Curriculum Vitae

Peter Schlosser

Education

July 22, 1985:	Promotionsprüfung (PhD Degree)
1982-1985:	Dissertation work, University of Heidelberg; Thesis advisors: Prof. Wolfgang Roether and Prof. Karl Otto Münnich
July 31, 1981:	Diplomprüfung (equivalent to Master of Science Degree)
1975-1981:	Study of Physics, University of Heidelberg

Employment

2015 – present	Maurice Ewing and J. Lamar Worzel Professor of Geophysics Department of Earth and Environmental Engineering
1993 – present	Professor, Department of Earth and Environmental Sciences, Columbia University
1999 – 2014	Vinton Professor of Earth and Environmental Engineering
1998 to 1999	Professor, Department of Earth and Environmental Engineering, School of Engineering and Applied Science, Columbia University
Summer 1994:	Visiting Professor, University of Washington, Seattle
1993 to present	Senior Staff, Lamont-Doherty Earth Observatory
July 1, 1992:	Tenure, Columbia University
July 1, 1989:	Appointment to Associate Professor, Columbia University
April 1, 1986- June 30, 1989	Hochschulassistent (Assistant Professor), Institute for Environmental Physics, University of Heidelberg
1981-1986:	Research Assistant, Inst. f. Umweltphysik, Univ. of Heidelberg

2015 – present	Chair, Dept. of Earth and Environmental Engineering, CU
2000 – 2003	Chair, Dept. of Earth and Environmental Engineering, CU
2000 – 2003	Associate Chair, Henry Krumb School of Mines, CU

2012 – present	Deputy Director, The Earth Institute, Columbia University
2007 – present	Director of Research, The Earth Institute, Columbia University
2009 – 2015	Founding Chair, Earth Institute faculty
2004 – 2012	Associate Director, The Earth Institute at Columbia University

Scientific interests

Studies of water movement and its variability in natural systems (oceans, lakes, rivers, groundwater) using natural and anthropogenic trace substances and isotopes as 'dyes' or as 'radioactive clocks'; ocean/atmosphere gas exchange; reconstruction of continental paleotemperature records using groundwater as archive; anthropogenic impact on natural systems. Sustainable Development as academic discipline.

Honors/Recognition

2012	Printing of groundwater dating publication as 'Benchmark Paper' by IAHS
2011	Elected Fellow of the Explorers Club
2011	Elected Fellow of the American Assoc. for the Advancement of Science (AAAS)
2007	Elected Fellow of the American Geophysical Union (AGU)
1994	Vetlesen Fellow, University of Washington, Seattle

Memberships

American Geophysical Union
American Association for the Advancement of Science
The Oceanography Society
European Geophysical Union
Arctic Institute of North America
German Physical Society
New York Academy of Sciences
The Geochemical Society

Professional activities / Leadership

2015	Co-Chair; Symposium on Sustainable Oceans; Columbia University; September 28 – 30, 2015.
2015 –	Member, AGU (American Geophysical Union) Development Board
2015 –	Member, University College Dublin Earth Institute Scientific Advisory Board
2015 –	Member, German Science Council Committee for National Roadmap for Research Infrastructure
2014 –	Member, Scientific Steering Committee ArcticSTAR
2014 –	Co-Chair; Organizing Committee; 3rd Arctic Observing Summit
2014 –	Member, German Science Council Committee for Evaluation of the Helmholtz Association Program Oriented Support Structure
2014 –	Member, International Scientific Advisory Committee; MEOPAR; Marine Environmental Observation Prediction and Response Network
2013 – 2014	Co-Chair; 2nd Arctic Observing Summit; Helsinki, April 2014
2013 – 2014	Chair, AGU OS section Honors and Recognition Committee
2013 –	Member, Earth League
2013 –	Member, selection committee, AGU 'Science for Solutions' award
2012 – 2015	Member, Scientific Advisory Board; Excellence Cluster 'Future Ocean'; Kiel
2012 –	Member of the Board; International Sustainable Development Society (ISDRS)
2012 – 2013	Member, Organizing Committee, 1st Arctic Observing Summit Vancouver; May 2013
2012 – 2013	Member; Scientific Committee; Draeger Symposium 'Sustainable Oceans'; Lisbon, June 2013
2012	Member, German Science Council Review Panel for Excellence Initiative
2011 – 2012	Member; Scientific Committee; Draeger Symposium 'Sustainable Oceans'; New York, July 2012
2011 – 2013	Member, German Science Council Committee for National Roadmap for Research Infrastructure
2011 – 2012	Member, Scientific Committee, International Sustainable Development Research Conference 18 (ISDRC 18)
2011	Convener; Bellagio Conference on an International Alliance in Sustainable Development; August 24 – 27, 2011

