

| <b>CMOS</b>  | <b>51<sup>st</sup> Annual<br/>Congress,<br/>June 4-8</b> | <b>Hilton<br/>Downtown<br/>Toronto</b> |                         |
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| <b>POSTERS, Mon + Tues: 1708010</b>  |  |  |                         |
| <b>Abstract Title</b>  | <b>Presenter</b>   | <b>Poster<br/>Number</b>               | <b>Poster<br/>board</b> |
| Evaluate the surface coupling strength of a continental scale 4-km WRF regional climate simulation   | Yanping Li   | 1704020P01                             | 1 a                     |
| Application of CanESM2 to Project Future Soil Temperature at a Northern Quebec Location with Statistical Downscaling Model (SDSM) software | Andrew Leung   | 1704020P02                             | 1 b                     |
| Central U.S. WRF composite radar verification using MODE-Time Domain   | Jason Flemke   | 1704020P04                             | 2 a                     |
| The Lagrangian identification of moisture sources for precipitation over Western Canada  | Sopan Kurkute  | 1704020P05                             | 2 b                     |
| Carbon cycle feedbacks in the context of negative CO2 emissions  | Claude-Michel Nzotungicimpaye                            | 1704030P02                             | 3 a                     |
| Path Independence of Climate-Carbon Cycle Response Over a Broad Range of Cumulative Emissions  | Tyler Herrington   | 1704030P03                             | 3 b                     |
| Reductions in carbon budgets due to non-CO2 greenhouse gases   | Katarzyna (Kasia) Tokarska                               | 1704030P04                             | 4 a                     |
| Projecting yield change of canola on the Canadian Prairies under climate scenarios of the 1.5°C climate target                             | Budong Qian  | 1704030P05                             | 4 b                     |
| Nitrogen availability dampens optimism for the positive impacts of CO2 fertilization on carbon/water cycles                                | Liming He  | 1704030P06                             | 5 a                     |
| How much half a degree in global warming may affect the extreme precipitation change in China?   | Wei Li   | 1704030P08                             | 5 b                     |
| New blended sea ice thickness dataset  | Marie-Ève Gagné  | 1704040P01                             | 6 a                     |
| Uncertainty quantification of snow-related parameters in the Canadian Land Surface Scheme (CLASS)  | Bakr Badawy  | 1704040P02                             | 6 b                     |
| Assessing land-surface initialization in CanSIPS using bias-corrected operational GEM analysis.  | Manoj Nambiar  | 1704040P03                             | 7 a                     |
| Updating the Canadian Historical Snow Survey Dataset   | Anne Walker  | 1704040P04                             | 7 b                     |
| Impact of climate change on climate indices in latitudes across Canada   | Hussein Wazneh   | 1704050P01                             | 8 a                     |
| High Resolution Regional Climate Change Projections for Ontario  | Ziwang Deng  | 1704050P02                             | 8 b                     |
| Optimally Growing Initial Errors of ENSO in CESM Model   | Hui Xu   | 1704050P03                             | 9 a                     |
| Stratospheric polar vortex characteristics and winter temperature cold anomalies in North America  | Zhenhua Li   | 1704050P05                             | 9 b                     |
| High-Resolution Meteorological Surface Analysis using 2D-Variational Method  | Zhan Li  | 1704060P01                             | 10 a                    |
| A particle swarm optimizer based on directions and its application to the four dimensional variational data assimilation                   | Qin Zheng  | 1704060P02                             | 10 b                    |
| A New Targeted Observing Strategy based on Particle Filter and Its Application   | Wansuo Duan  | 1704060P03                             | 11 a                    |
| On the linearity of Arctic sea ice loss and doubled CO2 in a coupled system  | Paul Kushner   | 1704070P01                             | 11 b                    |
| Subseasonal Predictability over the United States assessed from Two Operational Ensemble Prediction Systems                                | Lei Wang   | 1704070P02                             | 12 a                    |

