



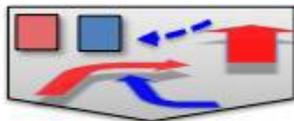
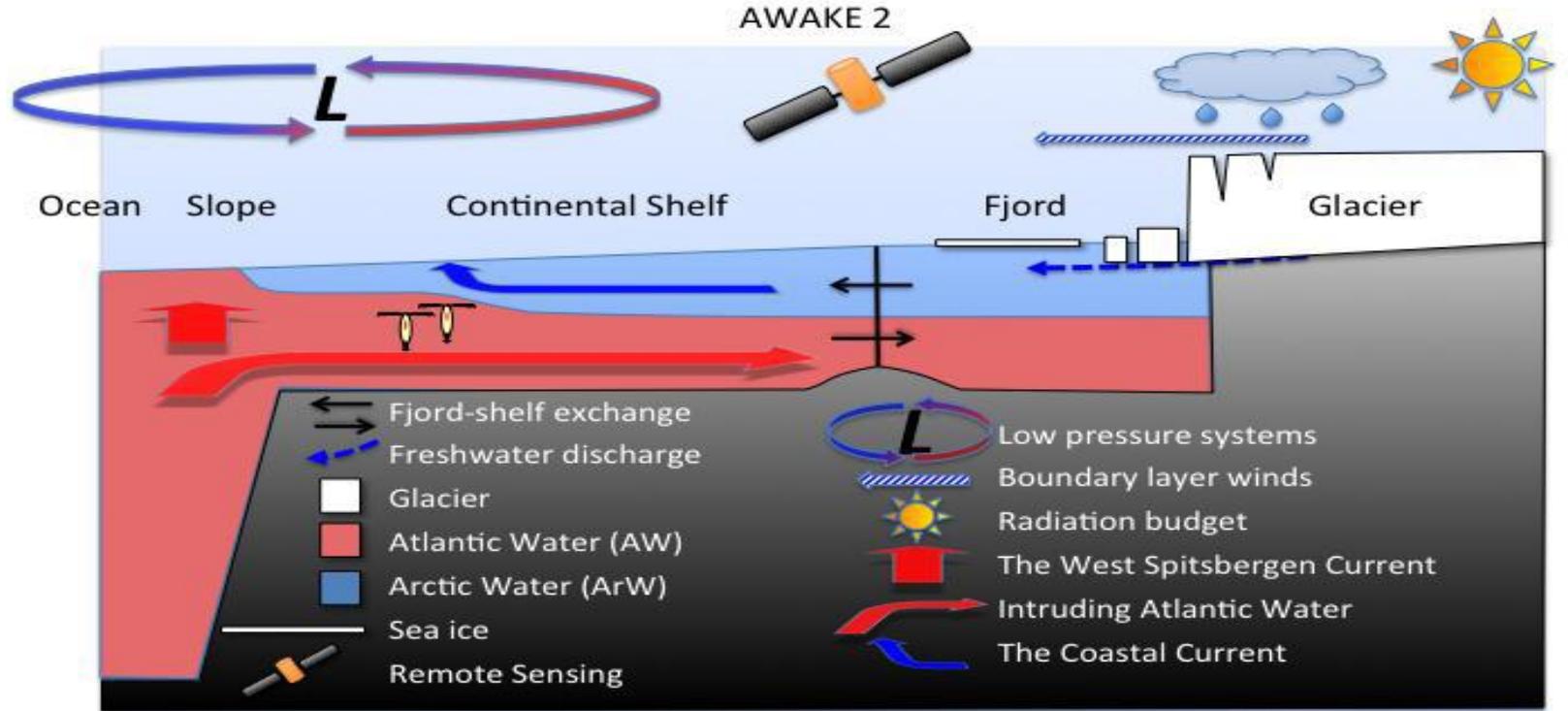
Arctic Climate System Study of Ocean, Sea Ice and Glaciers Interactions in Svalbard Area WP5: Freshwater from the land

Adam P. Nawrot and Tomasz
Wawrzyniak

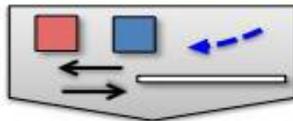


AWAKE-2

Arctic Climate System Study of Ocean, Sea Ice and Glaciers Interactions in Svalbard Area



Open ocean (WP 2)



Fjords (WP 3)



Sea ice (WP 4)



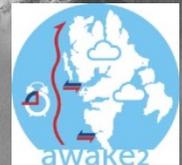
FW from land (WP 5)

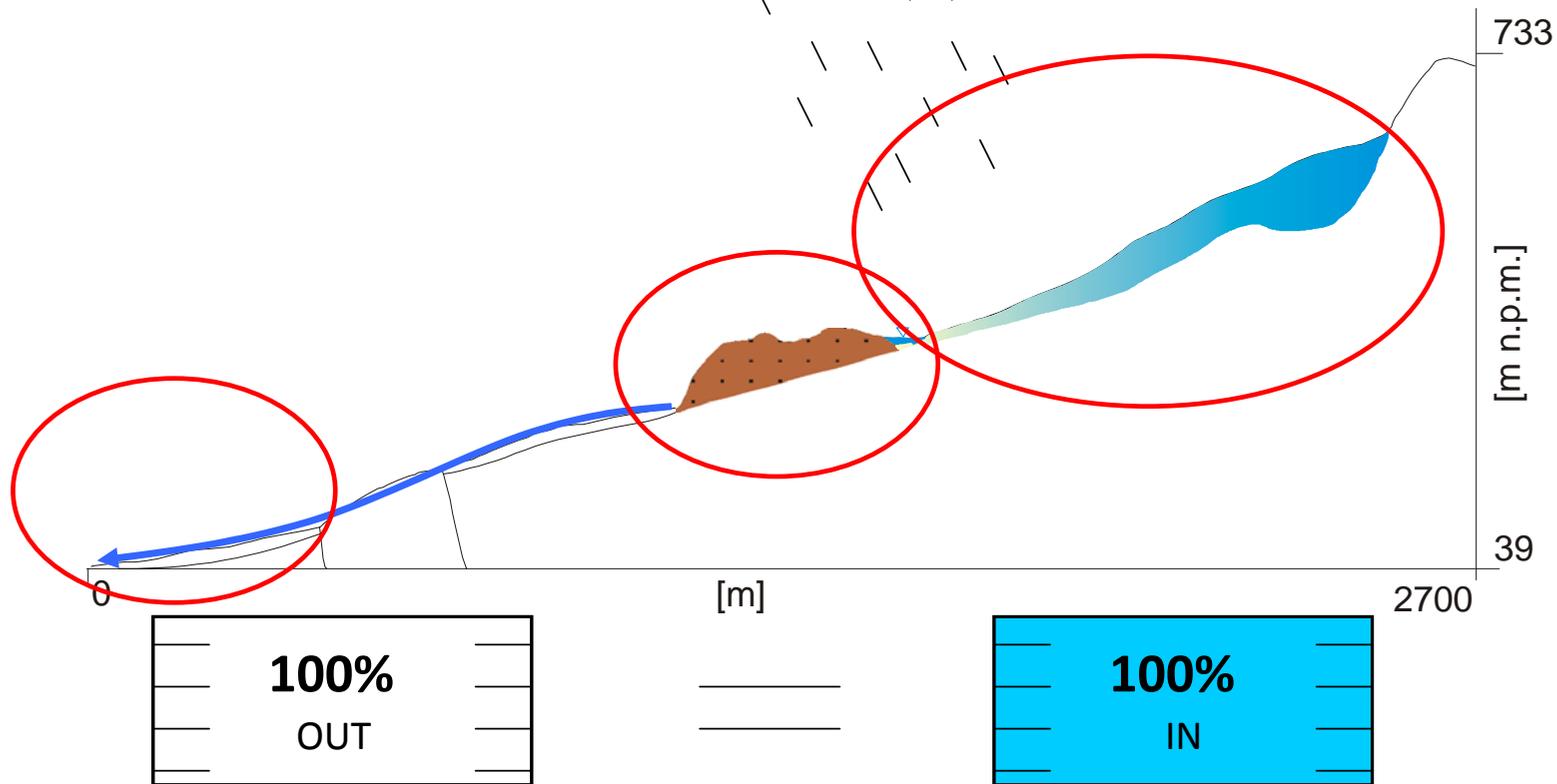


Atmosphere (WP 6)



