Monday February 15th, 2021

** Please note that all times that are listed are in EST.

	Session I *Eric Donovan, Chair*
10:30	Opening Remarks and Tributes to Wallis & Tsuruda
10:50	Baraka, S., and R. Rankin ***Deriving the Earth's magnetopause shape in the equatorial plane under the influence of radial IMF as simulated by 3D Kinetic model.***
11:10	Arnal, J., and C. Groth ***Toward Heliospheric Data Assimilation of the Solar Wind: Results for One-Dimensional MHD Flows***
11:30	Robert Rankin, Wei Shen, and Dmytro Sydorenko ***The Ionospheric Feedback Instability: Problems and Alternatives***
11:50	Liang, J., D. Sydorenko, R. Rankin, and E. Donovan ***Modeling of ionospheric UV emission for the SMILE mission***
12:10	Meziane, K. A. Kashcheyev, P. T. Jayachandran, and A. M. Hamza ***An Empirical Model of Ionospheric Scintillation for the Polar Region***
	Break
	Session II *Kathryn McWilliams, Chair*
13:30	Babu, S., I. Mann, S. Dimitrakoudis, L. Ozeke, I. Rae, and A. Smith ***Probing the magnetospheric substorm onset mechanism using pitch angle resolved GOES satellite energetic particle data***
13:50	R. Ghaffari, C. M. Cully, and C. Gabrielse ***Whistler-mode Wave Generation and Pitch Angle Diffusion during Energetic Electron Injections***
14:10	Billett, D., G. Perry, L. Clausen, W. Archer, K. McWilliams, S. Haaland, and J. Burchill ***Large scale thermospheric density enhancements in relation to downward Poynting fluxes: Statistics from CHAMP, AMPERE and SuperDARN.***
14:30	Cameron, T., R. Fiori, and T. Thayaparan ***Effects of Ionospheric Disturbances on HF Radio Propagation Paths***
14:50	Connors, M., and E. Donovan ***Spectral Analysis of Pulsating Aurora Optical Emissions***
15:10	Chaddock, D., E. Donovan, E. Spanswick, R. Potter, M. Gillies, R. Rankin, F. Fenrich, J. Kuzub, K. McWilliams, M. Sohrabi, and I. Rosito ***AuroraX – A Scientific and Public Outreach Cyber Initiative***

Tuesday February 16th, 2021

	Session I *Rob Gillies, Chair*
10:30	Gillies, D. M., J. Liang, E. Donovan, and E. Spanswick ***The Apparent Motion of STEVE and Picket Fence Phenomena***
10:50	Fenrich, F., R. Rankin, D. Sydorenko, W. Archer, D. Knudsen ***Birkeland Current Boundary Flows Associated with Field Line Resonances***
11:10	Arnason, K., E. Spanswick, L. Behjat, and A. Fakheri Tabrizi ***Data Quality Validation of Ground Based Riometers***
11:30	Bland, C., and A. Kouznetzov ***Cosmic Ray Diurnal Variations during the Solar-Wind Disappearance Event in May 1999.***
11:50	Sanchez, D., N. Frissell, G. Perry, A. Coster, P. Erickson, W. Engelke, J. Ruohoniemi6, and J. Baker ***Using high frequency amateur radio transmissions to detect and study travelling ionospheric disturbances***
12:10	Mohandesi, A., D. Knudsen, S. Skone ***A Novel Approach to Study the Vertical Distribution of Multi-Scale Equatorial Ionospheric Irregularities Using High-Rate e-POP Measurements***
	Break
	Session II *Jun Liang, Chair*
13:30	Galeschuk, D., G. Hussey, D. Huyghebaert, A. Lozinsky, K. McWilliam ***Phase Calibration of the ICEBEAR radar using Cygnus A***
13:50	Huyghebaert, D., K. Mcwilliams, G. Hussey, A. Howarth, S. Erion, and P. Rutledge ***Comparisons Between E-region Coherent Scatter and Swarm-E Fast Auroral Imager Measurements***
14:10	Gillies, R., R. Varney, and E. Donovan ***Polar patches created by fast azimuthal flows observed by the RISR radars***
14:30	Prikryl, P., R. Gillies, D. Themens, B. Kunduri, R. Varney, and J. Weygand ***Polar cap patches, GPS TEC variations, and atmospheric gravity waves***
14:50	C. Watson, D. Themens, and P. Jayachandran ***Validation of High-Latitude Precipitation-Enhanced Ionosphere Density Profiles Derived from Satellite-Based UVI Imager Data***

