



## 4<sup>th</sup> TDM Science Team Meeting

### Cryosphere Splinter

Application	Imaging Mode	Time Frame	Baseline	Coverage	Comments
Sea ice topography	Single+Dual Pol Stripmap	Not in summer Min. 3-4 acquisitions	huge	selected sites Northern Hemisphere in addition to existing test sites additional site with newer ICE e.g. North of Greenland, North of Swalbard	Deci- to Centimeter Elevation; Resolution More benefit with Groundtruth
Snow depth SWE	Pol-InSAR (DRA)	January-April, Time series 1-2 cycle step	long/huge	selected sites Scandinavia etc.	Not need for BiStatic
Surface Elevation / Mass balance / Drainage System	Single Pol Stripmap	Spring, Summer snapshot of one month repeated	Norm	Existing Super Test Sites, new Test Sites as well, (e.g. Russel Glacier)	More benefit with Ground-/Airborne measurement, e.g. with IceBridge or Polar5/6 from AWI Phase unwrapping important

Application	Imaging Mode	Time Frame	Baseline	Coverage	Comments
Ice classification	Dual / Quad Pol, Stripmap	Late Winter, early Spring	Normal; Long Alongtrack (low prio)	Existing Super Test Site (Alert); Additional test sites	Northern Hemisphere; More benefit with Ground-/ Airborne / Radarsat2 measurement (similar resolution)
Snow accumulation/Tomography			Set of different baseline	Inner Antarctica	More Details from AWI required (Wolfgang Dierk)