

**CYNTHIA EVANGELINE SELLINGER**  
Assistant Professor, Department of Fisheries and Wildlife  
451 Weniger Hall  
Oregon State University  
Corvallis, Oregon 97331  
(541) 740 5519  
[Cynthia.Sellinger@oregonstate.edu](mailto:Cynthia.Sellinger@oregonstate.edu)

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**Personal Data**

Date of Birth: March 4, 1955  
Place of Birth: New Orleans, Louisiana  
Citizenship: U.S.A.

**Education**

- B.S. Earth Sciences (Minor in Mathematics), 1978. University of New Orleans.
- United States Air Force’s Reserve Officer Training Corps--Commissioned, 2<sup>nd</sup> Lieutenant in the United States Air Force, 1978 (achieved the rank of Captain before resigning my commission in 1982).
- Mapping, Charting & Geodetic Officer Certification, 1978. Ft. Belvoir Virginia.
- M.S. Aquatic Sciences, 1994. University of Michigan, School of Natural Resources. (Major in Hydrology was also completed in the School of Engineering). Thesis: Groundwater Flux into a Portion of Eastern Lake Michigan.

**Professional History**

- 2014 – Present: Assistant Professor, Department of Fisheries and Wildlife, Oregon State University, Corvallis Oregon
- 2009 – Present: Research Faculty, College of Earth, Oceans and Atmospheric Sciences, Oregon State University, Corvallis Oregon.
- 2003 – 2009: Deputy Director, Great Lakes Environmental Research Laboratory (GLERL), NOAA, Department of Commerce, Ann Arbor MI.
- 2000 – 2003: Assistant to the Director, Great Lakes Environmental Research Laboratory, National Oceanic and Atmospheric Administration, Department of Commerce, Ann Arbor MI.

- 1998 – 2000 Team Leader, Data Analysis Team, Great Lakes Environmental Research Laboratory, National Oceanic and Atmospheric Administration, Department of Commerce, Ann Arbor MI.
- 1988 – 2000: Physical Scientist, Physical Sciences Division, Great Lakes Environmental Research Laboratory, National Oceanic and Atmospheric Administration, Department of Commerce, Ann Arbor, MI.
- 1983 – 1987: Physical Scientist, Naval Ocean Research and Development Activity (NORDA), Department of Defense, Bay St. Louis Mississippi.
- 1978 – 1983: Captain, 544<sup>th</sup> Target Materials Squadron, Strategic Air Command, United States Air Force, Omaha, Nebraska.

## **Research Cruise Experience**

Physical Scientist on over 10 research cruises with 150 days spent at sea in the North Pacific, South Atlantic, Great Lakes, Gulf of Mexico, and the Caribbean Sea. Chief Hydrologist working with the Detroit Army Corps of Engineers conducting acoustic hydrologic studies in the Detroit and Saint Clair rivers.

## **Research Interests**

Hydrology, predictive modeling of the physical and biological characteristics of the watershed, coastal, and deep ocean ecosystems; specifically: 1) predicting water levels of the Great Lakes by statistically characterizing the hydrologic cycle; 2) forecasting beach closures by developing data-intensive watershed models; 3) applying the hydrological cycle to quantify the amount of the groundwater contributing to the Great Lakes and the Baltic Sea; 4) developing spatially explicit representations of ecosystem environments with remotely-sensed data; 5) modeling underwater acoustic data in support of studies on patchiness, stock abundance, and community size structure in pelagic ecosystems; and, 6) researching the impacts of coastal hypoxia and other physical processes on fish.

## **Government Training**

- Supervisor Training
- EEO and Diversity
- Dealing with Change
- Leadership and Management Development (2 weeks)
- Safety
  - Fire Safety
  - Laboratory Safety
  - Defibrillator, CPR
  - Ergonomics
- Communication Skills
- Dealing with the Press
- Leadership (multiple courses)

- Listening Skills
- Internet Security Training
- AED/CPR Training
- Negativity Training
- Matrix Management
- Union-Management Training
- Alternative Dispute Resolution

