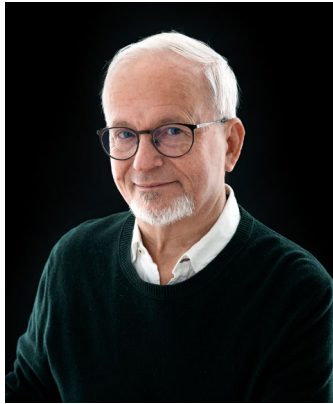




Anders Omstedt

Male, born in 1949, married, three children.

Dept. of Marine Sciences, University of Gothenburg

Box 461, SE-405 30 Göteborg, Sweden

Home address: Ektorpsgratan 114, 603 74 Norrköping, Sweden

Mobile: +46 (0)709 49 24 77

Email: anders.omstedt@marine.gu.se

Homepage: <http://marine.gu.se/personal/andersomstedt>

Research Gate: https://www.researchgate.net/profile/Anders_Omstedt

Research:

How do the earth's water body function, and how will future changes influence them? We need to understand water, energy, nutrient, carbon cycles, ecosystem changes, and human behaviour to answer these questions. The coupling between water bodies, atmosphere, and surrounding land surfaces is also of significant interest. The main research approaches are detection studies by using and developing long-time series and attribution and scenario studies using and developing aquatic process-oriented models. Recent research focuses are the human role and the connection between science and the arts. The research takes part in the Baltic Earth-BALTEX program and as a member of the Future Earth Coasts.

An interview with Anders Omstedt, including a video statement on his professional life and science in general, conducted by Hans von Storch and Marcus Reckermann, is available at: <https://baltic.earth/interviews>

Professional Experiences:

Positions:

- Professor emeritus, Department of Marine Sciences, University of Gothenburg, 2016-10-
- Deputy Head of Department of Earth Sciences, University of Gothenburg, 2012-07-01 - 2015-06-30
- Coordinator at Swedish Institute for the Marine Environment, 2009-11-01 – 2013-12-31
- Member of the Faculty Board of Science at the University of Gothenburg, 2009-07-01—2011-06-31
- Deputy Head of the Department of Earth Sciences, University of Gothenburg. 2006-07-01--2009-06-30, 2012-07-31-
- Chairman of the Research Strategic Group (PROF) at the Department of Earth Sciences, University of Gothenburg. 2006-07-01—2009-06-31, 2012-07-01-
- Member of the Advisory Group at the Department of Earth Sciences, University of Gothenburg. 2006-07-01 --2009-06-31, 2012-07-01-
- Chairman of the Appointment Committee at the Department of Earth Sciences, University of Gothenburg. 2003-09-16 -- 2006-06-30
- Head of the Ocean Climate Group at the University of Gothenburg, Department of Earth Sciences - Oceanography, 2001-10-01--
- Professor, University of Gothenburg, Earth Sciences Centre-Oceanography, 2001-10-01--
- Head of oceanographic research, SMHI, 2000-06--2001-09
- Visiting Professor in Oceanography, University of Gothenburg, 1998-2001
- Research Scientist, SMHI, 1992-12--2000-05
- Visiting Scientist, Institute of Ocean Sciences, Canada, 1992-07--11
- Visiting Scientist, Canada Centre of Inland Waters, 1992-01--06
- Associate Editor, Journal of Geophysical Research 1991--1994
- Head of oceanographic research, SMHI, 1986--1992
- Senior oceanographer, SMHI, 1982--1986
- Meteorologist, SMHI, 1975--1982
- Meteorological assistant, SMHI, 1973--1975

Degrees:

- Associate Professor, University of Gothenburg, 1990.
- Ph.D., Göteborg University, Physical Oceanography, 1985-11-09. Thesis: On cooling and initial ice formation in the upper layers of the ocean.
- B.Sc., Stockholm University, Mathematics, Physics, Meteorology and Oceanography, 1974.

Key qualifications:

Prof. Anders Omstedt has participated actively in several national and international scientific bodies and has an active role in the BALTEX (Baltic Sea Experiment) and BONUS programs and was active in the MUSCAD (Multi proxy Studies of Climate Anno Domini) and EUROCEAN programs. He has been involved in the built-up phase of the Stockholm Marine Centre as a member of the board during 1990-1991 and 1993-1998. He was responsible for coordinating the BALTEX research within SMHI (1995-2001). Since 1996 he has been a member of the BALTEX Science Steering Group, between 1997-2002 chairman of the Swedish IGBP (International Geosphere-Biosphere Programme) and WCRP (World Climate Research Programme) Subcommittee for BALTEX and 2000-2006 a member of the Swedish National Committee for the IGBP and WCRP. At SMHI he was responsible for the BALTEX Ph. D. program, which included four Ph. D. students working on atmosphere, river-runoff, and ocean modeling.

Anders Omstedt is since 2001 Professor at the University of Gothenburg, Department of Earth Sciences: Oceanography and from 2016 at Department of Marine Sciences. Earlier he was the Head of Oceanographic Research at SMHI and Visiting Professor at University of Gothenburg having an extensive experience in ocean and lake modeling. During 2007-2009 he was Deputy Head of Department of Earth Sciences at University of Gothenburg where he was involved in the reorganization of the department and responsible for research.

His main work has been oriented towards the ocean climate and the physics of ice-covered water bodies, in particularly the Baltic Sea and the polar oceans. He has developed several numerical models for cold water bodies such as rivers, lakes, estuaries, shelf seas and the polar oceans. His recent research work is oriented towards climate change and modelling of coupled physical-biogeochemical systems including the carbon cycle.

Anders Omstedt has written about 250 articles, books and book chapters, more than 100 of which have been published in reviewed international journals and books. His professional experience involves project/scientific leader for many research programs, reviewer and guest editor, chairmen and convener, invited speaker, opponent for Ph. D. thesis, member of examination committees, tutor for M. Sc and Ph. D. thesis, member of international unions and working groups.

Awards and Honors:

- Chair of the Baltic Earth Working Group on Philosophical Views of Baltic Earth and Science, 2023-
- Member and mentor in Expert Panel on the reaccreditation of the University Postgraduate (Doctoral) Programme *Oceanology* University of Zagreb, Faculty of Science, Croatia, April 2018.

- Member and mentor in Expert Panel on reaccrediting the University Postgraduate (Doctoral) Programme *Applied Marine Sciences* University of Split, Faculty of Science, Croatia, April 2018.
- Elected member of the Faculty Board of Science, University of Gothenburg, 2009-2012.
- Deputy Head of Department of Earth Sciences, University of Gothenburg, 2006-2009.
- Deputy Head of Department of Earth Sciences, University of Gothenburg, 2012-2015
- Member of BALTEX Science Steering Group and Co-Chair of BALTEX, 1995-2013
- Member of the Baltic Earth Science Steering Group, 2014-2017
- Member of the Baltic Earth Senior Advisory Board, 2018-
- Certificate of Excellence in recognition of outstanding achievements for the Baltic Earth and BALTEX science communities, June 2016

Project/scientific leader of major research programs:

- Commercial shipping as a source of acidification in the Baltic Sea. Together with David Turner, Ida-Maja Hasselöv, Angela Wulff, Anna Rutgersson. FORMAS, 2013-2016.
- BONUS/Baltic-C program. Coordinator and principal investigator. 2009-2011.
- Modelling carbon dioxide in the Baltic Sea from pre-industrial times to the present and into the future (AD1500-2100). The Swedish Research Council, 2007- 2012
- EUR-OCEANs (European Network of Excellence for Ocean Ecosystems Analysis). Principal investigator. The Sixth Framework Programme for Research and Technological Development of the European Communities (FP6). 2005--2008
- Geosphere Dynamics; especially the Baltic Sea water and mass transport. Göteborg University and Swedish Natural Science Research Council. 2001-10-01--
- The climate sensitivity of sea ice. Research related to sea ice in the Baltic Sea and climate. Financed by the Swedish and Finnish Winter Navigation Research Board. 2000-2001.
- SMHI's part in: Salinity change in the Baltic Sea during the last 8500 years and during the coming 10 000 years. Financed by SKB, 1999-2000.
- SMHI's part in: Pilot study of Evaporation and Precipitation in the Baltic Sea (PEP in BALTEX): A field experiment of BALTEX, financed by EU-MAST III, 1997-2000.
- SMHI's part in: Baltic Air-Sea-Ice Study (BASIS): A field experiment of BALTEX, financed by EU-MAST III, 1997-2000.
- Coordinating the SMHI's part within the BALTEX research, 1995-2001
- SMHI's part in: Ice formation and the influence of ice-coverage on the circulation in the Baltic Sea, Part of the BASYS project financed by EU-MAST III, 1996-1999.
- The role of sea ice in the climate system. NFR, 1995/96-1998.
- Modeling of inflow and dense bottom water mixing in non-tidal seas and Great Lakes. NFR, 1993/94-94/95.
- The thermohaline circulation in the Gulf of Bothnia. Financed by the Swedish Environmental protection Agency, 1990/91-91/92.

- The oceanographic conditions in ice covered seas - three model studies. Financed by NFR, 1990/91-92/93.
- On the thermal and dynamic control of an ice cover in semi-enclosed seas. Financed by NFR, 1988/89.
- Model computations of bottom boundary currents related to the Baltic Sea. Financed by the Natural Sciences Research Council (NFR), 1987/88.
- Forecasting sea ice. Research related to operational forecasting of sea ice in the Baltic Sea. Financed by the Swedish and Finnish Winter Navigation Research Board. 1983-1996.

Reviewer and guest editor in the following journals/books:

- Editor in Oxford Research Encyclopedia of Climate Change, 2016 - 2022
- BACC II Author Team (2015). Second Assessment of Climate Change for the Baltic Sea basin. Springer Regional Climate Studies. ISSN 1862-0248 ISSN 1865-505X (electronic). ISBN 978-3-319-16005-4 ISBN 978-3-319-16006-1 (eBook). DOI 10.1007/978-3-319-16006-1. Springer Cham Heidelberg New York Dordrecht London.
- Editorial Board of OCEANOLOGIA, 2014 -
- Limnology and Oceanography
- BACC Author Team (2008) Assessment of climate change for the Baltic Sea basin. Series: Regional Climate Studies. ISBN: 978-3-540-72785-9. Springer-Verlag.
- BACC Group (2007) "BALTEX assessment of climate change for the Baltic Sea basin", Springer-Verlag
- Global and Planetary Change
- FORMAS Fokuserar 9: Österjön – hot och hopp. ISBN 91-540-5970-4. FORMAS, Stockholm, Sweden
- Boreal Environment Research
- Continental Shelf Research
- Cold Regions Science and Technology
- German Journal of Hydrology
- Geophysica (Editorial Board, 2001-)
- Journal of Geophysical Research
- Journal of Marine Systems
- Journal of Fluid Mechanics
- Journal of Physical Oceanography
- Journal of Sea Research (Guest editor)
- Meteorologische Zeitschrift
- Nordic Hydrology
- Oceanologica Acta
- Tellus
- The Netherlands Journal of Sea Research

Chairman, convener or invited speaker:

- Member of the Science Conference Committee for 5rd Baltic Earth Conference and session chair. New challenges for Baltic Sea Earth System Research. Jurmala, Latvia, 13-17 May, 2024.
- Earth system changes and Baltic Sea Coasts. Jastarnia, Hel Peninsula, Poland, 1-5 June, 2020.
- Keynote speaker during 3rd Baltic Earth Conference. Earth system changes and Baltic Sea Coasts. Jastarnia, Hel Peninsula, Poland, 1-5 June 2020. Via internet.
- Member of the Science Conference Committee for 3rd Baltic Earth Conference. Earth system changes and Baltic Sea Coasts. Jastarnia, Hel Peninsula, Poland, 1-5 June, 2020.
- Member of the Science Conference Committee for 2nd Baltic Earth Conference. The Baltic Sea Region in Transition. Helsingør, Denmark, 11-15 June, 2018.
- Over arching talk: "The development of climate science of the Baltic Sea region" during 2nd Baltic Earth Conference. The Baltic Sea Region in Transition. Helsingør, Denmark, 11-15 June, 2018.
- Invited speaker: A Doctoral Students Conference: Challenges for Earth system sciences in the Baltic Sea region: From measurements to models. University of Tartu and Vilsandi Island, Estonia, 10-14 August, 2015.
- Invited speaker: International advanced PhD course on: Impact of climate change on the marine environment with special focus on the role of changing extremes. Askö Laboratory, Trosa, Sweden, 24-30 August, 2015.
- Co-convener during EGU General Assembly 2015. Vienna Austria 12-17 April. Climate change assessments for the Baltic and North Sea regions: Observations, model projections and impacts. Convener: Marcus Reckermann. Co-Conveners: Corinna Schrum, Markus Quante, Anders Omstedt
- Co-chairmen of BACC II (BALTEX Assessment of Climate Change for the Baltic Basin) Invited Speaker University of Szczecin, Poland. "Baltic Sea past, present and future marine system". 15 march 2010.
- Invited speaker "Dissent is the Motor of Further Development". Scientific Symposium on the Occasion of the 60th Birthday of Prof. Hans von Storch, October 16, 2009, Hamburg, Germany.
- Invited speaker 7th Baltic Sea Science Congress 2009, August 17-21, 2009, Tallinn, Estonia.
- Invited speaker ICCMI 2008-Impact of Climate Change on the Maritime Industry, June 2-4, Malmö, Sweden.
- Chairman during Assessment of Climate Change for the Baltic Sea Basin-The BACC Project. International Conference. Göteborg, Sweden, 22-23 May, 2006.
- Invited speaker during ESF/COST workshop on "Ocean climate around Europe" 20 -21 January, 2005. Title: Monitoring programs needed for detection of ocean climate change.
- Chairman during the third MUSCAD (Multi-proxi Studies of Climate Anno Domini) Göteborg, 2004.
- Chairman and Invited speaker during The Fourth Study Conference on BALTEX, Gudhjem, Bornholm, 24-28 May, 2004.
- Chairman of the Appointments Committee for Geosciences at Göteborg University, 2003-