2010 – 2011	Member; Scientific Committee; Draeger Symposium 'Sustainable Oceans'; Hamburg, Germany, June 29 – July 1, 2011
2010 – 2011	Co-Chair of the International Sustainable Development Research Conference 17; Chair, Scientific Committee of ISDRC 17
2010 – 2011	Member; NAS/NRC panel 'Future Science Opportunities in the Antarctic and Southern Ocean'
2010 – 2011	Member, AGU Mission:Alignment Project (M:AP)
2010 – 2012	President, AGU Ocean Sciences section
2009 – 2010	Chair, Organizing Committee; State of the Arctic Conference (Miami, March 16 to 19, 2010)
2009 – 2012	Member; SEARCH (Study of Environmental Arctic Change) Arctic Observing Network Design and Implementation Task Force (ADI)
2009 - 2011	Member U.S. GEOTRACES Arctic Ocean Planning Group
2010	Member, AGU (American Geophysical Union) Governance Task Force
2009 – 2010	Member, AGU Strategic Planning Task Force
2009 – 2010	Member, German Science Council Committee on German Research Fleet
2008 – 2012	Chair (2008 – 2010) and member (2010 – 2012), AGU Ocean Sciences section Fellows selection committee
2008 – 2010	Member, AGU Statutes and Bylaws Committee
2008 –	Member, AGU Ocean Sciences section executive committee
2008 – 2010	President – Elect, Ocean Sciences Section, American Geophysical Union
2008 – 2012	Member AGU Council
2006 – 2010	Member, Scientific Advisory Board, Max Planck Institute for Meteorology, Hamburg
2010 -	Co-Chair, Science Steering Group; ISAC (International Study of Arctic Change)
2006 – 2010	Member, Science Steering Group, International Study of Arctic Change
2005 – 2010	Chair, External Advisory Board, Princeton University/GFDL Joint Institute on Climate Studies
2004 - 2005	Member, IASC/AOSB Planning group for the International Study of Arctic Change Program (ISAC)
2004 – 2006	Member, NAS PRB Panel on Arctic Observing Networks
2004 – 2010	Chair, SEARCH (Study of Environmental Arctic Change) SSC
2003 – 2005	Member, U.S. National Committee for the International Polar Year (National Academy Panel)
2002 - 2004	Member, NSF Polar Programs Office Advisory Committee
2001 - 2005	Member, IGBP SOLAS (Surface Ocean Lower Atmosphere Study) International Scientific Steering Group
2001 – 2006	Member, SCICEX Science Steering Group
2001 – 2002	Member, ASOF (Arctic and Subarctic Ocean Fluxes) Science Steering Group
2000 – 2004	Member, AGU Ocean Sciences Section executive committee
2000 – 2009	Member, Section 'Radiometric dating of sediments and waters'; Heidelberg Academy of Sciences
2000 - 2008	Chair, Science Steering Committee, ARCHES (Abrupt Climate Changes)
1999 - 2003	Member, SEARCH (Study of Environmental Arctic Change) Scientific Steering Committee
1999 - 2003	Co-chair, NSF/ARCUS Logistics Working Group
1999 - 2002	Editor in Chief, Journal of Geophysical Research, Oceans
1998 - 2001	Member, SOLAS (Surface Ocean Lower Atmosphere Study) Planning group
9/98	Co-Chair, NSF/ARCUS workshop on 'Opportunities in Arctic Research'

