

D3.4.1 Polar EO Needs

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WP 3 Satellite Remote Sensing of Arctic Surfaces

Task 3.4 Contribution to the strategic development of comprehensive EO in the polar areas

D3.4.1 Polar EO needs

The very low response to the web survey (M3.4.1) for user needs consultation lead to a rearrangement of the deliverables for the task. There is little use in having a D3.4.1 Polar EO needs document that iCupe should deliver, so the efforts will be targeted to a much more comprehensive D3.4.2 Polar EO opportunities deliverable. Here the November to December 2018 week was a very fortunate time as on two separate launches three small satellites were launched. Iceye sent their second under 100 kg SAR into orbit on the same SpaceX Falcon launch as the Suomi100 nanosatellite of Aalto University and the Finnish Meteorological Institute. Reactor Space Labs launched the Hello World hyper spectral nanosatellite into orbit a week earlier. These three Finnish satellites have all interesting and disrupting technologies and new service plans that could change Arctic information. On a three day Finnish satellite workshop in January 2019 all of them could demonstrate new capabilities already so soon after launch, that the iCupe report on opportunities can be extended significantly. For mapping the new opportunities against identified needs, FMI will use reports from the INTAROS project and reports for the ARCTIC IMAGER mission recommendations. FMI was involved in both actions and can draw on further expertise from these in-house.