- Invited speaker for the Tvärminne Zoological Station Celebrating its 100th anniversary. September 18-21, 2002. Title: Knowledge gained about the Baltic Sea from the BALTEX program.
- The program and organization Committee of the Fourth Workshop on the Baltic Sea Ice Climate, Norrköping, Sweden, 22-24 Mai, 2002.
- Co-convenor 24th General Assembly of the EGS, the Hague, 19-23 April 1999.
- Chairman during The Second Study Conference on BALTEX, Rugen, Germany, May, 1998.
- European Geophysical Society, Vienna 1997.
- Chairman of the Second Workshop on the Baltic Sea Ice Climate, Otepää, Estonia, 2-5 Sept., 1996.
- The First Workshop on the Baltic Sea Ice Climate, Tvärminne, Finland, 1993
- European Geophysical Society, Copenhagen, 1990
- Conference of the Baltic Oceanographers, Norrköping, 1990
- International Association for Hydraulic Research, Helsinki, 1990
- Symposium on the Marine Environment, Linköping, 1986

Appointed faculty opponent or evaluator for following Ph. D., and licentiate thesis:

- Julia, C., Muchowski. Uncovering ocean mixing near rough bathymetry: Using broadband acoustics. Department of Geological Sciences. Stockholm University. PhD thesis in marine geology. 5 April 2023.
- Amna Salah El-Din Mohammed Ali Dabbous. Alexandria University, Egypt. External reviewer for Ph.D. thesis in oceanography. 2020.
- Jari Uusikivi, 2013. On optical and physical properties of sea ice in the Baltic Sea. Ph D thesis University of Helsinki, Finland.
- Marius Årthun, 2011. Water mass transformations and air-sea exchange in the Barents Sea. University of Bergen, Norway.
- Mats Granskog 2004. Investigations into the Physical and Chemical Properties of Baltic Sea Ice. Department of Geophysics, University of Helsinki. Ph. D thesis March 6, 2004.
- Bin Chen, 2002. On the modelling of sea ice thermodynamics and air-ice coupling in the Bohai Sea and the Baltic Sea. Department of Geophysics, University of Helsinki. Ph. D thesis May 8, 2002.
- Zhanhai Zhang, 2000. On modelling ice dynamics of semi-enclosed seasonally ice-covered seas. Department of Geophysics, University of Helsinki. Ph. D. thesis September 8, 2000.
- Lars Henrik Smedsrud, 2000. Frazil ice formation and incorporation of sediments into sea ice in the Kara Sea. Geophysical Institute, Bergen University. Ph. D. thesis.
- Madleine Carlsson, 1997. Sea level and salinity variations in the Baltic Sea. An oceanographic study using historical data. Department of Oceanography, Gothenburg University. Ph. D. thesis.

- Lars Hammar, 1994. Frazil ice evolution in open channels. Luleå University of Technology. Tech. Licentiate thesis.

Member of the following boards, working groups and societies:

- Member of Baltic Earth Science Senior Advisory Board (BESAB, <https://www.baltic-earth.eu/organisation/besab.html>), 2013-
- Member of Baltic Earth Science Steering Group (BESSG; <http://www.baltic-earth.eu/organisation/bessg.html>), 2014-2018
- Member of Conference Committees for 1st Baltic Earth Conference: Multiple drivers for Earth system changes in the Baltic Sea region. Nida, Curonian Spit, 13-17 June, 2016.
- Member of the Conference Committee for the 9th Baltic Sea Congress, 26-30 August, 2013, Klaipeda, Lithuania.
- Member of the Conference Committee and organisation Committee for the 7th Study Conference on BALTEX, Borgholm, Island of Öland, Sweden, 10-14 June 2013.
- Member of the International Conference on Assessment of Climate Change for the Baltic Sea Basin, Tallinn, Estonia, 6-7 September, 2012.
- Member of Conference Committee for the 8th Baltic Sea Science Congress on August 22-26, 2011 in St.Petersburg, Russia.
- Member of Conference Committee for 6th Study Conference on BALTEX. Miedzyzdroje Island of Wolin, Poland, 14-18 June 2010.
- Member of the Advisory Committee of Forum Östersjön, 2009 -
- Member of the organization committee for the International Advanced PhD Course on: Climate impact on the Baltic Sea from science to policy. 27 July-5 August, 2009, Nexö, Bornholm, Denmark.
- Member of Scientific Advisory Committee for the 6th Workshop on Baltic Sea Ice Climate, August 25-28, 2008. Lammi Biological Station, Finland.
- Member of Conference Committee for 5th Study Conference on BALTEX. Kuressaare, Saaremaa, Estonia, 4-8 June 2007.
- Member of the science steering committee for the Baltic Sea Science Congress, Rostock, Germany, March 19-13, 2007.
- Elector for forming the new board at the Swedish Research Council, 2006.
- Working group forming new board at the Faculty of Science at Göteborg University, 2005.
- The scientific committee of the fifth Workshop on the Baltic Sea Ice Climate, Hamburg, Germany, 2005.
- The scientific committee of the Baltic Sea Science Congress 2005 in Sopot, Poland.
- Co-chair person for the Workshop: Climate variations in Sweden During the Past 2000 Years. SMHI, 2005.
- The organization committee for the Workshop: Climate variations in Sweden During the Past 2000 Years. Göteborg University, 2004.
- The organization committee for the Workshop: Climate variations in Sweden During the Past 2000 Years. Uppsala University, 2003.

- The organization committee for the Workshop: Climate variations in Sweden During the Past 2000 Years. Stockholm University, Nov 6-8, 2002.
- SWECLIM-MARE workshop on Processes of importance for the large-scale salinity distribution of a semi-enclosed sea such as the Baltic at Kristineberg, Sweden, 4-6 November, 2002.
- The scientific program committee of the Fourth Study Conference on BALTEX, Bornholm, Denmark, 2004.
- The program and organization committee of the Fourth Workshop on the Baltic Sea Ice Climate, Norrköping, Sweden, 22-24 May, 2002.
- The organisation committee for Climate and Ozone: Programme Conference, Bergen, 27-29 November, 2001.
- The scientific program committee of the Third Study Conference on BALTEX, Mariehamn, Åland, 2-6 July, 2001.
- BALTEX Working Group of Energy and Water Cycles 1998-2005
- KLIMAProg (the Norwegian Climate Program) board 2001-2002.
- The Swedish national committee for the IGBP and WCRP, 2000-
- Advisory board for the Baltic Sea Science Congress 2001 and 2003.
- The BALTEX/BRIDGE Task Force, 1998-
- The scientific program committee of the Second Study Conference on BALTEX, Rugen, Germany, May 25-29, 1998.
- Chairmen of the Swedish IGBP-WCRP Subcommittee for BALTEX, 1997-
- The Scientific Steering Group of BALTEX, 1996 -
- The program and organization committee of the Second Workshop on the Baltic Sea Ice Climate, Otepää, Estonia, 2-5 Sept., 1996.
- The Swedish IGBP - WCRP Subcommittee for BALTEX, 1993 – 1997.
- The scientific and local organization committee of the First Study Conference on BALTEX, Visby, Sweden, Aug. 28- Sept. 1, 1995.
- The scientific and local organizing committees of an Advanced Study Institute School: "Physics of Ice-covered Seas, Savonlinna, Finland, 1994", 1992-1994.
- The International Association for Hydraulic Research, Committee on Ice Problems, 1992 – 1996.
- The evaluation commission of the Marine Research in Estonia, 1991 – 1992.
- The board of Stockholm Marine Research Center, 1990 - 1991, 1993 -1998.
- The International Association for the Physical Sciences of the Ocean (IAPSO) Commission on Sea Ice, 1987 – 1997.
- The International Association for Hydraulic Research, Working Group on the Thermal Regime of Water Bodies, 1986 – 1996.
- The Swedish Geophysical Society.
- The European Geophysical Society.
- The American Geophysical Union.
- The Swedish Marine Society.

Member of examining committee for the following Ph. D. thesis, associate professor and post-doctoral positions:

- Hongxing He, Ph D planned to 2015, Göteborg, Sweden.
- Johanna Linders, PhD planned to 2015, Göteborg, Sweden.
- Peng Zhang, pH D 2015, Göteborg, Sweden.
- Jesper Björklund PhD 2014, Göteborg, Sweden.
- Selma Pacariz, PhD 2013, Göteborg, Sweden.
- Thinghai Ou, Ph D, Göteborg, Sweden.
- Cecilia Bennet, Ph D., Göteborg, Sweden, 2009.
- Lin Tang, Ph D., Göteborg, Sweden, 2009.
- Johan Burman, Ph. D., Göteborg, Sweden, 2006.
- Christine Aschberger, Ph. D., Göteborg, Sweden, 2004.
- Mikkel Sanders, Ph. D., Lund, Sweden, 2003.
- Cecilia Johansson, Ph. D., Göteborg, Sweden, 2003.
- Anna Sjöblom, Ph.D., Uppsala, Sweden, 2002.
- Karin Gustafsson, Ph. D., Göteborg, Sweden, 2002.
- Bengt Liljebladh, Ph. D., Göteborg, Sweden, 2000.
- Charlotta Pers, Ph. D., Linköping, Sweden, 2000.
- Evaluation of postdoctoral position in Oceanography, University of Gothenburg, Sweden, 2000.
- Bo Gustafsson, Ph. D., Göteborg, Sweden, 1997.
- Göran Björk, Ass. Prof., Göteborg, Sweden, 1997.
- Annika Andersson, Ph. D., Luleå, Sweden, 1997.
- Johan Mattson, Ph. D., Göteborg, Sweden, 1996.
- Lars Rydberg, Ass. Prof, Göteborg, Sweden, 1996.
- Elias Valur Holm,, Ph. D., Stockholm, Sweden, 1994.
- Johan Rodhe, Ph. D., Göteborg, Sweden, 1992.
- Bertil Håkansson , Ph. D., Göteborg, Sweden, 1990.

Tutor for the following thesis:

- Moa Edman, PhD Thesis, Modelling the Dissolved Inorganic Carbon System in the Baltic Sea, Department of Earth Sciences, University of Gothenburg, 2013, <https://gup.ub.gu.se/publication/184857>
- Johannes Johansson, Master of Science. Characterizing the surface accumulation of cyanobacteria in the Baltic Sea using remote sensing and in situ data during the period 2002-2014. Department of Earth Sciences, University of Gothenburg, 2015 B883.
- Irene Wåhlström, PhD Thesis. Fluxes and transformation of Carbon in the Siberian Shelf Sea under changing Environment. University of Gothenburg, Department of Chemistry and Molecular Biology. 2012. Together with Leif Anderson (Main supervisor) and Göran Björk.

- Karin Wesslander, PhD Thesis. The Carbon Dioxide Systems in the Baltic Sea Surface Waters. University of Gothenburg, 2010. Doctoral thesis No. A 137.
- Victor Veiderpass, Master thesis in Oceanography. The Swedish oceanographic expedition 1877 lead by F.L. Ekman: Climate characterization of the Baltic Sea-Kattegat marine system, based on field observations, SST-series and model data. University of Gothenburg, 2011.
- Erik Gustafsson, PhD Thesis. The Baltic Sea Marine System: Human impact and natural variations. University of Gothenburg, 2010. Doctoral thesis No. A 133.
- Daniel Hansson, PhD Thesis. Ocean Climate Variability over Recent Centuries Explored by Modelling the Baltic Sea. University of Gothenburg, 2009. Doctoral thesis No. A 125.
- Jessica Ask. Master of Science. Monitoring strategies for climate change detection: Statistical assessment of marine data. University of Gothenburg, 2009.
- Christin Ericsson. PhD thesis. Characterizing and reconstructing 500 years of climate in the Baltic Sea Basin. University of Gothenburg, 2009
- Christian Nohr PhD thesis. Oceanographic studies of the Baltic Sea with emphasis on sea ice and mixing processes. University of Gothenburg, 2009 Together with Bo Gustafsson (Main supervisor) and Göran Björk.
- Emilia Lalander. Master of Sciences. Surface water circulation in the Panama Bight-Influence on the circulation around the Island Gorgona Thesis for Master of Sciences, Göteborg University, 2006.
- Leandra Caldarulo. Master of Sciences. Can the different coral reef distribution around Gorgona Island, Colombian Pacific be explained by differences in temperature? Thesis for Master of Sciences, Göteborg University, 2006.
- Johanna Nilsson. Master of Sciences. Does the deep-water temperature in the Gullmar Fjord reflect the Nordic climate? Thesis for Master of Sciences, Göteborg University, 2005.
- Martin Hansson. Monitoring and Prediction of Algal Blooms in the Baltic Sea- Using Satellite Data and a Fuzzy Logic Model for Cyanobacterial Blooms. Thesis for Master of Sciences, Göteborg University, 2004.
- Emma Pettersson. How well does HIROMB simulate temperature and salinity in the Kattegat? Thesis for Master of Sciences, Göteborg University, 2003.
- Karin Wesslander. Are the Nordic Seas Cooling? Thesis for Master of Sciences, Göteborg University, 2003.
- Martin Hansson, Can satellite SMMR and SSM/I data improve ice mapping over the Baltic Sea? A 10 weeks project at Department of Oceanography, Göteborg University.
- Lars Axell. Turbulent mixing in the ocean with application to Baltic Sea modeling. Ph. D. thesis in Oceanography, Göteborg University, 2001.
- Anna Rutgersson. Water and Heat Exchange Processes over the Baltic Sea. Ph. D. thesis in Meteorology, Uppsala University, 2000.
- Ola Nordblom. Numerical simulation of the atmospheric surface layer. Master's Thesis, Luleå University of Technology, 1997:351 CIV, 1997.