## Grants

- Stephen B. Brandt and C.E. Sellinger. Spatially-explicit, high-resolution Mapping and Modeling to Quantify Hypoxia and Oil Effects on the Living Resources of the northern Gulf of Mexico. National Science Foundation, \$46,891. 2010 – 2011. (co-Principal Investigator).
- Stephen B. Brandt and C.E. Sellinger. Habitat Quality and Ecological Efficiency of Pelagic Fish: Growth rate Potential as a Quantitative metric. National Science Foundation. \$295,683. 2014 – 2015. Research Associate (Submitted August 2013 but not funded)
- Cynthia Sellinger and Frank Quinn, 1998. Great Lakes Extreme Water Levels. U.S. Army Corps of Engineers: \$30,000.
- Cynthia Sellinger (NOAA/GLERL) Hydrologic models of the Detroit and St. Clair Rivers 1991 - 1996. DOC: \$50,000. Per year.
- Cynthia Sellinger (NOAA) and Jozef Kyza (University of Warsaw, Poland). A Comparison of Groundwater Discharge into Lake Michigan (USA) and the Baltic Sea (Poland). United States State Department: \$25,000.
- James Matthews (DOD) and Cynthia Sellinger, 1985. Geoacoustic Backscatter Model of the Sea Floor. Naval Research Laboratory: \$70,000.

## Professional Activities

- 2006 – 2009, Briefed Congress (representatives, senators and staff) of the eight Great Lakes states in Washington D.C. concerning declining water levels in the Great Lakes region and the impact on the Great Lakes shipping commerce.
- 2006 – 2008, Served as NOAA representative to a Blue Ribbon Panel, 6-member (3-U.S. 3-Canadian) team appointed by the *International Joint Commission*. This Blue Ribbon Panel created a *Plan of Study* for regulating Lake Superior for navigation, hydropower and environmental impacts.
- 2007, Served on the Subcommittee for Integrated Ocean Resources Management (SIMOR) Working Group # 20—Working With States to Evaluate and Recommend Ways to Improve their Water Quality Program (March 2006-2009).

This subcommittee developed an implementation plan that advanced the workgroup's priorities.

- 2005, Represented NOAA on the Great Lakes Water Conservation and Efficiency Initiative Conservation Committee. This committee was composed of the eight Great Lakes Governors and federal representatives which addressed water diversion issues in the Great Lakes Basin.
- 2005, Served on NOAA's Ecosystem External Review Team White Paper Writing Group. Wrote the Chapter entitled: *Fresh Water Issues*.
- 2003, Served as NOAA's representative to the Great Lakes Interagency Task Force. As the member to the Non-Point Source Pollution team, I crafted a strategy for handling non-point source pollution in the Great Lakes.
- 2001, Participated in a multi-agency (federal, state and local) restoration effort in Maumee Watershed.
- 1997, Served as a Liaison committee member of the USGS's Lake Erie-Lake St. Clair Basin National Water Quality (NAWQA) board. As a member I participated with developing policies and procedures pertaining to the groundwater, surface water, and ecological components of the study.
- 1996 – 2008 Served as a committee member of the Flow Subcommittee of the Coordinating Committee of Great Lakes Hydrologic and Hydraulic Data. In this capacity I worked on Detroit River water level issues as well as coordinated flows for the Detroit and St. Clair Rivers computed by Canada and the U.S.
- 1994, Served as a committee member of the Miller's Creek Project/ Huron Valley Watershed Council. Participated in policy decisions regarding the protection of this tributary to the Huron River.

## **Mentoring and Outreach**

- 2006 – 2009—worked closely with students from the University of Michigan's Undergraduate Research Opportunity Program. Gave presentations to underrepresented students about careers in the fields of hydrology and oceanography; and provided tours and of the NOAA facility and one-on-one conversations with other scientist at the laboratory.
- 2008—mentored an undergraduate student for the Center for Excellence for Great Lakes Habitat Restoration. Instructed him on policies, science and database construction for the Center. Additionally, introduced him to the restoration community by having him attend meetings and file reports.

- 2007—gave over 81 interviews with newspaper, radio, and television stations both nationally and internationally on water level fluctuations.
- 2006-- Gave over 10 Interviews with newspaper and radio on Great Lakes water levels.
- 2002—CNN Interview on water levels.
- Winter 1999—Mentored minority students for the American Society of Limnology and Oceanography.
- Summer 1996 --Trained and supervised a *Partners for Excellence* high-school student in the computer, data analysis area.
- 1994 - 1997 -- Participated as a panelist for the University of Michigan Undergraduate Research Program for Women. In this capacity, I gave presentations about GLERL and my career as a minority and woman scientist.