Tuesday February 16th, 2021 (continued)

	Session III *Megan Gillies, Chair*
15:30	Goodwin, L., and G. Perry **Resolving F-region high-latitude plasma density structures and irregularity spectra using Resolute Bay ISR-Canada and Resolute Bay ISR-North measurements**
15:50	Lomidze, L., D. Knudsen, and M. Shepherd **Observation and Multi-model Analysis of Topside Ionosphere Equinoctial Asymmetry**
16:10	Cully, C., S. Lejosne, J. Ripoll, D. Turner, G. Reeves, D. Gillies, E. Donovan, E. Spanswick, and S. Thaller ***The association between slot-filling injections and subauroral (STEVE) emissions***

Wednesday February 17th, 2021

	Session I *Chris Cully, Chair*
10:30	Kouznetsov, A ***Quantum Mechanical Correction to the Photoelectron Stopping Power***
10:50	Pakhotin, I., and I. Mann ***Small-Scale Pedersen Conductance and Scale Height Passive Sounding using Swarm E- and B-field Observations***
11:10	Wu, J., and D. Knudsen ***Swarm observations of static and Alfvénic Electrodynamics in the Auroral Region***
11:30	Lozinsky, A., and G. Hussey ***ICEBEAR-3D Advanced Target Location and Identification Techniques***
11:50	Reiter, K., S. Guillon, M. Connors, and B. Jackel ***Impulsive Geomagnetic Events in the Auroral Zone***
12:10	Pandey, K., E. Eyiguler, D. Danskin, G. Hussey, and A. Yau ***RRI ellipticity angle investigations***
	Break
	Session II *Johnathan Burchill, Chair*
13:30	Liu, G. and R. Marchand ***Kinetic study of Langmuir probe using theoretical and regression approaches***
13:50	Shen, Y., D. Knudsen, and J. Burchill ***Micro-scale plasma heating in the topside ionosphere: Results from e-POP/Swarm-E***
14:10	Wilson, K., and J. Burchill ***Characterization of Ionosphere-Thermosphere Coupling from the VISIONS-2 Mission***
14:30	Zuber, S., J. Burchill, and D. Knudsen ***Assessing Cusp Core Plasma Heating with Visions-2***
14:50	Ghaly, F., E. Spanswick, and R. Gillies ***Investigating Riometer Capacity for Terrestrial HF Signal Monitoring***
15:10	Olowookere, A. and R. Marchand ***Density-temperature constraint from fixed-bias spherical Langmuir probes***
	Break
19:00	Social via Zoom

Thursday February 18th, 2021

	Session I *David Knudsen, Chair*
10:30	Eric Donovan ***Opening Remarks***
10:40	Donovan, E and the SMILE-UVI Team ***SMILE-UVI***
11:00	Mann, S ***The RADiation Impacts on Climate and Atmospheric Loss Satellite (RADICALS) Mission***
11:20	Sibeck, D. ***STORM: Opportunities for Joint Studies***
11:40	Therese Moretto Jorgensen, on behalf of the Daedalus Science Study Team ***Daedalus: a Candidate ESA Earth Explorer Mission for the Exploration of the Lower Thermosphere-Ionosphere***
12:00	Lynch, K. ***ARCS: Auroral Reconstruction CubeSwarm, a Heliophysics mission concept for a MIDEX opportunity***
	Break
	Session II *Andrew Yau, Chair*
13:30	Shepherd, M., D. Billett, G. Shepherd ***SuperDARN, WINDII and WACCM-X neutral and ion winds observed at high latitudes during geomagnetic disturbances***
13:50	Shepherd, G., and Y.-M. Cho ***A New Perspective on Observing Earth's Dayglow***
14:10	Parry, H., I. Mann, and R Holzworth ***On the Role of Lightning in Coupling Geospace and the Neutral Atmosphere Through the Excitation of the Ionospheric Alfvén Resonator***
14:30	Fraser, D., W. Ward, P. Preusse, C. Strube, S. Kristoffersen, and D. Gamblin ***Ray tracing of gravity waves in the northern polar MLT***