Task 5.2. Studies of factors and regimes of outflow from specific terrestrial sources i.e. partly glaciated and unglaciated catchments





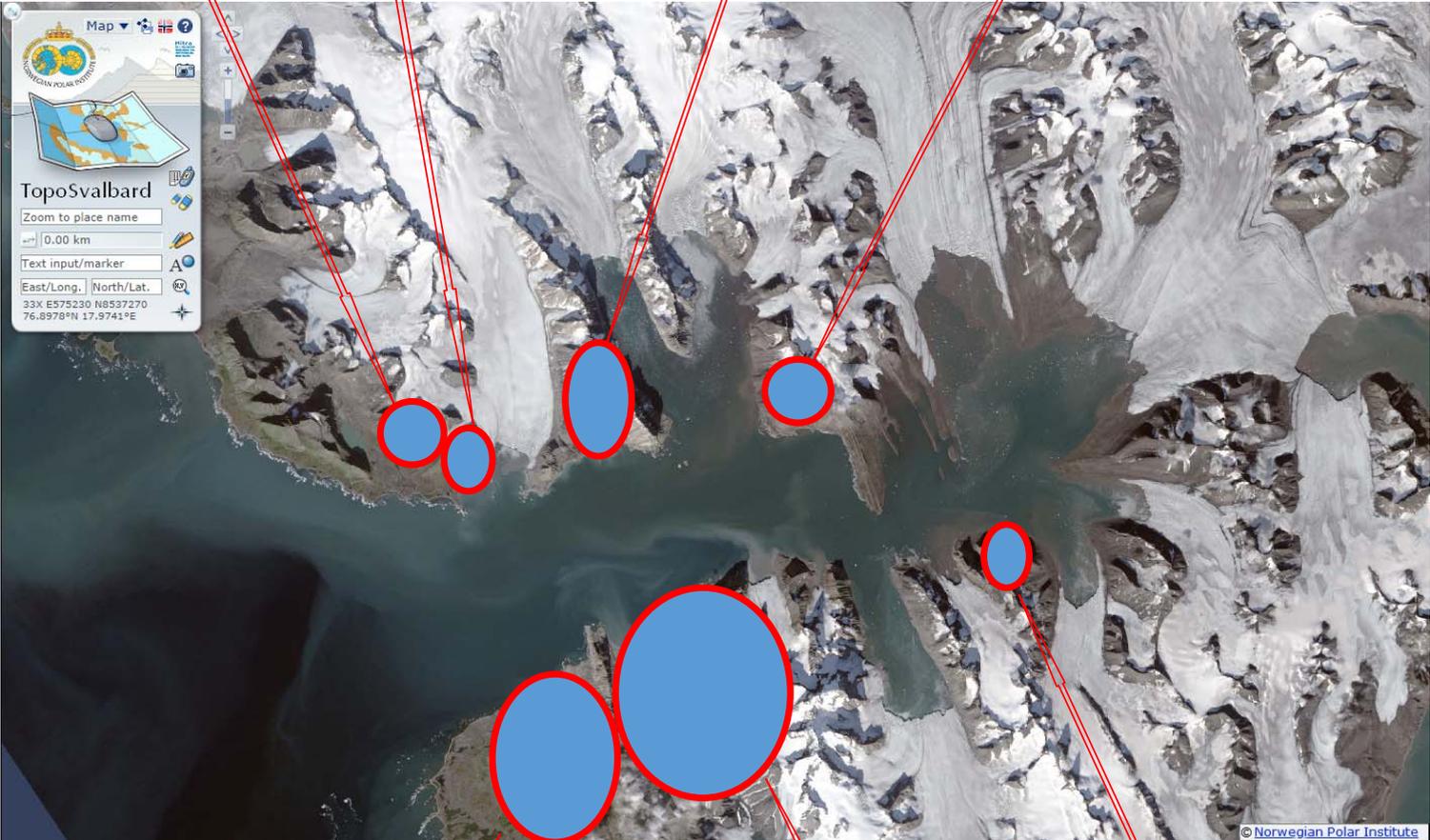
Catchments

Arie

Fugle

Sofie

Lorch



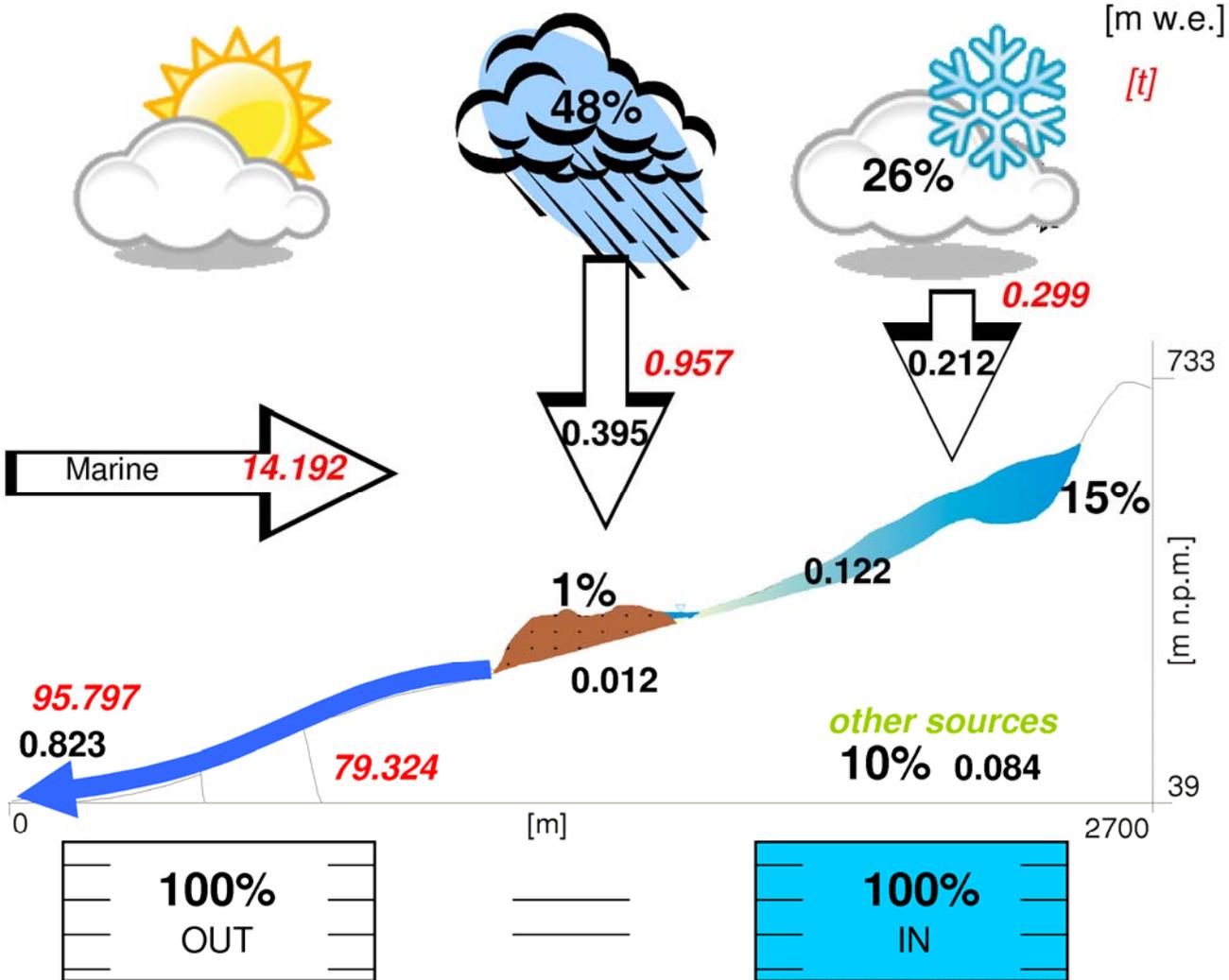