1998 – 2001	Member, US CLIVAR Science Steering Group
1997	Member, Steering Committee, NSF workshop 'Advances and Primary Research Opportunities in Physical Oceanography Studies (APROPOS)'
1996 – 1997	Co-chair, Arctic Research Consortium of the U.S. (ARCUS) Logistics Working Group; report to Arctic Research Commission of the U.S.
1997 – 2000	Member, iAnZone/Scientific Committee on Oceanographic Research (SCOR) Steering Committee
1997 - 2004	Member, World Meteorological Organization (WMO)/ International Council of Scientific Unions (ICSU)/International Oceanographic Commission (IOC) Joint Scientific Committee for the World Climate Research Programme (WCRP)
1996 - 2000	Chair; L-DEO component of CORC (Consortium of the Ocean's Role in Climate)
1995	Convenor, Ewing Symposium on Tracer Oceanography
1995 - 1998	Member, Woods Hole AMS Facility National Advisory and Policy Board
1995 – 1999	Board of Directors, Arctic Research Consortium of the U.S. (ARCUS),
1995 - 1997	Member, World Ocean Circulation Experiment (WOCE) Synthesis and Modeling Working Group (SMWG)
1994 - 1995	Member, US WOCE Atlantic Ocean Scientific Steering Group (AOSSC)
1995	National Academy of Sciences, Panel on Climate Variability on Decade-to-Century time scales
1993 - 2000	Co-chair, Scientific Steering Group, NOAA Consortium for the ocean's role in climate (CORC)
1991 - 1997	Member, US WOCE Scientific Steering Committee
1992 - 1996	Member, US WOCE SSC Executive Committee
1992 - 1995	Columbia University Representative to ARCUS
1994	Vetlesen Fellow, Univ. of Washington, Seattle (May to Aug. 1994)
1991	Member, NOAA/JOI Ocean Observations Science Panel
1989 - 1994	Chair, WOCE Geochemical Tracer Scientific Panel
1990 - 1991	Member, WOCE SSG Executive Committee
1989 – 1993	Member, WOCE International Scientific Steering Group

Columbia University leadership and service

2014 –	Co-Chair, DEEE search committee for 4 professorships
2013 – 2014	Member, DEES faculty search committee
2012 –	Deputy Director, The Earth Institute, Columbia University
2012 – 2013	Member, search committee for Dean of School of Engineering and Applied Science
2011 –	Co-Chair, Columbia University seminar on 'Complexity Science, Modeling and Sustainability'
2011 – 2012	Member, search committee for Lamont-Doherty Earth Observatory Director
2011 – 2012	Member, search committee for named professorship and department chair in DEEE
2011 – 2012	Member, DEES faculty search committee
2010 -	Member, SEAS promotions committee
2010 - 2011	Chair, DEEE faculty search committee
2010 – 2014	Chair, Earth Institute Task Force on Sustainable Development
2009 – 2015	Chair, Earth Institute faculty

