

Report – field campaign summer 2010 - climatology team

(August 12nd – August 28th)

Participants on the summer 2010 field campaign:

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

Associated colleagues:

- Dieter Scherer, TU Berlin

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:

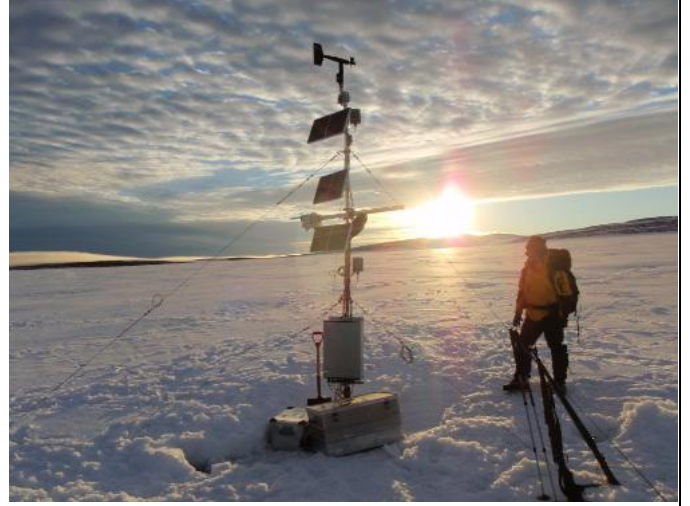
Date	Workings	Weather	Site
12.08.2010	Arrival in LYR, Marco & Roman	some clouds	LYR
13.08.2010	Preparation for field trip	light wind, cloudy	LYR
14.08.2010	Preparation for field trip	light wind, cloudy, occasional sun and snow	LYR
15.08.2010	Preparation for field trip; Arrival Christoph	windy, overcast	LYR
16.08.2010	Preparation for field trip	windy, high clouds	LYR
17.08.2010	Sailing to Nordaustlandet	light wind, sunny, some clouds	MS Farm
18.08.2010	Sailing to Nordaustlandet	light wind, some clouds, occasional sun	MS Farm
19.08.2010	Starting trip; gathering data, repair and maintenance of DG-AWS; returning to MS Farm	no wind, light fog; fair weather in the evening	MS Farm/ Weaselbukta/ Nordaustlandet
20.08.2010	Starting trip; gathering data, repair and maintenance of VF-AWS370; reading ablation stakes; digging of snow pit	no wind, sunny	MS Farm/ Weaselbukta/ Nordaustlandet
21.08.2010	Gathering data, repair and maintenance of DG-AWS; reading ablation stakes; digging of snow pit; returning to MS Farm	light wind, high clouds, occasional sun	MS Farm/ Weaselbukta/ Nordaustlandet
22.08.2010	Sailing to Longyearbyen	no wind, sunny, occasional fog	MS Farm
23.08.2010	Sailing to Longyearbyen	light wind, sunny, occasional fog	MS Farm
24.08.2010	Sailing to Longyearbyen	foggy morning; no wind, sunny in the evening	MS Farm

25.08.2010	Sailing to Longyearbyen	light wind, overcast	MS Farm/LYR
26.08.2010	Clearance; Recovering	light wind, sunny; overcast in the evening	LYR
27.08.2010	Clearance; Recovering; Departure from LYR: Christoph	light wind, low clouds	LYR
28.08.2010	Departure from LYR: Marco, Roman	light wind, low clouds	LYR

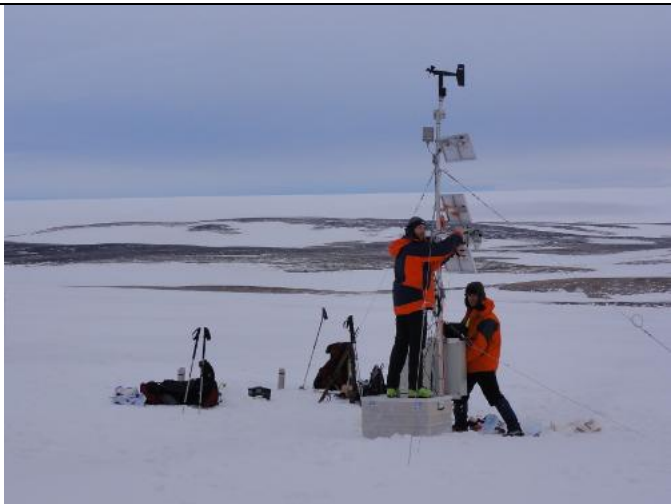
Photos:



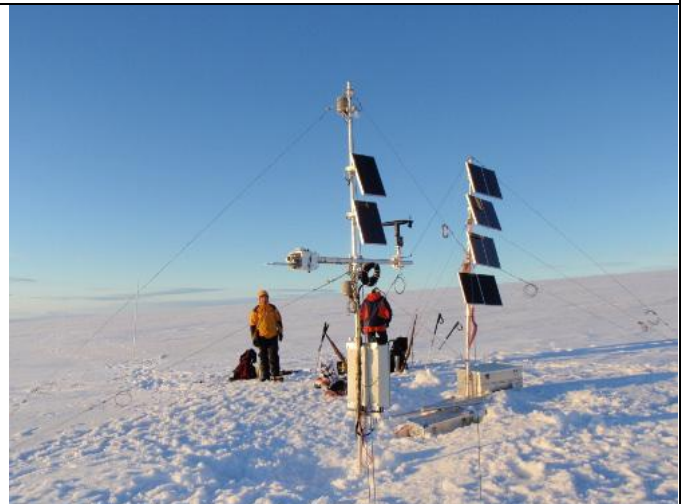
Walking to DG-AWS (Christoph Schneider)



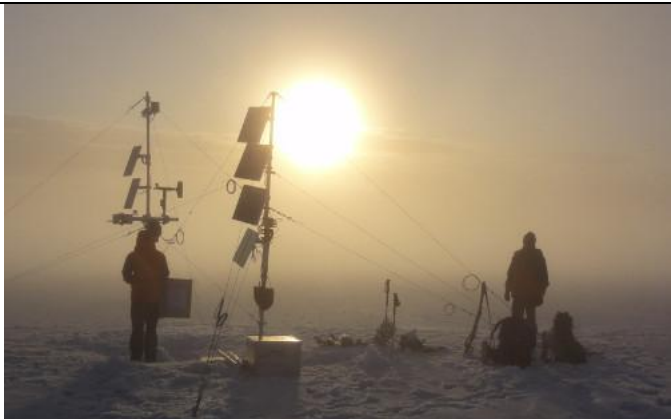
Arriving at DG-AWS (Christoph Schneider)



Maintaining DG-AWS (Marco Möller, Roman Finkelburg)



Arriving at VF-AWS370 (Christoph Schneider, Marco Möller)



Maintaining VF-AWS370 (Roman Finkelburg, Marco Möller)



Work after the fieldtrip onboard the MS Farm (Marco Möller)