Lisbet

Gås

Bauta



Water balance in 2008 - Ariedalen, Spitsbergen



Rivers

Freshwater

Glaciers

Precipitation:
Snow
Rain

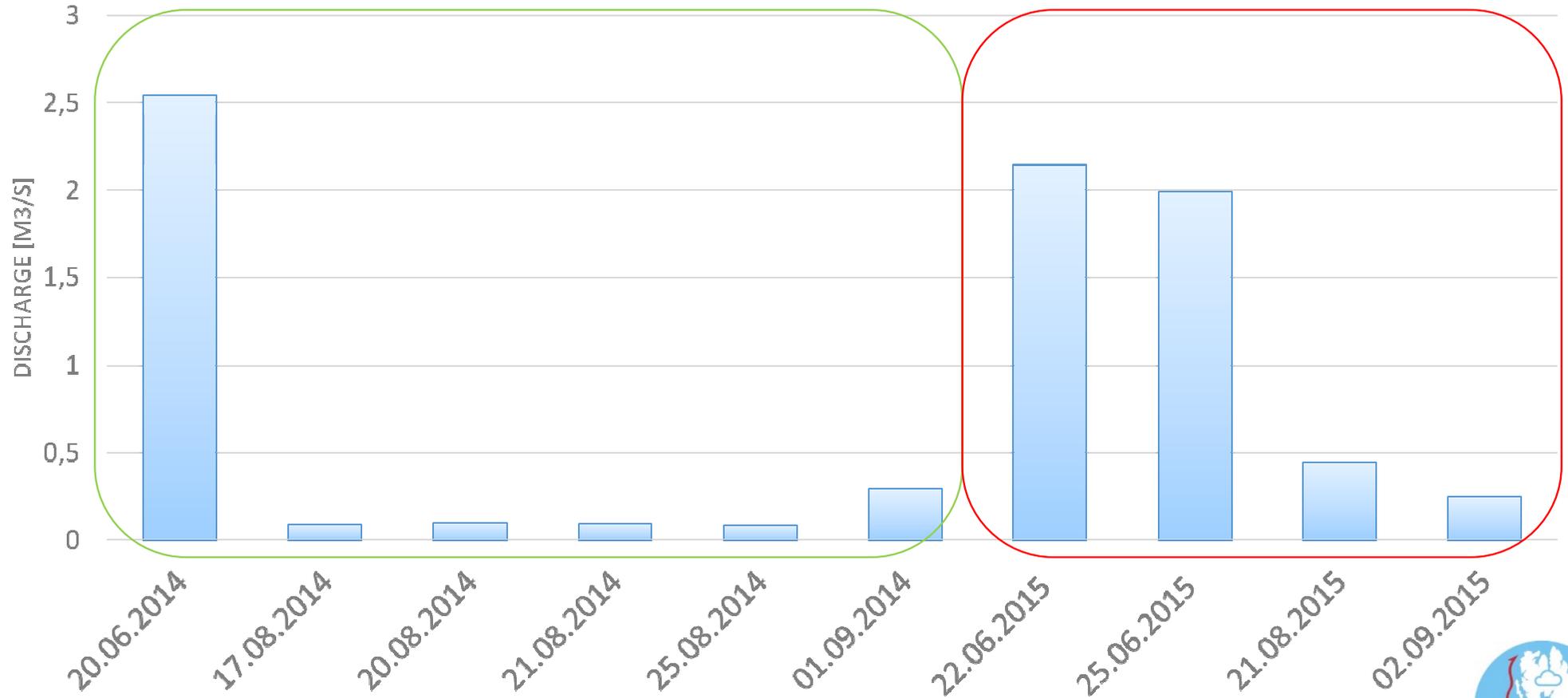


Hydromagnetic propeller measurement



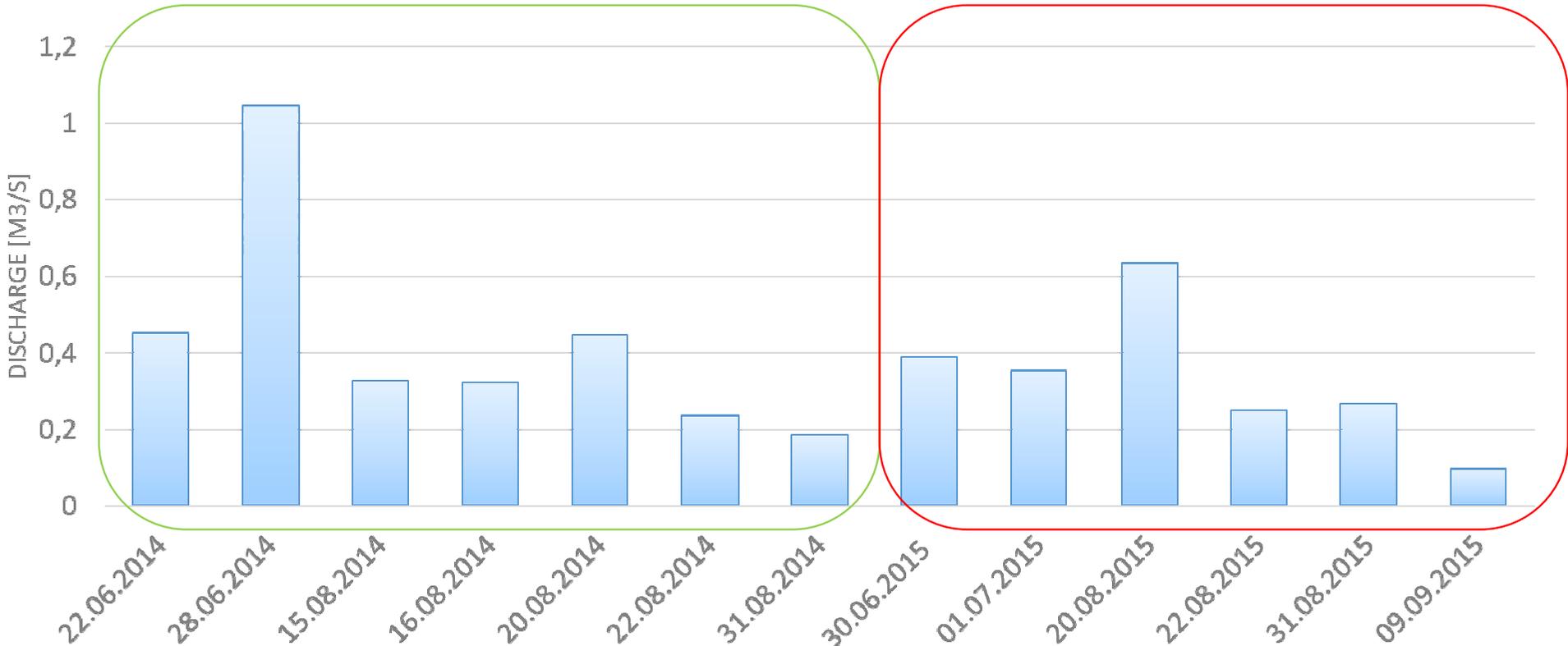
