

Research Division  
Marine Biogeochemistry (FB2)  
Research Unit  
Biogeochemical Modelling (BM)



**Andreas Oschlies**  
Head of Biogeochemical Modelling  
Research Unit  
CDRmare / RETAKE /  
Global Ocean Oxygen Decade (GOOD)  
| Carbon dioxide removal  
| Ocean deoxygenation  
Room 5.502 | Phone 1936



**Sandy Avrutin**  
SEAO2-CDR  
| Implementation and side effects of  
marine CDR  
| Observation strategies for measurement  
of CDR-related ocean carbon uptake  
Room 5.511



**Chia-Te Chien**  
DFG Eigene Stelle: FLEXIBLE  
| Optimality-based ecosystem modelling  
| Variable phytoplankton stoichiometry  
| Marine nitrogen cycle  
Room 5.514 | Phone 4506



**Ivy Frenger**  
Humboldt Tipping  
| Ocean tracer transport and mixing  
| Ocean carbon, ocean heat, and climate  
| Upwelling regions  
Room 5.517 | Phone 1389



**Julia Getzlaff**  
CO<sub>2</sub>Meso  
Physical oceanographer with interest in  
| Mixing processes in numerical models  
| Earth system modelling  
| Large scale circulation  
Room 5.516 | Phone 1418



**Mariana Hill**  
Humboldt Tipping  
| Modelling higher trophic levels such as  
mesopelagic fish and sharks  
| Individual-based models  
| Environmental (bottom-up) and fishing  
(top-down) impacts on the ecosystem  
Room 5.518 | Phone 1544



**David Hohn**  
FOOTPRINTS  
| Improving methods for ESM uncertainty  
evaluation  
| Evaluating and quantifying uncertainties  
of ESMs in zero emissions scenarios  
(ZECMIP)  
Room 5.512 | Phone 1568



**David Keller**  
OceanNETs Coordinator / CDRMIP /  
COMFORT / CDRmare: RETAKE,  
sea4soCieTy, ASMASYS / RESCUE  
| Earth system modelling  
| Assessing carbon dioxide removal (CDR)  
approaches  
Room 5.508 | Phone 1743



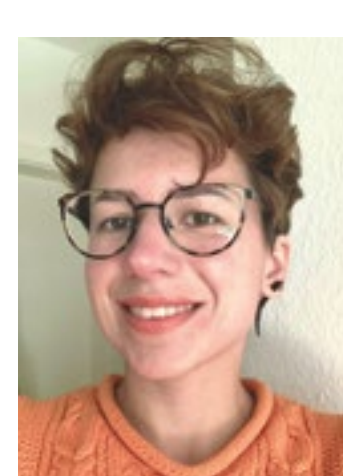
**Tronje Kemena**  
Scientific Programmer / Data Scientist  
| Implementation of new model components  
in FOCI  
| Apply / try machine learning in earth  
science  
| Support for FOCI in the BM  
Room 5.506 | Phone 1744



**Wolfgang Koeve**  
CDRmare: Test-ArtUp  
| Global modelling of: BGC cycles  
(C, N, P, O<sub>2</sub>, CaCO<sub>3</sub>)  
| Marine Canth-uptake and  
climate feedbacks  
| Attribution studies  
Room 5.509 | Phone 4255



**Iris Kriest**  
OceanICU / SCOR: WG161 ReMO  
| Descriptions of particle flux and  
remineralsation  
| Assessment of model skill  
| Optimisation of model parameters  
| Analysis and synthesis of observations  
Room 5.505 | Phone 1772



**Margarita Liadova**  
CDRmare: sea4soCieTy  
| Model-based assessment of blue carbon  
CO<sub>2</sub>-removal approaches  
Room 5.507 | Phone 1802



**Neha Mehendale**  
CDRmare: RETAKE  
Modelling ocean alkalinity enhancement  
with FOCI (Flexible Ocean and Climate  
Infrastructure)  
Room 5.511 | Phone 1854



**Nadine Mengis**  
Emmy Noether research group leader  
FOOTPRINTS / RESCUE /  
CDRmare: ASMASYS  
| Earth system modelling of a net-zero world  
(Zero emissions (warming) commitment  
| Global carbon budget  
| Climate forcing footprints of carbon  
dioxide removal options  
Room 5.513 | Phone 4289



**Markus Pahlow**  
EMS FORE  
| Optimality-based modelling  
| Plankton biodiversity and  
evolution  
| Biogeochemistry of plankton  
and dissolved organic matter  
Room 5.510 | Phone 1907



**Volkmar Sauerland**  
OceanICU  
| Optimization Methods and Model  
Calibration  
| Work with/on FOCI-MOPS  
Room 5.506 | Phone 1977



**Markus Schartau**  
OceanNETs / BASS  
| Assessment & parameter estimation of  
ecological- & biogeochemical models  
| Plankton size spectra analyses  
| Organic matter cycling in coastal & estuarine  
environments  
| Simulation of mesocosm experiments  
Room 5.504 | Phone 1983



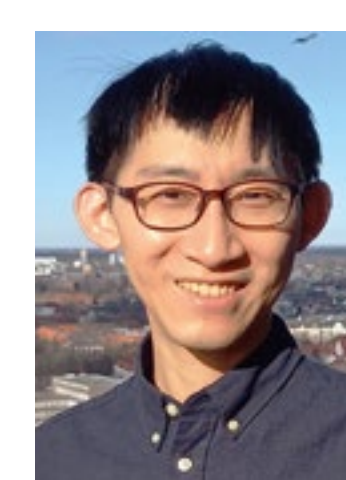
**Christopher Somes**  
COMFORT / ISOSEG  
Nutrient isotope cycling  
| Oxygen minimum zones  
| Paleoceanography  
| Climate-biogeochemistry interactions  
Room 5.515 | Phone 2053



