



# Newsletter for Docs in Marine Sciences

No. 9 // November 2017

Dear all,

Everything is in movement – in September, Tim started working at the ISOS office, new doctoral candidates started their projects and in November you can elect your Doc Representatives during the plenary – or become one of them. Find out more about all this and other activities in this issue and enjoy the newsletter!

Best regards,  
Wiebke (ISOS), the ISOS Reps and the DokTeam



## mailing list “phd-news”:

information of general interest for the Doc community (e.g. job advertisements, summer schools and conferences) are shared.

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## Plenary Meeting

of all Doctoral Candidates in Marine Sciences at Kiel University and GEOMAR

**28<sup>th</sup> November 2017**

**15:00 - 17:00 h**

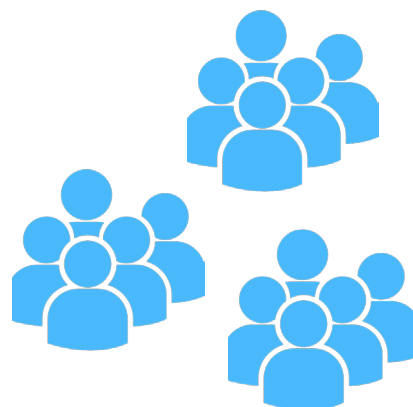
16:45 - Election of Doc Reps (DokTeam and ISOS)

### Venue:

lecture hall, GEOMAR  
(West; Düsternbrooker Weg 20)

**Open discussions** on Funding, Supervision, „Core Skills“, and more

The plenary is for all doctoral candidates. Please attend.



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Upcoming disputations:  
Good luck!



Zhaoyang Song (23.11.17; GEOMAR – Meteorology)

New Alumni: Congratulations!

Alina Fiehn (GEOMAR - Chemical Oceanography)  
Skadi Lange (GEOMAR - Biogeochemistry)  
Robert Kopte (GEOMAR – Physical Oceanography)  
Silke Glogowski (GEOMAR – Geoscience)  
Timo Zander (GEOMAR – Geoscience)  
Ibrahim Sadiek (GEOMAR – Chemistry)  
Martina H. Stiasny (GEOMAR - Marine Ecology)

// Have you met:



**Atul Kumar Yadav**

„The feeling of having my own ocean on my computer, which could resemble our real ocean fascinates me a lot”, says Atul when asked about his doctorate. He works in the group of Dr. Susann Tegtmeier and wants to understand oceans behaviour in the context of physics, chemistry and their impact on biology. Coming from a town in North India far away from the ocean he enjoys living close to it and is keen on learning how to dive and sail.

[akumar@geomar.de](mailto:akumar@geomar.de)



**Danijela Smajgl**

Danijela works not only at the GEOMAR with Prof. Anton Eisenhauer but also at Thermo Fisher Scientific in Bremen. In Kiel, you can find her primarily in the lab where she performs laboratory-controlled experiments on a small warm water coral reef to investigate carbon and oxygen isotope variations in coral reef ecosystems.

Beside research, she enjoys photography, painting and being outdoor.

[dsmajgl@geomar.de](mailto:dsmajgl@geomar.de)



**Miriam Hansen**

Getting to know the Arctic and its ecosystems by sight, sampling and by data is exciting for Miriam in her doctorate. In the group of Prof. Dieter Piepenburg she studies biological community changes in the Laptev Sea.

At the coast she feels being at home and if she is not off to the Arctic she enjoys doing handicrafts, climbing and visiting concerts.

[mhansen@geomar.de](mailto:mhansen@geomar.de)

**Ina Simon**

Ina always dreamed about living close to the sea, so she joined the group of Prof. Kaj Hoernle to work on the initiation and evolution of an intra-oceanic arc system. One of her first tasks in her doctorate was to attend a cruise to collect her samples – a task which she enjoyed a lot. Besides working on her data starting sailing again is on her to-do-list.

[isimon@geomar.de](mailto:isimon@geomar.de)



**Münevver Nehir**

Novel chemical sensors for the observation of ocean acidification and biogeochemical cycles of nutrients – this is Münevver’s doctoral project. She works in the group of Prof. Eric Achterberg and is keen on participating cruises and collaborating with colleagues.