Discharge

Lisbetdalen

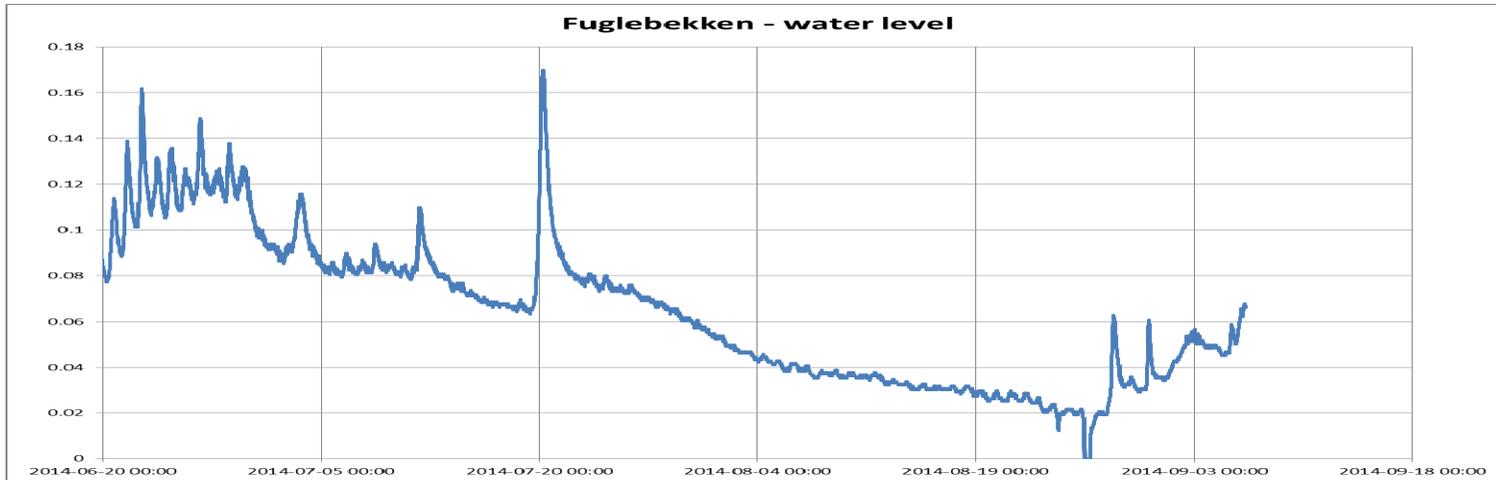


Discharge

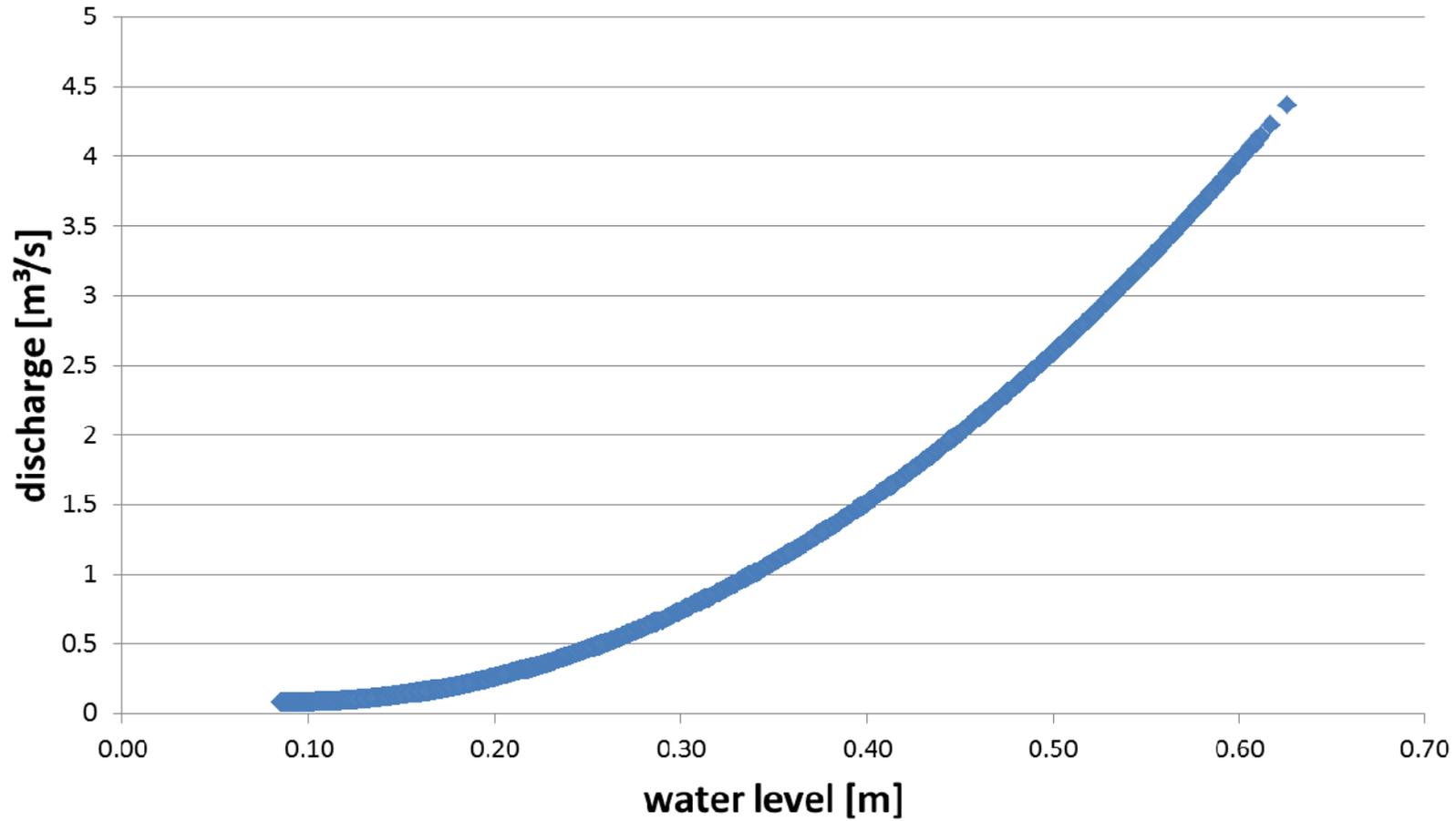
Sofiebreen



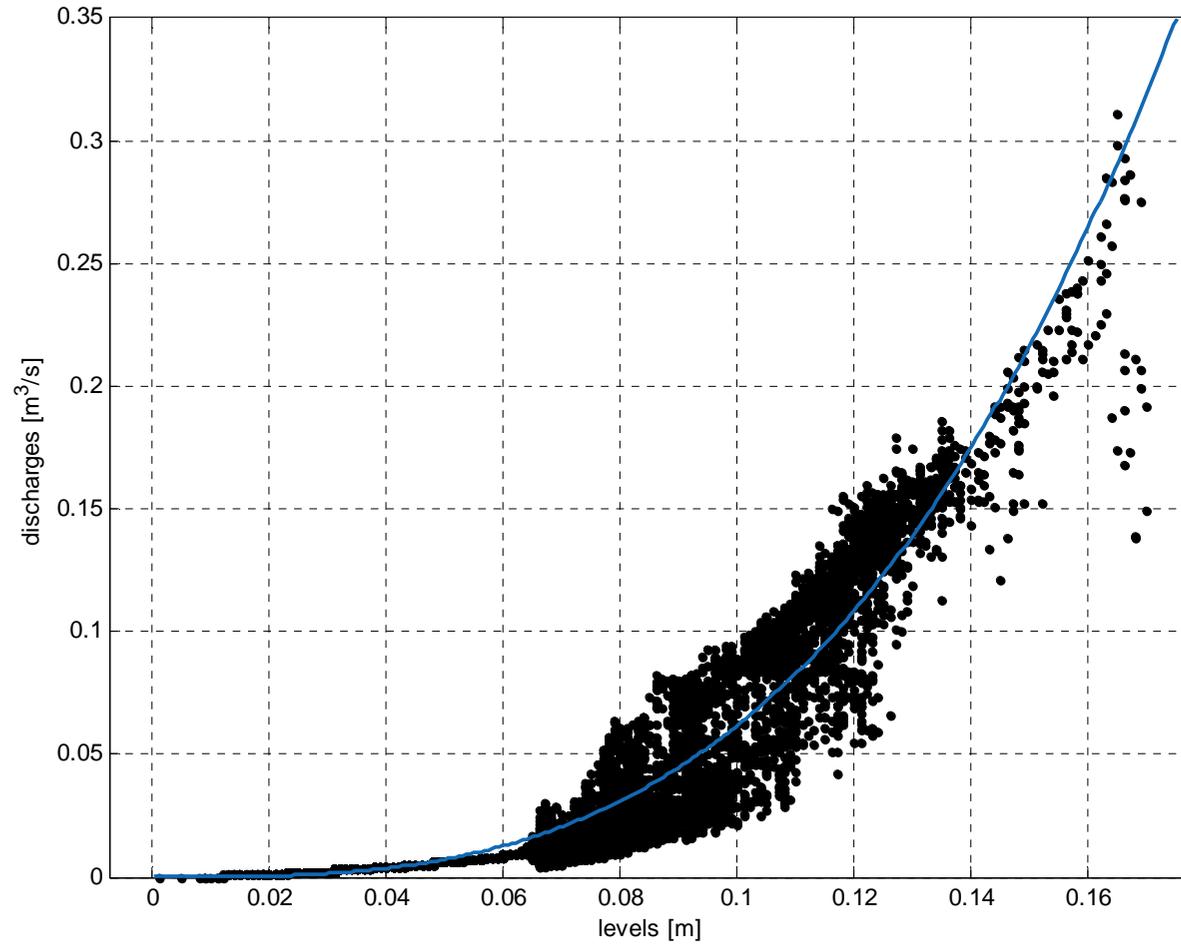
Water level loggers – measurements in every 10 minutes