## **Other Accomplishments**

- Co-convened a Great Lakes workshop entitled: Impact of Climate Change on the Great Lakes Ecosystem: A NOAA Science needs Assessment Workshop to Meet Emerging Challenges, 2008. Resulted in a Technical Report 2009.
- Received Presidential Closing the Circle Award from George W. Bush for Green Ships June 12, 2007
- Received NOAA's General Council Award for Habitat Restoration March 2007
- Received NOAA's Administrator's Award in 2002
- Received a SPECIAL ACT SERVICE AWARD on January 19, 1995.
- Received three Certificates of Recognition for work performance from 1992 - 1994.
- Submitted and had a proposal accepted by the State Department for \$70,000 to work with the Polish government on groundwater inputs to Lake Michigan.
- Received MERITORIOUS OF SERVICE MEDAL on January 1983, for outstanding service as an officer in the United States Air Force.

## **Notable Achievements as Faculty Research Assistant, Oregon State University (CEOAS), 2009 - Present**

- Working on a multidisciplinary team to determine the effects of Climate Change on Chinook salmon Essential Fish Habitat.
- Developed predictive models for the hydrologic interaction between watersheds and beaches for the National Oceanic and Atmospheric Administration's (NOAA) Oceans and Human Health Initiative.
- Co-Authored: Great Lakes Fisheries Policy and Management text book which is published by: Michigan State University Press, East Lansing. This book is used to teach graduate courses at both Michigan State University and the University of Michigan.
- Co-PI on a National Science Foundation (NSF) funded project to assess the impact of the *British Petroleum Oil Spill* (2010) on the Gulf of Mexico's living resources. In this capacity, I participated in an eight-day Gulf of Mexico scientific cruise; developed a state-of-the-art, areal map of fish abundances. Presented the results at AHEMS meeting in Italy; CERF 2011 Florida meeting; and PICES 2013, Vancouver Island, BC, Canada.

## **Notable Achievements as Deputy Director of NOAA/GLERL, 2000 – 2009**

- Served as Deputy Director and assisted the Director in carrying out the day-to-day operations and functions of GLERL which assured effective, efficient, and productive research programs that were keeping with government procedures, policies, and priorities. Managed GLERL's operations. This included supervising all entities that provided GLERL's infrastructure support, i.e. Computer Branch, Administrative Branch, Lake Michigan Field Station, Information Services Branch, and Safety.
- Developed responses to requests from NOAA headquarters, other agencies, and Congress for information concerning managerial, personnel, budget, and regulatory topics.
- Participated in the development of science and facilities initiatives and performance measures for the budget process. Participated in developing GLERL's long-range plans (e.g. Strategic Plan, New Building Plan) and new policies (e.g. Emeritus, Sabbatical).

- As a hydrologist and NOAA's spokesperson for Great Lakes Water Level, I conducted research regarding long-term water level trends. Additionally, I communicated with the media and the general public on a daily basis explaining the science behind water level fluctuations
- Served as Assistant to the Director from 2000 – 2003 before being promoted to Deputy Director.

### **Notable Achievements Hydrologist, Physical Sciences Division, NOAA/GLERL, 1988-2000**

- Obtained a State Department grant to work with the Polish government on a three-year comparative study of groundwater input into both Lake Michigan and the Baltic Sea. In conjunction with Polish and Russian colleagues, designed both field and analytical studies. Conducted field work both on Lake Michigan and the Baltic which eventually led to a comparative model.
- Provided analytical studies of the hydraulic interaction between the connecting channels and ground water flows with water levels of the Great Lakes. These studies were based upon the theoretical application of hydraulic principles to mathematical computer models. Studies included: developing revised roughness values for the Detroit River that represent the present flow regime due to the Zebra Mussel invasion and estimating total groundwater contributions to Lake Michigan.
- Acting Branch Chief of Hydrology Division

### **Notable Achievements as Physical Scientist, Naval Ocean and Development Activity, Stennis Space Center, Bay Saint Louis, Mississippi 1983 - 1987**

- Participated in coastal ocean expeditions and provided documented environmental assessments of the U.S. Atlantic coast's continental shelf. This research led to identifying underwater, geological features such as seamounts and ocean troughs.
- Procured Naval Research Laboratory (NRL) funds to further geoacoustic modeling. This eventually was incorporated into a backscatter computer model to improve submarine navigation.



