Sunday, 31 May

15:00  Registration opens
18:00  Ice-breaker
19:00  Evening buffet
Monday, 1 June

Chair  Steve Milan

09:00 Welcome and PI’s report
Mark Lester

09:40 Initial observation with the SuperDARN Hokkaido Pair of (HOP) radars
Nozomu Nishitani*, Tomoaki Hori, and SuperDARN HOP radars group

10:00 An update on the Svalbard SuperDARN radar
D. Lorentzen* and L. Baddeley

10:20 Break

10:50 A new European mid-latitude high frequency SuperDARN radar

11:10 AgileDARN: Overview and Development Schedule
Jingye Yan*, Xia Cai, Ailan Lan, Jiaojiao Zhang, Chi Wang

11:30 Reports from working groups

Operating Software working group report
J. M. Ruohoniemi

Data Analysis working group report
P. Ponomarenko

Scheduling working group report
G. Chisham

Spacecraft Working Group Report
K. Sterne*, J. Wild, J. M. Ruohoniemi, R. Fear, T. Hori

Data Distribution Working Group Report
K. Krieger*, K. Sterne, M. Freeman, P. Breen

12:30 Lunch
Chair  Suzie Imber

13:40  High-resolution vector velocity determinations from SuperDARN  
W. A. Bristow

14:00  Techniques to improve the angle-of-arrival calculations at high-frequency radars  
Angeline G. Burrell*, Stephen E. Milan, Timothy K. Yeoman, and Mark Lester

14:20  Using ray tracing to evaluate the performance of various methods for predicting the location of ionospheric scattering volumes and their refractive indices  
R. A. Greenwald* and N. A. Frissell

14:40  Effects of electric field component representation on estimated cross polar cap potential - Implications for interhemispheric asymmetries  

15:00  Break

15:30  Effect of ray and speed perturbations on ionospheric tomography by over-the-horizon radar: a new method, probably useful for SuperDarn too  
Corinna Roy, Giovanni Occhipinti*, Lapo Boschi, Jean-Philippe Moliné

15:50  Calibration of historic interferometry data  
P. Ponomarenko*, N. Nishitani, A. Oinats, T. Tsuya, and J.-P. St.-Maurice

16:10  Quantifying self-clutter in SuperDARN correlation functions  
Ashton S. Reimer*, Glenn C. Hussey

16:30  A new algorithm for determining SuperDARN elevation angles  
S. G. Shepherd

16:50  Ionospheric scattering observations using extended SuperDARN pulse sequences with multi-frequency Bayesian inference methods  
J. Spaleta*, J. Klein, W. Bristow

18:00  Dinner (College Court)

20:00

19:00  Working group meetings

21:00
Tuesday, 2 June

Chair  Tim Yeoman

09:00  An Improved SuperDARN Data Fitting Algorithm Enabling Signal-Derived Error Bars  
Ashton S. Reimer*, Glenn C. Hussey

09:20  Electric field mapping in the IGRF  
A. D. M. Walker

09:40  Inferring vertical plasma motion with SuperDARN?  
S. Haaland

10:00  Solar cycle variations in the northern polar ionosphere  
Angeline G. Burrell*, Timothy K. Yeoman, Stephen E. Milan, and Mark Lester

10:20  Break

10:50  Polar cap plasma density variations and their impact as scintillation sources  
L. B. N. Clausen*, J. I. Moen, Y. Jin, R. Chadwick

11:10  Stagnation of a polar cap patch and decay of the accompanying plasma irregularities  
K. Hosokawa*, J. I. Moen, J.-P. St-Maurice, K. Shiokawa, and Y. Otsuka

11:30  Long-term analysis of HF backscatter  
H.A. Lawal*, M. Lester, T.K. Yeoman and S. Imber

11:50  A unified view of favorable gradients in the lower ionosphere  
R. A. Makarevich

12:10  SuperDARN and GPS Observations of Traveling Ionospheric Disturbances  
E. S. Miller*, G. S. Bust, R. Nikoukar, S. G. Shepherd, J. M. Ruohoniemi

12:30  Lunch

Chair  Maria-Theresia Walach

13:40  TBD (invited)  
R. A. Horne

14:20  Swarm and ESR observations of the ionospheric response to a field-aligned current system in the high-latitude midnight sector  

14:40  On monitoring HF propagation conditions at high latitudes  
P. Ponomarenko* and J.-P. St.-Maurice
15:00  
*Break*

15:30  
**Poster session**

18:00  
*Dinner (College Court)*

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**Posters**

**P1**  
Experimental determination of the maximum range of the Buckland Park SuperDARN radar  

**P2**  
Effects of the 20 March 2015 total solar eclipse on the ionosphere-thermosphere system  

**P3**  
2-Parameter analysis software: A davitpy-based training tool for understanding how the time-dependent ionosphere impacts propagation and our measurements  
*Raymond A. Greenwald* and *Nathaniel A. Frissell*

**P4**  
Hemispheric asymmetry of the structure of dayside auroral oval and distribution of dayside auroral morphology  
*Ze-Jun Hu*, Yusuke Ebihara, Qiuju Yang, Hui-Gen Yang, Hong-Qiao Hu, Bei-Chen Zhang, Binbin Ni, Run Shi, and Trond S. Trondsen