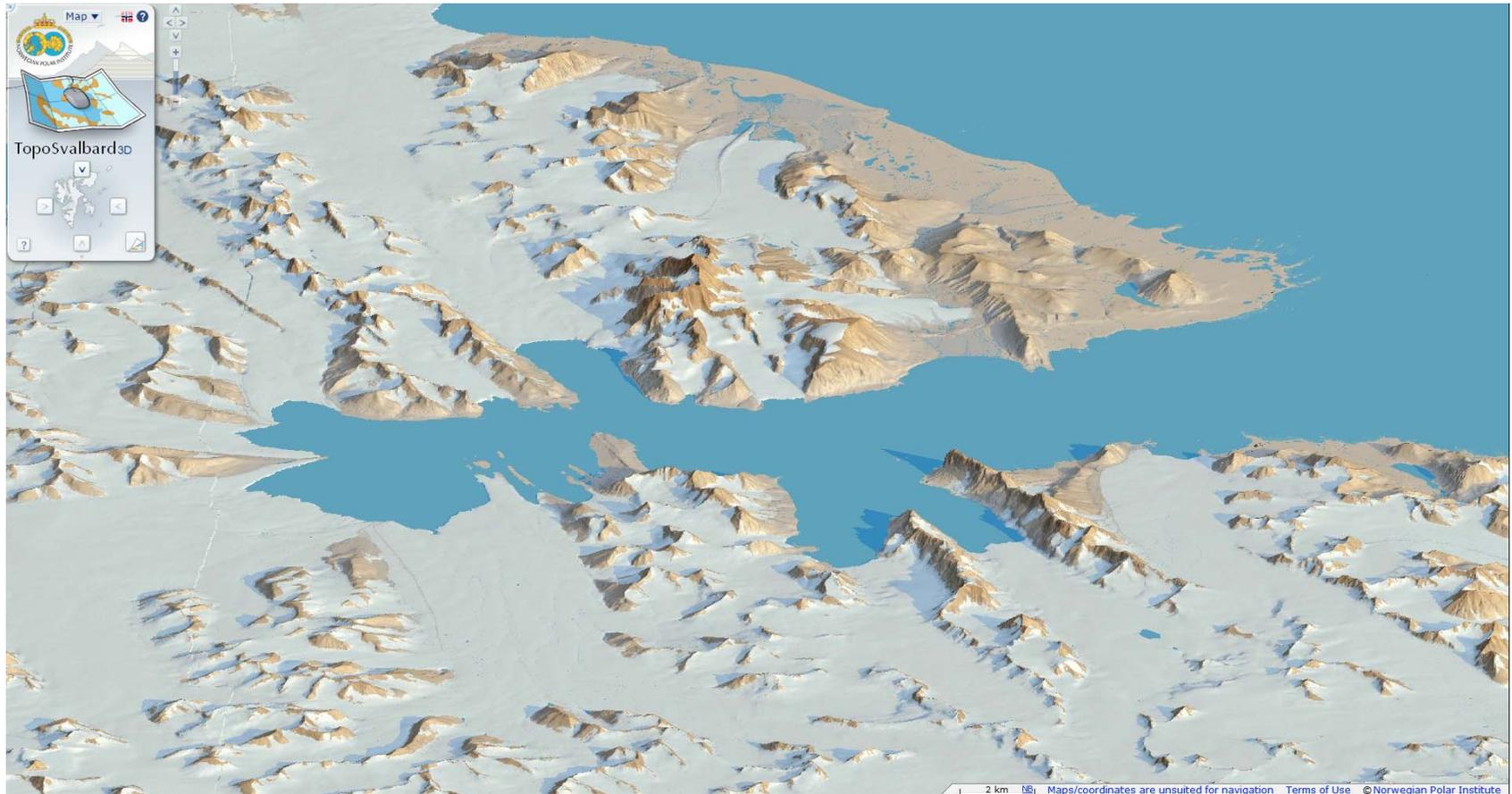
Lisbetelva - rating curve



Rating curve - Fuglebekken

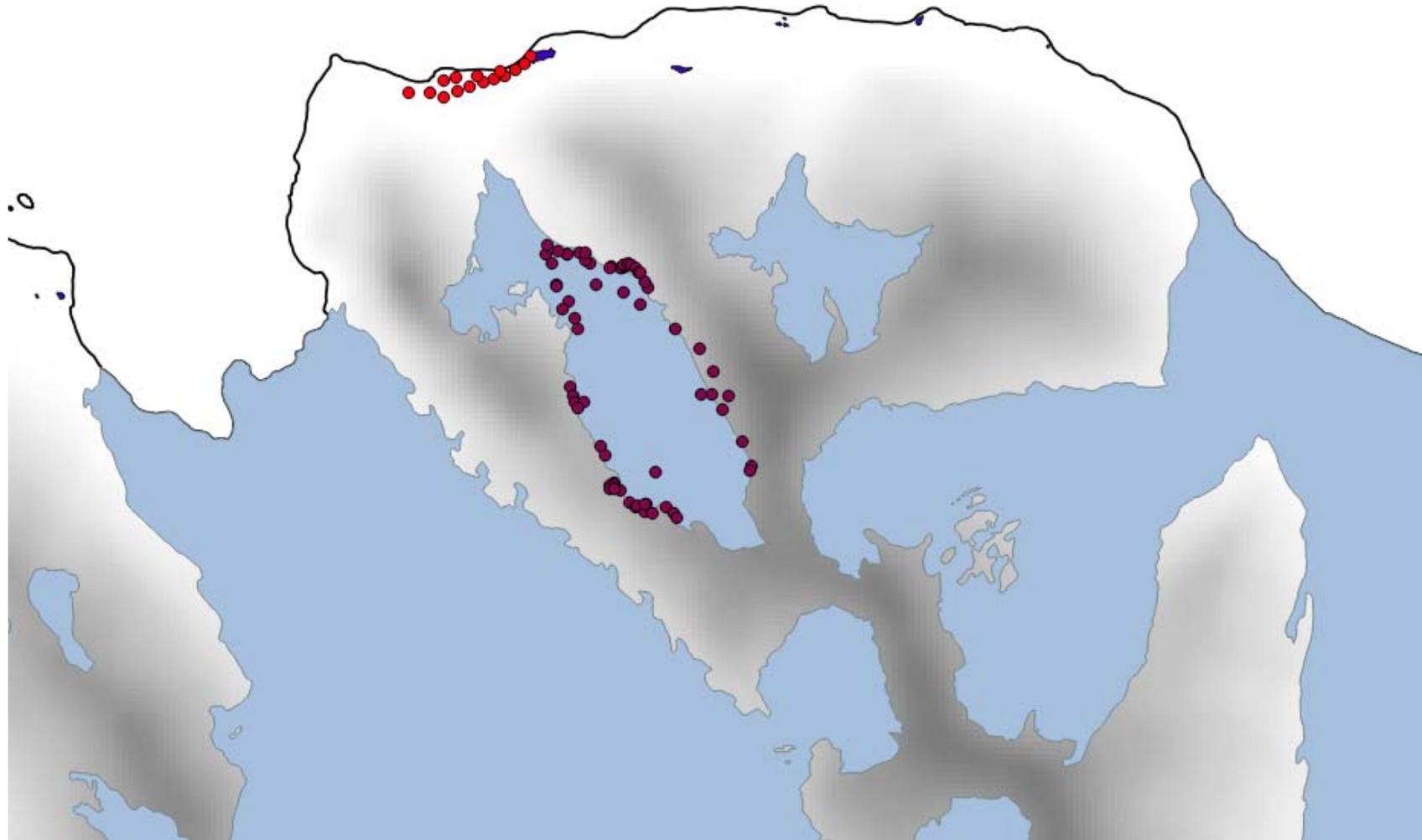