**Steffen Swoboda**  
CDRatlas  
| Process chain development of  
carbon dioxide removal  
approaches  
Room 5.511 | Phone 2090



**Giang Tran**  
COMFORT / RESCUE  
| Climate engineering assessment  
| Probabilistic uncertainty and sensitivity  
analysis  
| Earth system modelling and perturbed  
parameter ensemble  
Room 5.512 | Phone 2144



**Hao-wei Wey**  
CDRterra: CDRSynTra  
| Assessment of Earth system impacts  
across different CDR options  
| Assessment of side-effects, sustainability  
impacts, and political and socio-cultural  
feasibility of the CDR options  
Room 5.514 | Phone 2367



**Tianfei Xue**  
CUSCO / Humboldt Tipping  
| Modelling plankton food web of Humboldt  
Upwelling system  
| Investigating feedback of plankton change  
on marine biogeochemistry  
| Coupling biogeochemical model with  
higher trophic level model  
Room 5.518 | Phone 2386



**Wanxuan (Ben) Yao**  
CDRmare: ASMASYS  
| Evaluation of marine based CDR options for  
Germany  
| Modelling in Iron cycle  
| Spatial ecology models  
| Network planning and optimisation  
| Graphic design  
Room 5.514 | Phone 2389

## Doctoral Candidates



**Haichao Guo**  
Dr. Candidate  
| Ocean deoxygenation in models  
and real ocean  
Room 5.511 | Phone 1467



**Malte Jürchott**  
Dr. Candidate: CDRmare: Test-ArtUp  
| Modelling of artificial upwelling  
| Division between solubility pump and  
biological pump  
Room 5.511 | Phone 1731



**Na Li**  
Dr. Candidate  
| Optimality-based modelling  
| Marine N cycle  
| DOM cycle  
Room 5.514 | Phone 1799



**Estela Monteiro**  
Dr. Candidate: FOOTPRINTS  
| Climate stabilization scenarios (net-zero  
and zero emissions commitment)  
| Role of different forcing agents, e.g. non-  
CO<sub>2</sub> greenhouse gases and land-use  
Room 5.511 | Phone 1872



**Ben Perrett**  
Dr. Candidate  
Room 5.514



**Jaard Hauschildt**  
Affiliated Dr. Candidate  
| Biogeochemical effects of submesoscale  
processes such as filaments and fronts  
| Synthesis of regional biogeochemical  
model simulations and high-resolution  
observations in the Peru upwelling  
system  
Room 5.511 | Phone 1507



**Vanessa Lampe**  
Affiliated Dr. Candidate  
| Plankton size spectra analyses  
| Size-based plankton modelling  
| Organic matter cycling in the Arctic  
Room 5.511 | Phone 1785



**Henrike Schmidt**  
Affiliated Dr. Candidate  
Physical Oceanographer interested in  
defining/quantifying the processes causing  
the OMZ in the northern Indian Ocean  
and how these are represented in coupled  
biogeochemical circulation models.



**Miriam Tivig**  
Affiliated Dr. Candidate  
| Earth system modelling (global models)  
| Modelling of biogeochemical land to  
ocean processes  
| Modelling of coastal biogeochemistry



**Jiajun Wu**  
Affiliated Dr. Candidate  
| Modelling ocean-based CDR via offshore  
macroalgae cultivation and harvesting  
1) in the open oceans and  
2) along the coastal shorelines  
| Coupling macroalgae growth model in  
global BGC model

## Science Support



**Monika Peschke**  
Team Assistant  
Room 5.503  
Phone 4447 and 4467



**Chris Schelten**  
Scientific Manager  
/ CDRmare  
Room 5.523 | Phone 4242



**Ulrike Bernitt**  
Coordination  
Knowledge Transfer  
/ CDRmare  
Room 5.523 | Phone 4140



**Judith Ziegler**  
Scientific and Knowledge  
Transfer Manager  
/ OceanNETs  
Room 5.522 | Phone 1864



**Sandra Ketelhake**  
Knowledge Transfer Manager  
/ CDRmare  
/ CDRmare: ASMASYS  
/ CDRterra: CDRSynTra  
Room 5.522 | Phone 1747



**Tim Boxhammer**  
Scientific Manager  
/ CDRmare: RETAKE  
Room 5.523 | Phone 1275



**Rita Erven**  
Graphic Design  
/ CDRmare  
/ OceanNETs  
Room 5.521 | Phone 1538

## Funding

**BMBF**  
| CDRmare (with Coordination)  
| CDRterra  
| CO<sub>2</sub>Meso (with Coordination)  
| Humboldt Tipping  
| MicroARC

**DFG**  
| BASS  
| FOOTPRINTS  
| ISOSEG  
| Temporary Positions for PIs  
(»Eigene Stelle«)

**EU**  
| COMFORT  
| OceanICU  
| OceanNETs (with Coordination)  
| RESCUE  
| SEAO2-CDR

**HGF**  
| EMS-FORE  
| MarDATA  
  
**PoF IV**  
| Topic 6.3