

Hartmut H. Hellmer - Curriculum Vitae

Date of Birth:	19 October 1956, Braunschweig, Germany.
Education:	1989 - Ph.D. University of Hamburg, Department of Geosciences
Current address:	Alfred Wegener Institute for Polar and Marine Research Bussestr. 24 D-27570 Bremerhaven Germany phone: +49 471 4831-1794 fax: +49 471 4831-1797 internet: Hartmut.Hellmer@awi.de web: www.awi.de

Positions

1984 - 1988	PhD student, Department of Physics, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany.
1989 - 1990	Postdoctoral Investigator, Department of Physics II, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany.
1990 - 1992	Postdoctoral Fellow, Lamont-Doherty Earth Observatory of Columbia University, Palisades NY, USA.
1992 - 1993	Postdoctoral Research Scientist, Department of Physical Oceanography, Lamont-Doherty Earth Observatory of Columbia University, USA.
1993 - 1996	Associate Research Scientist, Department of Physical Oceanography, Lamont-Doherty Earth Observatory of Columbia University, USA.
1996 -	Senior Research Scientist, Department Climate System, Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany.
1997 -	Adjunct Research Scientist, Lamont-Doherty Earth Observatory of Columbia University, Palisades NY, USA.

Field Programs

1981	FRV WALTER HERWIG (British Islands)
1982	RV VALDIVIA (North Sea)
1985	RV POLARSTERN (Weddell Sea, ANT III/3)
1989	RV POLARSTERN (Greenland Sea, GSP)
1992	ICE STATION WEDDELL 1 (Western Weddell Sea); chief scientist on Leg III.
1994	USCGC POLAR SEA (Ross Sea); co-chief scientist.
1994	RVIB N.B. PALMER (Amundsen-Bellingshausen Seas, NBP94-2); co-chief scientist.
1994	RVIB N.B. PALMER (Amundsen-Ross Seas, NBP94-5); leader of the oceanographic programme.
2000	RVIB ARY RONGEL ARXVIII (South Scotia Arc/Northern Weddell Sea); leader of the oceanographic programme.
2001	RVIB ARY RONGEL ARXIX (South Scotia Arc/Northern Weddell Sea); leader of the oceanographic programme.

2006	RV POLARSTERN ANT XXIII/7 (Winter Weddell Outflow Study (WWOS) - Northwestern Weddell Sea); leader of the oceanographic programme.
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Publications of the last 5 years

