



International Research Training Group
“Processes and impacts of climate change in the
North Atlantic Ocean and the Canadian Arctic”

IV. Annual Meeting and Training Workshop

12-22.9.2017

MARUM, University of Bremen



Training Workshop

Please note: The registration desk will be open from 07:30 – 8:45 at MARUM Gallery
Please register to obtain name badge and lunch special rates vouchers.

Tuesday, September 12th, 2017, Workshop day 1:

Time	Room	Topic	Room	Topic
08:00 – 09:00	Gallery	Registration		
09:00 – 17:00	2070	Introduction to ODV Prof. R. Schlitzer	2060	Climate and paleoclimate data Coordinated by Dr. Dagmar Kieke

Coffee breaks at 10:15 and 15:00 @ MARUM gallery
Lunch break at 12:00 @ Mensa

Wednesday, September 13th, 2017, Workshop day 2:

Time	Room	Topic	Room	Topic
09:00 – 17:00	GEO 1490	Maps for publication Dr. André Paul	2060	Climate and paleoclimate data Coordinated by Dr. Dagmar Kieke

Coffee breaks at 10:15 and 15:00 @ MARUM gallery
Lunch break at 12:00 @ Mensa

Thursday, September 14th, 2017, Workshop day 3:

Time	Room	Topic	Room	Topic
09:00 – 17:00	2070	Time Series Analysis Part 1 Dr. Manfred Mudelsee	2060	Multivariate Data Analysis Part 1 Prof. Michal Kucera

Coffee breaks at 10:15 and 15:00 @ MARUM gallery
Lunch break at 12:00 @ Mensa

Friday, September 15th, 2017, Workshop day 4:

Time	Room	Topic	Room	Topic
09:00 – 17:00	2070	Time Series Analysis Part 2 Dr. Manfred Mudelsee	2060	Multivariate Data Analysis Part 2 Prof. Michal Kucera

Coffee breaks at 10:15 and 15:00 @ MARUM gallery
Lunch break at 12:00 @ Mensa

Saturday, September 16th, 2017

Field Trip – Excursion to the Wadden Sea National Park, Sahlenburg & Dorum, including tide walk.
Transport by bus leaving from **MARUM**, meeting at main entrance, Leobenerstr. 8, 28359 Bremen
Packed lunch & 1 small bottle of water are provided. Please wear weatherproof clothing.
Departure: 9 am Return to MARUM: 5 pm

Sunday, September 17th, 2017

Day off – Enjoy Bremen!

**Discovering and handling climate and paleoclimate data
(Coordinator: Dr. Dagmar Kieke)**

One day course offered on 12.9 and repeated on 13.9.2017 with the same program.

The purpose of this course is to explore where relevant climate, ocean, ice and paleoclimate data, including observational data and the results of numerical simulations, can be found, how can relevant data be identified, and in what format they are stored. The participants will also learn how to handle certain well-known data formats like netCDF and when and how to make own data available publicly. The course will include a session on the world data center PANGAEA (www.pangaea.de).

Time table “**Discovering and handling climate and paleoclimate data**” on 12.09.2017 + on 13.09.2017, course takes place at the MARUM, room 2060 or 2070 as necessary.

Time	Course Title	Lecturer	Content
08:45 – 09:00	Time for course announcements		
09:00 – 10:15	Research Data Management I	Markus Stocker , MARUM (PANGAEA group)	research data and data management planning; write a DMP with DMPonline
10:15 – 10:30	coffee break		
10:30 – 11:30	Research Data Management II	Markus Stocker , MARUM (PANGAEA group)	working with research data; versioning data with <i>GitHub</i>
11:30 – 11:45	small break		
12:45 – 13:00	Research Data Management III	Markus Stocker , MARUM (PANGAEA group)	sharing and archiving research data; <i>figshare</i> and PANGAEA
13:00 – 14:00	lunch break	speaker switch	
14:00 – 15:15	NetCDF Data Format	Kaveh Purkiani , MARUM (geosystem modelling group)	understanding, reading and writing netCDF data files
15:15 – 15:30	coffee break	speaker switch	
15:30 – 16:00	Collecting, Archiving and Finding Data in <i>IODP</i>	Vera Bender , MARUM (core repository group)	overview on data management in IODP
16:00 – 16:10	Coffee break	speaker switch	
16:10 – 17:00	Where to Find Ocean Data	Dagmar Kieke , IUP/MARUM (physical oceanography group)	overview on where to find all kinds of data sets relevant to ArcTrain PhDs

Exploring and visualizing ocean data with Ocean Data View

(Prof. Rainer Schlitzer, AWI)

One day, 12.9.2017

Ocean Data View (<https://odv.awi.de/>) is a free software package for the interactive exploration, analysis and visualization of oceanographic profile, time-series, trajectories, or sequence data. The participants will obtain hands-on training in the functionality of the program, learning how to display own data on the background of a multidimensional oceanographic parameters. The participants are asked to install the software prior to the course (extra computers will be available) and bring their own data.