Kiel amazes her, especially the view on the Baltic Sea, the weather and people.

[mnehir@geomar.de](mailto:mnehir@geomar.de)

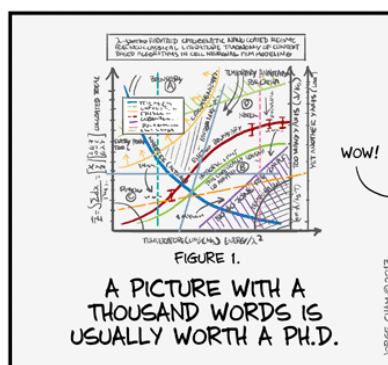
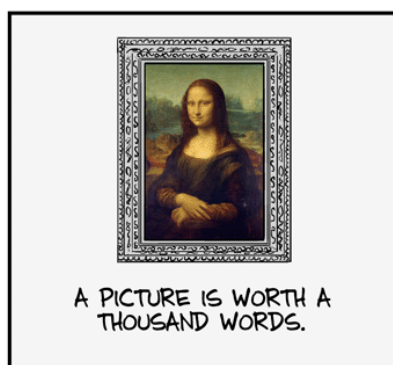


**Insa Stolz**

Doing her fieldwork in Chile on the topic “Influence of aquaculture farms on marine ecosystems” is a major part of Insa’s doctoral project. At the moment, she collects data in Chile and when she comes back to Kiel you can visit her in the group of Prof. Martin Wahl.

Besides research, she is interested in diving, photography and traveling.

**TRUISMS**



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[WWW.PHDCOMICS.COM](http://WWW.PHDCOMICS.COM)

## // Doc Representatives in Marine Sciences

Within Marine Sciences you as a doctoral candidate are represented by two teams of “Doc representatives”: one from ISOS, one from GEOMAR. They closely collaborate and at least one doctorate candidate is active in both teams. The Doc Reps organise social events and represent the doctorate community in different committees. Contact them for more information!

### ISOS representatives

(contact: [phd\\_reps@isos.uni-kiel.de](mailto:phd_reps@isos.uni-kiel.de))



Kerstin  
CAU  
Geoscience



Meike  
GEOMAR  
Magmatic and  
Hydrothermal  
Systems



Katriina  
GEOMAR  
Geoscience



Eva  
GEOMAR  
Microbiology

### GEOMAR DokTeam

(contact: [dokteam@geomar.de](mailto:dokteam@geomar.de))



Jacky  
Paleo-  
oceanography



Meike  
Magmatic and  
Hydrothermal  
Systems



Lisa  
Magmatic and  
Hydrothermal  
Systems



Christian  
Meteorology



Luisa  
Marine Ecology



Kristin  
Physical  
Oceanography

### New election of Doc Representatives

at the Plenary - 28th November 2017, 15-17h  
> Contact the Reps if you are interested in joining them.

## // Doc activities

### YOUMARES at Kiel University

contact: [info@youmares.org](mailto:info@youmares.org)

From 13 to 15 September, the YOUMARES 8 conference was guest at Kiel University and GEOMAR Helmholtz Centre for Ocean Research Kiel. In total about 180 young international marine researchers met and presented over 90 oral and about 25 poster presentations, all together organised in 15 scientific sessions. Thus, this year's YOUMARES was the biggest edition of this series so far. The keynote lecture was given by Prof. Dr. Mojib Latif (GEOMAR Helmholtz Centre for Ocean Research Kiel). *“YOUMARES is the future of scientific networking, a place where young international students are encouraged to share their knowledge freely. It definitely has been a great experience for me, which I'll use as a stepping stone for my career”*, concluded one participant after the event and the participants felt welcome in the professional and familiar atmosphere.



