

PAHA / CANDAC Workshop and CREATE Research Symposium May 11-12, 2015

Day 1 – Monday 11 May – AGENDA

Probing the Atmosphere of the High Arctic (PAHA) / CANDAC Collaboration Workshop

8:30 – 9:00 Continental Breakfast / Registration

9:00 – 9:25	Welcome and PAHA/ CANDAC Report James Drummond (PAHA PI)
9:25 – 9:45	Composition Measurements (CM) – Theme Update Kim Strong (PAHA Co-I)
9:45 – 10:00	The Environment Canada Carbon Assimilation System: recent developments Saroja Polavarapu (EC)
10:00 – 10:15	Measuring trace gas total columns at two Arctic sites using infrared emission spectroscopy Sophie Tran (PAHA PDF)
10:15 – 10:30	CANDAC Outreach Update Aubyn O'Grady (PAHA-Outreach)
Break (10:30 – 11:00)	
11:00 – 11:15	An Assessment of Satellite Observing Capabilities for CO ₂ and CH ₄ at High Latitudes Ray Nassar (EC)
11:15 – 11:40	Discussion of Composition Measurement Collaboration Opportunities – part I
11:40 – 11:55	Refurbishment of the Stratospheric Ozone Differential Absorption LIDAR in Eureka Alexey Tikhomirov(CANDAC/PAHA RA)
11:55 – 12:15	Update on Satellite Validation (SV) Theme Kaley Walker (PAHA Co-I)
12:15 – 12:30	The FIRR, a radiometer to study thin ice clouds in the Arctic Quentin Libois (Université du Québec à Montréal)
Lunch (12:30 – 13:30)	
13:30 – 13:45	PEARL Site Report Pierre Fogal (PEARL Site Manager)
13:45 – 14:00	Discussion of Composition Measurement Collaboration Opportunities – part II
14:00 – 14:15	Winter Polar Vortex Statistical Studies Chris Meek (CANDAC RA)
14:15 – 14:30	Measuring and modeling organic aerosols and elemental carbon : from megacities to the High Arctic Patrick Hayes (Université de Montréal)
14:30 – 14:45	Methane cross-validation between three Fourier Transform Spectrometers in the Canadian High Arctic Kaley Walker for Gerrit Holl (PAHA PDF)
14:45 – 15:00	The Relationship of Persistent Winter Cold Events in Eastern North America with Polar Vortex and Circulation Indices. Zhenhua Li (PAHA PDF)
Break (15:00 – 15:30)	
15:30 – 15:45	Discussion of Polar Night and Satellite Validation Collaboration Opportunities
15:45 – 16:00	Dynamics of the Neutral Thermosphere: Coupling through the Atmosphere William Ward (CANDAC Co-I)
16:00 – 16:15	First Look at High Speed Pressure and Temperature Measurements at the SAFIRE Flux Tower Glen Lesins (CANDAC/PAHA RA)
16:15 – 16:30	Discussion of International Collaboration Opportunities
16:30 – 16:45	PAHA / CANDAC Data Management Yan Tsehtik (CANDAC/PAHA Data Manager)
16:45 – 17:00	Summary of Collaboration Workshop and Steps Going Forward James Drummond
17:00 – 17:30	Informal Collaboration Discussions
17:30 - ?	CREATE Trainees Social Event – (at Yorkdale)

Day 2 – Tuesday 12 May – AGENDA	
NSERC CREATE Training Program in Arctic Atmospheric Science (AAS) Research Symposium	
8:30 – 9:00 Continental Breakfast	
9:00 – 9:10	Welcome and Introduction to the NSERC CREATE - AAS Research Symposium Kim Strong
9:10 – 9:30	Investigating potential sources of wet bias in the Purple Crow Lidar Jeff VanKerkhove (CREATE PhD student)
9:30 – 9:50	The Community Solar Tracker -- development of an open-design tracker Jonathan Franklin (CREATE PhD student)
9:50 – 10:10	Developing the analysis method to make the most of the CRL depolarization measurements Emily McCullough (CREATE PhD student)
10:10 – 10:30	Evaluation of different functions for merging the Purple Crow Lidar Rayleigh and Raman temperature climatologies. Ali Jalali (CREATE MSc student)
Break (10:30 – 11:00)	
11:00 – 11:15	A Microwave Satellite Water Vapour Column Retrieval for Polar Winter Conditions Chris Perro (CREATE PhD student)
11:15 – 11:30	The CRL Water vapour measurements of 2014 Canadian Arctic ACE Validation Campaign Shayamila Gamage (CREATE MSc student)
11:30 – 11:45	Composition and meteorological changes associated with a strong stratospheric intrusion event in Eureka Xiaoyi Zhao (CREATE PhD student)
11:45 – 12:00	Assessment of the Zaber motorized mirror mount in preparation for its autonomous use in the Purple Crow Lidar alignment system Shannon Hicks (CREATE PhD student)
12:00 – 12:15	Analyzing and interpreting ground based and satellite observation data using ERWIN, CMAM30 and the All Sky Imager Nayeob(Caroline) Gi
12:15 – 12:30	Recent trends and interannual variability of Arctic haze Auromeet Saha (CREATE PDF)
Lunch (12:30 – 13:30)	
13:30 – 13:45	Distribution of Gravity Wave Parameters over Eureka, NU using the All Sky Imager during 2009-2010 Chris Vail (CREATE MSc student)
13:45 – 14:00	Imaging mesospheric winds with the Michelson Interferometer for Airglow Dynamics Imaging Jeff Langille (CREATE PhD student)
14:00 – 14:15	Comparison between EC-CAS and TCCON CO2 products Sebastien Roche (CREATE PhD students)
14:15 – 14:30	A Study of Tides and Gravity Waves with ERWIN-II Sam Kristoffersen (CREATE PhD student)
14:30 – 14:45	A Star-Photometry Application to a Multi-Sensor Investigation of a High-Arctic Cloudy Event Liviu Ivanescu (CREATE PhD student)
14:45 – 15:00	Precipitation RS validation over Eureka and OC absorption detectability in the presence of weak, high-Arctic optical depths Jai Chaubey (CREATE PDF)
Break (15:00 – 15:30)	
15:30 – 15:50	Intercomparison of MUSICA and TCCON water vapour products Dan Weaver (CREATE PhD student)
15:50 – 16:05	FTIR measurements of biomass burning species from the 2014 Canadian wildfires Erik Lutsch (CREATE PhD student)
16:05 – 16:20	Ground-based Remote Sensing Measurements of Greenhouse Gases at Eureka. Joseph Mendonca (CREATE PhD student)
16:20 – 16:40	Use of starphotometer and moonphotometry as a means of extracting aerosol, Polar winter climatologies Norm O'Neill for Konstantin Babikov (CREATE PhD student)
16:40 – 17:00	Closing and Awards for CREATE Research Symposium Best Student Presentation Kim Strong