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| A New Index representing Circumglobal Variability   | Nicholas Soulard     | 1704070P03 | 12 b |
| Separating linear and nonlinear interference effects in stratosphere-troposphere interactions   | Chengzhu Xu          | 1704070P04 | 13 a |
| Modeling the Interannual Variability of Tornado Occurrences In North America: Influence of Madden-Julian Oscillation and El-Nino/Southern Oscillation                         | Vincent Cheng        | 1704070P05 | 13 b |
| Extended range forecast over East Asia during boreal summer using the ECCO monthly forecasting system   | Ping Liang           | 1704070P06 | 14 a |
| Barrier Effect of the Maritime Continent on the MJO in the in the Superparameterized CAM  | Teng Wang            | 1704070P07 | 14 b |
| Interannual variability of spring intraseasonal variability and Mei-Yu onset  | Yonghong Yao         | 1704070P08 | 15 a |
| Response of convection to large-scale forcings in spCAM5 and CanAM4   | Toni Mitovski        | 1704080P01 | 15 b |
| Evaluating cumulus entrainment retrieval methods using large-eddy simulation  | Sonja Druke          | 1704080P02 | 16 a |
| A novel convective scheme for the CAM4 AGCM and impacts on the tropical circulation.  | Shawn Corvec         | 1704080P03 | 16 b |
| Post-treatment of the Climate Forecast System Reanalysis (CFSR) daily precipitations across Canada  | Dikra Khedhaouiria   | 1704090P05 | 17 a |
| On the variability of upper-level winds over southern Ontario   | Peter Taylor         | 1704090P01 | 17 b |
| Trend analysis of long-term hydrometeorological time series in the Great Lakes Basin, with an emphasis in the Lake Huron-Michigan System.                                     | Vincent Cheng        | 1704090P02 | 18 a |
| Statistical Homogenization of Undocumented Monthly Temperature Data in British Columbia for Trend Analysis  | Yaqiong Wang         | 1704090P03 | 18 b |
| Nocturnal Relative Humidity Maxima above the Boundary Layer in the American Midwest   | Amanda Mercer        | 1704090P04 | 19 a |
| Assessing the consistency of temperature and precipitation between observations and gridded products across southern NWT, Canada  | Bhaleka Persaud      | 1704090P06 | 19 b |
| Projected changes of mixed precipitation over southern Quebec using high-resolution climate simulations.  | Dominic Matte        | 1704090P07 | 20 a |
| A comparison of the atmospheric response to sea ice loss in isolation among coupled climate models  | Stephanie Hay        | 1704090P08 | 20 b |
| Characteristics of Smog in Ontario  | Siliang Cui          | 1706010P01 | 21 a |
| Spectral analysis of large-scale meteorological patterns preceding summer ozone episodes and heat waves in North America  | Edward Charles White | 1706010P02 | 21 b |
| Health risk assessment of PM2.5 bound compounds in Windsor, Canada  | Yangfan Chen         | 1706010P03 | 22 a |
| Long Term Forecast and Modelling of South Athabasca Oil Sands and Provincial Emissions in Alberta   | Xin Qiu              | 1706010P04 | 22 b |
| Atmospheric Pollution in Coastal Environments: A Nova Scotia Perspective  | Aldona Wiacek        | 1706030P01 | 23 a |
| Modeling the impact of marine fugitive VOC emissions from the transport and handling of petroleum products on summertime ground level ozone in southwestern British Columbia. | Bruce Ainslie        | 1706030P02 | 23 b |
| Trace gas measurements by Open-path Fourier Transform Infrared (OP-FTIR) spectroscopy at Halifax, Canada: vehicles and ships emissions  | Li Li                | 1706030P03 | 24 a |
| Long term trends of sulphur dioxide emissions and ambient concentrations in Ontario, Canada   | Basith Weerasundara  | 1706030P04 | 24 b |

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| Monitoring trace gases in downtown Toronto using open-path Fourier transform infrared spectroscopy   | Brendan Byrne         | 1706030P05 | 25 a |
| Propagation and Directional Scattering of Ocean Waves in the Marginal Ice Zone and Neighbouring Seas   | Will Perrie           | 1707010P01 | 25 b |
| PEARL and YOPP   | James Drummond        | 1707010P02 | 26 a |
| The importance of detritus in idealized models of planktonic ecosystems  | Emilee Carson         | 1707020P01 | 26 b |
| Effects of moisture and precipitation in a simple model of baroclinic beta-plane turbulence.   | Eric Bembenek         | 1707020P03 | 27 a |
| Interpreting Changes in the Eddy Moist Isentropic Circulation to Surface Perturbations in a Relatively Simple Model  | Robert Fajber         | 1707020P04 | 27 b |
| The spontaneous radiation of spiral inertia-gravity waves and the imbalance in tropical cyclone-like vortices - Evidence from fully nonlinear simulations. | Konstantinos Menelaou | 1707020P05 | 28 a |
| Non-linear interactions between internal wave beams: beyond the traditional approximation  | Christian Ogbonna     | 1707020P06 | 28 b |
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| Atmosphere-Biosphere Interaction: A Quantitative Study of Ozone Dynamics over a Mixed Forest   | Shihao Wang           | 1707070P01 | 32 b |
| Grand Banks fog - a tale of cold air advection, turbulent mixing and radiative fluxes.   | Peter Taylor          | 1707080P01 | 33 a |
| Risk Forecasting in Harsh Offshore Environments  | Steven Beale          | 1707080P02 | 33 b |
| Forecasting Outdoor Residential Water Consumption using Ensembles of Regression Trees  | Valerie Platsko       | 1708010P02 | 34 a |

Exhibit Floor Plan  
June 2, 2017

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