Photo credit: Mara Weidung

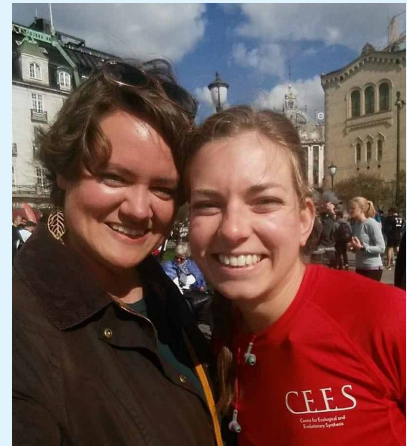
The YOUMARES conference series is an annual conference and network meeting which takes place in different cities of northern Germany every year. It is entirely organized by and for young marine scientists and thus especially open to undergraduates and doctoral candidates. Since 2010, YOUMARES has expanded to a worldwide network and international meeting of young marine researchers. The whole conference organization follows a bottom-up approach based on volunteers and is supported by the German Association for Marine Sciences (DGM).

For her ISOS Miniproposal Martina collaborated with colleagues from Universitet i Oslo and the University of Wageningen – a collaboration that started with meeting her future colleagues at a Summer Academy. Now, Martina is back and reports on her experiences.

## Interacting effects of climate and fishing pressure on the population dynamics of Atlantic cod in the Barents Sea

contact: Martina H. Stiasny, doctoral researcher  
(mstiasny@geomar.de)

I first met Anna-Marie Winter and Andries Richter at the Moscow Summer Academy on Economic Growth and Governance of Natural Resources in 2015. Anna and I quickly realized that our doctoral research topics fit together like two pieces of a (super interesting) puzzle. We both work on climate change impacts on Atlantic cod. I had experimental data that could be included in her population model. When we were both far enough in our own work, I decided to write an ISOS miniproposal in order to spend time at the Centre for Ecological and Evolutionary Synthesis in Oslo. Working with Prof. Stenseth's group at the CEES had long been a dream of mine, not just because of their outstanding reputation, but also because of their unique combination of expertise in quantitative ecology, economics, fisheries science and long experience with the Northeast Arctic cod stock and Norwegian fisheries. I spent two months in Oslo and a week at the University of Wageningen with Anna and Andries, but also with Mia Eikeset and Nils-Christian Stenseth and others and it was a very successful, fruitful and enjoyable collaboration. I had the opportunity to improve my own understanding of population modelling and get to know many great scientists. Our results are important for the management of this economically very important stock and the paper will be submitted soon.



As important as this, my research stay has turned into a long-term collaboration and many ideas for new projects. I was invited back to Oslo for a project meeting and now we are working on a DFG proposal, so I can hopefully join the group full time for my second PostDoc. I am very grateful to everyone involved and to ISOS for making it financially possible.

## Jugend forscht 'PerspektivForum' on Maritime Effects of Climate Change

contact: Tobias Hahn, doctoral researcher  
(thahn@geomar.de)

The "Jugend forscht" foundation annually invites Alumni to a three-day 'PerspektivForum' on current societal topics. Adequately to the Science Year 2016\*17 Seas and Oceans, GEOMAR offered to hold this year's event entitled 'Maritime Effects of Climate Change' from Oct 26-28. Besides interesting expert talks by Prof. Latif and Dr. H. Kohl (Head of the WG 'Principle Affairs of (the) Climate Protection (Plan) in the Federal Environment Ministry), two postdocs and I organized a workshop for the Alumni. The 28 participants study various disciplines from Bachelor to Doctoral level. We divided them into three groups which represented communities of interest (Western Developed Countries, Central-African Coastal States & Southeast-Asia). Each group had to capture the anthropogenic causes on ocean change, identify maritime consequences on their community, propose measures towards climate change and present and argue for the results in the final discussion.

It was truly interesting, insightful and exhausting. Despite their wish to dig even deeper into the science, they became aware how diverse and complex the ocean and effects of climate change are. The mere scientific level soon mixed with social, political and economic aspects on a global scale, and the discussion eventually got quite emotional.

And that was our core objective: We got ambitious young scientists sensitized about the ocean, and some even left with ocean enthusiasm and sustainable interest.

Joshua's doctoral projects deals with managed realignment and saltmarsh restoration and he just finished his miniproposal. He spend some time in the UK and gives you an insight into his research and fieldwork.

