

## **Report – field campaign summer 2011 - climatology team**

**(July 27<sup>th</sup> – August 11<sup>th</sup>)**

### **Participants on the summer 2010 field campaign:**

- Roman Finkelburg, TU Berlin
- Fabien Maussion, TU Berlin
- Marco Möller, RWTH Aachen University

### **Associated colleagues:**

- Dieter Scherer, TU Berlin
- Christoph Schneider, RWTH Aachen University

### **Objectives:**

- Investigation of mass and energy balance of Vestfonna and De Geerfonna
- Meteorological measurements
- Assessment of spatial variability in local and regional climate setting
- Documentation and analysis of snow stratigraphy
- Preparation for future assessment of ice dynamic information

### **Conducted fieldwork:**

- Gathering data from two automatic weather stations (De Geerfonna ~240 m asl; NW ramp of Vestfonna ~370 m asl )
- Fixing and maintaining of the two automatic weather stations
- Metering and maintaining of ablation stake networks on Vestfonna and De Geerfonna
- Digging of a snow pit at the AWS site on De Geerfonna and Vestfonna(Temperature, snow density, grain size and grain type, snow stratigraphy)

**LOG of activities:**

<b>Date</b>	<b>Workings</b>	<b>Weather</b>	<b>Site</b>
27.07.2011	Arrival in LYR	light wind, sunny	LYR
28.07.2011	Preparation for field trip	light wind, cloudy, occasional sun	LYR
29.07.2011	Preparation for field trip	light wind, overcast	LYR
30.07.2011	Preparation for field trip	light wind, overcast, occasional fog	LYR
31.07.2011	Sailing to Nordaustlandet	light wind, overcast, occasional fog	LYR/MS Farm
01.08.2011	Sailing to Nordaustlandet	light wind, cloudy, occasional sun	MS Farm/ Weaselbukta/ Nordaustlandet
02.08.2011	Starting trip; gathering data, repair and maintenance of DG-AWS; reading ablation stakes; returning to MS Farm	light wind, overcast; sleet in the evening	MS Farm/ Weaselbukta/ Nordaustlandet
03.08.2011	Recovering; waiting for better weather	windy, overcast, foggy, occasional sleet	MS Farm/ Weaselbukta/ Nordaustlandet
04.08.2011	Starting trip; gathering data, repair and maintenance of VF-AWS370; reading ablation stakes	windy, overcast, foggy, occasional sleet	MS Farm/ Weaselbukta/ Nordaustlandet
05.08.2011	Gathering data, repair and maintenance of DG-AWS; reading ablation stakes; returning to MS Farm; sailing to Longyearbyen	light wind, overcast; sunny in the evening	MS Farm/ Weaselbukta/ Nordaustlandet
06.08.2011	Sailing to Longyearbyen	windy, sunny; overcast, occasional sun in the evening	MS Farm
07.08.2011	Sailing to Longyearbyen	light wind, cloudy	MS Farm

08.08.2011 Sailing to Longyearbyen  
09.08.2011 Clearance; Recovering  
10.08.2011 Clearance; Recovering  
11.08.2011 Departure from LYR

light wind, overcast

MS Farm/LYR

LYR

LYR

LYR

### Photos:



*Walking to VF-AWS370  
(Roman Finkelburg, Marco Möller)*



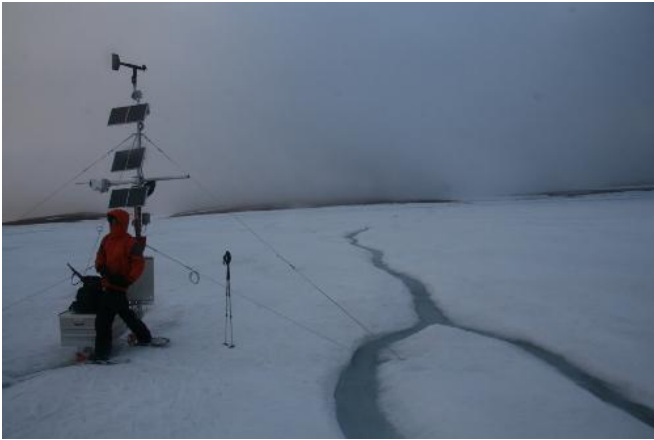
*Maintaining VF-AWS370  
(Roman Finkelburg, Marco Möller)*



*At former station VF-AWS240 (Marco Möller)*



*Walking to DG-AWS  
(Roman Finkelburg, Marco Möller)*



*Maintaining DG-AWS (Roman Finkelburg)*



*Walking back to MS Farm (Marco Möller)*



*Passage to MS Farm (Roman Finkelburg)*



*After fieldtrip onboard the MS Farm (Roman Finkelburg, Marco Möller)*