2009 -	Chair, Earth Institute faculty Executive Committee
2007 -	Director, Columbia Climate Center
2007 -	Director of Research, The Earth Institute at Columbia University
2006 – 2007	Chair, Search Committee for faculty position in DEEE
2007 -	L-DEO Executive Committee (Earth Institute Representative)
2006 – 2010	Member, Directorate of the Lenfest Center for Sustainable Energy
2004 – 2009	Member, Science Steering Group of the Global Roundtable on Climate Change (GROCC)
2004 -	Chair, Earth Institute Cross – Cutting Initiative
2004 -	Director, Earth Clinic, The Earth Institute at Columbia University
2004 – 2012	Associate Director, The Earth Institute at Columbia University
2003 – 2005	Member, Executive Committee of the Earth Institute at Columbia University (committee was dissolved in 2005)
2002 – 2009	Chair, Academic Committee of the Earth Institute at Columbia University
2002 - 2005	Member, Arts and Sciences Academic Review Committee
2002 - 2008	Member; L-DEO new Geochemistry Building Committee
2002 – 2003	Co-Chair L-DEO search committee for observational oceanography
2001 - 2002	Member, Biosphere 2 Faculty Council
2000 – 2003	Chair; Department of Earth and Environmental Engineering
2000 - 2002	Co-chair, CEI Academic Committee
1999 - 2000	Chair, Search Committee for Ewing-Worzel Chair
1999 – 2000	Member; search committee for CU Earth Institute and L-DEO directors
1999 – 2002	Member, review panel, Columbia University Academic Quality Fund
1999	Member, search committee for three junior faculty positions in Earth systems theory
1998	Member; search committee for Barnard faculty position in environmental organic geochemistry
1998 - 2003	Member, CU Environmental Molecular Science InstituteExecutive Committee
1997 - 2003	Department of Earth and Environmental Sciences, Planning Committee
1997 - 1998	Member, Columbia Earth Institute, Planning Committee
1997 - 1999	Co-Chair, Columbia Earth Institute; Interim Academic Committee
1996 - 1997	L-DEO Career Development Working Group
1996 - 1997	L-DEO Scientific Facilities Working Group
1996 - 1997	Co-chair; L-DEO Research Working Group
1996 - 1997	Columbia Earth Institute; Education Working Group
1996 - 1997	Columbia Earth Institute; Research Working Group
1996 - 2003	L-DEO Executive Committee
1995	Biosphere II Science/Research Committee
1995	Search committee for Director of Development
1994 – 1996	CERC Advisory group
1994 - 1995	Environmental Science lecture series committee
1994	Doherty Senior Scientist Nomination Committee
1994	Long Range Science Plan group
1994	Chair, Search Committee for junior faculty position in DEES
1994 - 1995	L-DEO and CEI Director Search Committee
1994 - 1996	Global System Initiative, Project Planning Group
1993 - 2010	NOAA Consortium L-DEO Scientific Steering Group
1993 - 1994	Geochemistry Green Building Committee
1992 – 1993	L-DEO Hydrology Committee

1992, 1993	L-DEO Postdoctoral Fellow selection committee
1991 – 1994	Chair, Geochemistry Safety Committee

Field experience

' Meteor' cruise 51	Tropical Atlantic; May to Jun, 1979
' Meteor' cruise 56	Buenos Aires-Hamburg; Mar to May, 1981
' Polarstern' cruise ANT III	Weddell Sea; Jan to Mar, 1985
' Polarstern' cruise ANT V	Weddell Sea; Jun to Sep, 1986
' Polarstern' cruise ARK IV	Arctic Ocean; Jul to Sep, 1987
' Meteor' cruise 11	ACC Atlantic sector; Jan to Mar, 1990
' Arctic 91 Expedition'	Arctic Ocean; Jul to Oct, 1991
Hudson River work	summer 2001, fall 2001; summer 2002, summer 2003, summer 2004

Invited talks (selected)

Alfred – Wegener Institute for Polar and Marine Research, Bremerhaven
Bedford Institute of Oceanography, Halifax, Canada
Duke University
Environmental Molecular Science Laboratory, PNNL
ETH, Zuerich, Switzerland
Naval Postgraduate School, Monterey
Institute of Ocean Sciences, Victoria, Canada
Institute for Marine Science, University of Hamburg
Institute for Marine Science, University of Kiel, Germany
International Arctic Science Center, Fairbanks; First Lee Lecture
Johns Hopkins University
Lamont-Doherty Earth Observatory, Columbia University
MIT
Max-Planck Institute for Chemistry, Mainz
NASA, Goddard Space Flight Center
National Science Foundation, OPP section
Naval Postgraduate School, Monterey
Rensselaer Polytechnic Institute
Rutgers University
State University of New York, Stony Brook
Stevens Institute of Technology
Swedish Polar Secretariat
Texas A&M University
University of Alaska, Fairbanks
University of Bern, Switzerland, Colloquium
University of Bremen, Germany
University of Edinburgh
University of Hamburg, Germany
University of Heidelberg, Germany, Colloquium
University of Kiel
University of Miami, RSMAS
University of Michigan, Ann Arbor; Turner Lecture
University of Paris
University of Toronto
University of Vienna

