

PAHA / CANDAC Workshop and CREATE Research Symposium April 24-25, 2014

Day 1 - Thursday 24 April – 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 – 9:35	NSERC Climate Change and Atmospheric Research Initiative - Meeting the Challenge Dave Bowen (NSERC)
9:35 – 9:50	PEARL Site Report Pierre Fogal (PEARL Site Manager)
9:50 – 10:10	Composition Measurements (CM) – Theme Introduction and Summary Kim Strong (PAHA Co-I)
10:10 – 10:25	The EC Carbon Assimilation System and PAHA: opportunities for model validation Saroja Polavarapu (EC)
10:25 – 10:35	Measurements of atmospheric composition made with UV-VIS and FTIR spectrometers at PEARL Sophie Tran (PAHA PDF)
Break (10:30 – 11:00)	
11:00 – 11:15	Environment Canada work with satellite observations of CO ₂ Ray Nassar (EC)
11:15 – 11:30	Weather and air quality: some EC support and data uses Yves Rochon (EC)
11:30 – 11:40	Extending FTIR measurements and data retrieval with SFIT4 from Arctic sites Daphne Buiron (PAHA PDF)
11:40 – 12:05	Discussion of Composition Measurement Collaboration Opportunities – part I
12:05 – 12:20	Measuring Snow in the Arctic with a Bi-static X-Band Radar Dave Hudak (EC)
12:20 – 12:30	Precipitation retrievals over Eureka and high Arctic: Remote sensing techniques and in-situ meas. Jai Chaubey (CREATE PDF)
Lunch (12:30 – 13:30)	
13:30 – 13:45	A Re-Evaluated Canadian Ozonesonde Record: Changes in the Vertical Distribution of O ₃ – 1966 to 2012 David Tarasick (EC)
13:45 – 14:05	Discussion of Composition Measurement Collaboration Opportunities – part II
14:05 – 14:25	Polar Night (PN) – Theme Introduction and Summary Alan Manson (PAHA Co-I)
14:25 – 14:35	Interactions between polar vortex and oceanic oscillations: how they affect the weather in N.A. Zhenhua Li (PAHA PDF)
14:35 – 14:50	Satellite Validation (SV) – Theme Introduction and Summary Kaley Walker (PAHA Co-I)
14:50 – 15:00	Comparison between PEARL, GOSAT and ACE for methane measurements Gerrit Holl (PAHA PDF)
Break (15:00 – 15:30)	
15:30 – 15:45	Discussion of Polar Night and Satellite Validation Collaboration Opportunities
15:45 – 16:00	Coupling between the lower and upper atmosphere William Ward (CANDAC Co-I)
16:00 – 16:15	International Arctic Systems for Observing the Atmosphere Sandy Starkweather (NOAA Affiliate)
16:15 – 16:30	Eureka - a Reanalysis Hot Spot Taneil Uttal (NOAA)
16:30 – 16:45	Discussion of International Collaboration Opportunities
16:45 – 16:55	PAHA / CANDAC Data Management Yan Tsehtik (CANDAC/PAHA Data Manager)
16:55 – 17:15	Summary of Collaboration Workshop and Steps Going Forward James Drummond
17:15 – 18:00	Informal Collaboration Discussions
18:00 - ?	CREATE Trainees Social Event – Milestones Restaurant (at Yorkdale)

Day 2 – Friday 25 April – 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 – 9:25	E-AERI Measurements of Radiation and Trace Gas Variability at Eureka Zen Mariani (CREATE PhD student)
9:25 – 9:40	Characterizing water vapour measurements of the Purple Crow Lidar Jeff VanKerkhove (CREATE PhD student)
9:40 – 9:55	Solar tracker development in support of ground-based solar absorption spectrometry Jonathan Franklin (CREATE PhD student)
9:55 – 10:10	Measuring CO ₂ using a Ground-based FTIR Spectrometer Joseph Mendonca (CREATE PhD student)
10:10 – 10:30	Intercomparison of water vapour measurements at Eureka & Public outreach using social media Dan Weaver (CREATE PhD student)
Break (10:30 – 11:00)	
11:00 – 11:15	Improving Retrieval of Precipitable Water using Microwave Satellite Measurements in Arctic Chris Perro (CREATE PhD student)
11:15 – 11:30	Water vapour retrieval using Raman Lidar, Eureka Nunavut Shayamila Gamage (CREATE PhD student)
11:30 – 11:45	Aerosol and cloud identification using the MAX-DOAS and colour index at PEARL Xiaoyi Zhao (CREATE PhD student)
11:45 – 12:00	Calibrating the CRL for depolarization measurements Emily McCullough (CREATE PhD student)
12:00 – 12:15	An update on the Aerosol Optical Climatology over the high Arctic Auromeet Saha (CREATE PDF)
12:15 – 12:30	Extending & Merging the Purple Crow Lidar Temperature Rayleigh and Raman Climatologies Ali Jalali (CREATE MSc student)
Lunch (12:30 – 13:30)	
13:30 – 13:45	Gravity Waves observed using the PEARL All Sky Imager in 2008-2009 Chris Vail (CREATE MSc student)
13:45 – 14:00	Imaging winds in the upper atmosphere: Practical concerns and considerations Jeff Langille (CREATE PhD student)
14:00 – 14:15	Wind, Temperature, and Gravity Wave Measurements with ERWIN-II Sam Kristoffersen (CREATE PhD student)
14:15 – 14:30	The Eureka star-photometry challenges Liviu Ivanescu (CREATE PhD student)
14:30 – 14:45	Automating the Purple Crow Lidar Shannon Hicks (CREATE PhD student)
14:45 – 15:00	Investigation of Detector Behaviour At High Count Rates for the Purple Crow Lidar Ghazal Farhini (CREATE PhD student)
Break (15:00 – 15:30)	
15:30 – 15:40	Wave Signatures and Aliasing Issues Uma Das (CREATE PDF)
15:40 – 15:55	FTIR measurements of tropospheric species in high Arctic to investigate pollution events from fires Erik Lutsch (CREATE MSc student)
15:55 -16:10	Annual variations in CFC-11, CFC-12, and HCFC-22 in two polar sites Anthony Pugliese (CREATE MSc student)
16:10 – 16:25	New ozone profiles above Kiruna, Sweden Niall Ryan (CREATE PhD student)
16:25 – 16:40	Optical characterization of Polar winter aerosols and clouds 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