

CURRICULUM VITAE **Prof. Dr. Astrid Bracher** email: Astrid.Bracher@awi.de
Peer-review publications 85 (81 currently in WoS; H-Index: 20 WoS, 23 Scopus), 7 submitted

Career & Education

Feb 2012- Senior Scientist (permanent post) and group leader of Phytooptics Group at Alfred-Wegener-Institute for Polar and Marine Research (AWI), Bremerhaven
Mar 2010- Adjunct professor of Environmental Physics at University Bremen
2007-2014 Group leader of Helmholtz-University Young Investigators Group, AWI and Institute of Environmental Physics (IUP), University Bremen
2001-2007 PostDoc at IUP, University Bremen
1999-2000 Research associate, German Advisory Council for Global Change (WBGU)
1999 PhD in Biological Oceanography, University Bremen (“magna cum laude”)
1995-1999 Research associate (PhD & publication of PhD), AWI
1994 Research assistant, AWI
1987-1993 Diploma in Biology, University of Freiburg (grade: 1.3), also at EAWAG, Zurich, Switzerland and Oberlin College, Oberlin, USA

Fundraising of Research Projects (only own funding is given);

Funding Agency	Project Name	Funding Period	Funding
As PI			
EU-CSA	KEPLER H2020-SPACE-2018-2020-LC-SPACE-02-EO-2018-SEP-210495044	1/2019-12/2021	48 k€
EU-CSA	PORTWIMS H2020-WIDESPREAD-05-2017-Twinning-810139	09/2018-08/2021	265 k€
ACRI-ST	OLCI-PFT ACRI-AWI Offer #209-180104	01/2018-12/2020	387 k€
DLR/BMWi	ACENMAP 50EE1620	01/2017-12/2019	322 k€
Helmholtz Assoc.	Polar Ocean system Observed from Space POSOS ExNet-0002-Phase1	10/2016-9/2017	40 k€
DFG	Atmospheric composition and ocean colour of the Arctic retrieved from satellite measurements; TR 172/1, C03	01/2016-12/2019	190 k€
Helmholtz Assoc.	REKLIM Topic 3 Arctic Change	11/2015-12/2019	180 k€
CSC	PhD Scholarship for Yangyang Liu	10/2015-3/2019	75 k€
ESA	SYNSEN 4000112410/14/I-NB_SEOM_SY-4SciSynergy	12/2014-11/2016	170 k€
DFG	PHYSYN BR2913/3	10/2014-12/2018	154 k€
IOCCG	Workshop on Validation of Satellite Phytoplankton Type Products	10-12/2014	16 k€
DAAD/CAPES	PhD Scholarship for R. Goncalves Araujo	10/2012-03/2017	75 k€
Total Foundation	PHYTOSCOPE (with ICM/CSIC, J. Piera)	01/2012-12/2014	43 k€
Helmholtz Assoc.	ESSRES PhD Scholarship for A. Wolanin	10/2011-9/2014	60 k€
Leibniz Assoc.	OCEANET	12/2009-12/2011	117 k€
DAAD/CAPES	PhD Scholarship for M. Altenburg Soppa	10/2009-03/2014	75 k€
EU	SHIVA ENV.2008.1.1.2.1-226224	07/2009-06/2013	145 k€
Helmholtz Assoc.	PHYTOOPTICS VH-NG-300	07/2007-11/2013	1500 k€
DFG	PASAT BR2913/1	12/2005-11/2007	150 k€
As Co-I			
Helmholtz Assoc.	AWI strategy Fond “IPSO”	01/2016-12/2018	10 k€
DFG	BiPhyCoSI (PI M. Losch, AWI) LO1143-6	08/2009-07/2012	112 k€
Helmholtz Assoc.	POLMAR PhD Scholarship for A. Cherkasheva (with J. Notholt, Uni Bremen)	08/2009-07/2012	40 k€
ESA	SCIAMACHY Long Term Validation (SCIoV; PI M. Weber, Uni Bremen), ENVI-CL-EOPG-SW-04-0017	03/2005-05/2009	280 k€

Teaching

- From 2007-2010 lecturer and since 2010 honorary professor at the University of Bremen, Department of Physics and Electrical Engineering : master courses "Remote Sensing I", "Ocean Optics and Ocean Color Remote Sensing" in master of "Environmental Physics", and "Remote Sensing of the ocean and cryosphere" in master "Space Technology". "Molecular Biology for Physicist" in master, diploma and bachelor of Physics
- Supervisor of PhD (5 completed, 3 running), diploma (2 completed) & bachelor (2 completed) theses
- Member of doctoral examination boards in: Physics and Biology Departments, University Bremen; Vrije Universiteit Amsterdam; Universitat Polytechnica de Catalunya; Technical University of Munich
- Supervisor for physics students' practica, student internships, school students' interns, girls-day
- Since 2014 coordinator and lecturer for module "Remote Sensing" of Centre of Excellence in Observational Oceanography at the AWI funded by Nippon Foundation (NF) and-Partnership for Observation of the Global Oceans (POGO); Helgoland, Germany, yearly two week course
- Lecturer at various graduate schools' (ECOLMAS 2008, ESSRES 2009, POLMAR 2010) and summer schools (6th (2010) and 8th (2012) Sino-German Summer School "Response of Ocean Biogeochemistry to Global Change", University of Hokkaido International "Arctic Remote Sensing" Summer School 2016)