Glaciers and snow cover





Bautabreen







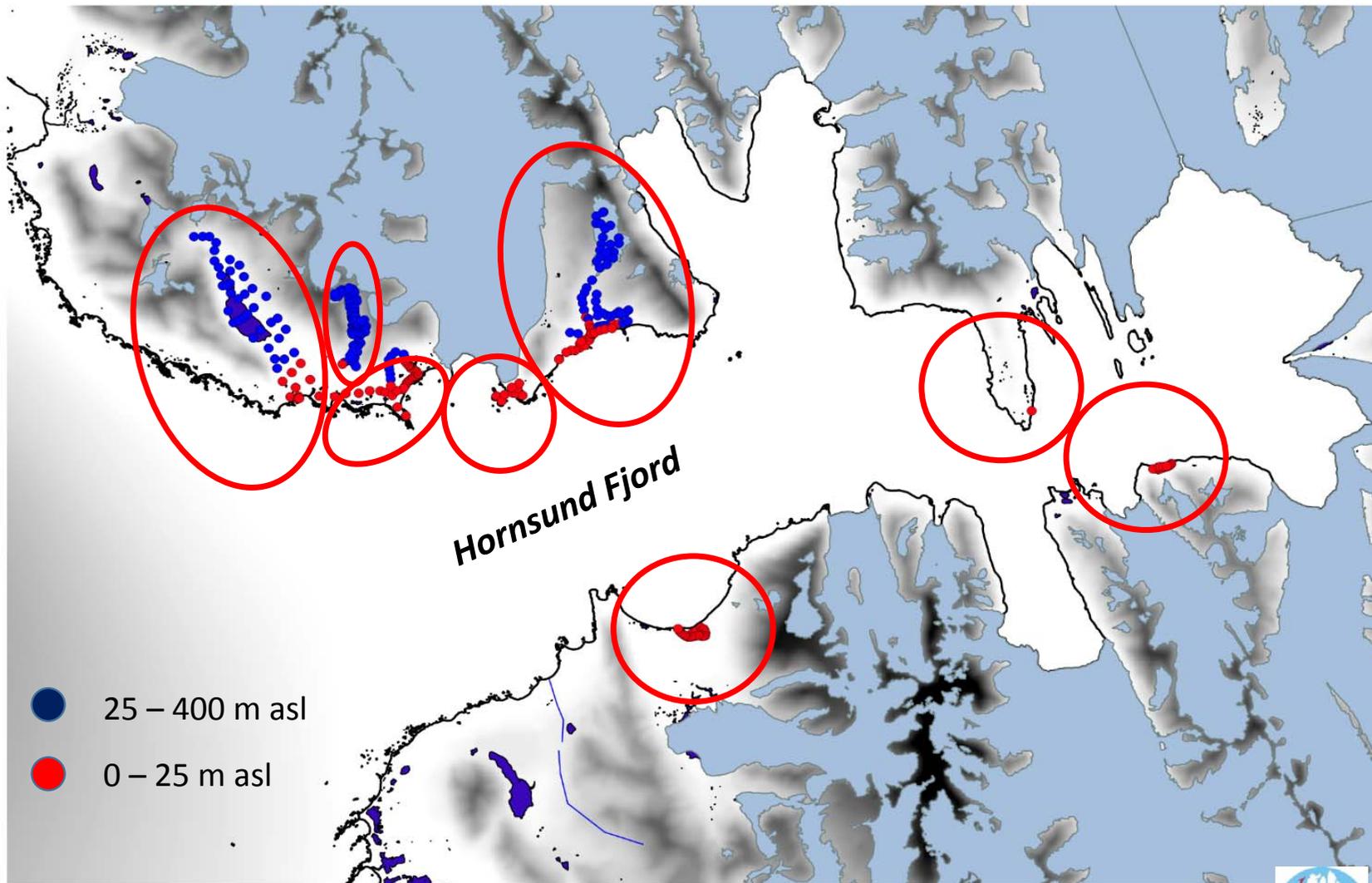
Tomasz Wawrzyniak



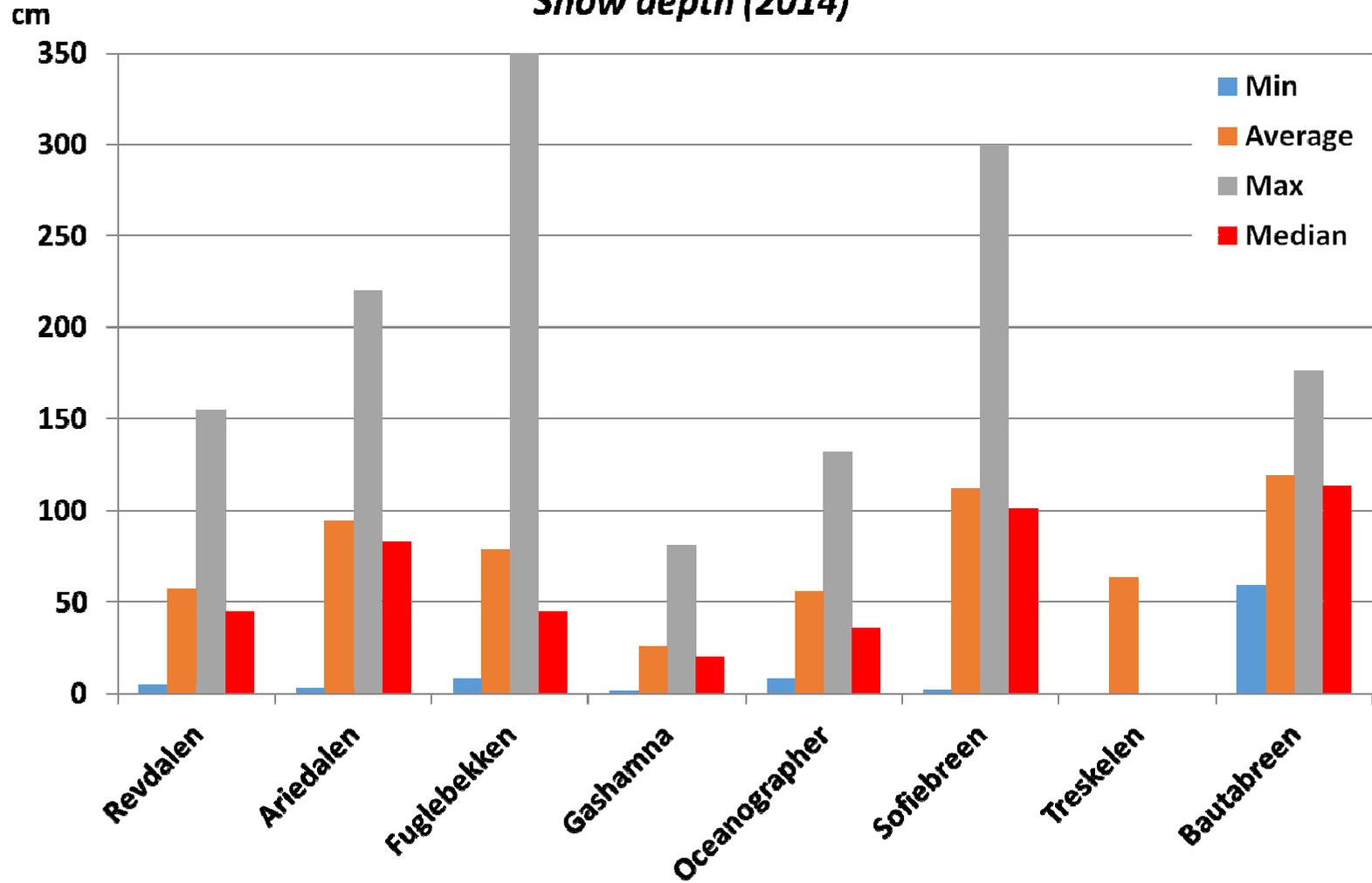
