





Programme 29 October 2014						
Day 1: Wednesday, 12 November 2014						
	Introduction					
8:30	Yves Crevier	CSA, Canada	Welcome and introduction			
8:40	Bojan Bojkov	ESA, Italy	EO challenges in high-latitudes and the workshop objectives			
9:00	Guy Aubé	CSA, Canada	Downstream EO Products and Services for the Arctic: CSA Support for Canadian Governmental Organizations, Industry & Academia			
	User Perspectives - Chair: T. Puestow					
9:15	Dennis Nazarenko/ Bill Jefferies	LOOKNorth, Canada	The Growing Importance of Remote Sensing Derived Information to Northern Commercial Activities.			
9:35	Ulrika Willen	SMHI, Sweden	Using Arctic and high-latitude observational data for process studies and model evaluation at the Swedish Meteorological and Hydrological Institute (SMHI)			
9:50	James Snider	WWF, Canada	Use of remote sensing in WWF's Rapid Assessment of Circum-Arctic Ecosystem Resilience (RACER) tool for conservation planning in a rapidly changing Arctic			
10:05	Marcel Babin	Takuvik, Canada	Ocean color remote sensing for the study of Arctic marine ecosystems: I- Major research initiatives and scientific results			
10:20	Discussion					
10:45- 11:00	Coffee Break					
	Land Session (1/2)	- Chair: D. Peddle				
11:00	Derek Peddle	ATIC, U.Lethbridge, Canada	Remote Sensing of Northern Forest Tree Species Products and Validation using Spectral Mixture Analysis and Multi-Temporal Satellite Imagery, Northwest Territories, Canada			
11:30	Robert H. Fraser	CCMEO, NRCAN, Canada	Detecting Landscape Changes in High Latitude Environments using Landsat Trend Analysis: 1. Visualization			
11:50	Ian Olthof	CCMEO, NRCAN, Canada	Detecting Landscape Changes in High Latitude Environments using Landsat Trend Analysis: 2. Classification			
12:10	Peter White	CCRS, NRCAN, Canada	Hyperspectral Simulation of an Arctic Landscape with ISDASv2			
12:30	Discussion					
13:00- 14:00	Lunch					







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	Cryosphere Session (1/2) - Chair: B. Goodison					
14:00	Chris Derksen	Environment	Validation needs for microwave derived terrestrial			
		Canada	cryosphere products			
		Finnish	CAL-VAL Opportunities for Terrestrial Cryosphere			
14:20	Kari Luojus	Meteorological	Products at the Sodankylä Supersite, Northern			
		Institute, Finland	Finland			
		Stockholm	Error estimation in snow density sampling and its			
14:40	Pia Eriksson	University,	effect on validation of remotely sensed snow cover			
		Sweden.	products			
45.00		Finnish	From hemispheric snow cover products towards an			
15:00	Jouni Pulliainen	Meteorological	integrated view on the land cryosphere" - Remote			
		Institute, Finland	sensing & snow & carbon cycle			
15:20	Thomas Nagler	ENVEO, Austria	The Satellite Snow Product Intercomparison and			
15:40	Discussion		Evaluation Experiment – SNOWPEX			
15:50-	Discussion					
16:05	Coffee Break					
10.03	Lake and Coastal Session - Chair: C. Duguay					
	Claude Duguay	University of	Arctic Lake Ice Algorithms and Products: Progress			
16:05		Waterloo, Canada	and Prospects			
16:35	 Homa Kheyrollah CristinaSurdu Kyung-Kuk (Kevin) Kang 	University of Waterloo, Canada	 Pan-Arctic Land and lake surface temperature from AATSR and MODIS: Products development and evaluation Multi-sensor monitoring of ice regimes of High Arctic Lakes Improvement of MODIS snow products for Arctic lake ice 			
17:20	Emmanuel Devred	Takuvik, Canada	Ocean color remote sensing for the study of Arctic marine ecosystems: II - Algorithm development and data processing platforms			
17:40	David Barber/Kerri Ann Warner	University of Manitoba, Canada	On the Validation of Earth Observation Data for snow covered sea ice: Challenges and Opportunities			
18:00	Discussion					
18:30	End of day 1					
20:00	Optional dinner: At the Mills St. Pub					
20.00	Optional annier. At the Mills St. Pab					







		Day 2: Thursday	, 13 November 2014		
	Land Session (2/2) - Chair: A. Trishchenko				
8:45	Alexander Trishchenko	CCRS, NRCAN, Canada	Using VIIRS to extend MODIS long-term clear-sky composites over Canada		
9:15	Donald McLennan/ Katherine Wilson	CHARS, Canada	CHARS as a Science Partner for Coordinated Northern EO/RS		
9:35	Bahram Salehi	C-Core, Canada	Object-based land cover classification of Torngat Caribou Habitat in Quebec and Labrador, Canada using SPOT imagery and DTM data		
9:55	Wenjun Chen	CCRS, NRCAN, Canada	Challenges in monitoring Arctic plant growth and phenology using long-term remote datasets		
10:10	Elizabeth Hoy	NASA, US	Spaceborne Remote Sensing Requirements for the Arctic-Boreal Vulnerability Experiment (ABoVE)		
10:30	Discussion				
10:45- 11:00	Coffee Break				
	Atmosphere Session - Chairs: J. Drummond				
11:00	Kaley Walker	University of Toronto	Validation Capacity in the Canadian High Arctic: The Polar Environment Atmospheric Research Laboratory (PEARL)		
11:30	Ray Nassar	Environment Canada	Observing CO ₂ from a highly elliptical orbit for studies of the carbon cycle in the Arctic and boreal regions		
11:50	Zahra Vaziri	York University, Canada	Balloon demonstrator Imaging Fourier Transform Spectrometer for the measurement of methane and carbon dioxide over the Arctic		
12:10	Stella Melo	Environment Canada	Validation/Verification of the microphysical and dynamic characteristics of Arctic Cloud systems: what infrastructure is required to meet the challenge?		
12:30	Ralf Bennartz	University of Wisconsin, US	Measuring high-latitude precipitation and falling snow from space		
12:50	Discussion				
13:00- 14:00	Lunch				
	Cryosphere Session	(2/2) - Chair: C. Der	ksen		
14:00	Barry Goodison	GCW Steering Group, Canada	Global Cryosphere Watch (GCW): A Contribution to Arctic Products Validation and Evolution (APVE)		
14:30	Yi Luo/Lynn	Canadian Ice	Canadian Ice Service Satellite-based Ice		







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	Pogson	Service,	Monitoring: Optical Data Applications/ The	
		Environment	Regional Ice Prediction System (RIPS) version 2.1	
		Canada		
14:50	Kaan Ersahin	ASL Environmental Sciences Inc., Canada	Characterization of Hazardous Ice using Spaceborne SAR and Ice Profiling Sonar: Preliminary Results	
15:10	Naomi Short	CCRS, NRCAN, Canada	(3.10) Validation of DInSAR displacement measurements in permafrost environments	
15:30	Thomas Puestow	C-CORE, Canada	Polar View – Lessons Learned for the Validation and Evaluation of Operational Arctic Monitoring Services	
15:50	Discussion			
16:00- 16:15	Coffee Break			
16:45	Conclusions and recommendations – Way forward Chairs: B. Bojkov and Y. Crevier			
18:00	End			