University of Washington, Seattle
University of Waterloo
Woods Hole Oceanographic Institution
Yale University

Numerous AGU sessions
Several GSA sessions
Several Goldschmidt sessions
Numerous EGU sessions

ACSYS Science Conference
Arctic Nuclear Waste Assessment Program; Woods Hole
Arctic Observing Summit
Arctic Summit Science Week, Tromso, Potsdam
ARCUS Forum
Crafoord Symposium, Stockholm, 2007
Draeger Symposium 'Sustainable Oceans'
Ewing Symposium on Tracers in Oceanography
Future Ocean Symposium, Kiel
German Physical Society Annual Meeting (Regensburg, Heidelberg)
NAS meeting on International Polar Year
NRC meeting on climate variability
Ringberg Conference on noble gases
WOCE Conference, Halifax
WOCE Southern Ocean Workshop, Hobart
WOCE Tracer Workshop, Bremen

Keynote speaker at 4 IAEA conferences (Intern. Atomic Energy Agency)

Numerous Science Planning Meetings

Students advised/sponsored

* sponsored; [1] Masters Thesis; [2] PhD Thesis

University of Heidelberg

1.	1982 – 1983	Christian Wagner[1]	Wet deposition of aerosols
2.	1983 - 1984	Rolf Ditschmann[1]	Wet deposition of aerosols
3.	1984 – 1985	Dietmar Wierzimok[1]	Wet deposition of aerosols
4.	1985 – 1989	Reinhold Bayer[*,1,2]	Development of mass spectrometric tritium measurement by the ^{3}He ingrowth method
5.	1986 – 1991	Gerhard Bönisch[*,1,2]	Tracer studies in the Arctic Ocean
6.	1986 - 1987	Christoph Heinze[1]	Modeling of tracer data
7.	1986 – 1989	Fritz Zaucker[*,1]	Modeling of tracer data
8.	1987 – 1989	Christoph Pfleiderer[1]	AMS ^{14}C technique
9.	1987 – 1989	Martin Hausmann[*,1]	Measurement of the diffusion constant of helium in ice
10.	1988 - 1989	Axel Suckow[*,1]	Measurement of helium permeation through glass
11.	1987 - 1989	Hans Rupp[*,2]	Development of helium isotope mass specrometry
12.	1988 - 1989	Amelie Schultze[*,1]	Dynamic solubility equilibrium of ^{3}He in

water

CU/L-DEO

1.	1990 – 1995	Jordan Clark[2]	Surface water hydrology; gas exchange
2.	1990 - 1998	Brenda Ekwurzel[*,2]	Arctic Ocean tracer studies
3.	1990 – 1994	Dorothea Grabitz[*,2]	Fresh water balance of the Arctic Ocean
4.	1993 – 1997	Stephanie Dunkle[*,2]	Shallow groundwater circulation
5.	1993 - 1996	Gautam Mandal[*,2]	Southern Ocean
6.	1994 - 2001	Bob Newton[*,2]	Arctic Ocean modeling
7.	1995 - 2000	David Ho[*,2]	Surface water hydrology
8.	1996 - 1999	Samar Khatiwala[*,2]	Tracer oceanography
9.	1999 – 2005	Nicholas Santella [*,2]	SF_6 and CFC studies
10.	2001 - 2003	Theodore Caplow	Hudson River Studies
11.	2001 – 2005	Xuefeng Liu [*,2]	CCl_4 degradation in the environment
12.	2002 – 2005	Allan Hornemann [2]	Tracer hydrology in Bangladesh
13.	2003 – 2009	Abigail Spieler[*,2]	Nordic seas circulation
14.	2003 - 2009	Paul Schmieder[*,2]	Hydrological studies
15.	2004 - 2010	Karrie Radloff	Hydrology/Geochemistry
16.	2005 - 2009	Brice Loose[*2]	Tracer oceanography
17.	2013 –	Angelica Pasqualini	Tracer Oceanography

