



Timeplan and outline for WP5 workshop

**Theme:** Post glacial, long time environmental changes at the KGI area from terrestrial and marine records.

**Location and Host:** Alfred-Wegener-Institut Helmholtz-Zentrum für Polar- und Meeresforschung, Am Alten Hafen 26, 27568 Bremerhaven, Germany  
**Room:** D 2930

**30 June - 03 July** WP5 Geosciences Workshop, Bremerhaven


- 30 June** Introduction to IMCONet and WP5
- 01 July** The marine and terrestrial environment
- 02 July** The marine and terrestrial environment
- 03 July** Field trip to Neuwerk


**Workshop outline (proposed and open to comments)**

**Room, AWI, D 2930, floor 2a**

**Monday 30 June, Beginning: 13:00**

• **Introduction IMCONet and WP5**




13:00 – 13:10	Welcome: Gerhard Kuhn
13:10 – 13:30	Nancy Lange: IMCONet administrative information
13:30 – 13:50	Doris Abele: Overview Interdisciplinary IMCONet
in <b>Lecture Room D</b>	
14:00 – 15:00	Axel Timmermann: Dansgaard-Oeschger Events
back in <b>Room 2930</b>	
15:15 – 15:30	Coffee Break 
15:30 – 16:00	Gerhard Kuhn: Antarctica's transition from LGM to recent, near and far field environmental changes and future projections
16:00 – 16:30	Claus-Dieter Hillenbrand: Reconstruction of Late Quaternary ice sheet dynamics in Antarctica from marine geophysical and geological

	records: A review
16:30 – 16:40	Marc Wengler: Terrigenous sediment input in the Pacific sector of the Southern Ocean during the Quaternary
16:40 – 17:10	James Collins: Holocene biomarker records from southern Chile
Discussion Break 19:00 Snacks and Icebreaker	

Room, AWI, D 2930, floor 2a

Tuesday 1 July, Beginning: 9:00

- marine habitats, mapping and lake sediments




9:00 – 9:30	Doris Abele: Results from the other workpackages, abiotic factors and the bio-environment.
9:30 – 9:45	Astrid Bracher: Improving quality and resolution of satellite phytoplankton products in the coastal area of the Western Antarctic Peninsula
9:45 – 10:00	María Liliana Quartino: The expansion of macroalgae distribution in Potter Cove Ecosystem.
10:00 – 10:30	Nina Wittenberg: Submarine landforms and acoustic sediment characteristics in Potter Cove
10:30 – 11:00	Coffee Break 
11:00 – 11:30	Christian Hass: Marine habitats and the sedimentary development of the Potter Cove through the recent past.
11:30 – 12:00	Kersten Jerosch: A Benthic Terrain Classification Systems for Potter Cove, King George Island, using the Benthic Positioning Index.
12:00 – 12:30	Frauke Scharf: Poster-Presentation: KGI - Potter Cove benthic terrain model map - Group discussion on morphological classification scheme and resulting units
	
12:30 – 14:00	Lunch Break
14:00 – 14:30	Susann Henkel: Stable Fe isotopes in sediments from Potter Cove, King George Island
14:30 – 15:00	Stephen Roberts: Impact of deglaciation and Holocene climate change on lake ecosystems of the South Shetland Islands
15:00 – 15:30	Coffee Break 
15:30 – 16:00	Sebastian Lindhorst: Polar gravel beach-ridge systems: Sedimentary architecture, genesis, and implications for climate reconstructions

16:00 – 16:30	Pablo Heredia: Geomorphology of Potter Peninsula, King George Island, West Antarctic Peninsula
16:30 – 17:00	Pablo Heredia: New approach to the Holocene marine transgression in Potter Cove, Isla 25 de Mayo (King George Island), South Shetland Islands; by: Jorge A. Strelin, Pablo A. Heredia Barión, Mateo A. Martini, Michael M. Kaplan, Gerhard Kuhn:
17:00 – 17:30	Gerhard Kuhn: Existing marine sediment cores around KGI, future sampling and integrative work: Discussion

**Room, AWI, D 2930, floor 2a**

**Wednesday 2 July, Beginning: 9:00**

- marine and terrestrial archives**

9:00 – 9:30	Julia Wellner: Comparison of sediment accumulation rates in Maxwell Bay, King George Island, and fjords of the Danco Coast, Antarctic Peninsula.
9:30 – 10:00	Andrzej Tatur: Multi proxy study on the Little Ice Age in sediments of an Antarctic fjord, King George Island.
10:00 – 10:30	Nina Wittenberg: Marine sedimentation in Maxwell Bay: A record of environmental fluctuations during the late Holocene
10:30 – 11:00	Coffee Break 
11:00 – 11:30	Tamara Czalbowski: Geochemistry and mineralogy as tools for sediment provenance and sedimentary dynamics studies in Potter Cove, 25 de Mayo (KG) Island
11:30 – 12:00	Louise Taylor: GDGTs as a temperature proxy in Antarctic lakes: Reconstructing Holocene Climate in Yanou Lake, King George Island
12:00 – 14:00	Lunch Break 
14:00 – 14:30	Pablo Heredia: Holocene evolution of the landscape of NW James Ross Island, Northern Antarctic Peninsula: New evidences and results
14:30 – 15:00	Coffee Break 
15:00 – 16:00	Discussion: Reconstruction of a GIA model for KGI; new samples for 14C dating,- Priorities
16:00 – 17:00	Discussion: What kinds of investigation are needed? New sedimentological, geochemical, and biomarker proxies
17:00 – 17:30	Discussion: future terrestrial field work, samples needed and IMCONet secondments planned

**Thursday 3 July, Beginning: 8:30**

**Field trip to Neuwerk** - Discussions about wadden sea, past and future environmental changes, sea-level rise combined with island exploration!