CURRICULUM VITAE – IRENE MAIER

PERSONAL DETAILS

Name:	Irene Maier
Address:	Jonsvannsveien 99A, 7050 Trondheim, Norway
Date of Birth:	29.06.1982
Place of Birth:	Dillingen/Do., Germany
Nationality:	German
Marital Status:	Married
Languages:	German (native), English (fluent), Spanish (good)

CURRENT POSITION

Nov 2010 – present **PhD student in Quaternary Geology and Climate**
Geological Survey of Norway (NGU), Trondheim, and University of Tromsø, Norway.
CASE Marie Curie Initial Training Network PhD project on historic surface water productivity changes in the Barents Sea during the last 200 – 10000 years using a multi-proxy geochemical and sedimentological approach coupled with modeling. Supervisors J. Knies, J. Carroll.

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EDUCATION

Sept 2005 – April 2008 **Master of Science in Physical Oceanography**
Dalhousie University, Halifax, NS, Canada.
Thesis title: "Linear Transition Ripples in Nearshore Sands."
Supervised by Dr. Alex E. Hay.

Aug 2002 – June 2005 **Bachelor of Science in Geosciences and Astrophysics**
Jacobs University Bremen, Germany.
Thesis title: "Downslope Transport Behavior of Organic-Rich Aggregates in Submarine Canyons." Supervised by Dr. Laurenz Thomsen.

WORK EXPERIENCE

May 2008 – Aug 2009 **Research Assistant, Department of Oceanography.**
Dalhousie University, Halifax, NS, Canada.
Developed a new automatic analysis method for rotary sonar imagery. Participated in development, testing of seafloor monitoring equipment. Trained co-op students in the use of technical equipment and data analysis software. Organized seminars, introduced speakers and maintained the audio-visual equipment.

Jan – June 2009 **Habitat Sedimentology Technician, Habitat Ecology Section, DFO.**
Bedford Institute of Oceanography, Dartmouth, NS, Canada.
Studied environmental impacts, flow of contaminants at aquaculture sites. Analyzed size distribution and size-settling data from various projects (LISST, size-settling, tidal and wave data) at aquaculture sites and tidal flats of eastern Canada and western US coasts.

RESEARCH PROJECT INVOLVMENT

2007 – 2009 **Martha's Vinyard Coastal Observatory at Woods Hole, MA, USA.**
Project of Dept of Oceanography, Dalhousie University, Halifax, Canada.
Participated in the development, testing and deployment of wave measurement and seafloor monitoring equipment (pencil beam and fan beam sonar, ADV, ADCP) in 2007. Participated in the data analysis of sonar and wave data (2008 – 2009). Supervisor Dr. A. E. Hay.

2005 – 2008 **M.Sc. project**: **Sand ripples and sediment transport in the near-shore.**
Department of Oceanography, Dalhousie University, Halifax, Canada.
Comparison of linear transition ripple orientation and ripple migration velocities obtained from sonar images to forcing statistics in combined wave-current flow; modeling of cross shore sediment transport using MATLAB.

June – July 2006 **JetEx 2006, Lunenburg Bay, NS, Canada.**
Department of Oceanography, Dalhousie University, Halifax, Canada.
Participated in drifter deployment, and CTD and wave velocity measurements. Supervisor Dr. J. Mullarney.

Sept 2004 – May 2005 **B.Sc. project: Behavior of organic-rich aggregates on sloped surfaces.**
Earth and Space Sciences, Jacobs University Bremen, Germany.
Aspects of organic-rich aggregate formation, sediment transport, critical shear stress measurements with a Gust microcosm and slope analysis of Portuguese canyons using ArcGIS. Supervisor Dr. L. Thomsen.

July – Aug 2004 **Department of Geology and Geophysics.**
University of Tromsø, Norway.
Internship. Studied the geology of Svalbard, tested the SVALSIM geological simulation package, and evaluated CTD data of Norwegian fjords and Svalbard stations. Supervisors Dr. M. Vanneste, Dr. S. Guidard.

July 2004 **R/V Jan Mayen.**
University of Tromsø, Norway.
Internship. Participated in a geophysical research cruise (multibeam echosounder surveys, 3D seismic surveys, and gravity cores) to the Svalbard Margin. Supervisor Dr. J. Mienert.

Jan 2004 **Department of Marine Chemistry and Geology.**
Royal Netherlands Institute for Sea Research, Texel, The Netherlands.
Internship. Analyzed sediment cores using XRF-corescanner, magnetic susceptibility, microscopy, grain size, and 210Pb techniques. Supervisors Dr. F. Mienis, Dr. H. de Haas.

July – Aug 2003 **R/V Pelagia.**
Royal Netherlands Institute for Sea Research, Texel, The Netherlands.
Internship. Participated in a biogeochemical and geophysical research cruise (box and piston cores, CTD, bottom boundary lander, 2D seismic surveys, magnetic susceptibility, water samples and filtration) to the Faroe-Shetland Channel and Rockall Trough. Supervisor Dr. H. de Haas.