Teaching and examination:

- A Philosophical View of the Ocean and Humanities. An antidote to tomorrow's fragmented world. It will be presented at the Baltic Earth Winter School, Prof. Inga Dailidiene, Klaipeda University, Lithuania, in March 2025.
- A Philosophical View of the Ocean and Humanities. Presented at: UC Santa Cruz: Blue Humanities: Oceans, Humanity, and the Future. Prof. Rasmus Winter 2024.
- Process-oriented ocean modelling. Baltic Earth 7th International Summer School on "Climate of the Baltic Sea Region" August 2021.
- Science and the arts as inspiration for the joy of marine sciences. Baltic Earth 7th International Summer School on "Climate of the Baltic Sea Region" August 2021.
- Oceanographic models (Oceanografiska Modeller, OC6310) a 10 weeks course at Earth Sciences, University of Gothenburg, 2013.
- Geophysical Fluid Dynamics a 10 weeks course at Earth Sciences University of Gothenburg, 2012-2013
- Oceanographic models (Oceanografiska Modeller, OC6310) a 10 weeks course at Earth Sciences: Oceanography, University of Gothenburg, 2011.
- Co-organizer and lectures for Advanced PhD course: Climate impacts on the Baltic Sea- from science to policy, 27 July to 5 August, Bornholm, Denmark. 2009.
- Oceanographic models (Oceanografiska Modeller, OC6310) a 10 weeks course at Earth Sciences: Oceanography, University of Gothenburg, 2009.
- Responsible for organizing the PhD education within Earth System Science at the University of Gothenburg, 2008-
- Examination of Sofia Åström Master Thesis: Modelling the effects of horizontal density gradients on wind driven surface mixed layers. 2009.
- PhD Course in Process oriented numerical modelling of lakes, coastal seas and oceans a 10 weeks course at the Earth Sciences Centre: Oceanography, University of Gothenburg, 2008
- Geophysical Fluid Dynamics a 5 weeks course in Ocean Models II at the Earth Sciences Centre: Oceanography, University of Gothenburg, 2007
- Geophysical Fluid Dynamics a 5 weeks course in Ocean Models II at the Earth Sciences Centre: Oceanography, University of Gothenburg, 2006
- Geophysical Fluid Dynamics a 5 weeks course in Ocean Models II at the Earth Sciences Centre: Oceanography, University of Gothenburg, 2005.
- Ph. D. Course in ocean and lake modeling. Earth Sciences Centre, University of Gothenburg, 2004.
- Ph. D. Course in ocean and lake modeling. Earth Sciences Centre, University of Gothenburg, 2002.
- Examination of Ph.D. students in Physics of Sea Ice. Earth Sciences Centre, University of Gothenburg, 2000.
- Ph. D. Course in ocean and lake modeling. Earth Sciences Centre, University of Gothenburg, 1998.
- Invited teacher during a summer school in Maratea, Italy. Lecture topic: Forecasting Ice on Lakes, Estuaries and Shelf Seas. Organized by NATO Advanced Science Study Institute, 1998.

- Invited teacher during a summer school in Savonlinna, Finland. Lecture topic: Freezing Estuaries and Semi-Enclosed Basins. Organized by IAPSO (International Association for Physical sciences of the Ocean), 1994.
- Dynamic Oceanography, SMHI, Norrköping, Sweden, 1977-1979.
- Introduction courses in oceanography and sea ice at SMHI, Norrköping, Sweden, 1975-1986

Publications: Articles in reviewed scientific journals:

- Omstedt, A, Dailidienė, I, von Storch, H, and Winther, RG,(2024). Philosophical views on Baltic Basin climate and environmental sciences. *Oceanologia*, 66 (4)/2024, 66407, <https://doi.org/10.5697/YXZP7286>
- Omstedt, A. (2023). How to develop an understanding of the marginal sea system by connecting natural and human sciences. *Earth System Change Changes in Marginal Seas/Oceanologia*. Volume 65, Issue 1, January–March 2023, Pages 20-29.
- Omstedt, A. and von Storch, H. (2023). The BALTEX/Baltic Earth programs: Excursions and returns. <https://doi.org/10.1016/j.oceano.2023.06.001>
- Omstedt, A., and Gustavsson, B. (2022a). The ocean: Excursion and return. *Filosofia*, anno LXVII, 2022, pp. 25-40. Mimesis Edizioni, Milano-Udine, Italy. ISSN (online): 2704-8195. <https://doi.org/10.13135/2704-8195/7241>.
- Omstedt, A. and Gustavsson, B. (2022b). The complex interactions between humans and the marine environment require new efforts to build beauty and harmony. *Front. Mar. Sci.* 9:913276. doi: 10.3389/fmars.2022.913276
- Reckermann, M., Omstedt, A., Soomere, T., Aigars, J., Akhtar, N., Beldowska, M., Beldowski, J., Cronin, T., Czub, M., Eero, M., Hyytiäinen, K. P., Jalkanen, J.-P., Kiessling, A., Kjellström, E., Kuliński, K., Larsén, X. G., McCrackin, M., Meier, H. E. M., Oberbeckmann, S., Parnell, K., Pons-Seres de Brauwer, C., Poska, A., Saarinen, J., Szymczycha, B., Undeman, E., Wörman, A., and Zorita, E.(2022): Human impacts and their interactions in the Baltic Sea region. *Earth Syst. Dynam.*, 13, 1–80, 2022 <https://doi.org/10.5194/esd-13-1-2022>.
- Omstedt, A. (2021). How to develop an understanding of the marginal sea system by connecting natural and human sciences. *Oceanologia*. <https://doi.org/10.1016/j.oceano.2021.06.003>. Available online 14 July 2021.
- Weisse, Ralf, Inga Dailidienė, Birgit Hünicke, Kimmo Kahma, Kristine Madsen, Anders Omstedt, Kevin Parnell, Tilo Schöne, Tarmo Soomere, Wenyan Zhang, and Eduardo Zorita (2021). Sea level dynamics and coastal erosion in the Baltic Sea region, *Earth Syst. Dynam.*, 12, 871–898, <https://doi.org/10.5194/esd-12-871-2021>.
- Jansson, P., Ferré, B., Silyakova, A., Dølven, K.O., Omstedt, A. (2019). "Replication Data for: A new numerical model for understanding free and dissolved gas progression towards the atmosphere in aquatic methane seepage systems", <https://doi.org/10.18710/LS2KUX>, DataverseNO, V1
- Jansson, P., Ferré, B., Silyakova, A., Dølven, K.O., Omstedt, A. (2019). A new numerical model for understanding free and dissolved gas progression towards the atmosphere in aquatic methane seepage systems. *Limnology and Oceanography: Methods*. Published by

- Wiley Periodicals, Inc. on behalf of Association for the Sciences of Limnology and Oceanography. 17 pages. DOI: 10.1002/lom3.10307
- Meier HEM, Edman MK, Eilola KJ, Placke M, Neumann T, Andersson HC, Brunnabend S-E, Dieterich C, Frauen C, Friedland R, Gröger M, Gustafsson BG, Gustafsson E, Isaev A, Kniebusch M, Kuznetsov I, Müller-Karulis B, Omstedt A, Ryabchenko V, Saraiva S and Savchuk OP (2019). Scenario simulations of biogeochemical cycles in the Baltic Sea. *Front. Mar. Sci.* 6:46. DOI: 10.3389/fmars.2019.00046
 - Meier HEM, Edman MK, Eilola KJ, Placke M, Neumann T, Andersson HC, Brunnabend S-E, Dieterich C, Frauen C, Friedland R, Gröger M, Gustafsson BG, Gustafsson E, Isaev A, Kniebusch M, Kuznetsov I, Müller-Karulis B, Omstedt A, Ryabchenko V, Saraiva S and Savchuk OP (2018). Assessment of Eutrophication Abatement Scenarios for the Baltic Sea by Multi-Model Ensemble Simulations. *Front. Mar. Sci.* 5:440. doi: 10.3389/fmars.2018.00440. Nov 2018, Vol. 5, article 440.
 - Turner, D.R., Edman, M., Gallego-Urrea, J., A., Claremar, B., Hasselöv, I-M., Omstedt, A., Rutgersson, A., (2018). The potential future contribution of shipping to acidification of the Baltic Sea. *Ambio* 47: 368. <https://doi.org/10.1007/s13280-017-0950-6>
 - Omstedt, A. (2017). The Development of Climate Science of the Baltic Sea Region. In *Oxford Research Encyclopedia of Climate Science*. Oxford University Press. doi:10.1093/acrefore/9780190228620.013.654.
 - Ahlgren, J., Grimvall, A., Omstedt, A., Rolff, C., and J., Wikner (2017). Temperature, DOC level and basin interactions explain the declining oxygen concentrations in the Bothnian Sea. *Journal of Marine Systems*, 170, 22-30. <http://www.sciencedirect.com/science/article/pii/S0924796316301877>
 - Shaltout, M., and A., Omstedt (2015). Sea-level change and projection for future flooding along the Egyptian Mediterranean coast. *Oceanologia* 57, 293-307, <http://dx.doi.org/10.1016/j.oceano.2015.06.004>
 - Gustafsson, E., A. Omstedt, and B. G. Gustafsson (2015), The air-water CO₂ exchange of a coastal sea— A sensitivity study on factors that influence the absorption and outgassing of CO₂ in the Baltic Sea, *J. Geophys. Res. Oceans*, 120, doi:10.1002/2015JC010832.
 - Omstedt, A, Edman, E, Claremar, B, and A. Rutgersson (2015). Modelling the contributions to marine acidification from deposited SO_x, NO_x, and NH_x in the Baltic Sea: Past and present situations. *Continental Shelf Research* 111, 234-249, doi: 10.1016/j.csr.2015.08.024
 - Shaltout, M., and A., Omstedt (2015). Modelling the water and heat balances of the Mediterranean Sea using a two-basin model and available meteorological, hydrological and ocean data. *Oceanologia*, 57, 116-131, <http://dx.doi.org/10.1016/j.oceano.2014.11.001>
 - Omstedt, A., Elken, J., Lehmann, A., Leppäranta, M., Meier, H.E.M., Myrberg, K., Rutgersson, A., (2014). Progress in physical oceanography of the Baltic Sea during the 2003–2014 period, *Progress in Oceanography* (2014), doi: <http://dx.doi.org/10.1016/j.pocean.2014.08.010>
 - Omstedt, A., (2014). Interactive comments on "Ice and AIS: ship speed data and sea ice forecasts in the Baltic Sea" by U. Löptien and L., Axell. *The Cryosphere Discussion*, 8, C1476-C1477, 2014. www.the-cryosphere-discussion.net/8/C1476/2014.