Maps for publications

(Dr. André Paul)

One day, 13.9.2017

The course will provide guidance and hands-on training on how to construct maps, project own data onto maps, generate surface from coordinates and finalize the products to be visually effective and appealing. The participants will be informed about software to install prior to the course (extra computers will be available).

Multivariate data analysis

(Coordinator: Prof. Michal Kucera)

Two days, 14-15.9.2017

Handling and analysis of multivariate data is relevant in a range of geoscientific context. This two-day course will provide an overview on methods used for statistical analysis, visualization and manipulation of multivariate datasets. Topics covered include discrimination, regression and ordination, as well as the basics of ecological modelling (transfer functions).

Time series analysis

(Dr. Manfred Mudelsee)

Two days, 14-15.9.2017

The course consists of lectures and computer tutorials and includes introduction to time series, persistence models and statistical properties, regression and correlation and spectral analysis. The participants will obtain guidance on software installation for the computer tutorials and course material for all techniques taught. The tutor (www.mudelsee.com) also offers post-course support on software and statistical advice for the participants.

ArcTrain IV. Annual Meeting

Monday, September 18th, 2017

Location: MARUM I, 2nd floor, all talks in room 2070

Location: MARUM I, 2nd floor, MARUM Gallery near room 2070 – Registration, coffee & lunch breaks

Location: Haus am Walde, Kuhgrabenweg 2, 28359 Bremen WWW.HAUSAMWALDE-BREMEN.DE

Time	Topic	Presenter
08:00	Registration @ MARUM Gallery	
09:00 – 09:15	Welcome & overview of program, events to come	M. Kucera
09:15 – 09:30	Regional and seasonal predictability of sea ice in the Arctic	Charles Brunette (McGill University)
09:30 – 09:45	Evolution of sedimentary dynamic and sea surface conditions in northern Baffin Bay during the Holocene	Myriam Caron (University of Québec Rimouski)
09:45 – 10:00	The habitat of <i>N. pachyderma</i>	Mattia Greco (University Bremen)
10:00 – 10:30	Coffee break @ MARUM gallery	
10:30 – 10:45	Assessing biological productivity and its response to changing sea-ice cover duration during the Holocene in Melville Bay	Sabrina Hohmann (University Bremen)
10:45 – 11:00	Sedimentological variations in Baffin Bay since the last glaciation: the case of the Home Bay trough mouth fan	Yan Lévesque (University of Québec Rimouski)
11:00 – 11:15	Biogenic carbonate production and preservation in the northwestern Labrador Sea and central Baffin Bay during the Holocene and the Last Glacial Maximum (LGM)	Nicole Marshall (Université du Québec à Montréal)
11:15 – 11:30	Impact of accounting for calving on glacier thickness estimations of lake- and marine- terminating glaciers	Beatriz Recinos Rivas (University Bremen)
11:30 – 11:45	Modelling freshwater dynamics in the Hudson Bay Complex using the ANHA configuration	Natasha Ridenour (University of Alberta Edmonton)
11:45 – 12:00	Deglacial-Holocene variability in sea ice formation, meltwater discharge, primary production and abrupt climate change in Baffin Bay	Jeetendra Saini (Alfred-Wegener-Institute Bremerhaven)
12:00 – 13:00	Lunch @ MARUM gallery	
13:00 – 14:00	ArcTrain assembly, speaker reports	M. Kucera
14:00 – 15:00	Guest lecture: Warmer & fresher - the Arctic Ocean below the shrinking ice	Ursula Schauer (AWI Bremerhaven)
15:00 – 15:30	Coffee break @ MARUM gallery	
15:30 – 17:30	Thesis Committee Meetings - see TCM table for room	
18:30	Meet @ Haus am Walde for welcome dinner	
19:00	Welcome Dinner	

ArcTrain IV. Annual Meeting

Tuesday, September 19th, 2017

Location: MARUM I, 2nd floor, all talks in room 2070

Location: MARUM I, 2nd floor, MARUM Gallery near room 2070 – Registration, coffee & lunch breaks