Student Advisory Committees; *: primary advisor

1.	*Brenda Ekwurzel	1990 - 1998
2.	*Jordan Clark	1990 - 1995
3.	Rachel Oxburgh	1991 - 1993
4.	Aiguo Dai	1990 - 1993
5.	Bernard Bourdon	1990 - 1994
6.	Gideon Eschel	1990 - 1995
7.	Roberto Gwiazda	1990 - 1993
8.	Ta-Wei Chen	1991 - 1997
9.	Yan Zheng	1992 - 1998
10.	Jeff Severinghaus	1993 - 1994
11.	Javier Albarracin	1993
12.	*Stephanie Dunkle	1993 - 1997
13.	*Gautam Mandal	1993 - 1996
14.	Jennifer Monteith	1993 - 1995
15.	*Bob Newton	1993 - 2000
16.	Paul Marchese	1993 - 1997
17.	Stephanie Rubin	1994 - 1998
18.	Karen Kohfeld	1994 - 1998
19.	*David Ho	1995 - 2000
20.	*Samar Khatiwala	1995 - 1999
21.	Marcia Tobin	1996 - 1998
22.	Juliet Nichols	1996 - 1999
23.	Synte Peacock	1996 – 2000
24.	*Nicholas Santella	1999 – 2005
25.	Anthony Caniano	1999 – 2000
26.	* Theodore Caplow	2001 – 2004
27.	* Xuefeng Liu	2001 – 2005
28.	Allan Hornemann	2001 – 2005
29.	Harry Zahakos	2001 – 2003
30.	Jessy Cherrie	2002 – 2006

31.	Alison Keimowitz	2001 – 2003
32.	* Abigail Spieler	2003 – 2011
33.	* Paul Schmieder	2003 – 2009
34.	Ferdi Hellweger	2002 – 2004
35.	* Kathleen Radloff	2004 – 2010
36.	* Brice Loose	2005 – 2009
37.	Ivan Mihailov	2008 – 2013
38.	Jing Sun	2010 –
39.	Sheila Kragie	2011 – 2013
40.	*Angelica Paqualini	2013 –
41.	*Alan Shapiro	2013 – 2014
42.	Rajib Mozumder	2013 –
43.	Garrett Gissler	2014 –

Teaching experience

University of Heidelberg

Introduction to Physical Oceanography	1987
Introduction to Tracer Oceanography	1988

Columbia University

Isotope Geology I	1990, 1992, 1994, 1997
Isotope Geology II	1991, 1993, 1995, 1998
Tracer Oceanography	1991, 1993, 1995, 1998
Isotope Hydrology	1992, 1997, 2001, 2003, 2008
Advanced Geochemistry II (with J. Simpson and M. Stute)	1992
Seminar on noble gases in rocks (with Michelle Seidl and Martin Stute)	1994
Seminar on Southern Ocean (A. Gordon, P. Schlosser, D. Martinson)	1997
Water Quality Analysis (with N. Anid)	2003
Earth Climate System (V2100)	2005, 2006, 2007, 2008, 2009
Responding to Climate Change	2011, 2012

List of publications[1]

Peter Schlosser

Oceanography

5. Schlosser, P., 1986. Helium: a new tracer in Antarctic oceanography. *Nature*, 321, 233-235.

6. Thiele, G., Roether, W., Schlosser, P., Kuntz, R., Siedler, G. and Stramma, L., 1986. Baroclinic flow and transient-tracer fields in the Canary-Cape Verde Basin. *Journal of Physical Oceanography*, 16: 814-826.

8. Heinze, C., Schlosser, P. and Koltermann, K.P., 1986. Deep Water Renewal in the European Polar Seas as derived from a Multi - Tracer Approach. *ICES, C.M. 1986/C:17*, Hydrogr. Committee.

9. Fuchs, G., Roether, W. and Schlosser, P., 1987. ^{3}He excess in the ocean surface layer. *Journal of Geophysical Research*, 92, 6559-6568.