- Jutterström, S., Andersson, H.C., Omstedt, A. and J.M., Malmaeus (2014). Multiple stressors threatening the future of the Baltic Sea-Kattegat marine ecosystem: Implications for policy and management actions. *Marine Pollution Bulletin* 86, 468-480.
- Shaltout, M., and A., Omstedt (2014). Recent dynamic topography changes in the Mediterranean Sea analysed from Satellite altimetry data. *Current Development in Oceanography*, Pushpa Publishing House, Allahbad, India. Available Online at <http://pphmj.com/journals/cdo.htm>. Volume 7, Number 1-2, Pages 1-26.
- Shaltout, M., and A., Omstedt (2014). Recent precipitation trends and future scenarios over the Mediterranean Sea. *Geofizika*, Vol. 31, pp. 127-150. DOI: 10.15233/gfz.2014.31.7
- Omstedt, A., Edman, M., and J., Havenhand (2014). Mer koldioxid i atmosfären gör haven surare. *Havet* 2913/2014, ISSN: 1654-6741, sid 18-22.
- Omstedt, A., Humborg, C., Pempkowiak, J., Pertillä, M., Rutgersson, A., Schneider, B., and Smith, B. (2014). Biogeochemical Control of the Coupled CO₂–O₂ System of the Baltic Sea: A review of the results of Baltic-C. *Ambio*, 43: 49-59. DOI 10.1007/s13280-013-0485-4
- Shaltout, M., and A., Omstedt (2014). Recent sea surface temperature trends and future scenarios for the Mediterranean Sea. *Oceanologia*, 56(3), pp. 411-443. Doi: 10.5697/oc.56-3.000
- Claremar, B., Wällstedt T., Rutgersson A., Omstedt A. 2013. Deposition of acidifying and neutralising compounds over the Baltic Sea drainage basin between 1960 and 2006. *Boreal. Environ. Res.* 18: 425–445
- Shaltout, M., Gindy, A., E., and A., Omstedt (2013). Recent climate trends and future scenarios along the Egyptian Mediterranean coast. *Geofizika*, Vol. 30, No. 1, 2013, 19-41
- Edman, M., and A., Omstedt (2013). Modeling the dissolved CO₂ system in the redox environment of the Baltic Sea. *Limnol. Oceanogr.*, 58(1), 2013, 74-92
- Omstedt, A., Edman, M., Claremar, B., Frodin, P., Gustafsson, E., Humborg, C., Mörtz, M., Rutgersson, A., Schurgers, G., Smith, B., Wällstedt, T., and Yurova, A. (2012). Future changes of the Baltic Sea acid-base (pH) and oxygen balances. *Tellus B*, 64, 19586, <http://dx.doi.org/10.3402/tellusb.v64i0.19586>.
- Wählström, I., Omstedt, A., Björk, G., and A., G., Anderson (2013). Modelling the CO₂ dynamics in the Laptev Sea, Arctic Ocean: Part II Sensitivity of fluxes to changes in the forcing. *Journal of Marine Systems*, 111-112, 1-10.
- Wählström, I., Omstedt, A., Björk, G., and A., G., Anderson (2012). Modelling the CO₂ dynamics in the Laptev Sea, Arctic Ocean: Part 1. *Journal of Marine Systems*, 102-104, pp 29-38.
- Shaltout, M. and Omstedt, A. (2012). Calculating the water and heat balances of the Eastern Mediterranean Basin using ocean modelling and available meteorological, hydrological, and ocean data. *Oceanologia*, 54(2), pp. 199-232. Doi:10.5697/oc.54-2.199.
- Reckermann, M., Langner, J., Omstedt, A., von Storch, H., Keevallik, S., Schneider, B., Arheimer, B., Meier, H.E.M., and B., Hunicke (2011). BALTEX – An interdisciplinary research network for the Baltic Sea region. *Environ. Res. Lett.*, 6(2011) 045205 (11pp). DOI:10.1088/1748-9326/6/4/045205

- Karin Wesslander, Per Hall, Sofia Hjalmarsson, Dominique Lefevre, Anders Omstedt, Anna Rutgersson, Erik Sahlée, Anders Tengberg, (2011). Observed carbon dioxide and oxygen dynamics in a Baltic Sea coastal region. *Journal of Marine Systems*, 86, pp 1-9.
- Omstedt, A., Edman, M., Anderson, L., G., and H., Laudon (2010). Factors influencing the acid-base (pH) balance in the Baltic Sea: A sensitivity analysis. *Tellus*, 62B, 280-295. DOI: [10.1111/j.1600-0889.2010.00463.x](https://doi.org/10.1111/j.1600-0889.2010.00463.x)
- Wesslander, K., Omstedt, A., and B., Schneider(2010). On the carbon dioxide air-sea flux balance in the Baltic Sea. *Continental Shelf Research* 30, 1511-1521. DOI: [10.1016/j.csr.2010.05.014](https://doi.org/10.1016/j.csr.2010.05.014)
- Hansson, D., Eriksson, C., Omstedt, A., and D., Chen (2010). Reconstruction of river runoff to the Baltic Sea. *Int. J. Climatol.*, DOI: [10.1002/joc.2097](https://doi.org/10.1002/joc.2097)
- Omstedt, A. , Gustafsson, E. and K., Wesslander, (2009). Modelling the uptake and release of carbon dioxide in the Baltic Sea surface water. *Continental Shelf Research* 29, 870-885. DOI: [10.1016/j.csr.2009.01.006](https://doi.org/10.1016/j.csr.2009.01.006)
- Gustafsson, E.O., and A., Omstedt (2009). Sensitivity of Baltic Sea deep water salinity and oxygen concentrations to variations in physical forcing. *Boreal Environmental Research* 14: 18-30. Available online: <http://www.borenav.net/>
- Hjalmarsson, S., Wesslander, K., Anderson, L.G., Omstedt, A., Perttilä, M., and L., Mintrop (2008). Distribution, long-term development and mass balance calculation of total alkalinity in the Baltic Sea. *Continental Shelf Research* 28(4–5), 593–601. DOI [10.1016/j.csr.2007.11.010](https://doi.org/10.1016/j.csr.2007.11.010)
- Hansson, D. and A., Omstedt, (2008). Modelling the Baltic Sea ocean climate on centennial time scale; temperature and sea ice. *Climate Dynamics* 30, 763-778. DOI [10.1007/s00382-007-0321-2](https://doi.org/10.1007/s00382-007-0321-2)
- Eriksson, C., A. Omstedt, J.E. Overland, D.B. Percival, H.O. Mofjeld (2007). Characterizing the European sub-arctic winter climate since 1500 using ice, temperature and circulation time series. *Journal of Climate* 20, 5316-5334. DOI [10.1175/2007JCLI1461.1](https://doi.org/10.1175/2007JCLI1461.1)
- Omstedt, A. and D., Hansson, (2006). Erratum to: 'The Baltic Sea ocean climate system memory and response to changes in the water and heat balance components'. *Continental Shelf Research* 26, 1685-1687. DOI [10.1016/j.csr.2006.05.011](https://doi.org/10.1016/j.csr.2006.05.011)
- Green, M., J., A., Liljebladh, B., and A., Omstedt (2006). Physical oceanography and water exchange in the Northern Kvark Strait. *Continental Shelf Research*, 26, 721-732. DOI [10.1016/j.csr.2006.01.012](https://doi.org/10.1016/j.csr.2006.01.012)
- Omstedt, A. and D., Hansson, (2006). The Baltic Sea ocean climate system memory and response to changes in the water and heat balance components. *Continental Shelf Research* 26, 236-251. DOI [10.1016/j.csr.2005.11.003](https://doi.org/10.1016/j.csr.2005.11.003)
- Smedman, A-S, Gryning, S-E, Bumke, K, Högström, U., Rutgersson, A, Batchvarova, E., Peters, G., Hennemuth, B., Tammelin, B, Hyvönen, R., Omstedt, A., Michelson, D, Andersson, T, and M, Clemens (2005). Precipitation and evaporation budgets over the Baltic Proper: observations and modelling. *Journal of Atmospheric and Ocean Science*. Vol. 10, No.3, 163-191. DOI [10.1080/17417530500513756](https://doi.org/10.1080/17417530500513756)

- Omstedt, A., Chen, Y. and K., Wesslander, (2005). A comparison between the ERA40 and the SMHI gridded meteorological databases as applied to Baltic Sea modelling. *Nordic Hydrology*, 36(4), 369-380.
- Rutgersson, A., Omstedt, A. and Y., Chen, (2005). Evaluation of the heat balance components over the Baltic Sea using four gridded meteorological data bases and direct observations. *Nordic Hydrology*, 36(4), 381-396.
- Chen, D. and A. Omstedt (2005). Climate-induced variability of sea level in Stockholm: Influence of air temperature and atmospheric circulation. *Advances in Atmospheric Sciences*, 22(5), 655-664.
- Omstedt, A., Elken, J., Lehmann, A., and J., Piechura (2004). Knowledge of the Baltic Sea Physics gained during the BALTEX and related programmes. *Progress in Oceanography* 63, 1-28. DOI [10.1016/j.pocean.2004.09.001](https://doi.org/10.1016/j.pocean.2004.09.001)
- Omstedt, A. and C., Nohr (2004). Calculating the water and heat balances of the Baltic Sea using ocean modelling and available meteorological, hydrological and ocean data. *Tellus* 56A, 400-414. DOI [10.1111/j.1600-0870.2004.00070.x](https://doi.org/10.1111/j.1600-0870.2004.00070.x)
- Omstedt, A., Pettersen, C., Rodhe, J. and P., Winsor (2004). Baltic Sea climate: 200 yr of data on air temperature, sea level variations, ice cover, and atmospheric circulation. *Climate Research*, 25, 205-216.
- Winsor, P., J. Rodhe, and A. Omstedt (2003). Erratum: Baltic Sea ocean climate: an analysis of 100 yr of hydrographical data with focus on the freshwater budget. *Climate Research*, 18:5-15, 2001. *Climate Research*, 25 (2), 183.
- Ohlsson, Mats, Omstedt, A., and D. Turner (2003, Guest editors). Special Issue. Recent results from the Baltic Oceanographers research, Highlights from ongoing oceanographic research in, or related to, the Baltic Sea, Needs for joint research activities. Papers presented at the Baltic Sea Science Congress held in Stockholm, 25-29 November 2001. *J. of Sea Research*, 49, 4, June 2003.
- Hennemuth B., Rutgersson, A., Bumke K., Clemens, M., Omstedt A., Jacob D., and A-S Smedman (2003). Net precipitation over the Baltic Sea for one year using models and data-based methods. *Tellus*, 55A, 352-367.
- Omstedt, A. and L., Axell (2003). Modeling the variations of salinity and temperature in the large Gulfs of the Baltic Sea. *Continental Shelf Research*, 23, 265-294. DOI [10.1016/S0278-4343\(02\)00207-8](https://doi.org/10.1016/S0278-4343(02)00207-8)
- Blenckner, T., Omstedt, A., and M., Rummukainen (2002). A Swedish case study of contemporary and possible future consequences of climate change on lake function. *Aquat. Sci.*, 64, 171-184
- Rutgersson, A., Omstedt, A. and J., Räisänen (2002). Net precipitation over the Baltic Sea during present and future climate conditions. *Climate Research*, 22, 27-39.
- Omstedt, A., and D., Chen (2001). Influence of atmospheric circulation on the maximum ice extent in the Baltic Sea. *J. Geophysical Res*, 106, No. C3, 4493-4500.
- Raschke E., Meywerk J., Warrach K., Andrea U., Bergström S., Beyrich F., Bosveld F., Bumke K., Fortelius C., Graham L.P., Gryning S.-E., Halldin S., Hasse L., Heikinheimo M., Isemer H.J., Jacob, D., Jauja I., Karlsson K.-G., Keevallik S., Koistinen J., Van Lammeren A., Lass U., Launianen J., Lehmann A., Liljebladh B., Lobemeyr, M., Matthäus W., Mengelkamp T., Michelson D.B., Napiorkowski J., Omstedt A., Piechura J., Rockel B., Rubel F., Ruprecht E., Smedman A.-S. and A., Stigebrandt

- (2001). The Baltic Sea Experiment (BALTEX): A European Contribution to the investigation of the Energy and Water Cycle over a Large Drainage Basin. *Bullertin of the American Society*, 82, No. 11, 2389-2413.
- Rutgersson, A., Smedman, A.-S., and A., Omstedt (2001). Measured and simulated latent and sensible heat fluxes at two marine sites in the Baltic Sea. *Boundary Layer Meteorology*, 99, 53-84.
 - Rutgersson, A., Bumke, K., Clemens, M., Foltescu, V., Lindau, R., Michelson, D., Omstedt, A., (2001). Precipitation Estimates over the Baltic Sea: Present State of the Art, *Nordic Hydrol.*, 32(4), 285-314.
 - Winsor, P., Rodhe, J., Omstedt, A. (2001). Baltic Sea ocean climate: an analysis of 100 yr of hydrographic data with focus on the freshwater budget. *Climate Research* 18: No. 1-2, pp. 5–15.
 - Rummukainen, M., Räisänen, J., Bringfelt, B., Ullerstig, A., Omstedt, A., Wille'n, U., Hansson, U., and C., Jones (2001). A regional climate model for northern Europe – model description and results from the downscaling of two GCM control simulations. *Climate Dynamics*, 17, 339-359.
 - Omstedt, A. and A., Rutgersson (2000). Closing the water and heat cycles of the Baltic Sea. *Meteorol. Z.*, 9, 57-64.
 - Omstedt, A., Gustafsson, B., Rodhe, B., and G., Walin (2000). Use of Baltic Sea modelling to investigate the water and heat cycles in GCM and regional climate models. *Climate Research*, 15, 95-108.
 - Gustafsson, N., Nyberg, L. and A. Omstedt (1998). Coupling high-resolution atmosphere and ocean models for the Baltic Sea. *Monthly Weather Review*, 126, 2822-2846.
 - Svensson, U. and A. Omstedt (1998). Numerical simulation of frazil ice dynamics in the upper layer of the ocean. *Cold Regions Science and Technology*, 28, 29-44.
 - Omstedt, A. and L., Axell (1998). Modeling the seasonal, interannual and long-term variations of salinity and temperature in the Baltic proper. *Tellus*, 50A, 637-652.
 - Omstedt, A., Meuller, L., and L., Nyberg (1997). Interannual, seasonal and regional variations of precipitation and evaporation over the Baltic Sea. *Ambio*, 26, No. 8, 484-492
 - Ljungemyr, P., Gustafsson, N., and A., Omstedt (1996). Parametrization of lake thermodynamics in a high-resolution weather forecasting model. *Tellus*, 48A, 608-621.
 - Omstedt, A. (1996). Preface. *Tellus*, 48 A, No. 5, 607
 - Omstedt, A. and L., Nyberg (1996). Response of Baltic Sea ice to seasonal, interannual forcing and to climate change. *Tellus*, 48 A, No. 5, 644-662
 - Omstedt, A., Nyberg, L. and Leppäranta, M. (1996). On the ice-ocean response to periodic forcing. *Tellus*, 48 A, 593-606.
 - Macdonald, R.W., Paton, D.W., Carmack, E.C. and Omstedt, A. (1995). The fresh water budget and under-ice spreading of Mackenzie River water in the Canadian Beaufort Sea based on salinity and 180/160 measurements in water and ice. *J. Geoph. Res.*, 100, C 1, 895-919.
 - Omstedt, A., Carmack, E.C. and Macdonald, R.W. (1994). Modelling the seasonal cycle of salinity in the Mackenzie shelf/estuary. *J. Geoph. Res.*, 99, C 5, 10011-10021.
 - Omstedt, A. and Murthy, C.R. (1994). On currents and vertical mixing in Lake Ontario during summer stratification. *Nordic Hydr.*, 25, No. 3, 213-232.

