

Hatfield-1213: Identify ice thickness and status for travel safety

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Challenge

Challenge ID:	HCP-1213	Originator:	Onshore: Hatfield
Title:	Identify ice thickness and status for travel safety.		
Theme:	ON 1.2: Seismic Planning - Identification of adverse terrain for trafficability		
Consortium Lead:	RPS Group	Interviewed Company:	RPS Group
Geography:	ON.REG.03 - Canada		
Challenge Description			
What is not possible / not adequately addressed at present?			
Ice thickness is important for safety and access. Lake ice needs to be thick enough to support equipment. Sea ice needs to be grounded for safe travel.			
What effect does this challenge have on operations?			
Hazard and risk assessment is dependent upon up-to-date information on lake, river and coastal ice conditions.			
Thematic information requirements:	Water quantity		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Reconnaissance surveys and use a GPR for ice thickness and ice augering.			
What kind of solutions do you envisage could address this challenge?			
Map of Ice thickness for specific date in advance of field surveys.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Interested in potential solutions if timeliness and accuracy can be ensured.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Severe Mid-Latitude, Polar
Exploration:	3	Topographic class:	Snow/ice
Development:	1	Seasonal variations:	Colder weather focus
Production:	1	Impact area:	Health and Safety, Cost reduction
Decommissioning:	1	Technology urgency:	3 - Immediately (0-2 years)
Challenge Information Requirements			
Update frequency:	Snapshot to weekly		
Data currently used:	Reconnaissance, ice augering		
Spatial resolution:	Basin		
Thematic accuracy:	Not specific		

Required formats:	Not Specific
Timeliness (Vintage):	Within a month
Geographic extents:	Basin
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels