

**TABLE OF SPACE AGENCY COVERAGE COMMITMENTS<sup>1</sup>**

PROJECT	AGENCY(IES)	ACTION #	ACTION DESCRIPTION	LOCATION	STATUS
Permafrost	DLR, ASI	SAR CWG-3.7	Assess joint capability	Coldspots and transects proposed by Annett	
Permafrost	ASI		Look at possibilities for monitoring coastal erosion. Baseline once per year in high resolution.	Polar coastal regions	
Permafrost	CSA		Explore monitoring	ABOVE transect	No action because of unavailability of satellite resources and delay of terrestrial monitoring framework
Permafrost	ESA		Explore extensions of their acquisition plans for coastal erosion <sup>2</sup>	Coastal regions	<u>Observations with Sentinel-1:</u> - at least one coverage in Interferometric Wide Swath (IW) have

<sup>1</sup> As was discussed at the meeting on Nov 5 – 6, 2014, this refers to a commitment to investigate acquisitions, and if possible, execute them. We recognize that individual representatives cannot commit their agency without management approval.

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					<p>been achieved over all Permafrost areas worldwide. During routine operations, few coverage will be ensured, the mapping frequency depends on the area</p> <ul style="list-style-type: none"> <li>- North of Europe is systematically covered both in ascending and descending passes every 12 days in IW mode</li> <li>- some passes in Extra Wide Swath mode (EW) (polarization HH+HV) used for sea-ice monitoring have been (and still are) systematically extended over coastal land, over both Asia and North America.</li> </ul>
Permafrost	CSA		Explore possibility to cover	Middle Canada transect	No action because of unavailability of satellite resources and delay of terrestrial monitoring framework
Wet Snow	ASI, DLR		Assess coverage of Switzerland snow melt	Switzerland	

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<sup>2</sup> The small Norwegian transect is already covered by ESA.

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Wet Snow	ESA	SAR CWG-3.10	Explore possibility of extending coverage by Sentinel-1 of the European alpine region during the seasonal melt window (mid Feb – end May)	European alpine region	<p><u>Observations with Sentinel-1:</u></p> <p>A full mapping every 12 days in both ascending and descending passes was provided over the Alps; actually at these latitudes this represents all possible passes. Note that in practice some areas in the Alps may be affected partially by CAL/VAL activities making use of the CAL/VAL DLR site.</p>

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Ice Sheets	CSA	SAR CWG-3.2	Evaluate possibility of monitoring	Centre of Antarctica and parts of Greenland	An acquisition plan for Central Antarctica using RADARSAT-2 was created. It is a 3 year scenario that would provide a full coverage and focus annually on critical regions. The plan also incorporates ideas that have been discussed in previous CWG meetings (i.e. a spoke wheel approach in East Antarctica). The full plan was prepared in the acquisition planning tool. The first year was implemented and acquisitions were carried out between Jan and May. Once the data set is received and analyzed, recommendations will be made for possible Fall acquisitions to fill any gaps that may have occurred (limited scope). Based on this assessment we may have to revisit and refine the year 2 plan. A few selected areas in Antarctica were monitored with fine Wide data. A Greenland campaign (similar to 2014) was undertaken (best effort only with lots of expected conflicts).
Ice Sheets	CSA		Contemplate continued monitoring	Thwaites and Pine Island Glacier	See above

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Ice Sheets	ASI, DLR		Explore coverage	Antarctic pole hole	
Ice Sheets	DLR		Discuss continued coverage	Antarctica	