- Svensson, U., and Omstedt, A. (1994). Simulation of super cooling and size distribution in frazil ice dynamics. *Cold Regions Science and Tech.*, 22, 221-233.
- Kõuts, T., and Omstedt, A. (1993). Deep water exchange in the Baltic Proper. *Tellus*, 45A, 311-324.
- Marmefelt, E., and Omstedt, A. (1993). Deep water properties in the Gulf of Bothnia. *Continental Shelf Research*, Vol. 13, No. 2/3, 169 - 87.
- Omstedt, A., Marmefelt, E., and Murthy, C.R. (1993). Some flow characteristics of the coastal boundary layer in the Bothnian Sea. *Aqua Fennica* 23, 1, 5-16.
- Engqvist, A., and Omstedt, A. (1992). Water exchange and density structure in a multi-basin estuary. *Continental Shelf Research*, Vol. 12, No. 9, 1003 - 1026.
- Omstedt, A., and Svensson, U. (1992). On the melt rate of drifting ice heated from below. *Cold Regions Science and Technology*, 21, 91 - 100.
- Omstedt, A., and Wettlaufer, J.S. (1992). Ice growth and oceanic heat flux: Models and measurements. *J. Geoph. Res.*, Vol. 97, No. C 6, 9383 - 9390.
- Omstedt, A., and Nyberg, L. (1991). Sea level variations during ice-covered periods in the Baltic Sea. *Geophysica*, 27, 1 - 2, 41 - 61.
- Leppäranta, M., and Omstedt, A. (1990). Dynamic coupling of sea ice and water for an ice field with free boundaries. *Tellus*, 42 A, 482 - 495.
- Kõuts, T., and Omstedt, A. (1993). Deep water exchange in the Baltic Proper. *Tellus*, 45A, 311-324.
- Marmefelt, E., and Omstedt, A. (1993). Deep water properties in the Gulf of Bothnia. *Continental Shelf Research*, Vol. 13, No. 2/3, 169 - 87.
-
- Omstedt, A. (1990). A coupled one-dimensional sea ice-ocean model applied to a semi-enclosed basin. *Tellus*, 42 A, 568 - 582.
- Omstedt, A. (1990). Modelling the Baltic Sea as thirteen sub-basins with vertical resolution. *Tellus*, 42 A, 286 - 301.
- Svensson, U., and Omstedt, A. (1990). A mathematical model of the ocean boundary layer under drifting melting ice. *J. Physical Oceanography*, Vol. 20, No. 2, 161 - 171.
- Omstedt, A. (1987). Forecasting water cooling in the Kattegat, the Öresund, the Belt Sea and the Arkona Basin. *Nordic Hydrology*, 18, 247 - 258.
- Omstedt, A. (1987). Water cooling in the entrance of the Baltic Sea. *Tellus*, 38 A, 254 - 265.
- Omstedt, A. (1985). Modelling frazil ice and grease ice formation in the upper layers of the ocean. *Cold Regions Science and Technology*, 11, 87 - 98.
- Omstedt, A. (1985). On super-cooling and ice formation in turbulent sea-water. *Journal of Glaciology*, Vol. 31, No. 109, 263 - 271.
- Omstedt, A., and Svensson, U. (1984). Modelling super-cooling and ice formation in a turbulent Ekman layer. *Journal of Geophysical Research*, Vol. 89, C 1, Jan. 20, 735 - 744.
- Omstedt, A. (1983). On autumn cooling in the Gulf of Bothnia. *Geophysica*, Vol. 20, No. 1, 27 - 40.
- Omstedt, A., Sahlberg, J., and Svensson, U. (1983). Measured and numerically simulated autumn cooling in the Bay of Bothnia. *Tellus*, 35 A, 231 - 240.

Books, Book chapters, scientific reports, popular articles, and numerical model documentation:

Books:

- Omstedt, A. (2024). A Philosophic View of the Ocean and Humanity. Second Edition. Springer Nature, <https://link.springer.com/book/10.1007/978-3-031-64326-2>
- Omstedt, A. (2020). A Philosophic View of the Ocean and Humanity. Springer Nature, ISBN 978-3-030-36679-7, <https://doi.org/10.1007/978-3-030-36680-3>.
- Omstedt, A. (2016). Connecting Analytical Thinking and Intuition: And the Nights Abound with Inspiration. Springer Briefs in Earth Sciences. ISBN: 978-3-319-27533-8 (Print) 978-3-319-27534-5 (Online). DOI 10.1007/978-3-319-27534-5. Springer International Publishing.
- Omstedt, A., (2015). Guide to process based modelling of lakes and coastal seas. Second Edition. Springer-Praxis books in Geophysical Sciences, DOI 10.1007/978-3-319-17990-2. Springer-Verlag Berlin Heidelberg.
- The BACC II Author Team (2015). Second Assessment of Climate Change for the Baltic Sea basin. Springer Regional Climate Studies. ISSN 1862-0248 ISSN 1865-505X (electronic). ISBN 978-3-319-16005-4 ISBN 978-3-319-16006-1 (eBook). DOI 10.1007/978-3-319-16006-1. Springer Cham Heidelberg New York Dordrecht London.
- Reckermann, M., Brander, K., MacKenzie, B., and Omstedt, A., (Editors, 2012). Climate impact on the Baltic Sea: From science to policy. Springer Verlag. School of Environmental Research. <http://springer.com/978-3-642-25727-8>.
- Omstedt, A., (2011). Guide to process based modelling of lakes and coastal seas. Springer-Praxis books in Geophysical Sciences, DOI 10.1007/978-3-642-17728-6. Springer-Verlag Berlin Heidelberg.
- The BACC Author Team (2008). The BALTEX Assessment of Climate Change for the Baltic Sea basin. pp. 1-34. ISBN: 978-3-540-72785-9. Springer-Verlag.

Book chapters:

- Omstedt, A. (2024). Front Matter with Forwards, Preface, Introduction, etc., pages i-xxviii. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. Download at: <https://link.springer.com/book/10.1007/978-3-031-64326-2>
- Omstedt, A. (2024). Opening, Part I. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_1
- Omstedt, A. (2024). Searching for a New Language. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_2
- Omstedt, A. (2024). Finding Words for Feelings. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_3

- Omstedt, A. (2024). What Are Dreams? In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_4
- Omstedt, A. (2024). Meaning of Symbols and Metaphors. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_5
- Omstedt, A. (2024). Triggers. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_6
- Omstedt, A. (2024). To Be Touched. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_7
- Omstedt, A. (2024). To Explore the Unknown. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_8
- Omstedt, A. (2024). Inspiration. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_9
- Omstedt, A. (2024). About Our Hidden Intelligence. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_10
- Omstedt, A. (2024). Summary, Part I. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_11
- Omstedt, A. (2024). Opening, Part II. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_12
- Omstedt, A. (2024). An Attempt to Connect to the Ocean. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_13
- Omstedt, A. (2024). Sea Ice and Curiosity. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_14
- Omstedt, A. (2024). Stratification, Turbulence, and Service. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_15
- Omstedt, A. (2024). Currents and Vulnerability. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_16
- Omstedt, A. (2024). Heat Balance, Temperature, and Interpretations. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_17
- Omstedt, A. (2024). Water Balance, Salinity, and Belonging. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_18
- Omstedt, A. (2024). Oxygen, Life, and Partnership. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_19
- Omstedt, A. (2024). Plankton and Courage. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_20
- Omstedt, A. (2024). Ecosystems and Listening. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_21
- Omstedt, A. (2024). Non-living Ocean Resources and Hope. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_22

- Omstedt, A. (2024). Human Interaction and Vision. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_23
- Omstedt, A. (2024). Climate Change and Harmony. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_24
- Omstedt, A. (2024). Scenarios, the Future, and Simplicity. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_25
- Omstedt, A. (2024). Summary, Part II. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_26
- Omstedt, A. (2024). Opening, Part III. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_27
- Omstedt, A. (2024). Voices of the Ocean. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_28
- Omstedt, A. (2024). Scouting Beyond the Horizon. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_29
- Omstedt, A. (2024). Thinking and Sources of Knowledge. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_30
- Omstedt, A. (2024). Why Should We Care?. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_31
- Omstedt, A. (2024). Literature and Storytelling as Inspiration. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_32
- Omstedt, A. (2024). Summary, Part III. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. https://doi.org/10.1007/978-3-031-64326-2_33
- Omstedt, A. (2024). Back Matter with Book Summary, Questions, Glossary, pages 165-178. In: A Philosophical View of the Ocean and Humanity. Springer, Cham. Download at: <https://link.springer.com/book/10.1007/978-3-031-64326-2>
- Omstedt, A., and Gustavsson, B. (2022a). The ocean: Excursion and return. *Filosofia. Rivista annual. Quarta Serie – Anno LXVII – 2022, Mare*, p. 27-42. Mimesis Edizioni, Milano – Udine. Italy. ISBN 9791222301877.
- Omstedt, A. (2017). Modelling Coastal Seas. In: Snoeijs-Leijonmalm P, Schubert H, Radziejewska T (eds) *Biological Oceanography of the Baltic Sea*. Springer, Dordrecht, pp. 78-79. ISBN 978-94-007-0667-5. DOI 10.1007/978-94-007-0668-2
- Schneider, B., Dellwig, O., Kulinski, K., Omstedt, A., Pollehne, F., Rehder, G., Savchuk, O., (2017). Biogeochemical cycles. In: Snoeijs-Leijonmalm P, Schubert H, Radziejewska T (eds) *Biological Oceanography of the Baltic Sea*. Springer, Dordrecht, pp. 87-122. ISBN 978-94-007-0667-5. DOI 10.1007/978-94-007-0668-2
- Von Storch, H., Omstedt, A., Pawlak, J., and M., Reckermann (2015). Introduction and Summary. In *Second Assessment of Climate Change for the Baltic Sea basin*. Springer Regional Climate Studies, pp. 1-22. ISSN 1862-0248 ISSN 1865-505X (electronic). ISBN 978-3-319-16005-4 ISBN 978-3-319-16006-1 (eBook). DOI 10.1007/978-3-319-16006-1. Springer Cham Heidelberg New York Dordrecht London.

- Omstedt, A. (2012). Some aspects of the Baltic Marine System. Chapter 3 in: Climate impact on the Baltic Sea: From science to policy. Springer Verlag. School of Environmental Research. Editors: Reckermann, M., Brander, K., MacKenzie, B., and Omstedt, A.. <http://springer.com/978-3-642-25727-8>. Pp. 71-104.
- von Storch, H. and A., Omstedt (2008). 1. Introduction and Summary. The BALTEX Assessment of Climate Change for the Baltic Sea basin. pp. 1-34. ISBN: 978-3-540-72785-9. Springer-Verlag.
- Heino, R. ; Tuomenvirta, H. ; Gustafsson, B. et al. (2008). Chapter 2: Detection of past and current climate change. The BALTEX Assessment of Climate Change for the Baltic Sea basin. pp. 35-132. ISBN: 978-3-540-72785-9. Springer-Verlag.
- von Storch, H. and A., Omstedt (2008). A8 Statistical Background: Testing for Trends and Change Points (Jump). The BALTEX Assessment of Climate Change for the Baltic Sea basin. pp. 449-453. ISBN: 978-3-540-72785-9. Springer-Verlag.
- Storch, H., Omstedt, A., and H—J., Isemer (2007). BALTEX Assessment of Climate Change for the Baltic Sea basin (BACC), (2007). Chapter 3, pp 41-51. In Information, Communication and Education on Climate Change-European Perspectives. Vol 26. Editors: W., L., Filho, F. Mannke and P., Schmidt-Thome'. Peter Lang International Verlag der Wissenschaften, Frankfurt am Main, Germany.
- Omstedt, A. (1999). Forecasting ice on lakes, estuaries and shelf seas. Ice Physics and the Natural Environment. Edited by J.S., Wettlaufer, J.G., Dash and N., Untersteiner. NATO ASI VolI 56, Springer-Verlag, Berlin, pp. 185-207.
- Omstedt, A. (1998). Freezing estuaries and semi-enclosed basins. Physics of ice-covered Seas. Editor Matti Leppäranta. Vol. 2, 483-516. Available at Department of Geophysics, University of Helsinki, P.O. Box 4 (Fabianinkatu 24 A), FIN-00014 University of Helsinki, Finland.