## Unravelling surge attenuation and internal water level variabilities of the managed realignment site of Freiston Shore, Lincolnshire, UK

contact: Joshua Kiesel, doctoral researcher  
 (kiesel@geographie.uni-kiel.de)

So far, coastal protection schemes have been based on hardened and engineered solutions such as sea-walls and dikes. In the near future, this may become very unsustainable in many rural areas as these structures have to be heightened and widened on a continuous basis. Managed realignment (MR), the breaching or removal of sea defences, has been proposed as a nature based alternative providing, amongst others, coastal protection by means of restoring formerly reclaimed saltmarshes. Monitoring and evaluation of MR is often confined to the first few years and focusses on structural site characteristics while ecosystem processes such as surge attenuation and related hydrodynamics are neglected. This constitutes a serious knowledge gap, hampering the further implementation of MR.

To address this gap in knowledge I applied for a miniproposal and worked in close collaboration with colleagues from the Cambridge Coastal Research Unit (CCRU), University of Cambridge. Together with the CCRU, I planned and prepared 11 days of field work at a realignment site in the Wash embayment. In the

restored saltmarsh of Freiston Shore, we deployed a series of 21 pressure transducers along 4 transects for measuring waves and water levels. Two transects were located within and two outside the MR. This enabled us to compare water levels in front of the site with water levels within, which will reveal whether any surge attenuation effect is present or not. Furthermore, we captured the morphology of the site with a Leica (RTK) GPS and recorded vegetation characteristics, such as species, height, coverage and density along each of the 4 transects.

The results of this field study will be used to set up a hydrodynamic model for Freiston Shore, enabling a sensitivity analysis on site characteristics (vegetation, topography, tidal creek network) and the possibility to run the model for the most extreme events. The vision is to use these results for the deduction of optimal site characteristics for MR schemes to actually provide coastal protection.

The miniproposal enabled me to independently plan and conduct my own research project abroad, kick start a collaboration with world leading experts in my field of research and to broaden my scientific network.

Go take the chance!



### DESK ENTROPY

**Definition**  
 Desk entropy is a spatiodynamic quantity that measures a workspace's degree of disorder, and the inability to find anything when you really need it.  
 Any spontaneous activity, whether productive or unproductive, disperses matter and increases overall desk entropy.  
 Efforts to reverse desk entropy are temporary, and inevitably decrease over time.

Units: Junk-height/Area

Time

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// ISOS

New face in the ISOS office



*"Nothing in science has a value to society if it is not communicated!" – Anne Roe.*

My goal at ISOS is to facilitate the "Integrated" part of ISOS: linking doctoral candidates, supervisors and alumni as well as providing courses on-demand that bring you in contact with new methodologies and important stakeholders. Having a background in Fisheries Biology I know that there is a world outside of academia that scientists influence with their research. I want to provide the means of communication and education for this often neglected interdependence.

Please contact me if you have new ideas about courses or events that might be interesting to be organized by ISOS.

[tdudeck@uv.uni-kiel.de](mailto:tdudeck@uv.uni-kiel.de)

Upcoming ISOS Events

15 - 17 November 2017

Physical Oceanography Intro

Dr. Sunke Schmidtke, GEOMAR

20, 21, 24 November 2017

Student or Player? Different Roles in Professional Life

Katharine Simmons and Avan Antia

27-28 November 2017

Data Visualisation

Dr. Rick Scavetta, Science Craft



more courses and online registration at [www.futureocean.org/isos](http://www.futureocean.org/isos)

**SURVEYS!**

WHEN YOU TELL NON-ACADEMICS ABOUT YOUR RESEARCH, THE MOST COMMON RESPONSE IS:

|                              |     |
|------------------------------|-----|
| A) "WHY???"                  | 12% |
| B) "HUH."                    | 22% |
| C) --BLANK STARE--           | 30% |
| D) "WOW, YOU MUST BE SMART." | 36% |

MULTIPLE CHOICE TWITTER POLL  
7540 RESPONDENTS

WHEN YOU TELL ANOTHER ACADEMIC ABOUT YOUR RESEARCH, THE MOST COMMON RESPONSE IS:

|                              |     |
|------------------------------|-----|
| A) "CAN WE SWITCH PROJECTS?" | 6%  |
| B) AWKWARD SILENCE           | 23% |
| C) "WELL, MY RESEARCH IS..." | 32% |
| D) "GOOD LUCK WITH THAT."    | 39% |

MULTIPLE CHOICE TWITTER POLL  
4760 RESPONDENTS

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