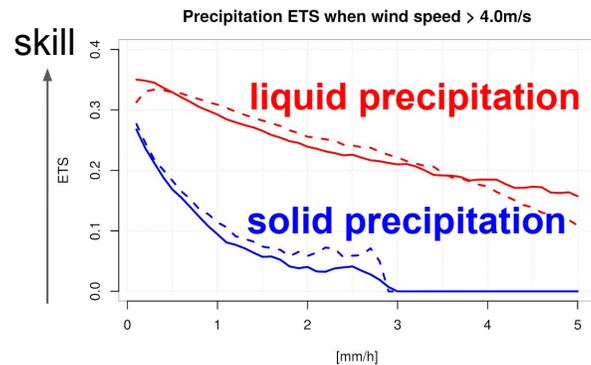
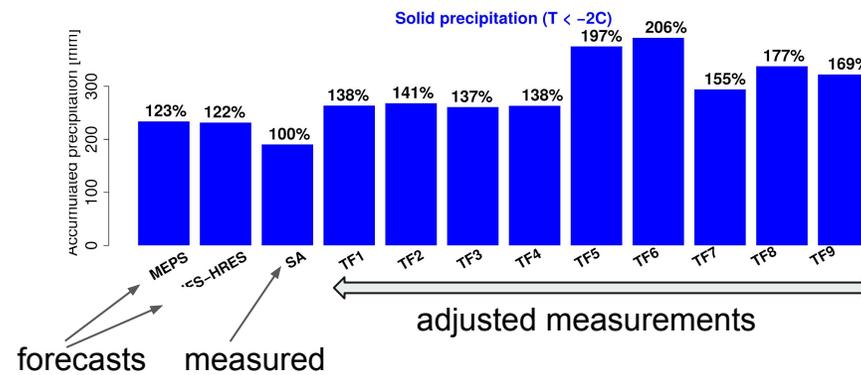


How well are Arctic precipitation predicted (and observed)?

The effect of wind induced undercatch of solid precipitation:



IFS-HRES (dashed), AROME (solid)



Adjusted precipitation are uncertain, but forecast bias change from positive to negative after adjustment



Haukelisetter test site (DFIR and SA Geonor, WMO SPICE)

All precipitation data sets have limitations, in particular in the harsh Arctic environment.

A sparse surface observation network with representativeness issues (point vs grid, not fully representative for the polar environment) and observational errors in particular for solid precipitation (e.g. undercatch, blowing snow, capping) make it challenging to assess the true quality of precipitation predictions at different time scales.