Scientific abstracts and presentations:

- Dailidienė, I, Omstedt A, (2024). The Geography of the Baltic Sea and the Philosophical approach to its interdisciplinary nature. Abstract. International Baltic Earth Secretariat Publication No. 23, May 2024, p 168. ISSN 2198-4247. International Baltic Earth Secretariat Helmholtz-Zentrum Hereon GmbH Max-Planck-Str. 1 D-21502 Geesthacht, Germany
- Elken J, Arneborg L, Omstedt A, (2024). Mechanical energy balance in the Baltic Sea. Abstract. International Baltic Earth Secretariat Publication No. 23, May 2024, p 170. ISSN 2198-4247. International Baltic Earth Secretariat Helmholtz-Zentrum Hereon GmbH Max-Planck-Str. 1 D-21502 Geesthacht, Germany.
- Winther, G, R, Omstedt A, (2024) Philosophical Aspects of Marginal Seas. Abstract. International Baltic Earth Secretariat Publication No. 23, May 2024, p 172. ISSN 2198-4247. International Baltic Earth Secretariat Helmholtz-Zentrum Hereon GmbH Max-Planck-Str. 1 D-21502 Geesthacht, Germany.
- Omstedt A, Winther G, R, von Storch H, Dailidienė I, (2024). Philosophical views on Baltic Basin climate and environmental sciences. Abstract. International Baltic Earth Secretariat Publication No. 23, May 2024, p 176. ISSN 2198-4247. International Baltic Earth Secretariat Helmholtz-Zentrum Hereon GmbH Max-Planck-Str. 1 D-21502 Geesthacht, Germany.
- Vuorinen I, Omstedt A, (2024). The historical and cultural value of the Marine Protected areas: The island of Seili. Abstract. International Baltic Earth Secretariat Publication No. 23, May 2024, p 178. ISSN 2198-4247. International Baltic Earth Secretariat Helmholtz-Zentrum Hereon GmbH Max-Planck-Str. 1 D-21502 Geesthacht, Germany.

Scientific reports:

- Von Storch, H., Callies, U. and A. Omstedt (2020). Drift bottles in the southern Baltic Sea – an experiment-of-opportunity. Baltic Earth Newsletter 6, April 2020. International Baltic Earth Secretariat Helmholtz-Zentrum Geesthacht Max-Planck-Straße 1 D-21502 Geesthacht Germany balticearth@hzg.de.
- von Storch, H. and M. Reckermann (2020). Anders Omstedt: 45 years of wandering - from processes to systems, through outer and inner seas. An interview. International Baltic Earth Secretariat Publication No. 17, 2020. ISSN 2198-4247
- BALTEX (2009). BALTEX Phase II 2003-2013. Revised Objectives. International BALTEX Secr., Publication, No. 44, pp.92, GKSS, Geestacht, Germany.

- HELCOM (2007). Climate Change in the Baltic Sea Area – HELCOM Thematic Assessment in 2007. Baltic Sea Environ. Proc. No. 1, pp.49. Prepared by J. F. Pawlek, J.-M. Leppänen based on BALTEX Assessment of Climate Change for the Baltic Sea Basin (BACC). BACC Lead Authors.
- BALTEX (2006). Assessments of Climate Change for the Baltic Sea Basin-The BACC project. International BALTEX Secr., Publication, No. 35, pp.26, GKSS, Geestacht, Germany
- BALTEX (2006). Baltex Phase II 2003-2012. Science Framework and Implementation Strategy. International BALTEX Secr., Publication, No. 34, pp.92, GKSS, Geestacht, Germany
- Jacob, D., and A., Omstedt (2005). BALTEX Phase I 1993-2002: State of the Art Report. International BALTEX Secr., Publication, No. 31, 181 pages, GKSS, Geestacht, Germany.
- Jacob, D., and A., Omstedt (2005). Synthesis. Chapter 15 in BALTEX Phase I 1993-2002: State of the Art Report. International BALTEX Secr., Publication, No. 31, pp. 15-31, GKSS, Geestacht, Germany.
- Omstedt, A., Elken, J., Lehmann, A., and J., Piechura (2005). Baltic Sea. Chapter 3 in BALTEX Phase I 1993-2002: State of the Art Report. International BALTEX Secr., Publication, No. 31, pp. 15-31, GKSS, Geestacht, Germany.
- BALTEX Phase II 2003-2012-Implementation plan (2005). International BALTEX Secr., Publication, GKSS, Geestacht, Germany.
- Omstedt, A., Chen, Y. And K., Wesslander (2004). A comparison between the ERA40 and the SMHI gridded meteorological data bases with application to Baltic Sea modelling. Fourth Study Conference on BALTEX. Editor:Hans-Jörg Isemer. International BALTEX Secr., Publication No. 29, GKSS, Geestacht, Germany, 78-79.
- Pettersen C., Omstedt, A., Mojfeld, H., O., Overland, J., E., and D., B., Percival (2004). Detection of climate change in the Baltic Sea area using Matching Pursuit. Fourth Study Conference on BALTEX. Editor:Hans-Jörg Isemer. International BALTEX Secr., Publication No. 29, GKSS, Geestacht, Germany, 133.
- Rutgersson, A., Omstedt, A., and G., Nilsson (2004). Evaluation of atmosphere-ocean heat fluxes over the Baltic Sea using a number of gridded databases. Fourth Study Conference on BALTEX. Editor:Hans-Jörg Isemer. International BALTEX Secr., Publication No. 29, GKSS, Geestacht, Germany, 80-81.
- Wesslander, K., Axe, P., Green, M., Omstedt, A., and A., Svansson (2004). An overview of long-term time series of temperature, salinity and oxygen in the Baltic Sea. Fourth Study Conference on BALTEX. Editor:Hans-Jörg Isemer. International BALTEX Secr., Publication No. 29, GKSS, Geestacht, Germany, 143-144.
- Grassl, H., Gryning, S-E., Isemer, H-J., Omstedt, A., Rosbjerg, D., and M., Rummukainen (2004). Science Plan for BALTEX Phase II 2003-2012. International BALTEX Secr., Publication No. 28, GKSS, Geestacht, Germany.
- Omstedt, A., and C., Nohr (2004). The BALTEX/Bridge water budget and heat balances calculated from Baltic Sea modeling and available meteorological, hydrological and ocean data. Minutes of the 15th BALTEX Science Steering Group. Edited by Sigrid

- Meyer and Hans-Jörg Isemer. International BALTEX Secr., Publication No. 27, GKSS, Geestacht, Germany, 40-41.
- Omstedt, A. and Lars Axell (2003). Preface. Presented at the Fourth Workshop on Baltic Sea Ice Climate, 22-24 May, 2002. Editors Anders Omstedt and Lars Axell. SMHI Reports-oceanography, No 72, 2003. SMHI Norrköping, Sweden.
 - Omstedt, A. (2003). Some aspects of the Baltic Sea Ocean Climate System. Presented at the Fourth Workshop on Baltic Sea Ice Climate, 22-24 May, 2002. Editors Anders Omstedt and Lars Axell. SMHI Reports-oceanography, No 72, 2003. SMHI Norrköping, Sweden.
 - Grassl, H. and A., Omstedt (2002). Enlarging the Scope of BALTEX. BALTEX Newsletter, , pp. 1-2. Available from International BALTEX Secr., GKSS, Geesthacht, Germany.
 - Omstedt, A. (2002). Knowledge gained about the Baltic Sea during the BALTEX programme. Presented at the BSSG meeting in Lund, Sweden, 18-20 November, 2002. Edited by Hans-Jörg Isemer and Sigrid Schöttle. International BALTEX Secr., Publication No. 25, GKSS, Geestacht, Germany, 38-41.
 - Omstedt, A. (2002). The Baltic Sea Ocean Climate System. Presented at the 12th BSSG meeting in DeBilt, The Netherlands, 12-14 November, 2001. BALTEX report, 22, pp. 51-57. Available from International BALTEX Secr., GKSS, Geesthacht, Germany.
 - Omstedt, A. (2002). Swedish contribution to BALTEX. BALTEX Newsletter, 4, pp. 15-17. Available from International BALTEX Secr., GKSS, Geesthacht, Germany.
 - Svensson, U., Axell L., J., Sahlberg, and A., Omstedt (2002). PROBE Program for boundary layers in the Environment. System description and manual,. SMHI, Report Oceanography, 24, SMHI, Norrköping, Sweden. Update version by Svensson, Axell, Sahlberg and Omstedt available from present author (Anders.Omstedt@gvc.gu.se).
 - Blenckner, T., Rummukainen, M. and A., Omstedt (2001). Lake ecosystem responses to regional climate change today and in the future – a study based on SWECLIM models. SWECLIM Newsletter, 10, pp 7-9.
 - Omstedt, A., Gustafsson, B. G. and H.C. Andersson (2001). Improved possibility for climate scenario modelling of the Baltic Sea circulation. SWECLIM Newsletter, 10, pp 24-26.
 - Rutgersson, A., Omstedt, A., and A., Ullerstig (2001). Air-sea flux-coupling in the RCA-PROBE climate simulation system. SWECLIM Newsletter, 10, pp 21-24.
 - Rutgersson, A., Omstedt, A., and J., Räisänen (2001). Net precipitation over the Baltic sea during present conditions and future scenarios. SWECLIM Newsletter, 10, pp 31-35.
 - Krauss, W. (Editor, 2000). BASYS final scientific report of subproject 6, Baltic Sea Ice. IOW, Warnemuende, Germany.
 - Westman, P., Gustafsson, B., Wastegård, S., Omstedt, A., and K., Schoning (1999). Salinity change in the Baltic sea during the last 8500 years: evidence, causes and models. SKB Technical Report, TR-99-38, pp. 52, SKB, Box 5864, S-102 40 Stockholm, Sweden.
 - Launianen, J., Vihma, T., and A., Omstedt (1999). Baltic Air-Sea-Ice Study- A field experiment of BALTEX. Publications of Second Workshop on the Baltic Sea Ice Climate, Editor Arvo Järvet. Publicationes Instituti Geographici, Universitatis Tartuensis, 84, 101-106, Tartu, Estonia,

- Leppäranta, M. and A., Omstedt (1999). A review of ice time series of the Baltic Sea. Publications of Second Workshop on the Baltic Sea Ice Climate, Editor Arvo Järvet. Publicationes Instituti Geographici, Universitatis Tartuensis, 84, 7-10, Tartu, Estonia,
- Lundquist, J.-E., Moberg, M., and A., Omstedt (1999). Experience of the BOBA model in operational sea ice forecasting. Publications of Second Workshop on the Baltic Sea Ice Climate, Editor Arvo Järvet. Publicationes Instituti Geographici, Universitatis Tartuensis, 84, 166-167, Tartu, Estonia,
- Omstedt, A. (1999). Modelling climate change for the Baltic Sea basin: From an ocean perspective. Invited lecture EGS. In: Geophysical Research Abstracts 1:2. 24th General Assembly of the EGS, the Hague, 19-23 April 1999, 464.
- Omstedt, A. (1999). Modelling the water and heat (including sea ice) cycles of the Baltic Sea. Invited lecture during the Third Basys Annual Science Conference, 20-22 September, Warnemuende, Germany.
- Omstedt, A. and M., Leppäranta (1999). On the Baltic Sea response to climate change: Model implications. Publications of Second Workshop on the Baltic Sea Ice Climate, Editor Arvo Järvet. Publicationes Instituti Geographici, Universitatis Tartuensis, 84, 117-124, Tartu, Estonia,
- Gustafsson, N., K.-I. Ivarsson and A., Omstedt (1998). Coupling of atmospheric, ocean and lake models for BALTEX mesoscale re-analysis purpose. Conference Proceedings from The Second Study Conference on BALTEX, Rugen, Germany, 25-29 May 1998, Editor E. Raschke and H.-J. Isemer, pp.61-62. International BALTEX Secr., Publication, 11, GKSS Research Center, Geesthacht, Germany.
- Isemer, H.-J., Lindau, R., Jacob, D. and A. Omstedt (1998). The water balance at the surface of the Baltic Proper- Comparison of observations and model results. Conference Proceedings from The Second Study Conference on BALTEX, Rugen, Germany, 25-29 May 1998, Editor E. Raschke and H.-J. Isemer, pp.82-84. International BALTEX Secr., Publication, 11, GKSS Research Center, Geesthacht, Germany.
- Launianen, J., Vihma, T., Brummer, B., Wode, C., Smedman, A.-S., Håkansson, B. and A., Omstedt (1998). Baltic Air-Sea. Ice Study- A field experiment of BALTEX. The Second Study Conference on BALTEX, Rugen, Germany, 25-29 May 1998, Editor E. Raschke and H.-J. Isemer, pp.122-123. International BALTEX Secr., Publication, 11, GKSS Research Center, Geesthacht, Germany.
- Smedman, A.-S., Gryning, S.-E., Boesenberg, J., Tammelin B., Andersson, T., Omstedt, A. and K., Bumke (1998). PEP in BALTEX-A pilot study of evaporation and precipitation in the Baltic Sea. The Second Study Conference on BALTEX, Rugen, Germany, 25-29 May 1998, Editor E. Raschke and H.-J. Isemer, pp.206-207. International BALTEX Secr., Publication, 11, GKSS Research Center, Geesthacht, Germany.
- Omstedt, A. and A., Rutgersson (1998). Closing the energy and water cycles of the Baltic Sea. Conference Proceedings from The Second Study Conference on BALTEX, Rugen, Germany, 25-29 May 1998, Editor E. Raschke and H.-J. Isemer, pp.164-165. International BALTEX Secr., Publication, 11, GKSS Research Center, Geesthacht, Germany.
- Alenius, P. and A., Omstedt (1996). Meteorological, hydrological and hydrographic conditions in the Gulf of Bothnia 1989-1993. Chapter 4.1.2 in HELCOM third periodic