2004	Hellmer, H. H. , Impact of Antarctic ice shelf melting on sea ice and deep ocean properties, <i>Geophysical Research Letters</i> , Vol. 31, No. 10, L10307, doi: 10.1029/2004GL019506
2005	Assmann, K.M., Hellmer, H.H., Jacobs, S.S. (2005). Amundsen Sea ice production and transport , <i>Journal of Geophysical Research-Oceans</i> , 110, C12013, doi: 10.1029/2004JC002797 . Hellmer, H. H. (2005). On the problem of parameterizing ice shelf-ocean interaction in global climate models , <i>Forum for Research into Ice Shelf Processes (FRISP) Report No. 16</i> , 27-31. Hellmer, H. H., Schodlok, M. P., Wenzel, M., Schröter, J. G. (2005). On the influence of adequate Weddell Sea characteristics in a large-scale global ocean circulation model , <i>Ocean Dynamics</i> , 55(2), 88-99, doi: 10.1007/s10236-005-0112-4 . Schodlok, M. P., Hellmer, H. H., Schwarz, J. N., Busche, T. (2005). On iceberg behaviour: observations, model results, and satellite data , <i>Forum for Research into Ice Shelf Processes (FRISP) Report, No. 16</i> , 19-25.
2006	Fahrbach, E., Harms, S., Hellmer, H. H., Jenkins, A., Nicholls, K., Osterhus, S., Padman, L., Rohardt, G., Schröder, M., Woodgate, R. (2006). The fieldwork during the "Polarstern" cruise ANT-XVI/2 as a contribution to the study of bottom water formation and sea ice transport in the Weddell Sea , <i>Forum for Research into Ice Shelf Processes (FRISP), Report No. 14</i> , 18-27. Hellmer, H. H., Dieckmann, G. S., Haas, C., Schröder, M. (2006). Sea ice feedbacks observed in western Weddell Sea , <i>EOS, Transactions, American Geophysical Union</i> , 87(18), 173, 179. Hellmer, H. H. (2006). Weddell Sea Oceanography , <i>Encyclopedia of the Antarctic / Beau Riffenburgh, editor. New York : Routledge, vol. 2</i> , 1053-1056. Rodehacke, C. B., Hellmer, H. H., Huhn, O., Beckmann, A. (2006). Ocean/ice shelf interaction in the southern Weddell Sea: results of a regional numerical helium/neon simulation , <i>Ocean Dynamics</i> , doi: 10.1007/s10236-006-0073-2 . Saleck, N., Hellmer, H. H., Fahrbach, E. (2006). On the influence of ice shelf edge position on circulation and water mass modification http://www.uib.no/People/ngfls/frisp/Rep14/saleck_2000.pdf , <i>Forum for Research into Ice Shelf Processes (FRISP), Report No. 14</i> , 68-73. Schodlok, M. P., Hellmer, H. H., Rohardt, G., Fahrbach, E. (2006). Weddell Sea iceberg drift: Five years of observations , <i>Journal of Geophysical Research-Oceans</i> , Vol. 111(C6), C06018, doi: 10.1029/2004JC002661 .
2007	Rodehacke, C.B., Hellmer, H.H., Beckmann, A., Roether, W. (2007). Formation and spreading of Antarctic deep and bottom waters inferred from a chlorofluorocarbon (CFC) simulation , <i>Journal of Geophysical Research-Oceans</i> , 112, C09001, doi: 10.1029/2006JC003884 .
2008	Absy, J.M., Schröder, M., Muench, R., Hellmer, H.H. (2008). Early summer thermohaline characteristics and mixing in the western Weddell Sea , <i>Deep Sea Research II</i> , 55(8-9), 1117-1131, doi: 10.1016/j.dsr2.2007.12.023 . Hellmer, H.H., Haas, C., Schröder, M., Dieckmann, G.S., Spindler, M. (2008). The ISPOL drift experiment , <i>Deep Sea Research II</i> , 55(8-9), 913-917., doi: 10.1016/j.dsr2.2008.01.001 . Huhn, O., Hellmer, H.H., Rhein, M., Rodehacke, C.B., Roether, W., Schodlok, M.P., Schröder, M. (2008). Evidence of deep- and bottom-water formation in the western Weddell Sea , <i>Deep Sea Research II</i> , 55(8-9), 1098-1116., doi: 10.1016/j.dsr2.2007.12.015 . Rodehacke, C. B., Roether, W., Hellmer, H. H., Hall, T. (2008). Temporal variations and trends of CFC11 and CFC12 surface and deep water saturations in Antarctic marginal seas: Results of a regional ocean circulation model , <i>Deep Sea Research I</i> . Schodlok, M.P., Wenzel, M., Schröter, J., Hellmer, H.H. (2008). Regional and Global Effects of Southern Ocean Constraints in a Global Model , <i>Ocean Dynamics</i> , doi: 10.1007/s10236-008-0143-8 .

Committees

1999-2003	Co-chair of iAnZone – a SCOR (Scientific Committee on Ocean Research) affiliated program
2001-2006	Member of the Autosub Under Ice (NERC) Scientific Steering Committee
2009	Member of the ICE2SEA (EU-FP7) Scientific Steering Committee
2009	Coordinator for physical and chemical projects in DFG "Schwerpunkt Antarktisforschung"

Collaborations

international	British Antarctic Survey (BAS), Cambridge, United Kingdom Earth & Space Research, Seattle, U.S.A. Lamont-Doherty Earth Observatory of Columbia University (LDEO), Palisades, New York, USA University of Rio Grande (FURG), Rio Grande, Brazil
national	University of Münster/Geophysical Institute Deutsches Zentrum für Luft- und Raumfahrt (DLR)

Collaborators and Associates

E. Fahrbach (AWI), C. Garcia (FURG), A. Gordon (LDEO), K. Grosfeld (Uni Bremen), D. Holland (NYU), S. Jacobs (LDEO), A. Jenkins (BAS), M. Mata (FURG), R. Muench (ESR), R. Robertson (LDEO), H. Sandhäger (AWI), P. Schlosser (LDEO), M. Schröder (AWI).

Graduate advisees

J. M. Absy (AWI)

Memberships

American Geophysical Union (AGU)
Deutsche Gesellschaft für Polarforschung (German Polar Research Union)

Honors

Antarctic Service Medal of the United States of America