10. Schlosser, P., Roether, W. and Rohardt, G., 1987. ^{3}He balance of the upper layers of the northwestern Weddell Sea. *Deep—Sea Research*, 34: 365-377.

11. Rhein, M., Chan, L.H., Roether, W. and Schlosser, P., 1987. ^{226}Ra and Ba in the Northeast Atlantic Deep Water. *Deep—Sea Research*, 34, 1541-1564.

14. ARK IV/3 Shipboard Scientific Party, 1988. Breakthrough in Arctic Deep-Sea Research: R/V Polarstern Expedition 1987. *EOS*, Transactions, American Geophysical Union, 69, no 25, 665, 676-678.

16. Schlosser, P., Suess, E., Bayer, R. and Rhein, M., 1988. ^{3}He in the Bransfield Strait waters: indication for local injection from back-arc rifting. *Deep-Sea Research*, 35, 1919-1935.

17. Anderson, L.G., Jones, E.P., Koltermann, K.P., Schlosser, P., Swift, J.H. and Wallace, D.W.R., 1989. The first oceanographic section across the Nansen Basin in the Arctic Ocean. *Deep-Sea Research*, 36, 475-482.

20. Schlosser, P. and Roether, W., 1989. Spurenstoffozeanographische Untersuchungen in der Weddell-See (Tracer investigations in the Weddell Sea). in 'Iq Meteorology and Climatology of the Antarctic'; *Promet*, 112 189, 22-27; in German.

22. Schlosser, P., Kromer, B., Bayer, R., and Münnich, K.O., 1989. ^{14}C profiles in the Weddell Sea. *Radiocarbon*, 31, no. 3, 544-556.

23. Schlosser, P., Boenisch, G., Kromer, B., Münnich, K.O. and Koltermann, K.P., 1990. Ventilation rates of the waters in the Nansen Basin of the Arctic Ocean derived from a multi-tracer approach. *Journal of Geophysical Research*, 95, 3265-3272.

24. Schlosser, P., Bayer, R., Foldvik, A., Gammelsrod, T., Rohardt, G. and Münnich, K.O., 1990. ^{18}O and helium as tracers of Ice Shelf Water and water/ice interaction in the Weddell Sea. *Journal of Geophysical Research*, 95, 3253-3263.

25. Greenland Sea Project Group, 1990. Greenland Sea Project; A venture toward improved understanding of the oceans' role in climate. *Eos*, Transactions, American Geophysical Union, 71, no. 24, 750-751, 754-755.

[1] 10/6/2015; 181 publications; 184 published abstracts/reports/etc. H-Index: 44 (ISI), 57 (Google Scholar) No. of Citations (April 7, 2015): 5710 (ISI), 9718 (Google Scholar)

30. Heinze, C., Schlosser, P., Koltermann, K.P. and Meincke, J., 1990. A tracer study of the deep water renewal in the European Polar Seas. *Deep-Sea Research*, 37, 1425-1453.

32. Schlosser, P., Bönisch, G., Rhein, M. and Bayer, R., 1991. Reduction of Greenland Sea Deep Water formation during the 1980s: evidence from tracer data. *Science*, 251, 1054-1056.

33. Bayer, R. and Schlosser, P., 1991. Tritium profiles in the Weddell Sea. *Marine Chemistry*, 35, 123-136.

34. Schlosser, P., Bullister, J.L. and Bayer, R., 1991. Studies of deep water formation and circulation in the Weddell Sea using natural and anthropogenic tracers. *Marine Chemistry*, 35, 97-122.

37. Roether, W., Schlosser, P., Kuntz, R. and Weiss, W., 1992. Transient-tracer studies of the thermohaline circulation of the Mediterranean. In: 'Winds and Currents of the Mediterranean Basin', H. Charnock, Ed., *Reports in Meteorology and Oceanography*, 41, vol. 2, 291-317.

39. Wallace, D.W.R., Schlosser, P., Krysell, M. and Bönisch, G., 1992. Halocarbon ratio and tritium/^{3}He dating of water masses in the Nansen Basin, Arctic Ocean. *Deep-Sea Research*, 39, 435-458.