Locations: Thesis Committee Meetings – see TCM table

Time	Topic – Student Talks	Presenter
09:00 – 09:15	Spatial distribution of diapycnal mixing in the North Atlantic from shipboard ADCPs	Natalia Sukhikh (University Bremen)
09:15 – 09:30	Variability of the circulation in the North Atlantic	Hannah Nowitzki (University Bremen)
09:30 – 09:45	Radiogenic Isotopes in Arctic Marine Sediments - First Insights from Southern Melville Bay, Greenland	Lina Madaj (University Bremen)
09:45 – 10:00	Paleoecology of 4 lagoons from the Ivvavik National Park (northern Yukon Territories, Canada) using sclerochronology	Jade Falardeau (UQAM)
10:00 – 10:30	Coffee break @ MARUM gallery	
10:30 – 10:45	Merged Sea Ice Concentration at 1 km resolution from different satellite products	Valentin Ludwig (University Bremen)
10:45 – 11:00	Modeling land-fast ice bridges using the Elasto-Brittle rheology	Mathieu Plante (McGill University)
11:00 – 11:15	Meltwater Retention Processes in the Firn Layer of the Greenland Percolation zone	Samira Samimi (University Calgary)
11:15 – 11:30	Modeling sea ice with a floe resolving resolution	Damien Ringeisen (AWI Bremerhaven)
11:30 – 11:45	The influence of natural climate variability on Canadian Arctic glaciers during the last millennium	Anouk Vlug (University Bremen)
11:45 – 12:00	Chronostratigraphy and evolution of environmental conditions in the Hudson Strait and Labrador fjords since the deglaciation	Quentin Duboc (UQAR)
12:15 – 13:00	Lunch @ MARUM Gallery	
13:00 – 14:00	Advisory Board Meeting with ArcTrain Board	
14:00 – 14:30	Advisory Board Meeting with PhD Students	
14:30 – 15:00	Advisory Board Meeting internal Meeting & feedback	
15:00 – 15:30	Coffee break @ MARUM Gallery	
15:30 – 17:30	Thesis Committee Meetings see TCM table for room	
17:30 – 18:30	Guest lecture: Stability of the AMOC - a view from the paleoside	Hans Petter Sejrup (Bergen University)
18:30	Drinks & Nibbles @ MARUM gallery	

ArcTrain IV. Annual Meeting

Wednesday, September 20th, 2017

Location: MARUM I, 2nd floor, all talks in room 2070

Location: MARUM I, 2nd floor, MARUM Gallery near room 2070 – Registration, coffee & lunch breaks

Locations: Thesis Committee meetings – see TCM table

Time	Topic	Presenter
09:00 – 09:15	Fate and impact of deglacial meltwater runoff in the northwestern Atlantic Ocean	Rémy Jenny (University Bremen)
09:15 – 09:30	Lead distribution in the European Arctic derived from Sentinel-1 SAR images	Dmitrii Murashkin (University Bremen)
09:30 – 09:45	Mathematical Modelling of Iceberg Calving	Maryam Zarrinderakht (UBC)
09:45 – 10:00	Sedimentological, physical and magnetic properties of sediments from the Canadian Arctic: sedimentary processes since the last 2, 000 years	Sarah Letaief (UQAR)
10:00 – 10:30	Coffee break @ MARUM gallery	
10:30 – 10:45	Detection and variability of frontal structures in the North-West Atlantic from satellite observations	Aleksei Buinyi (University Bremen)
10:45 – 11:00	Modeling the Response of Arctic Sea Level and Hydrography to Hydrological Regime Change over Boreal Catchments	Elena Gerwing (AWI Bremerhaven)
11:00 – 11:15	Freshwater storage and flux variability of the Arctic Ocean and subarctic North Atlantic	Myriell Horn (AWI Bremerhaven)
11:15 – 11:30	Developing age-models for northern Baffin Bay sediment cores and understanding their depositional history"	Jens Weiser (University Bremen)
11:30 – 11:45	Multi-proxi study in Arctic Late Holocene sediment cores over the Mackenzie slope (Beaufort Sea, Canadian Arctic)	Omnain Kutos (UQAR)
11:45 – 12:00	Changes in Arctic sea ice dynamics observed by satellites since 1996 and implications for the climate system.	Alexandra Kazlova (University Bremen)
12:00 – 12:15	Modelling sea-ice deformations in the Arctic	Amélie Bouchat (McGill University)
12:15 – 13:00	Lunch @ MARUM Gallery	
13:00 – 14:00	Thesis committee meetings – see TCM table for room	
14:00 – 15:00	Guest lecture: Remote sensing of Arctic sea ice thickness	Christian Haas (AWI Bremerhaven)
15:00 – 15:30	Coffee break @ MARUM gallery	
15:30 – 17:30	Thesis committee meetings – see TCM table for room	
17:30 – 18:30	ArcTrain assembly, discussion of future steps	
18:30	ArcTrain Dinner @ MARUM gallery	

