124-125.
- Groman, Robert C. and Peter H. Wiebe, Data Management in the U.S. GLOBEC Georges Bank Program, Marine Technology Society's Ocean Community Conference '98 proceedings, November 1998.
- Fogarty, M. J., P. H. Wiebe, and R. C. Groman. US GLOBEC Georges Bank Program Completes Field Studies. GLOBEC International Newsletter 6.1:14, 2000.
- Groman, Robert C. Report of the 2nd IGBP-DIS Steering Group Meeting, in GLOBEC International Newsletter 6.1:22, April 2000.
- ICES 2002, "ICES/GLOBEC Sea-going Workshop for Intercalibration of Plankton Samplers. A compilation of data, metadata and visual material". ICES Cooperative Research Report, No. 250, May 2002 compiled and edited by Peter H. Wiebe, Lutz Postel, Hein Rune Skjoldal, Tor Knutsen, Molly Dicky Allison, and Robert C. Groman.
- Wiebe, Peter H., R. Beardsley, D. Mountain, M. D. Allison, and R. C. Groman, editors. Report of the U.S. GLOBEC Georges Bank Phase IV Synthesis - Startup Planning Meeting 11-12 July 2002. On-line report, September 2002, at <http://globec.who.edu/globec-dir/phase4doc/july2002/report.shtml>.

Wiebe, Peter H., D. Allison, and R. C. Groman, editors. Report of the U.S. GLOBEC Georges Bank Science Meeting, 18-20 November 2003. On-line report, September 2004, at <http://globec.whoi.edu/globec-dir/phase4doc/simeeting2003/agenda.shtml>.

Wiebe, Peter H., D. Allison, and R. C. Groman, editors. Report of the U.S. GLOBEC Georges Bank Science Meeting, 21 - 25 June 2004. On-line report at <http://globec.whoi.edu/globec-dir/phase4doc/simeeting2004/report.shtml>.

PRESENTATIONS

Groman, R. C. and J. Manning. Introduction and on-line demonstration of the JGOFS data management system, ATSEE Matlab utilities and event log Quattro Pro utility at the U.S. GLOBEC Scientific Investigators' Workshop, October 1994.

Flierl, G. R., R. C. Groman, C. L. Hammond, H. D. Livingston, P. H. Wiebe. A Distributed Data and Information System for JGOFS and the GLOBEC Georges Bank Program, poster session and on-line demonstration at the Fourth Scientific Meeting of the Oceanography Society, Newport, Rhode Island, April 18-21, 1995

Groman, R. C. Update on Data Management Issues, presented at the U.S. GLOBEC Georges Bank Program Scientific Investigators' Workshop, Woods Hole, MA, 16-18 October 1995.

Groman, R. C. U.S. GLOBEC Data Management System Overview for Georges Bank, invited talk at the ICES/GLOBEC Cod and Climate Database Workshop, Woods Hole, MA, 14-16 November 1995

Groman, R. C. Management of Biological, Physical, and Chemical Data Within the U.S. GLOBEC Program. International Workshop on Oceanographic Biological and Chemical Data Management, May 20 - 23, 1996 at Bundesamt für Seeschifffahrt und Hydrographie, Hamburg, Germany.

Groman, R. C. U.S. GLOBEC Georges Bank Data Management System. Presentation to the Center for Marine Science and Technology (CMaST), University of Massachusetts Dartmouth, September 18, 1997.

Groman, R. C. and P. H. Wiebe. The US GLOBEC Georges Bank Study: Data and Information Management System, poster session at the ICES Annual Science Conference 1997, Baltimore, Maryland.

Robert C. Groman and Peter H. Wiebe, Data Management in the U.S. GLOBEC Georges Bank Program, presented at the Marine Technology Society's Ocean Community Conference '98, November 18, 1998.

Robert C. Groman, US GLOBEC Data Management, presented at the W3: PICES-GLOBEC Data Management Workshop: Exchange, Inventory and Archival of GLOBEC Data, Qingdao, China, October 20, 2002

- Groman, R.C. FleetLink: Meteorological and Oceanographic Data Automatically Telemetered from Fishing Vessels, presented at the NOAA's New England Marine Workshop, October 30-31, 2002
- Groman, R.C. Data Management in the U.S. GLOBEC Program, September 11, 2003, presented at the NVO DS Use and Future Directions in Research, Operations, and Education: The 2003 National NVO DS Workshop 10-12 September 2003
- Allison, M.D., R.C. Groman, A.C. Bucklin, P.H. Wiebe, Northeast Consortium Fisheries and Data Management System, poster session presented at the Northeast Consortium Annual Conference/Workshop, Portland, Maine, December 2003.
- Groman, R.C., P.H. Wiebe, M.D. Allison, and G.F. Heimerdinger, U.S. GLOBEC Data Management. American Geophysical Union, 2004 Ocean Sciences Meeting, Portland, Oregon. January 26-30, 2004. (OS32C-24). Eos. Trans. AGU: 84(52) page OS99 [Poster]
- Groman, R.C., P.H. Wiebe, N.H. Vine, and M.D. Allison. The JGOFS/GLOBEC Data Management System for Serving Physical and Biological Oceanographic Data and Plans to Enhance It, presented at the Open Geospatial Consortium Technical Committee Meeting – Natural Resources and Environment Working Group, January 18, 2005, United Nations, New York.
- Allison, M.D., R.C. Groman, C. Manning (UNH), and R. Gallant (UNH). 2005. Northeast Consortium Fisheries Ocean Data Management System. Poster presented at the Marine Fishermen's Forum, Rockport, ME. 27 October 2005 (Presented by M.D. Allison)
- Groman, R.C. Data Management Office and NEP, talk presented at the U.S. GLOBEC Northeast Pacific Scientific Investigators' Meeting, 10 – 12 January 2006, Seattle, WA
- Groman, R.C., P.H. Wiebe, M.D. Allison, G.F. Heimerdinger, A. Schloss, W.J. Armstrong, W.S. Little, N.H. Vine. 2006. Interoperability Enhancements to the JGOFS/GLOBEC Data Management System, AGU, January 2006 (Presented by P.H. Wiebe)
- Manning, C.A., R.C. Groman, M.D. Allison, P.H. Wiebe. 2006. MapServer Interface for the Northeast Consortium Fisheries and Ocean Data Management System, poster presented at the MIT/Sea Grant GIS/Fisheries meeting in Boston, MA, 11 April 2006. (Presented by C.A. Manning)
- Groman, R.C., P.H. Wiebe, M.D. Allison, and G. Heimerdinger. 2006. Adding Interoperability Features to the U.S. JGOFS/U.S. GLOBEC Data Management System, poster presentation at the ICES 2006 Congress meeting, the Netherlands, 19 – 23 September 2006.
- Allison, M.D., R.C. Groman, C. Manning (UNH), and R. Gallant (UNH). 2006. Northeast Consortium Fisheries Ocean Data Management System. Poster and PowerPoint talk presented at the Marine Fishermen's Forum, Rockport, ME. 1 – 4 March 2006 (Presented by M.D. Allison)