- Participated in several deep-sea expeditions where my team collected and modeled geoacoustic data.
- Supervisory duties included: hiring, training and supervising teams of graduate students to assist in field and laboratory assignments.

### **Notable Achievements as a Captain in the United States Air Force, Omaha, Nebraska, 1978 – 1983**

- Supervised a unit of forty cartographers and geodesists in the compilation and production of Strategic Air Command navigational products and assured that the work was done in a timely manner.
- Awarded *The Air Force Commendation Medal* for instituting an automated production accounting system which allowed for strict accountability of over 19,000 work requests while, at the same time, reduced manpower requirements.

### **Scientific Publications**

Russell A. Moll, Cynthia Sellinger, Edward Rutherford, Jennifer Lee Johnson, Michael Ryan Fainter, and John E. Gannon, 2013. The Great Lakes Ecosystems, pp 3 - 29. In: Great Lakes Fisheries Policy and Management: A Binational Perspective. Michigan State Press. 620 pp.

Xuezhi Bai, J. Wang, C.E. Sellinger, A.H. Clites and R.A. Assel, 2012. Interannual variability of Great Lakes ice cover and its relationship to NAO and ENSO. *Journal of Geophysical Research* 117(C03002). 25 pp.

Xuezhi Bai, Jia Wang, Cynthia Sellinger, Anne Clites, and Raymond Assel, 2010. The Impacts of ENSO and AO/NAO on the Interannual Variability of Great Lakes Ice Cover. NOAA Technical Memorandum ERL GLERL-152. U.S. Department of Commerce. 44pp.

M.A. Quigley, C.E. Sellinger, S.B. Brandt, D.M. Mason, J. Wang, and C. DeMarchi, 2009. Impact of Climate Change on the Great lakes ecosystem: a NOAA science needs assessment workshop to meet emerging challenges, July 29-31, 2008, full final report. NOAA Technical Memorandum ERL GLERL-147a. U.S. Department of Commerce. 61pp.

Sellinger, C.E., C.A. Stow, E. C. Lamon and S.S. Qian, 2008. Recent Water Level Declines in the Lake Michigan-Huron System. *Environ. Sci. Technol.* 42, 367-373.

- Quinn, F.H. and C.E. Sellinger, 2006. A Reconstruction of Lake Michigan-Huron Water Levels Derived from Tree Ring Chronologies for the Period 1600 – 1961. *J. Great lakes Res.* 32(1): 29-39.
- Carter, G., P. Restrepo, J. Hameedi, P. Ortner, C. Sellinger, J. Stein and T. Beechie, 2006. Freshwater Issues. pp.29-39. In: S.A. Murawski and G.C. Matlock (editors). *Ecosystem Science Capabilities Required to Support NOAA's Mission in the Year 2020*. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-F/SPO-74. 97pp.
- Assel, R.A., F.H. Quinn and C.E. Sellinger. Hydroclimatic Factors of the Recent Record Drop in Laurentian Great Lakes Water Levels, 2004. *Bulletin of American Meteorological Society* 85(8). 1143pp.
- Sellinger, C.E., and F.H. Quinn, 2001. Assessment of Impacts of Increased Weed Growth on the Detroit River Flows. NOAA Technical Memorandum ERL GLERL-119. U.S. Department of Commerce. 12pp.
- Sellinger, C.E. and F.H. Quinn, 1999. Proceedings of the Great Lakes Paleo Levels Workshop: The Last 4000 years. NOAA Technical Memorandum ERL GLERL-113. U.S. Department of Commerce. 43pp.
- Sellinger, C.E. Water Levels of the Great Lakes, 1999. Great Lakes Environmental Research Laboratory (Brochure Series)
- Beeton, A.M., Sellinger, C.E., and D.F. Reid, 1999. An Introduction to the Laurentian Great Lakes System, pp 3-55. In: *Great Lakes Fisheries Policy and Management: A Binational Perspective*. Michigan State University Press. 551pp.
- Sellinger, C.E., 1997. La Nina and the Great Lakes Region. Great Lakes Environmental Research Laboratory (Brochure Series).
- Sellinger, C.E., 1996. Computer Program for Performing Hydrograph Separation Using the Rating Curve Method. NOAA Technical Memorandum ERL GLERL-100. U.S. Department of Commerce. 11pp.
- Sellinger, C.E., 1996. Computer Program for Estimating Evapotranspiration Using the Thornthwaite Method. NOAA Technical Memorandum ERL GLERL-101. U.S. Department of Commerce. 9pp.
- Sellinger, C. E., 1995. Groundwater Flux into a Portion of Eastern Lake Michigan. *Journal of Great Lakes Research*, 21(1): 53-63.
- Assel, R.A., C.E. Sellinger, D.E. Meyer, R.N. Kelley and Peter Grimm, 1995. Great Lakes States Monthly Average Temperature Data--Beginning of Record to 1990. NOAA Technical Memorandum ERL GLERL-88, Great Lakes Environmental Research Laboratory, Ann Arbor, MI. 51pp.