ArcTrain IV. Annual Meeting & DFG Evaluation

Thursday, September 21st, 2017

Location: MARUM I, 2nd floor, room 2070

Location: MARUM I, 2nd floor, MARUM Gallery near room 2070, coffee & lunch breaks

Locations: Thesis Committee meetings – see TCM table

Time	Room	Topic
09:00 – 12:00	various	Thesis committee meetings – see TCM table for room
11:00 – 11:30		Coffee @ MARUM gallery
12:00 – 13:00		Lunch at own discretion
		DFG on-site Evaluation
14:15	2070	Welcome by the University of Bremen Prof. Dr. Andreas Breiter, Vice-President for Research
14:20 – 14:35	2070	Welcome and Introduction to ArcTrain Prof. Dr. Michal Kucera, ArcTrain Speaker
14:35 – 15:35	2070	lectures by PhD students Vasco Müller: Temperature and freshwater fluxes in the Labrador Sea carried by eddies Rebecca Jackson: Interaction between ice sheets and ocean in Baffin Bay during the last deglaciation Anouk Vlug: Modelling Arctic glaciers response to climate change during the Holocene
15:35 – 17:35		Poster session & Coffee break MARUM entrance hall
17:45 – 18:30	2070	Evaluation panel meets with PhD students
18:30	2070	Principal Investigators & PhD students debriefing

Friday, September 22nd, 2017

Location: MARUM I, 2nd floor, room 2070

Location: MARUM I, 2nd floor, MARUM Gallery near room 2070, coffee & lunch breaks

Time	Room	Topic
10:00 – 11:00	2070	Evaluation panel meets with ArcTrain plenum and university administration
11:00 – 11:30		Coffee break @ MARUM gallery

Schedule of Thesis Committee Meetings – Sept. 18th – 21st 2017

Schedule of all Theses committee meetings 15:30 – 17:30 on **Sept. 18th 2017**

Time	Room 2060	Room 0190	Room 3030
15:30 – 16:30	Jade Falardeau Université du Québec à Montréal A. de Vernal M. Fritz	Myriam Caron Université du Québec à Rimouski D. Hebbeln M.Kucera	Samira Samimi University Calgary S. Marshall B. Tremblay B. Marzeion
16:30 – 17:30	Nicole Marshall Université du Québec à Montréal A. de Vernal M. Kucera	Quentin Duboc Université du Québec à Rimouski D. Hebbeln T. F. v. Dobeneck	Damien Ringeisen AWI Bremerhaven T. Jung B. Tremblay M. Losch G. Spreen

Schedule of all Theses committee meetings 15:30 – 17:30 on **Sept. 19th 2017**

Time	Room 2060	Room 0190	Room 3030
15:30 – 16:30	Jeetendra Saini AWI Bremerhaven R. Stein AdVernal – departs 16h K. Fahl	Mattia Greco University Bremen M. Kucera M. Schulz J. Bijma C. Hillaire-Marcel	Mathieu Plante McGill University B. Tremblay M. Losch G. Spreen
16:30 – 17:30	Sabrina Hohmann University Bremen M. Kucera AdVernal – departs 16h D. Hebbeln. R. Stein	Anouk Vlug University Bremen M. Schulz M. Prange B. Marzeion S. Marshall	

Schedule of all Theses committee meetings 13:00 – 14:00 and 15:30 – 17:30 on **Sept. 20th 2017**

Time	Room 2060	Room 0190	Room 3030
13:00 – 14:00	Dmitrii Murashkin University Bremen G. Spreen B. Tremblay M. Losch	Hannah Nowitzki University Bremen M. Rhein D. Kieke P. Myers A. Roessler	Lina Madaj University Bremen S. Kasemann R. Stein C. Hillaire-Marcel F. Lucassen
15:30 – 16:30	Charles Brunette McGill University B. Tremblay G Spreen	Aleksei Buinyi University Bremen D. Kieke M. Rhein P. Myers R. Steinfeldt	Rémy lenny University Bremen A. Paul S. Marshall M. Losch M. Schulz S. Mulitza
16:30 – 17:30	Amélie Bouchat McGill University B. Tremblay M. Losch G. Spreen	Jens Weiser University of Bremen D. Hebbeln R. Stein K.-H. Baumann	Natasha Ridenour University Alberta D. Kieke M. Rhein A. Paul P. Myers

