SVALGLAC-Austria
Mass and energy balance of Kongsvegen glacier
Report about fieldwork 2011

Objectives:

- Maintenance of a spatially distributed meteorological and glaciological measurement network along the flow line of Kongsvegen glacier (6 automatic weather stations, AWS)
- investigation of snow microstructure at different sites on Kongsvegen glacier at the sites of the weather stations
- investigation of the atmospheric boundary layer (eddy covariance measurements in the ablation area)

Timetable:

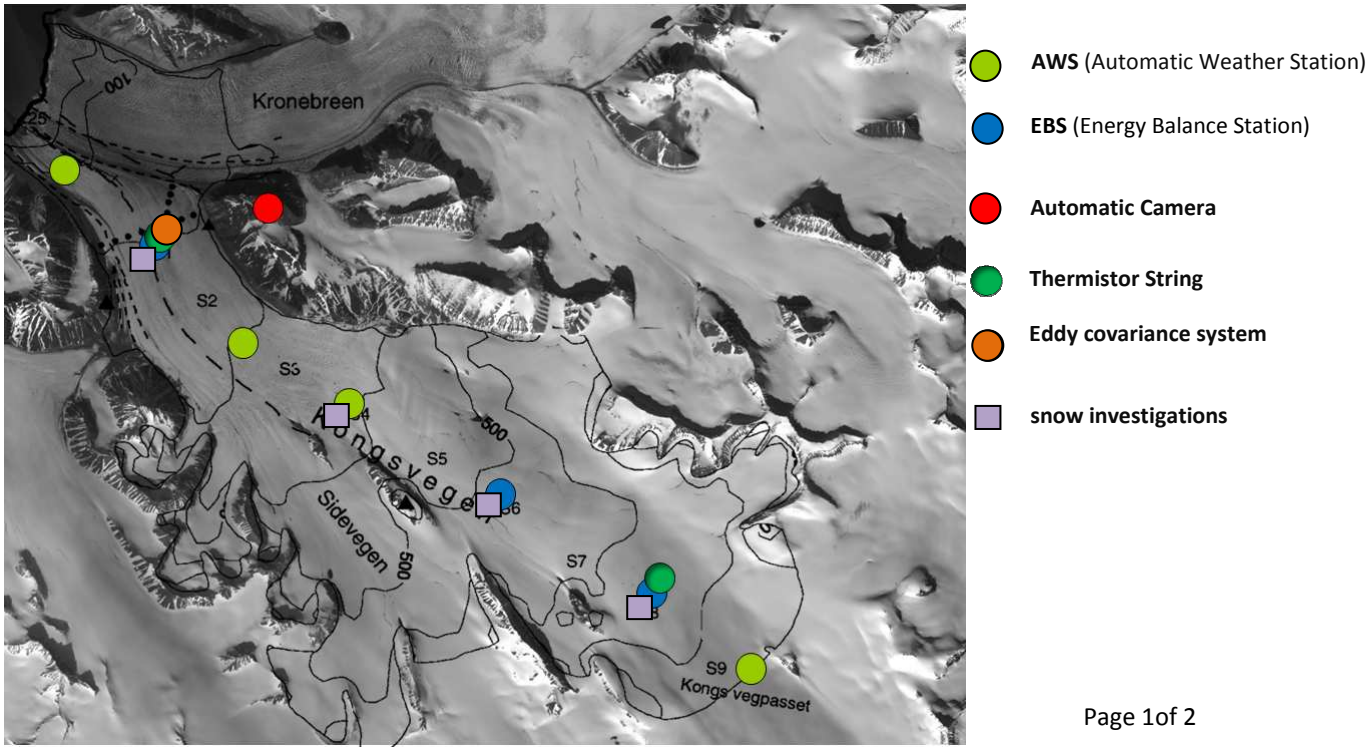
- organize transport of equipment and field measurement logistics (March 2011)
- perform field work: first period (01 April 2011 until 13 April 2011)
- perform field work: second period (29 April 2011 until 04 May 2011)

Participants:

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- Florian Bilgeri (Innsbruck University)
- Steinkogler Walter (Innsbruck University, WSL - SLF Davos)
- Jack Kohler (Norwegian Polar Institute, Tromsoe)

Outcome:

- The 2011 measurement setup at Kongsvegen glacier



1st period - (01 April 2011 until 13 April 2011)

- gathering meteorological data
- reparation of damaged measurement equipment (AWS 2.5, EBS 6)
- perform snow investigations:
  - conventional snow investigations (density, hardness, stratigraphic profiles)
  - special profile measurements of specific surface area, hardness, density
- perform ABL measurements employing eddy covariance instrument and adjusted AWS

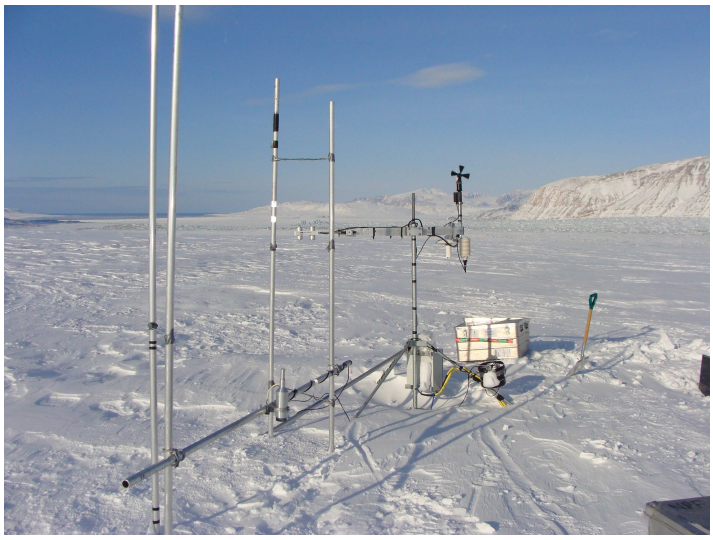
2nd period - (29 April 2011 until 04 May 2011)

- maintenance of the measurement network
- repeated snow investigations at some sites on Kongsvegen glacier
- dismountiof the eddy covariance instrument
- readjustment of AWS network for normal operation

Impressions:



snow pit at stake 8 - (10.04.2011)



energy balance station stake 1 - (04.04.2011)

- Next field work is planned April 2012
- This work was funded by the Austrian Science Fund (FWF, grant I 369-B17) is registered under RIS-ID 4660 and was coordinated with other activities in the area (RIS-ID 2203 and RIS-ID 4761).