



Promoting Svalbard as a potential cal/val site for satellite missions

Mini-workshop will be conducted during Polar Night Week 2020 to facilitate interaction within participants and how their research activities can help promoting Svalbard as a potential cal/val site.

Duration: 15:00 AM to 17:00 Am (2 hrs) on 15th January 2020

Moderators: Anja Strømme (ESA) and Bo Andersen (SIOS-KC and NoSA)

Potential Participants: Open to all

Preliminary Agenda:

What is the importance of cal/val activities for satellite owners and for field scientists around Svalbard?

- a. Which kind of cal/val activities we as a Svalbard research community can propose to space agencies and other satellite owners?
- b. How shall SIOS together with field scientists promote research infrastructures from Svalbard to space agencies for targeting their cal/val activities in Svalbard?
- c. Which are the primary field activities and infrastructure here that will be useful for satellite owners.

Should it be a goal to make Svalbard a “supersite” for cal/val activities in the High Arctic?

- a. What are the advantages and challenges to make Svalbard as a potential site for cal/val?
- b. Should this work focus on all Svalbard or singular sites like Ny Ålesund and Nordaustlandet?
- c. Should both drone, aircraft and satellites be included in these activities?
- d. How is the data being collected by field scientists during field every year can be facilitated to be a part of cal/val activities?
- e. In terms of marine remote sensing applications, which cal/val activities shall be prioritized e.g. Validation of parameters retrieved using optical remote sensing data e.g. chlorophyll, CDOM, Phytoplankton, surface winds, validation of iceberg detection using SAR data, Validation of glacier velocity using stakes and laser scanner, new sensors onboard ships.

Should institutions or collaborations like SIOS do this work or should it be the responsibility of the field scientists?

- a. Who should finance these activities? Satellite owners or field scientists or others?
- b. If SIOS takes a lead role in facilitating and attracting cal/val activities, which kind of support we shall provide to satellite owners and field scientists? (financial, logistics, etc.)