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Head Remote Sensing & Assimilation,

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### **Key aspects of activity**

Remote Sensing & Assimilation

### **Scientific path**

since April 2011 Director, Center for Earth System Research and Sustainability, KlimaCampus Hamburg, Universität Hamburg

since 2008 Fellow of Max-Planck-Society

since July 2003 Professor (C4), Institute of Oceanography, Universität Hamburg

2010 - 2011 Director, Center for Marine and Climate Research, KlimaCampus Hamburg, Universität Hamburg

2005 - 2011 Adjunct professor, Scripps Institution of Oceanography

2005 - 2011 Managing director, Institute of Oceanography, Universität Hamburg

2003 - 2005 Professor, Scripps Institution of Oceanography

April 2003 CIMAS Visiting Scientist, 'Rosenstiel School of Marine and Atmospheric Science'

July 2002 Visiting Scientist at MIT

July 2001 Visiting Scientist at Institute of Oceanography, Kiel

July 2000 Visiting Scientist at Oregon State University

1999 - 2003 Associate Professor, Scripps Institution of Oceanography

July 1998 Visiting Scientist at Woods Hole Oceanographic Institution

1997 - 2001 Principal research scientist, MIT

1995 - 1997 Research scientist, MIT

1993 - 1995 Research scientist, MIT (advisor: Prof. C. Wunsch)

1992 - 1993 Research scientist, Institute of Oceanography, Kiel

June 1992 PhD in Oceanography at the University of Kiel, Title: "On the mesoscale variability in the Atlantic Ocean" (advisor: Prof. J. Willebrand)

February 1987 Diploma in Oceanography at the University of Kiel, Title: "Seasonal Variation of the isopycnic potential vorticity in the warm water sphere of the North Atlantic" (advisor: Prof. J. D. Woods)

1983 - 1984 Graduate study at University of Hawaii, Honolulu, USA

1979 - 1992 Studies of physical Oceanography, Meteorology, Geophysics and Physics in Kiel (F.R.G.)

## **Publications**

2018

Stammer, D.; Cazenave, A. (Hg.). Satellite altimetry over oceans and land surfaces. Boca Raton, FL: Taylor & Francis, 2018.

Stammer , D.; Griffies, S. M. . "Ocean Modeling and Data Assimilation in the Context of Satellite Altimetry" . Satellite Altimetry Over Oceans and Land Surfaces. Hg. Stammer, D.; Cazenave, A. . Boca Raton, FL: Taylor & Francis, 2018, S. 547-580.

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Köhler, J.; Serra, N.; Bryan, F.O.; Johnson, B.K.; Stammer, D.. "Mechanisms of Mixed-Layer Salinity Seasonal Variability in the Indian Ocean" . Journal of Geophysical Research: Oceans 123 (1). (2018): S. 466-496.doi: 10.1002/2017JC013640

Lyu, G.; Köhl, A.; Matei, I.; Stammer, D.. "Adjoint-Based Climate Model Tuning: Application to the Planet Simulator" . Journal of Advances in Modeling Earth Systems (2018): S. 1-45. Accepted manuscript onlinedoi: 10.1002/2017MS001194

2017

Han, W.; Meehl, G.A.; Stammer, D.; Hu, A.; Hamlington, B.; Kenigson, J.; Palanisamy, H.; Thompson, P.. "Spatial Patterns of Sea Level Variability Associated with Natural Internal Climate Modes" . Surveys in Geophysics 38 (1). (2017): S. 217-250.doi: 10.1007/s10712-016-9386-y

Scharffenberg, M.G.; Köhl, A.; Stammer, D.. "Testing the Quality of Sea-Level Data Using the GECCO Adjoint Assimilation Approach" . Surveys in Geophysics 38 (1). (2017): S. 349-383.doi: 10.1007/s10712-016-9401-3

Stammer, D.; Bracco, A.; Detemmerman, V.. "Climate and ocean science builds for the future" . Earth & Space Science News 98. (2017) doi: 10.1029/2017EO073225

Hinrichs, I.; Gouretski, V.; Pätsch, J.; Emeis, K.; Stammer, D., "North Sea Biogeochemical Climatology" . 2017. doi: 10.1594/WDCC/NSBClim\_v1.1 Technical Report: North Sea Biogeochemical Climatology (Volltext)

Koldunov, N.V.; Köhl, A.; Serra, N.; Stammer, D.. "Sea ice assimilation into a coupled ocean-sea ice model using its adjoint" . The Cryosphere 11 (5). (2017): S. 2265-2281.doi: 10.5194/tc-11-2265-2017

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Hu, A.; Meehl, G.A.; Stammer, D.; Han, W.; Strand, W.G.. “Role of perturbing ocean initial condition in simulated regional sea level change” . Water (Switzerland) 9 (6), 401. (2017): S. 1–16.doi: 10.3390/w9060401

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Stammer, D.; Balmaseda, M.; Heimbach, P.; Köhl, A.; Weaver, A.. “Ocean Data Assimilation in Support of Climate Applications: Status and Perspectives” . Annual Review of Marine Science 8. (2016): S. 491–518.doi: 10.1146/annurev-marine-122414-034113

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Köhl, A.; Stammer, D.; Sena-Martins, M.. "Impact of Assimilating Surface Salinity from SMOS on Ocean Circulation Estimates" . Journal of Geophysical Research 119. (2014): S. 5449-5465.doi: 10.1002/2014JC010040

Liu,C.; Köhl, A.; Stammer, D.. "Interpreting layer thickness advection in terms of eddy-topography interaction" . Ocean Modelling 81. (2014): S. 65-77.doi: 10.1016/j.ocemod.2014.07.001

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Gade, M.; Grobelny, T.A.; Stammer, D.. “Multi-polarization scatterometer measurements of long surface gravity wave breaking” . Geoscience and Remote Sensing Symposium (IGARSS), 2014 IEEE International (2014): S. 2665-2668. IGARRS 2014, 13-18 July 2014, Quebec City, Canada doi: 10.1109/IGARSS.2014.6947022

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2011

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