- Assel, R.A., C.E. Sellinger, D.E. Meyer, and R.N. Kelley, 1995. Great Lakes States Monthly Precipitation Data--Beginning of Record to 1990. NOAA Technical Memorandum ERL GLERL-86, Great Lakes Environmental Research Laboratory, Ann Arbor, MI. 39pp.
- Quinn, F.H., J.A. Derecki, and C.E. Sellinger, 1993. Pre-1900 St. Clair River Flow Regime. *Journal of Great Lakes Research* 19(4) 660-664.
- Sellinger, C.E., 1991. Hydromet Database Source Code. Open-File Report. GLERL Contribution No. 741. 50pp.
- Quinn, F.H., and C.E. Sellinger, 1990. The Lake Michigan Record Levels 1838, a Present Perspective. *Journal of Great Lakes Research* 16(1): 133-138
- Caruthers, J.W., P.C. Rowe, J.E. Matthews, C.E. Sellinger, G.A. Kerr, 1987. The Bi-Static Scattering Strength Model. Proceedings of the 37th Annual Navy Symposium on Underwater Acoustics. NRL, Washington D.C. 15pp.
- Sellinger, C.E., and D.L. Lavoie, 1987. Geoacoustic Models of the Hudson Canyon Area. NORDA Report 161, NSTL, Ms. 20pp.
- Sellinger, C.E., 1987. Geoacoustic Models of Broadband '85 Site Bravo and Echo. NORDA Report 171, NSTL Ms. 10 pp.
- Sellinger, C.E., J.E. Matthews, W. Geddes, 1987. Environmental Assessment of Project Gemini. NORDA Report 210. NSTL, Ms. 12pp.
- Bucca, P.J., C.E. Sellinger, J.E. Matthews, 1985. Preassessment of Environmental Conditions on the Continental Shelf Adjacent to Jacksonville Florida. NORDA Report 88, NSTL, Ms. 18pp.

## **Scientific Presentations**

- Brandt, S. B. and C. Sellinger. 2013. Growth rate potential as a quantitative ecosystem indicator of habitat quality. Annual Meeting of PICES – North Pacific Marine Science Organization. October 11 – 20, Nanaimo, BC, CAN.
- Brandt, S. B., C. Sellinger, S. Kolesar and D. Jensen. 2013. Hypoxic impact on fish habitat quality: Winners and losers. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, LA.
- VanderWoude, A.J., D.M. Mason, H. Zhang, C. Stowe, A. Adamack, K. de Musert, J.J. Pierson, M. R. Roman, S.B. Brandt, S. Kolesar and C. Sellinger. 2013. The effects of hypoxia on the food web of the Northern Gulf of Mexico: An Atlantis

