

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

**(May 10<sup>th</sup> – May 29<sup>th</sup>)**

### **Participants on the spring 2011 field campaign:**

- Roman Finkelburg, TU Berlin
- Dieter Scherer, TU Berlin
- Marco Möller, RWTH Aachen University
- Christoph Schneider, RWTH Aachen University

### **Logistic support:**

- Jon Ove Hagen, University of Oslo

### **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>
10.05.2011	Arrival in LYR: Marco, Dieter & Roman		LYR
11.05.2011	Preparation for field trip		LYR
12.05.2011	Preparation for field trip; Arrival Christoph		LYR
13.05.2011	Heli flight to Jon Ove's station at Oxfordhalvøya; Preparation for field trip	light wind, overcast, light snow	LYR/ Oxfordhalvøya
14.05.2011	Digging of snow pits/sounding at east-ramp of Vestfonna	windy, overcast, foggy	Oxfordhalvøya/ Vestfonna
15.05.2011	Digging of snow pits/sounding at center, north and east of Vestfonna	strong wind, snow, foggy	Oxfordhalvøya/ Vestfonna
16.05.2011	Recovering; waiting for better weather	windy, overcast	Oxfordhalvøya/ Vestfonna
17.05.2011	Trip to VF-AWS370; setting up camp; gathering data	strong wind, overcast, foggy	Oxfordhalvøya/ Vestfonna
18.05.2011	Digging of snow pit and reading ablation stakes at VF- AWS370 and DG-AWS; gathering data at DG-AWS	no wind, sunny	Vestfonna/ De Geerfonna
19.05.2011	Repairing/maintaining: VF-AWS370	windy, light snow, foggy	Vestfonna
20.05.2011	Repairing/maintaining: DG-AWS; dismantling camp; trip back to Oxfordhalvøya; digging snow pits and sounding at Vestfonna	strong wind, snow, foggy	Vestfonna/ DeGeerfonna/ Oxfordhalvøya
21.05.2011	Recovering	no wind, sun; overcast in the evening	Oxfordhalvøya

22.05.2011	Recovering	sunny in the morning;light wind, light snow, overcast in the evening	Oxfordhalvøya
23.05.2011	Recovering; Clearance	windy, overcast	Oxfordhalvøya
24.05.2011	Clearance; heli flight back to Longyearbyen		Oxfordhalvøya/ LYR
25.05.2011	Clearance; Recovering		LYR
26.05.2011	Clearance; Recovering		LYR
27.05.2011	Clearance; Recovering		LYR
28.05.2011	Clearance; Recovering		LYR
29.05.2011	Departure from LYR		LYR

**Photos:**



*Participants from left:Dieter Scherer, Christoph Schneider, Roman Finkelburg, Marco Möller*



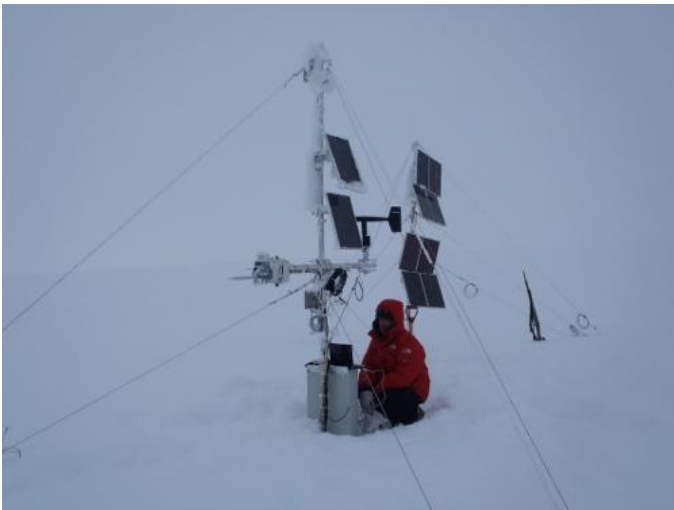
*Snow stratigraphy (Marco Möller)*



Going to Vestfonna (Roman Finkelburg, Marco Möller)



Setting up basecamp (Dieter Scherer, Christoph Schneider, Roman Finkelburg)



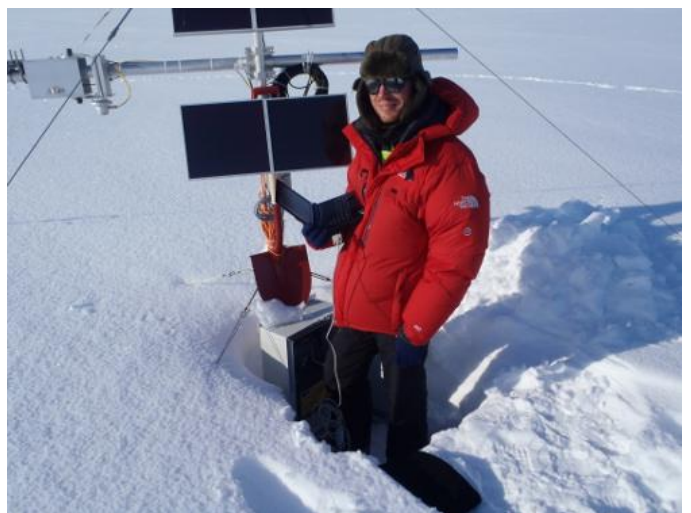
Maintaining VF-AWS370 (Roman Finkelburg)



Measuring snow depth (Christoph Schneider, Marco Möller)



Digging of a snow pit (Christoph Schneider)



Maintaining DG-AWS (Roman Finkelburg)

