SVALGLAC-Austria
Report about fieldwork 2010
Mass and energy balance of Kongsvegen glacier

Objectives:

- Install a spatially distributed network of meteorological and glaciological measurements along the glacier
- Perform snow and glacier mass balance investigations

Timetable:

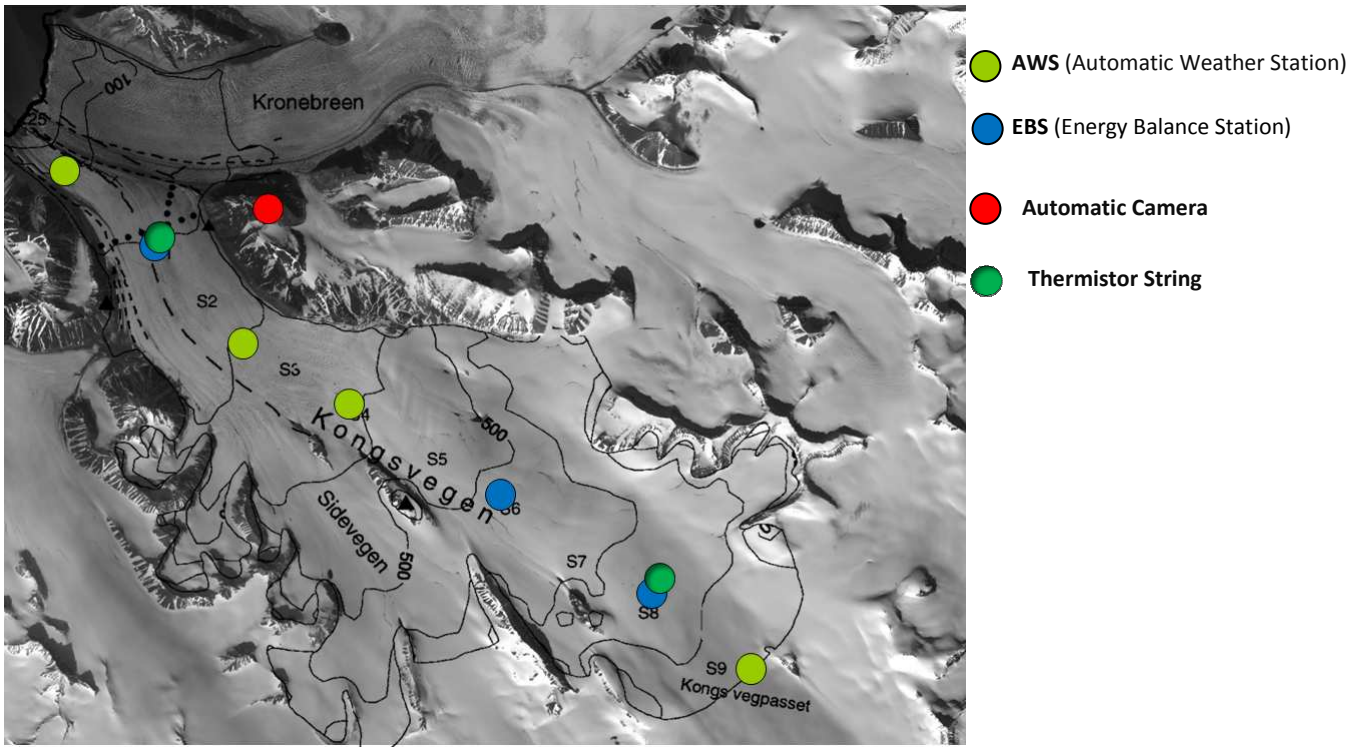
- reanalyze existing datasets and develop measurement concepts (February / March 2010)
- develop instrumentation (March / April 2010)
- organize transport of equipment and field measurement logistics (April 2010)
- perform field work (16 April 2010 until 02May 2010)

Participants:

- Florian Karner (Innsbruck University)
- Florian Bilgeri (Innsbruck University)
- Jack Kohler (Norwegian Polar Institute, Tromsoe)

Results:

- The current measurement setup at Kongsvegen glacier

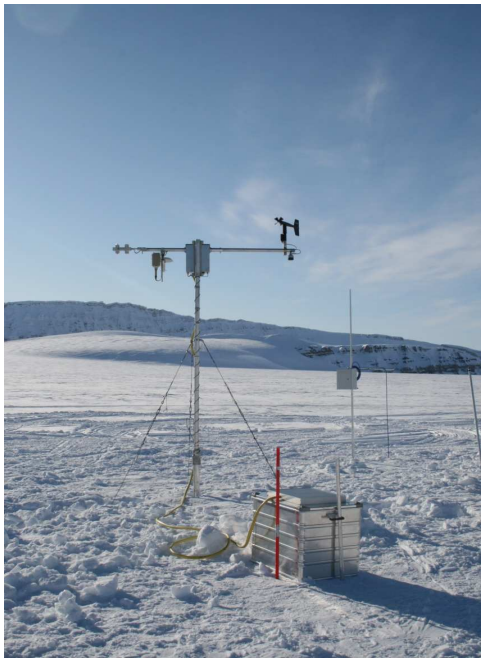


- Details about locations and parameters

	AWS0	EBS1	AWS2.5	AWS4	EBS6	EBS8	AWS9
Height above sea level	100m	170m	300m	400m	540m	650m	700m
Temperature	✓	✓ *	✓	✓	✓	✓ *	✓
Relative Humidity	✓	✓	✓	✓	✓	✓	✓
Wind speed	✓	✓	✓	✓	✓	✓	✓
Wind direction	✓	✓	✓	✓	✓	✓	✓
Surface Height	✓	✓	✓	✓	✓	✓	✓
Short-wave radiation	✓	✓	✓	✓	✓	✓	✓
Long-wave radiation		✓			✓	✓	
Snow/ice temperatures		✓				✓	

* ventilated radiation shield

Impressions:



EBS 8 (18Apr2010,650m asl.)



AWS 4 snow pit (24Apr2010; 400m asl.)

- Next field work is planned April/May 2011 and will focus on snow investigations mainly.
- This work was funded by the Austrian Science Fund (FWF, grant I 369-B17) is registered under RIS-ID 4660