- assessment of the state of the marine environment of the Baltic Sea. Report No. 64 B. Helsinki Commission. Helsinki, Finland.
- Elkens, J., A., Trzosinska, E. Lysiak-Pastuszek, A., Omstedt and H.U. Lass (1996). Hydrography of the Baltic Proper, 1989-1993. Chapter 4.4.1 in HELCOM third periodic assessment of the state of the marine environment of the Baltic Sea. Report No. 64 B. Helsinki Commission. Helsinki Finland.
 - Haapala, J., Alenius, P., Dubra, J., Klyachin, S.V., Köuts, T., Leppäranta, M., Omstedt, A., Pakstys, L., Schmelzer, N., Schrum, C., Seinä, A., Trubing, K., Sztobryn, M., and E., Zaharchenko (1996). Ice data bank for the Baltic Sea climate studies (IDA). Report series in Geophysics, no 35, University of Helsinki, Finland, pp. 45.
 - Macdonald, R.W., D.W. Paton, E.C. Carmack and A. Omstedt (1996). The Mackenzie shelf brine factory: A river runs through it. Proceedings of the ACSYS conference on the dynamics of the Arctic climate system. World Climate Research Programme, WCRP-94, WMO/TD No. 760, 425-427.
 - BALTEX(1995). Baltic Sea experiment BALTEX. Initial implementation plan. International BALTEX secr., No 2, Geesthacht, Germany.
 - Omstedt, A. (1995, Editor). First study conference on BALTEX. Visby, Sweden, Aug. 28- Sept 1., 1995. International BALTEX Secr., No. 3, GKSS Geesthacht, Germany
 - Omstedt, and Nyberg, L. (1995). A coupled ice-ocean model supporting winter navigation in the Baltic Sea. Part 2: Thermodynamics and meteorological coupling. SMHI Reports, RO 21.
 - Bergström, S. and Omstedt, A. (1994). BALTEX - Swedish research potential. Prepared by the Swedish IGBP-WCRP subcommittee for BALTEX. In manuscript.
 - Omstedt, A. (1994). Numerical simulation of frazil ice. In: Report on Frazil Ice, ed. S.F. Daly. CRREL Special Report 94-23.
 - Omstedt, A., Nyberg, L. and Leppäranta, M. (1994). A coupled ice-ocean model supporting winter navigation in the Baltic Sea. Part 1. Ice dynamics and water levels. SMHI Reports, RO 17, 17 pp.
 - Haapala, J., Leppäranta, M., and Omstedt, A. (1993). Forcing data for the Baltic Sea ice climate modeling. Proc. from the First Workshop on the Baltic Sea Ice Climate, Tvärminne, Finland, 24 -26 August, 1993.
 - Marmefelt, E., and Omstedt, A. (1993). Swedish Eulerian current measurements. In: Gulf of Bothnia Year 1991, Chapter 2: Physical transport experiments. Editors: Murthy, Håkansson and Alenius. SMHI Reports Oceanography, (RO) No. 15, pp. 127.
 - Marmefelt, E., Omstedt, A., Hietala, R., Lundqvist, J.-E., and Carlsson, B. (1993). Hydrometeorological data. In: Gulf of Bothnia Year 1991, Chapter 9: Physical transport experiments. Editors: Murthy, Håkansson and Alenius. SMHI Reports Oceanography, (RO) No. 15, pp 127.
 - Omstedt, A. (1993). On the role of the sea ice in the redistribution of fresh water and energy in the Baltic Sea. Proc. from the First Workshop on the Baltic Sea Ice Climate, Tvärminne, Finland, 24 -26 August, 1993.
 - Elmgren, R., Jansson, B.-O., and Omstedt, A. (1992). Marine research and limnology. Evaluation of Estonian research in natural sciences. Report to the Estonian Science Fund Council by the Swedish Natural Science Research Council, Box 6711, S-113 87 Stockholm, Sweden, 99 - 124.

- Fransson, L., Håkansson, B., Omstedt, A., and Stehn, L. (1990). Sea ice properties studied from the icebreaker Tor during BEPERS-88. Winter Navigation Board Research Report, No. 48.
- Omstedt, A. (1990). Note on: Real-time modelling of the summer temperatures in the Baltic Sea. SMHI, HOf PM 75, 1 - 4.
- Omstedt, A. (1990). Real-time modelling and forecasting of temperatures in the Baltic Sea. SMHI Reports, RO 12, 1 - 28.
- Omstedt, A., Gustavsson, N., and Mueller, L. (1990). Meteorological forcing functions. In: Large-scale environmental effects and ecological processes in the Baltic Sea. Research programme and background documents. Swedish Environmental Protection Agency, Chapter 2, 19 - 25. Report 3849.
- Burns, B., Håkansson, B., Omstedt, A., Thompson, T., and Garrity, C. (1989). Correction between snow and ice properties and SAR statistics as measured during BEPERS-88. Proc., IGARS'89, Helsinki, Finland.
- Fransson, L., Håkansson, B., Omstedt, A., Stehn, L., and Åström, L. (1989). Variation of ice properties in an ice area of 1 x 2 km in the Gulf of Bothnia. Proc., Conference on Port and Ocean Engineering under Arctic Conditions (POAC-89), Vol. 3, Luleå University of Technology, Luleå, Sweden.
- Omstedt, A. (1989). A review of mathematical models applied to the Baltic Sea, the Skagerrak and the North Sea. (In Swedish.) SMHI, R & D Notes, No. 61, pp 44.
- Omstedt, A. (1989). Dynamic and thermodynamic modelling of sea ice in coastal seas. Proc., Conference on Port and Ocean Engineering under Arctic Conditions (POAC-89), Vol. 1, 377- 384, Luleå University of Technology, Luleå, Sweden.
- Omstedt, A. (1988). Modelling the thermal regime of estuaries. Proc., IAHR Ice Symposium, Sapporo, Japan, SMHI, R & D Notes, No. 58.
- Lundqvist, J.-E., and Omstedt, A. (1987). Isförhållandena i Sveriges södra och västra farvatten. SMHI Reports, RO 4, Norrköping, Sweden.
- Omstedt, A. (1987). Numerical simulations of frazil ice.
A state-of-the-art report together with the papers of the IAHR Working Group on the Thermal Regimes of Water Bodies, SMHI, R & D Notes, No. 52.
- Omstedt, A. (1986). Modelling initial ice formation in rivers and oceans. Proc., IAHR Ice Symposium, Iowa City, Iowa, USA, SMHI R & D Notes, No. 49.
- Omstedt, A. (1985). An investigation of the crystal structure of sea ice in the Bothnian Bay. SMHI Reports, RHO 40, Norrköping, Sweden.
- Omstedt, A. (1985). On cooling and initial ice formation in the upper layers of the ocean. Ph.D. Thesis, Department of Oceanography, University of Gothenburg, Sweden.
- Omstedt, A. (1984). A forecast model for water cooling in the Gulf of Bothnia and Lake Vänern. SMHI Reports, RHO 36, Norrköping, Sweden.
- Omstedt, A. (1984). Winter navigation research at SMHI: Literature references. SMHI, HOf PM No. 29, Norrköping, Sweden.
- Omstedt, A., and Sahlberg, J. (1982). Vertical mixing and restratification in the Bay of Bothnia during cooling. SMHI Reports, RHO 32, Norrköping, Sweden.
- Ambjörn, C., Luide, T., Omstedt, A., och Svensson, J. (1981). En operationell oljedriftsmodell för norra Östersjön. SMHI Rapporter, RHO 29, Norrköping.

- Omstedt, A. (1981). Samspelet hav - is - atmosfär. Rapport från en kurs arrangerad av "NATO - Advanced Study Institute" 1981-09-28--10-10, Acquafredda di Maratea, Italien. PM U2/81, SMHI/VBM, Norrköping.
- Omstedt, A. (1980). A sensitivity analysis of steady, free floating ice. SMHI Reports, RMK 19, Norrköping, Sweden.
- Omstedt, A., and Sahlberg, J. (1978). Some results from a joint Swedish-Finnish sea ice experiment, March 1978. SMHI Reports, RMK 10, Norrköping, Sweden.
- Udin, I., och Omstedt, A. (1978). Verifiering av numeriska isprognoser vintern 1978. SMHI, PM VBM U2/78, Norrköping.
- Omstedt, A., och Udin, I. (1977). Verifiering av isprognoser gjorda vintern 1977 med SMHIs isdriftsmodell. SMHI, PM VBM U5/77, Norrköping.
- Johansson, L. (1977). Uppvällning i svenska kustvatten - en undersökning utifrån tre års ytvattentemperaturkartor. (Handledare: Anders Omstedt.) SMHI, PM VBM U1/77, Norrköping.
- Udin, I., and Omstedt, A. (1976). SEA ICE -75, Dynamical report. Forskningsrapport nr 16:8, Styrelsen för Vintersjöfartsforskning, Sjöfartsverket i Sverige och Sjöfartsstyrelsen i Finland.
- Omstedt, A., och Udin, I. (1975). Beräkning av kraftbalanser i samband med SEA ICE - 75. SMHI, PM VBM 1/75, Norrköping.
- Lundqvist, J.-E., Omstedt, A., och Udin, I. (1974). Kartering av ytvattentemperaturen i vattnen runt Sverige. Forskningsrapport nr 9, Styrelsen för Vintersjöfartsforskning, Sjöfartsverket i Sverige och Sjöfartsstyrelsen i Finland.
- Omstedt, A., Thompson, T., och Udin, I. (1974). Havsisundersökningen i Bottenviken 1974. Forskningsrapport nr 8, Styrelsen för Vintersjöfartsforskning, Sjöfartsverket i Sverige och Sjöfartsstyrelsen i Finland.
- Thompson, T., Udin, I., and Omstedt, A. (1974). Sea surface temperatures in waters surrounding Sweden. SMHI Reports, RMK 1, Norrköping, Sweden.

Popular Articles:

- Omstedt, A. (2024). Om möjlighetens ask och den framtid vi vill ha. <https://dromgruppsforum.se/mojlighetens-ask-och-om-den-framtid-vi-vill-ha/>
- Omstedt, A. (2024). Drömmar och inspiration som följeslagare. <https://dromgruppsforum.se/drommar-och-inspiration-som-foljeslagare/>
- Omstedt, A. (2024). Drömvärlden är musik. <https://dromgruppsforum.se/dromvarlden-ar-musik/>
- Omstedt, A. (2023). Drömmens förändrande kraft: Fyra drömmar av Fjodor Dostojevskij. <https://dromgruppsforum.se/drommars-forandrande-kraft/>
- Omstedt, A. (2023). Bokrecension: Dansa under diamanthimlen av Ove Boudin. <https://dromgruppsforum.se/bokrecension-dansa-under-diamanthimlen-av-ove-boudin/>

