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Integrated School of Ocean Sciences: Doctoral Education in Marine Sciences in Kiel

Nina Bergmann (1), Wiebke Basse (1), Enno Prigge (1), Christiane Schelten (2), and Avan Antia (1) (1) Integrated School of Ocean Sciences, Cluster of Excellence "The Future Ocean", Kiel University, Kiel, Germany, (2) Collaborative Research Centre 754 "Climate-biogeochemical interactions in the tropical ocean" (SFB 754), GEOMAR Helmholtz Centre for Ocean Research Kiel, Kiel, Germany

Marine research is a dynamic thematic focus in Kiel, Germany, uniting natural scientists, economists, lawyers, philosophers, artists and computing and medical scientists in frontier research on the scientific, economic and legal aspects of the seas. The contributing institutions are Kiel University, GEOMAR Helmholtz Centre for Ocean Research Kiel, Kiel Institute for the World Economy and Muthesius University in Kiel.

Marine science education in Kiel trains young scientists to investigate the role of the oceans in global change, risks arising from ocean usage and sustainable management of living and non-living marine resources. Basic fundamental research is supplemented with applied science in an international framework including partners from industry and public life.

The Integrated School of Ocean Sciences (ISOS) established through the Cluster of Excellence "The Future Ocean", funded within the German Excellence Initiative, provides PhD candidates in marine sciences with interdisciplinary education outside of curricular courses. It supports the doctoral candidates through supplementary training, a framework of supervision, mentoring and mobility, the advisors through transparency and support of doctoral training in their research proposals and the contributing institutions by ensuring quality, innovation and excellence in marine doctoral education. All PhD candidates financed by the Helmholtz Research School for Ocean System Science and Technology (HOSST) and the Collaborative Research Centre 754 "Climate-biogeochemical interactions in the tropical ocean" (SFB 754) are enrolled at the ISOS and are integrated into the larger peer community.

Over 150 PhD candidate members from 6 faculties form a large interdisciplinary network. At the ISOS, they sharpen their scientific profile, are challenged to think beyond their discipline and equip themselves for life after a PhD through early exposure to topics beyond research (e.g. social responsibility, public communication, global sustainability etc.). The primary advisor and at least one co-advisor form an advisory committee, committing to support the candidate in two mandatory meetings per year. Contrasting to other PhD programmes, ISOS emphasises on an open policy with voluntary participation for all other aspects of the programme, creating a unique environment that lives upon personal involvement and maximises tangible benefits for individual PhD candidates.