Adam Nawrot



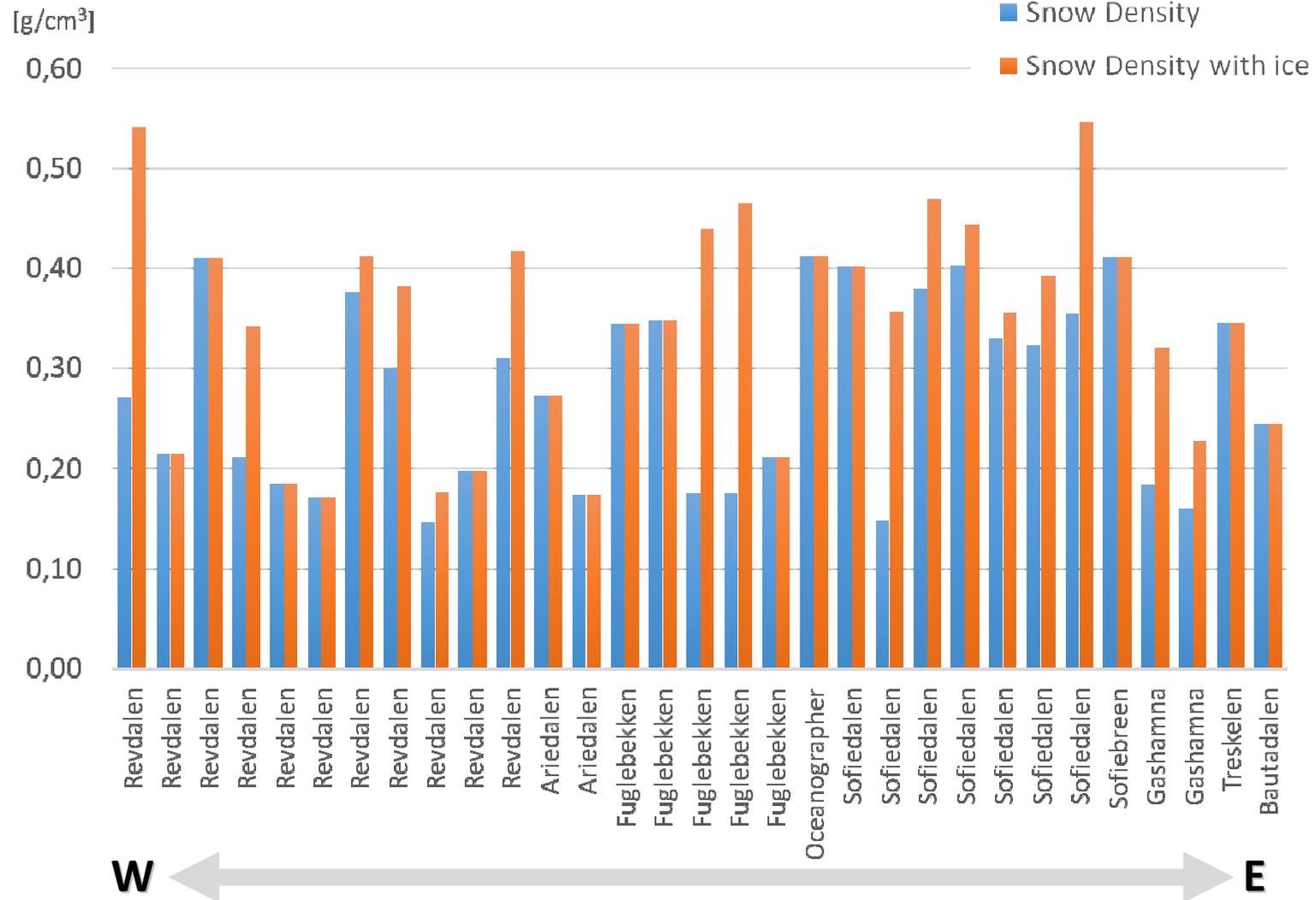
Tomasz Wawrzyniak



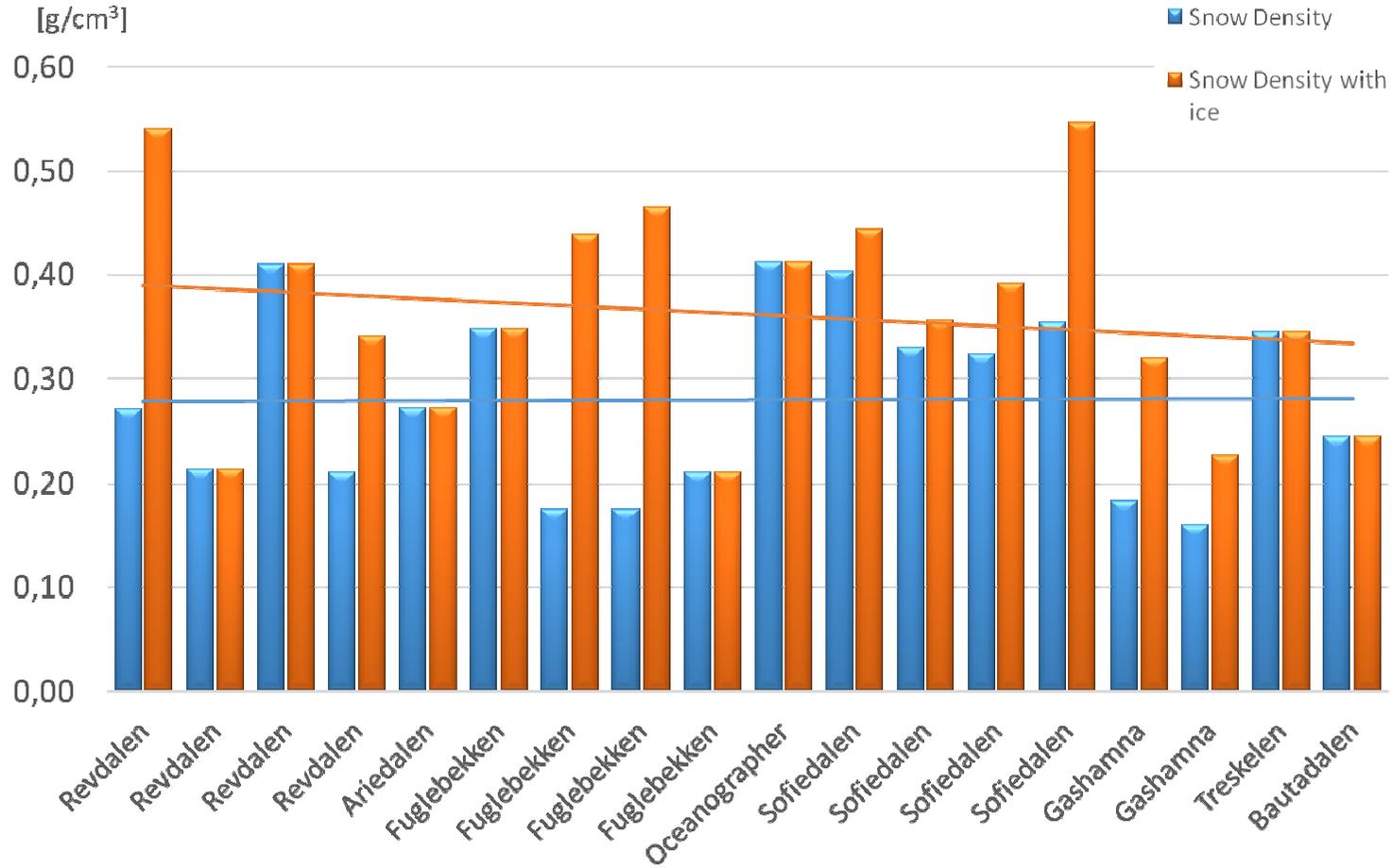
Snow depth (2014)