Member of Boards

Current long-term assignments

- 2017- EnMAP Science Advisory Group (EnSAG)
- 2016- Co-chair at "International Initiative on Satellite Phytoplankton Functional Types Intercomparison Project"
- 2015- Associate Editor "Frontiers in Marine Sciences" (section "Ocean Observation")
- 2013- Co-I on "Development and calibration of GCOM-C ocean algorithms to derive biogeochemical-ecosystem variables towards satellite-model integrated analysis" project from JAXA (PI Takafumi Hirata, Hokkaido University, Sapporo, Japan)

Others

- 2018-2019 Steering Committee (SC) of the FLEX-Sentinel-3 Synergy Workshop (5-8 Mar 2019, Davos, Switzerland)
- 2018 Steering Committee (SC) of the International Circumpolar Remote Sensing Symposium (Potsdam 10-14 sep 2018)
- 2017-2021 Steering Committee (SC) of the BELSPO-funded HYPERMAQ project
- 2017 Co-chair Breakout Session "Quantifying the benefits and challenges of hyperspectral remote sensing: Looking towards the future of space-borne radiometry" at International Ocean Colour Science (IOCS), Lisboa, Portugal, 15 May 2017
- 2016-2018 Member of Scientific Planning Committee of Ocean Optics XXIV Conference to be held in Oct 2018 in Dubrovnik, Croatia
- 2016 Chair of "Phytoplankton Diversity session" and member of SC of ESA workshop "Colour and Light from EO", 6-8 Sep 2016, Frascati, Italy
- 2016 Member of NASA-sponsored Working Group "Prospects and Priorities for Satellite Monitoring of Global Marine Biodiversity!"
- 2015 Co-chair Breakout Session "Remote Sensing of Phytoplankton Composition – Possibilities, Applications and Future Needs" at International Ocean Colour Science (IOCS), San Francisco, USA, 16-18 June 2015
- 2014 Chair IOCCG workshop on "Validation of satellite products on phytoplankton groups" 25-26 Oct 2014, in Portland, Maine, USA
- 2014 Member of the Scientific Committee of "ESA-EGU-SOLAS Conference" 28-31 Oct 2014, ESA-ESRIN, Frascati, Italy
- 2013 Chair Splinter Session "Phytoplankton Community Structure from Ocean Colour: Methods, Validation, Intercomparisons and Application" at IOCS. Darmstadt
- 2012-2015 Reviewer of EU project "OSS2015" within 7th Framework Programme
- 2012-2014 Supervisor Delegate and Member of Academic Council of Earth System Science Graduate School (ESSRES)

2011 SC Member of “An Ocean Carbon and Biogeochemistry (OCB) Scoping Workshop on “Biogeochemical Flux Program Aligned with Ocean Observatories Initiative”

Editor:

2018- Guest editor at Journal Remote sensing Special Issue “Remote Sensing for Optical Oceanography”

2016-2017 Editor Research Topic “Colour and Light from Earth Observation” within journal Frontiers in Marine Sciences

2014-2016 Editor of Special Issue “MALINA” in Journal Biogeosciences

Reviewer:

- proposals to EU FP7, BELSPO, DFG, Helmholtz Association, SNSB

- Nature Communications, JGR, Global Biogeochemical Cycles, Biogeosciences, Remote Sensing of Environment, Optics Express, MEPS, Atmospheric Chemistry and Physics, Deep-Sea Research, Ocean Dynamics, Remote Sensing, Polar Biology, Advances in Space Research, Hydrobiology, Geoscientific Model Development, GEOP, EARSeL eProceedings

International Experience

1999 Dissertation Initiative for the Advancement Limnology and Oceanography (DIALOG) III Symposium, Bermuda Biological Station, Bermuda

1993 Diploma thesis at EAWAG, Zürich, Switzerland

1991 Scientific technician at the Limnological Research Station at Castle Lake, University of California at Davis, USA

1990-1991 Student and German assistant at Oberlin College, Ohio, USA

1986-1987 Volunteer at Children Home “Neve Hannah”, Kirjat Gat, Israel

Participation in Ship cruises & campaigns

2018 Aqua Alta Oceanographic Tower, Radiometric Intercalibrations for Sentinel-3

2018 Atlantic Transect, PS113 with RV Polarstern

2015 Peruvian Upwelling, SO243 with RV Sonne

2013, 2014 Ebro-Delta, Alfacs Bay, campaigns within project “PhytoSCOPE”

1994, 1995-96 Antarctic cruises ANT XI-3 and ANTXIII-2 with RV “Polarstern”

1994, 1995 North Sea cruises with RV “Victor Hensen”

Paternal Leaves for my three children (Beke *1997; Wilhelm *1998; Hans Henri *2002)

18 months with no work (03-10/97; 04-08/98; 11/00-02/01; 06-10/02)

31 months with only 50% on work (08/98-03/99; 06/99-10/00; 3-7/2007)