42. ISW Group, 1993. Weddell Sea Exploration from Ice Station. *EOS*,Transactions, American Geophysical Union, 74, no. 11, 121, 124-126.

43. Schlosser, P., Swift, J.H. and Lewis, D., 1993. Large—scale circulation of the Arctic ocean: implications for pollutant transport. In: Proceedings of the conference on 'Radioactivity and Environmental Security in the Oceans: New Research and Policy Priorities in the Arctic and North Atlantic', June 7 to 9, 1993, Woods Hole Oceanographic Institution, Woods Hole MA, USA, 285-309.

44. Schlosser, P., Bauch, D., Fairbanks, R. and Bönisch, G., 1994. Arctic river-runoff: mean residence time on the shelves and in the halocline. *Deep--Sea Research*}, 41, 1053-1068.

48. Schlosser, P., Kromer, B., Weppernig, R., Loosli, H.H., Bayer, R., Bonani, G. and Suter, M., 1994. The distribution of ^{14}C and ^{39}Ar in the Weddell Sea. *Journal of Geophysical Research*, 99, 10,275-10,287.

50. Fahrbach, E., Peterson, R.G., Rohardt, G., Schlosser, P., and Bayer, R., 1994. Suppression of bottom water formation in the southwestern Weddell Sea. *Deep-Sea Research*, 41, 389-411.

51. Schlosser, P., Kromer, B., Östlund, H.G., Ekwurzel, B., Bönisch, G., Loosli, H.H., and Purtschert, R. 1994. On the distribution of ^{14}C and ^{39}Ar in the Arctic Ocean: implications for deep water formation. *Radiocarbon*, 36, 327-343.

52. Schlosser, P., Bönisch, G., Kromer, B., Loosli, H.H., Bühler, B., Bayer, R., Bonani, G., Koltermann, K.P., 1995. Mid 1980s distribution of tritium, ^{3}He, ^{14}C and ^{39}Ar in the Greenland/Norwegian seas and the Nansen Basin of the Arctic Ocean. *Progress in Oceanography*, 35, 1-28.

53. Bauch, D., Schlosser, P. and Fairbanks, R.G., 1995. Freshwater balance and the sources of deep and bottom waters in the Arctic Ocean inferred from the distribution of $H_2{}^{18}O$. *Progress in Oceanography*, 35, 53-80.

55. Farley, K., Maier-Reimer, E., Schlosser, P., and Broecker, W.S., 1995. Constraints on mantle ^{3}He fluxes and deep-sea circulation from an oceanic General Circulation Model. *Journal of Geophysical Research*, 100, B3, 3829-3839.

56. Bönisch, G. and Schlosser, P., 1995. Deep water formation and exchange rates in the Greenland/Norwegian seas and the Eurasian Basin of the Arctic Ocean derived from tracer balances. *Progress in Oceanography*, 35, 29-52.

57. Schlosser, P., Swift, J., Lewis, D., and Pfirman, S.L., 1995. The role of the large-scale Arctic Ocean circulation in the transport of contaminants. *Deep - Sea Research* II, 42, 1337-1367.

60. Schlosser, P. and Smethie, W.M., Jr., 1995. Transient tracers as a tool to study variability of ocean circulation. National Research Council, 1995. *Natural Climate Variability on Decade-to-Century Time Scales*. D.G. Martinson, K. Bryan, M. Ghil, M.M. Hall, T.R. Karl, E.S. Sarachik, S. Sorooshian, and L.D. Talley, eds. National Academy Press, Washington, D.C. 274-288.

61. Weppernig, R., Schlosser, P., Khatiwala, S., and Fairbanks, R.G., 1996. Isotope data from Ice Station Weddell: implications for deep water formation in the western Weddell Sea. *Journal of Geophysical Research*, 25,723-25,739.

62. Pfirman, S.L., Schlosser, P., and Macdonald, R., 1996. Assessment of contaminant risk in the Arctic. *Arctic Research of the United States*}, 10, 11-23.

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