- Omstedt, A. (2023). Tal vid minnesceremoni för Gösta Walin 12 maj 2023.
<https://gupea.ub.gu.se/handle/2077/78334>
- Omstedt, A. (2022). Speech to celebrate the Department of Marine Sciences' 6th anniversary, 2021. In English and Swedish. Available at:
<https://gup.ub.gu.se/publication/314557>
- Omstedt, A. och E. Tärneberg (2022). Drömgruppsforums utveckling 2001–2021. Drömdialog 2022, sid 7–8, <http://www.dromgruppsforum.org.se/dromdialog/>.
- Tornesel, T. and Omstedt, A. (2022). Dream Groups in English. Drömdialog 2022, sid 25–27, <http://www.dromgruppsforum.org.se/dromdialog/>.
- Omstedt, A. (2021). Havsis längs svenska västkusten. Göteborgs Långfärdsskridskoklubbs årsbok 2020-2021, sid 16-19, www.glsk.se.
- Omstedt, A. (2021). Dreams and Marine Sciences. Drömdialog 2021, sid 19-21, <http://www.dromgruppsforum.org.se/dromdialog/>.
- Omstedt, A. och K., Hoppe Storck (2021). Pandoras och Ullmans askar. Drömdialog 2021, sid 10-13, <http://www.dromgruppsforum.org.se/dromdialog/>.
- Omstedt, A. (2021). Dreams and Marine Sciences. Drömdialog 2021, sid 19-21, <http://www.dromgruppsforum.org.se/dromdialog/>.
- Holm, S., Liljeberg, H., Lindahl, L., et al., with forward by A., Omstedt (2020). Treasures from the Sea. Konstpidemin Publishing House, Gothenburg, Sweden. ISBN 978-91-88691-14-9. <https://konstepidemin.se/book/treasures-from-the-sea/>
- Lundgren, E. interview with A., Omstedt (2020). Listening to the wisdom of the ocean. GU Journal, summer 2020, p 28-29. <https://issuu.com/universityofgothenburg/docs/guj3-2020english>.
- Lundgren, E. interjuv med A., Omstedt (2020). Vi har alla havet i oss. GU Journalen, summer 2020, p 36-37. <https://issuu.com/universityofgothenburg/docs/gu-journalen3-2020/s/10761903>.
- Omstedt, A. (2020). Ett nytt år ett nytt årtionde. Drömdialog 2020, sid 4, <http://www.dromgruppsforum.org.se/dromdialog/>.
- Omstedt, A. (2020). Hur vi kan träna drömförståelse. Drömdialog 2020, sid 11-12, <http://www.dromgruppsforum.org.se/dromdialog/>
- Omstedt, A. (2019). Sömn och drömgåtan. Drömdialogen 2019, sid 30, <http://www.dromgruppsforum.org.se/dromdialog/>.
- Omstedt, A. (2019). Om att bli berörd. Drömdialogen 2019, sid 29, <http://www.dromgruppsforum.org.se/dromdialog/>.
- Omstedt, A. (2018). När vi sammanför tanke och känslor kan vi tänka bättre. Drömdialogen 2018, sid 27. <http://www.dromgruppsforum.org.se/dromdialog/>
- Omstedt, A. (2017). Krönika: När vi sammanför vetenskap och konst kan vi tänka bättre. Vetenskapsrådets e-tidning Curie. <http://www.tidningencurie.se/kronikor/nar-vi-sammanfor-vetenskap-och-konst-kan-vi-tank-battare/>
- Omstedt, A. (2017). Förmågor som tränas i Ullmans metod. Drömdialogen 2017, sid 11. <http://www.dromgruppsforum.org.se/dromdialog/>
- Hansson, D., Omstedt, A., och Hallén, P., (2015). När lilla istiden bröts och klimatet blev varmare. Kapitel ur HAVET 1888 , sid 16-18, utgiven av Havsmiljöinstitutet. ISBN: 978-91-982291-0-3.

- Omstedt, A., och Veiderpass, V., (2015). Den hydrografiska resan 1877: expeditionen ger kunskap om dagens klimatförändringar. Kapitel ur HAVET 1888 , sid 19-21, utgiven av Havsmiljöinstitutet. ISBN: 978-91-982291-0-3.
- Omstedt, A., (2014). Klimatförändringens påverkan på isarna. Göteborgs Långfärdsskridskoklubbs årsbok 2013-2014. Sid 42-45, www.glsk.se
- Reckermann, M., Von Storch, H., A. Omstedt (2013). BACC II results presented and discussed in Tallinn. BALTEX. Newsletter 15, 4. International BALTEX Secretariat, GKSS, Geestacht, Germany.
- Baltic-C Building predicative capability regarding the Baltic Sea carbon and oxygen system. BONUS Briefing Number 5, 20011.[http://www.bonusportal.org/publications/publications_\(old\)/bonus_briefings](http://www.bonusportal.org/publications/publications_(old)/bonus_briefings)
- Grimvall, A., and A., Omstedt (2010). Havets förurning-data, modeller och statistikerns roll. Qvintensen. Medlemstidning för Svenska Statistikfrämjandet, Nr 4, 2010, sid 14-16. (<http://www.statistikframjandet.se/QvintensenNyhetsbrev/tabid/297/Default.aspx>)
- Omstedt, A., (2010). Baltic-C: Building predictive capability regarding the Baltic Sea organic/inorganic carbon and oxygen system. BONUS in Brief November 2010, page 7.
- Reckermann, M., MacKenzie, B., Brander, K., A. Omstedt (2009). Summer climate on Bornholm - - BALTEX co-organizes interdisciplinary Summer School. BALTEX. Newsletter 13, pp. 1-2. International BALTEX Secretariat, GKSS, Geestacht, Germany.
- Omstedt A. (2008). Baltic-C: Building predictive capability regarding the Baltic Sea organic/inorganic carbon and oxygen system. BALTEX. Newsletter 11, pp. 5-7. International BALTEX Secretariat, GKSS, Geestacht, Germany.
- Omstedt A. (2008). Modelling the Baltic Sea acid-base (pH) balance. BALTEX. Newsletter 11, pp. 14-16. International BALTEX Secretariat, GKSS, Geestacht, Germany.
- Lagner, J., Vihma, T., and A., Omstedt (2008). Review of BALTEX Phase II Objectives. BALTEX. Newsletter 11, pp. 1-3. International BALTEX Secretariat, GKSS, Geestacht, Germany. Download at <http://www.baltex-research.eu/>
- Omstedt, A. (2007). The Northern Kvark Strait: an important and unknown strait. BALTEX. Newsletter 10, pp. 6-7. International BALTEX Secretariat, GKSS, Geestacht, Germany.
- Hansson, D., C., Eriksson and A., Omstedt, (2007). Klimatförändringar under femhundra år. Havet 2007 - om miljötillståndet i våra havsområden, pp 22-24. ISBN 978-91-620-1262-5, Download from havet.nu
- Hansson, D., C., Ericsson and A., Omstedt (2007). Kommer isen försvinna i Östersjön? Göteborgs långfärdsskridskoklubbs årsbok 2007.
- Eriksson, C., D., Hansson, A., Omstedt and D. Chen (2007). Reconstruction of river runoff to the Baltic Sea for the period 1500–1995. GEWEX Newsletter, Vol 17, No 3.
- Jönsson, Boel (2007). Troligen ett varmare hav. Intervju av Anders Omstedt i tidskriften Kemivärlden Biotech med Kemisk Tidskrift. Nr 4, sid 25-26, April 2007.
- Omstedt, A. (2006). Norra Kvarken – en vit prick på den oceanografiska kartan? Havsutskikt 2/2006.
- Omstedt, A. (2006). The Baltic Sea Climate: Today, Yesterday and Tomorrow – Part 3. The Baltic Sea Tomorrow – A Sea of Information.. BALTEX Newsletter, 9, pp. 5-6.

International BALTEX Secretariat, GKSS, Geestacht, Germany Omstedt A., (2005). The Baltic Sea Climate: Today, Yesterday and Tomorrow – Part 2. The Baltic Sea yesterday – A puzzle to piece. BALTEX. Newsletter 8, pp. 3-4. International BALTEX Secretariat, GKSS, Geestacht, Germany.

- Andrén, T., Andrén, E., Nordberg K., och Omstedt, A. (2005). Östersjön förändras ständigt. Upsala Nya Tidning. 8 juni.
- Omstedt, A. (2005). Återkoppling på kommentar av Bert Bolin. Forskning och Framsteg, 1, 57.
- Omstedt, A. (2005). The Baltic – A wondrous enigma. BALTEX Newsletter, 7. International BALTEX Secretariat, Max Planck Strasse 1, D-21502 Geestacht, Germany.
- Omstedt, A. (2005). Baltic Sea research within the BALTEX phase II: some thoughts. BALTEX Newsletter, 7. International BALTEX Secretariat, Max Planck Strasse 1, D-21502 Geestacht, Germany.
- Omstedt, A. (2005). Östersjön imorgon-ett hav av information. Havsutsikt 1/2005.
- Omstedt, A. (2004). Östersjön igår-ett pussel att lägga. Havsutsikt 3/2004.
- Omstedt, A. (2004). Östersjön idag-många gåtor återstår. Havsutsikt 2/2004.
- Rummukainen, M., C., Jones, Bringfelt, B., Ullerstig, A., Wille'n, U., and A., Omstedt (1999). New version of the Rossby Centre regional atmospheric climate model. SWECLIM News letter, 4, 12-15, SMHI-Rossby Centre, S-601 76 Norrköping, Sweden.
- Winsor, P., Rodhe, J., and A., Omstedt (1999). The ocean climate of the Baltic Sea and the Kattegat. Analysing the variability using historical data. SWECLIM News letter, 4, 21-27, SMHI-Rossby Centre, S-601 76 Norrköping, Sweden.
- Omstedt, A. (1998). Kommer isen i Östersjön att försvinna? Klimatet i Framtiden. Årsrapport 1998 från SWECLIM, SMHI-Rossby Centret, 601 76 Norrköping, Sverige, pp. 14-15.
- Omstedt, A. (1997). The role of ocean models in BALTEX and implications for future work. BALTEX Newsletter, No. 2, 9-10. International BALTEX Secretariat, GKSS, Geestacht, Germany.
- Andersson, L., Håkansson, B., Lundqvist, J.-E., Omstedt, A., Rahm, L.-A., Sjöberg, B., and Svensson, J. (1992). The water in west and east. (In English and Swedish.) National Atlas of Sweden. Sea and Coast, 56 - 72. Editor: B. Sjöberg. ISBN 91-87760-16-9. Distr. by Almqvist and Wiksell International, Stockholm, Sweden.
- Omstedt, A. (1983). Oceanografi och marin meteorologi i Kina. Svenska Havsforskarföreningens Årsbok 1983.
- Omstedt, A., m fl (1983). Meteorology and Oceanography in the Peoples Republic of China. Swedish Meteorological Society, Report March 1983.

Numerical model documentations:

- Omstedt, A. (2009). Baltic Sea Marine system: An introduction. Lecture notes for the International Advanced PhD Course on: Climate impact on the Baltic Sea from science to policy. 27 July-5 August, 2009, Nexö, Bornholm, Denmark. Available from the author or for downloading from the [products page](#).

- Omstedt, A. (2008). Process-oriented numerical modelling of lakes, coastal seas, and oceans. Part I: Physical aspects.
Available from the author or for downloading from the [products page](#).
- Omstedt, A., Gustafsson E., and K., Wesslander (2008). Process-oriented numerical modelling of lakes, coastal seas, and oceans. Part II: Biogeochemical aspects.
Available from the author or for downloading from the [products page](#).
- Omstedt, A. (2008). Process-oriented numerical modelling of lakes, coastal seas, and oceans. Part III: The PROBE-Baltic model system.
Available from the author or for downloading from the [products page](#).
- Omstedt, A. (2006). Introduction to Lake and Ocean modelling. Compendium available from the author.
- Svensson, U., Axell, L., Sahlberg, J. and A., Omstedt (2002). PROBE Program for Boundary Layers in the Environment. System description and Manual. Updated Version available from Anders Omstedt and Jörgen Sahlberg.
- Omstedt, A. (1993). Seasonal cycle of salinity in the Mackenzie Shelf/Estuary. SMHI, PROBE Case Report No. B 20.
- Omstedt, A. (1990). Seasonal variations of a sea ice cover. SMHI, PROBE Case Report No. B 19.
- Omstedt, A. (1988). Fjord exchange driven by coastal variations. SMHI, PROBE Case Report No. B 18.
- Omstedt, A. (1988). The ocean boundary layer beneath drifting melting ice. SMHI, PROBE Case Report No. B 17.
- Omstedt, A. (1987). Wind-forced sea ice motion. SMHI, PROBE Case Report No. B 5.
- Omstedt, A. (1987). Wind-forced sea ice motion during freezing and melting. SMHI, PROBE Case Report No. B 16.
- Omstedt, A. (1986). Autumn cooling in the Kattegat, the Belt Sea, Öresund and the Arkona Basin. SMHI, PROBE Case Report No. B 14.
- Omstedt, A. (1986). Fjords with wide sounds. SMHI, PROBE Case Report No. B 13.
- Omstedt, A. (1986). The exchange of properties between two ocean basins. SMHI, PROBE Case Report No. B 12.
- Omstedt, A. (1986). The water level response in two coupled ocean basins to tides and rivers. SMHI, PROBE Case Report No. B 11.
- Omstedt, A. (1985). Formation of frazil ice, slush and anchor ice in rivers. SMHI, PROBE Case Report No. C 6.
- Omstedt, A. (1985). Frazil ice and grease ice formation in the upper layers of the ocean. SMHI, PROBE Case Report No. B 8.
- Omstedt, A. (1985). The frazil ice experiments by Tsang and Hanley. SMHI, PROBE Case Report No. A 8.
- Omstedt, A. (1984). The plane Couette flow. SMHI, PROBE Case Report No. A 3.
- Omstedt, A. (1984). The homogeneous Ekman layer. SMHI, PROBE Case Report No. B1.
- Omstedt, A. (1984). The Ekman boundary layer stratified with respect to salinity and temperature. SMHI, PROBE Case Report No. B 3.
- Omstedt, A. (1984). Super-cooling and ice formation in a turbulent Ekman layer. SMHI, PROBE Case Report No. B 4.