- ecosystem modeling approach. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, LA.
- Brandt, S. B., M. Roman, J. Pierson, S. Kolesar, B. Boicourt, C. Sellinger. 2011. How does hypoxia affect habitat quality of fishes? Advancing the Science of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico. February 13-18, 2011. Invited presentation.
- Roman, M., J. Pierson, S. Brandt, S. Kolesar, C. Sellinger, J. Cowan, D. Mason, C. Stow, S. Sable, A. Adamack. 2011. CSCOR NGOMEX: Effects of hypoxia on production potential of ecologically and commercially important living resources in the northern Gulf of Mexico. Advancing the Science of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico. February 13-18, 2011. Poster presentation.
- Brandt, S. B., C. Sellinger, S. Kolesar, M. Roman, J. Pierson, B. Boicourt. 2011. How does hypoxia affect habitat quality of fishes? Annual Meeting of the Coastal and Estuarine Research Federation. Poster. Daytona, FL November 6 - 10, 2011.
- Brandt, S. B., Sellinger, C.E., Kolesar, S., Roman, M., Pierson, J., and, Boicourt, B., 2011. How does Hypoxia affect habitat quality of fishes? AEHMS Conference, ITALY.
- Sellinger, C., S. Brandt and T. Hunter. 2009. Forecasting Beach Closures Using Statistical Methods. Oceans and Human Health Meeting. October, 6 -8, Seattle, Washington. Invited presentation.
- Sellinger, C.E., 2008. Great Lakes water levels and Climate Impacts. Climate Change Impacts on Great Lakes Ecosystems Workshop. University of Michigan, Ann Arbor, Mi.
- Sellinger, C.E., 2007. Great Lakes Water Quality Research. International Joint Commission Near Shore Water Quality Workshop. Toledo, Ohio.
- Sellinger, C.E., 2007. The Rise and the Fall of Great Lakes Water Levels. Great Lakes Congressional Caucus. Traverse City, MI.
- Sellinger, C.E., Luson LTC, S. Thieme, D. Fay, A. Chow, and P. Pilon, 2005. Presented the results of a four-month study to regulate Lake Superior to the International Joint Commission Commissioners at their Semi-Annual meeting in Ottawa, Ontario Canada.
- Sellinger, C.E. 2002. Great Lakes Water Levels, a Present Perspective. Presented at the U.S. Capitol Building (Washington D.C.) to Congressional Staffers—sponsored by the North-east Min-west Coalition.

- Sellinger, C.E., 2002. Lake Erie Water Levels—Outlooks for the Future. Presented to approximately 100 sportsmen at a Sea Grant sponsored outreach meeting in Michigan.
- Sellinger, C.E. 2001. Great Lakes Water Levels, a Present Perspective. Presented at the U.S. Capitol Building (Washington D.C.) to Congressional Staffers—sponsored by the North-east Min-west Coalition.
- Sellinger, C.E., 1999. Large Lakes Groundwater Budget--Lake Michigan, a Case Study. American Society of Limnology and Oceanography, Sante Fe, New Mexico.
- Sellinger, C.E., 1999. La Nina and Possible Effects on the Great Lakes. Great Lakes Environmental Research Laboratory, Seminar Series.
- Sellinger, C.E., 1998. Recharge Estimates to Lake Michigan--The Water Budget Method. International Association of Great Lakes Research (IAGLR), Hamilton, Ontario.
- Sellinger, C.E., 1997. Detroit River Turbulent Flows in Conjunction with Episodic Events. International Association of Great Lakes Research. Buffalo, New York.
- Sellinger, C.E., 1997. Detroit River Flows Weed Retardation. Coordinating Committee on Great Lakes Basic Hydrologic and Hydraulic Data. Buffalo, New York.
- Sellinger, C.E., 1996. Lake Michigan Groundwater Progress. Joint United States, Polish and Russian Conference. Wroclaw, POLAND.
- Sellinger, C.E., 1995. Groundwater Flux into a Portion of Eastern Lake Michigan. International Association of Great Lakes Research. Lansing, MI.
- Sellinger, C.E., 1994. Groundwater Flux into a Portion of Eastern Lake Michigan. GLERL Seminar Series, Ann Arbor, Mi.
- Sellinger, C.E., 1993. St. Clair River Flow Regime. International Association of Great Lakes Research. De Pere, Wisconsin.
- Sellinger, C.E., 1993. Great Lakes Physical Sciences Division's Modeling Program. Presentation to Congressional Aids visiting GLERL.
- Sellinger, C.E., 1990. Hydromet Database Directory. International Association of Great Lakes Research. Buffalo, NY.
- Sellinger, C.E., 1987. Geoacoustic Model of Hudson Bay Area. NORDA Seminar Series, Bay St. Louis, MO.