Schedule of all Theses committee meetings 09:00 – 12:00 on **Sept. 21st 2017**

Time	Room 0190	Room 3030	Geo Building 1490
09:00 – 10:00	Elena M. Gerwing AWI Bremerhaven M. Losch T. Jung B. Raabe J. Schaffer B. Tremblay	Beatriz Recinos Rivas University Bremen Ben Marzeion S. Marshall F. Maussion	
10:00 – 11:00	Alexandra Kazlova University of Bremen G. Spreen B. Tremblay M. Losch	Natalia Sukhikh University Bremen M. Walter P. Myers C. Mertens T. Fischer	
11:00 – 12:00	Maryam Zarrinderakht University of British Columbia Vancouver C. Schoof B. Tremblay M. Losch		

ArcTrain IV. Annual Meeting - Participants

Surname	First name	Status	email	Institution
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ArcTrain Annual Meeting - PhD Training Sept. 12 – 15th, 2017

Introduction to ODV Prof.R. Schlitzer	Climate and paleoclimate data Dr. D. Kieke, Dr. V. Bender, Dr. K. Purkiani, Dr. M. Stocker	Maps for publication Dr. A. Paul	Climate and paleoclimate data Dr. D. Kieke, Dr. V. Bender, Dr. K. Purkiani, Dr. M. Stocker	Time Series Analysis Part 1 Dr. M. Mudelsee	Multivariate Data Analysis Part 1 Prof. Dr. M. Kucera	Time Series Analysis Part 2 Dr. M. Mudelsee	Multivariate Data Analysis Part 2 Prof. Dr. M. Kucera
Tuesday 12.09.2017	Tuesday 12.9.2017	Wednesday 13.09.2017	Wednesday 13.09.2017	Thursday 14.09.2017	Thursday 14.09.2017	Friday 15.09.2017	Friday 15.09.2017
Charles Brunette Dmitrii Murashkin Elena Gerwing Jens Weiser Lina Madaj Maryam Zarrinderakht Mattia Greco Myriam Caron Nicole Marshall Omnain Kutos	Aleksei Buinyi Anouk Vlug Beatriz Recinos Rivas Damien Ringeisen Hannah Nowitzki Myriel Horn Natalia Sukhikh Natasha Ridenour Rémi lenny Sabrina Hohmann Samira Samimi Valentin Ludwig Quentin Duboc Sarah Letaïef	Aleksei Buinyi Alexandra Kazlova Anouk Vlug Beatriz Recinos Rivas Charles Brunette Damien Ringeisen Elena Gerwing Hannah Nowitzki Jens Weiser Natalia Sukhikh Natasha Ridenour Nicole Marshall Omnain Kutos Rémi lenny Sabrina Hohmann Samira Samimi Valentin Ludwig Quentin Duboc Sarah Letaïef	Dmitrii Murashkin Lina Madaj Maryam Zarrinderakht Mattia Greco	Alexandra Kazlova Anouk Vlug Beatriz Recinos Rivas Charles Brunette Damien Ringeisen Dmitrii Murashkin Elena Gerwing Hannah Nowitzki Jens Weiser Lina Madaj M. Zarrinderakht Myriam Caron Samira Samimi Valentin Ludwig Quentin Duboc Dagmar Kieke Kaveh Purkiani	Mattia Greco Natalia Sukhikh Natasha Ridenour Nicole Marshall Omnain Kutos Rémi lenny Sabrina Hohmann Aleksei Buinyi	Alexandra Kazlova Anouk Vlug Beatriz Recinos Rivas Charles Brunette Damien Ringeisen Dmitrii Murashkin Elena Gerwing Hannah Nowitzki Jens Weiser Lina Madaj M. Zarrinderakht Myriam Caron Samira Samimi Valentin Ludwig Quentin Duboc Dagmar Kieke Kaveh Purkiani	Mattia Greco Natalia Sukhikh Natasha Ridenour Nicole Marshall Omnain Kutos Rémi lenny Sabrina Hohmann Aleksei Buinyi