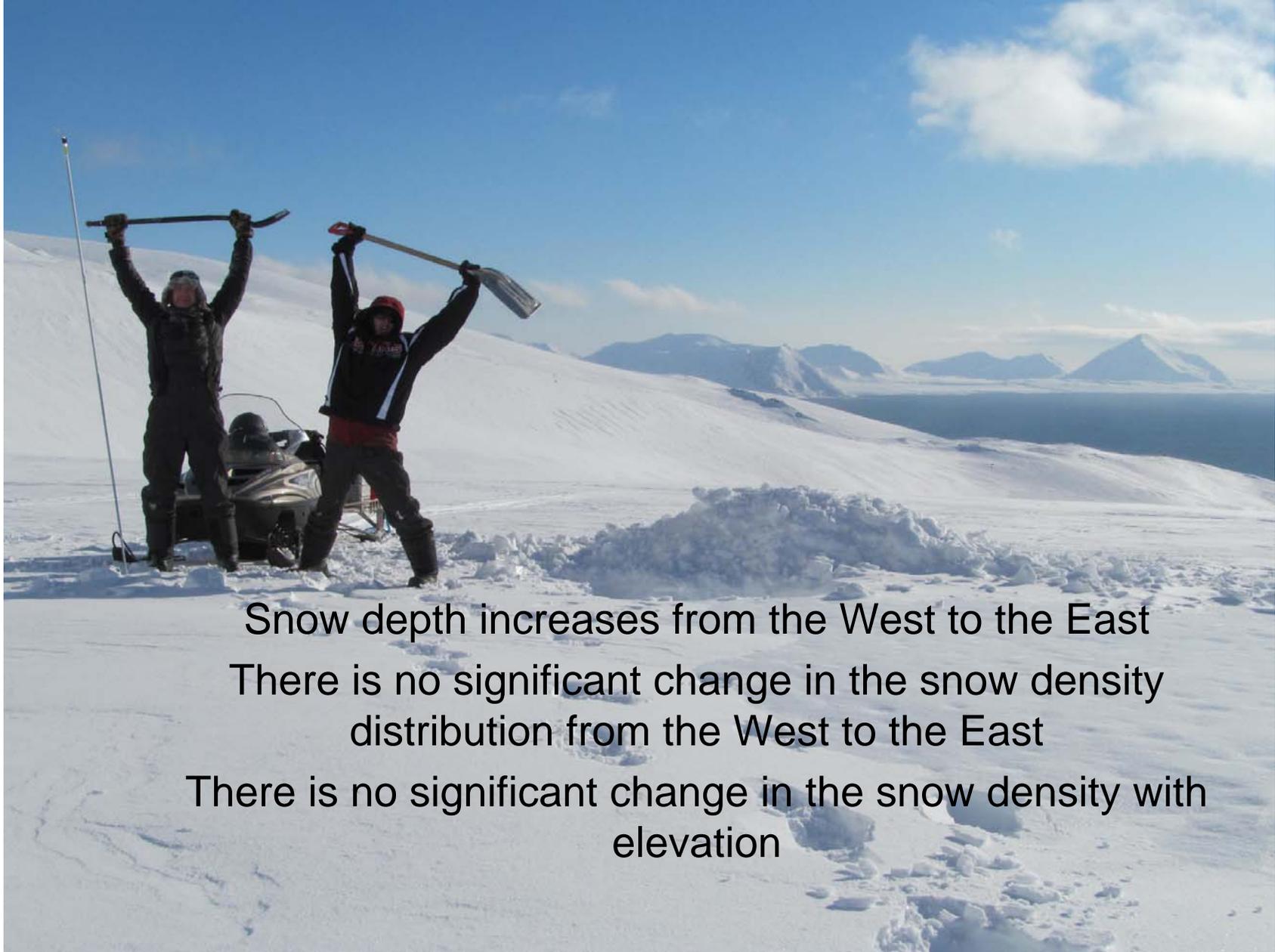


Mean snow density



Mean snow density up to 25 m asl

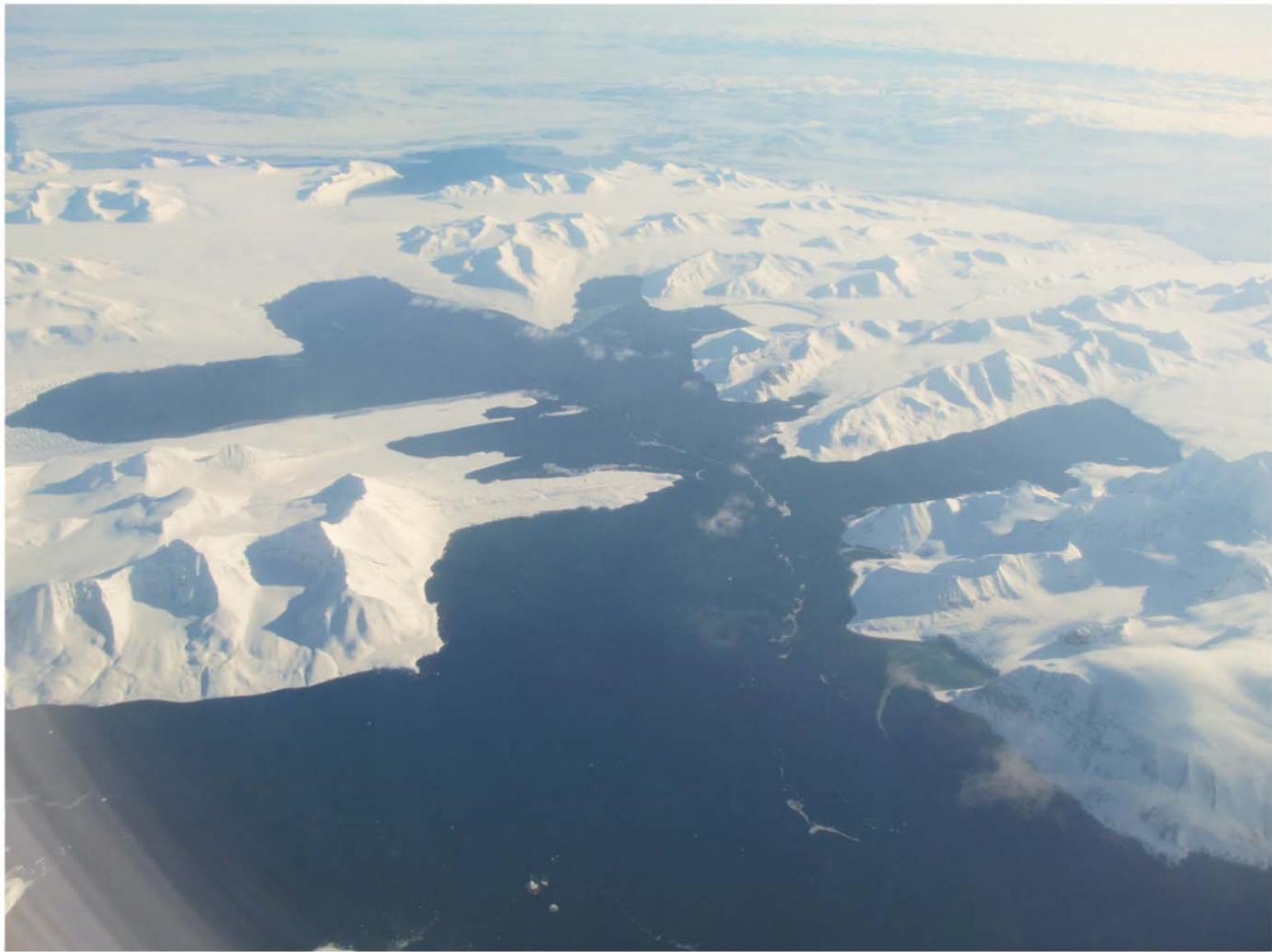




Snow depth increases from the West to the East

There is no significant change in the snow density distribution from the West to the East

There is no significant change in the snow density with elevation



"Arctic climate system study of ocean, sea ice and glaciers interactions in Svalbard area" - AWAKE2 (Pol-Nor/198675/17/2013) supported by the National Centre for Research and Development within the Polish-Norwegian Research Cooperation Programme.