Thursday February 18th, 2021 (continued)

14:50	Ghadjari, H. *Analysis of Co-existence of Ionospheric Irregularities and Alfvénic Structures in the Equatorial Ionosphere*
15:10	Madhanakumar, M., A. Kashcheyev, and P. Jayachandran *On the Geometrical Dependence of Scintillation Indices*
15:30	M. Patrick, C. M. Cully, R. M. Millan, A. J. Halford, M. P. McCarthy *Retrieving Electron Precipitation Spectra from x-ray1Measurements using Constrained Tikhonov Regularization*

Friday February 19th, 2021

10:30	Pierre Langlois *GO-Canada Meeting*
	Break
13:30	Emma Spanswick *DASP Business Meeting*

Saturday February 20th, 2021

10:30	Student Workshop

GO-Canada Meeting Schedule

Start Time	Topic	Presenter
10:30	Welcome	P. Langlois
10:35	ICEBEAR (Ionospheric Continuous wave E-region Bistatic Experimental Auroral Radar) Radar Operations	G. Hussey
10:50	AUTUMN EAST-WEST	M. Connors
11:05	Canadian Array for Real-time Investigations of Magnetic Activity (CARISMA)- Next GENeration autonomous	D. Milling
11:20	Arctic Ionosphere Monitoring Canadian High Arctic Ionospheric Network (CHAIN)	P. Jayachandran
11:35	Canadian Array for Real-time Investigations of Magnetic Activity (CARISMA)	I. Mann
11:50	SuperDARN Canada National Research Facility	K. McWilliams
12:05	TREx-ASI	E. Donovan
12:20	Last thoughts	All

Friday, February 19th, 2021

DASP Business Meeting Schedule

Agenda for Canadian Association of Physicists' Division of Atmospheric and Space Physics (DASP) Business Meeting

19 Feb 2020 @ 11:30 – 1:30 MST
1:30 – 3:30 EST
2:30- 4:30 AST
and via Zoom (connection details to be provided)

Executive:	Chair	Emma Spanswick	(Meeting Chair)
	Vice-Chair	David Themens	
	Secretary	Robyn Fiori	(Meeting report)

1.	Approval of the agenda		(1 min)
2.	CAP 2021 program committee meeting	Emma Spanswick	(5 min)
3.	Membership status, financial status, and division fees	Robyn Fiori	(5 min)
4.	Reports by national representatives SCOSTEP COSPAR CAP-NSERC liaison committee International Union for Pure and Applied Physics URSI IAGA/IUGG GEM	 William Ward David Themens Andrew Yau John Manuel	(20 min)
5.	DASP representation on the CSA Planetary Exploration Consultative Committee (PECC)	Martin Connors	(15 min)
6.	DASP Student Workshop	Victoria Foss	(10 min)
7a.	Canadian Space Agency Report	John Manuel	(30 min)
7b.	Solar Terrestrial Science Roadmap & Lunar Gateway Priorities		
7c.	Q & A		
8.	DASP 2022 workshop venue	Emma Spanswick	(10 min)
9.	Any other business		
10.	Adjournment		

Student Workshop Schedule

Start Time	Session Name	Speaker Name
10:30	Space Weather in Canada	Dr. L. Nikolic
11:30	Convection in the ionosphere	Dr. K. McWilliams
12:30	Mass transport in the magnetosphere	Dr. E. Donovan
1:30	Lunch/Snack Break	-
2:00	Radiation belts	Dr. I. Mann
3:00	Electron precipitation and atmospheric chemistry	Dr. C. Cully

Saturday, February 20th, 2021