**P5**  
The impact of solar wind co-rotating interaction regions on the dynamics of the neutral middle atmosphere  
*A. J. Kavanagh*

**P6**  
SuperDARN Hokkaido East radar observation of a possible SC-triggered wave event including FLR signatures  

**P7**  
Observations of Auroral Region Ion Outflow during the VISIONS Sounding Rocket Campaign  
*J. Klenzing* and *D. Rowland*, *R. Pfaff*

**P8**  
Near noon sunward flows: Are they strongest summer time?  
*A.V. Koustov* and *Z. Aliaboozadeh*

**P9**  
Interhemispheric comparison of seasonal mesospheric Ttdal activity observed by mid-latitude SuperDARN Radars  
P10 Cluster, Polar and SuperDARN simultaneous observations of cusp signatures in the northern and southern hemispheres
A. Marchaudon*, F. Pitout, K. J. Trattner, M. O. Chandler, S. Taïr

P11 A preliminary study on the polar ionosphere features during periods of radial Interplanetary Magnetic Field
M.F. Marcucci*, E. Amata, G. Consolini, M. De Lauretis, P. De Michelis, P. Francia, S. Massetti, G. Palocchia, and M. Regi

P12 Coordinated observations of Pc5 pulsation events using SuperDARN and magnetometer data
Z. Mtumela, J. A. E. Stephenson*, and A. D. M. Walker

P13 Pc5 observations at King Salmon HF Radar during CT-TRIG mode period
T. Nagatsuma

P14 Derivation of ionospheric currents and Joule heating rate in the polar region from IMAGE/FUV and SuperDARN
N. Ozaki, K. Hosokawa*, and Y. Ogawa

P15 Geolocating HAARP-induced backscatter
Timothy J. Palinski, Simon G. Shepherd*, and William A. Bristow

P16 Large-scale observations of ULF pulsations in the subauroral region associated with a moderate substorm

P17 Bayesian inference algorithm for SuperDARN rawACF fitting.
J. Spaleta*, J. Klein, W. Bristow

P18 Application of adaptive optics to scintillation correction in phased array high-frequency radar
T. E. Theurer and W. A. Bristow*

P19 Are steady magnetospheric convection events prolonged substorms?
M.-T. Walach*, and S. E. Milan
Wednesday, 3 June

Chair  Timothy David

09:00  Superposed epoch analysis of midlatitude plasma density variations driven by geomagnetic storms

09:20  Study of ionospheric disturbances using the remote HF wave receiver of the SuperDARN Hokkaido East radar: initial results
Nozomu Nishitani*, Ryusuke Kigawa, Yoshiyuki Hamaguchi, and Tomoaki Hori

09:40  HF radar for long-range monitoring of ionospheric irregularities in the equatorial region
R. T. Parris*, T. R. Pedersen, E. V. Dao

10:00  Break

10:20  SuperDARN-NATION observations of mid-latitude storm-time ion-neutral coupling

10:40  Dayside reconnection under IMF By dominated conditions: bending arcs, a reinterpretation
J. A. Carter*, S. E. Milan, R. C. Fear, A. Kullen, and M. Hairston

11:00  A test of ionospheric convection predictions from the expanding/contracting polar cap paradigm
M.-T. Walach*, and S. E. Milan

Workshop Excursion to Warwick Castle and Feast India

11:30  Collect packed lunch
12:00  Coach departs College Court for Warwick Castle
17:00  Coach departs Warwick Castle for Feast India
18:00  Coach arrives Feast India
21:30  Coach departs Feast India for College Court
Thursday, 4 June

Chair Angeline Burrell

09:00 Interhemispheric differences of the high-latitude ionospheric convection patterns deduced from Cluster EDI observations over a full solar cycle
M. Foerster* and S. E. Haaland

09:20 SuperDARN observations of ionospheric convection during a storm main phase
Jianjun Liu*, Hongqiao Hu, Qinghe Zhang, Desheng Han, Zejun Hu, Qiongqiong Liu

09:40 IMF-By dependence of transient ionospheric flow perturbation associated with sudden impulses: SuperDARN observations
T. Hori*, A. Shinbori, S. Fujita, and N. Nishitani

10:00 Characteristics of ionospheric convection associated with low-latitude aurora observed at Rikubetsu, Hokkaido during the 2015 March storm
Nozomu Nishitani*, Tomoaki Hori, Ryuho Kataoka, Yusuke Ebihara, and Kazuo Shiokawa

10:20 Break

10:50 Comparative space weather climatologies derived using the SuperDARN Map Potential algorithm.
A. Grocott*, J. A. Wild, G. Dorian, Y. Yamazaki, S. E. Milan

11:10 Birkeland currents and the auroral electrojets: observations and modeling

11:30 Mapping substorm-time convection using SuperDARN
H. Laurens*, A. Grocott

11:50 Dynamics of polar cap plasma convection during periods of northward IMF

12:10 Characterizing the spatio-temporal response of high latitude convection
R. A. Stoneback

12:30 Lunch
Chair Jenny Carter

13:40 The effect of different ionospheric electrodynamic patterns on the thermospheric state in a global model

14:00 Simultaneous ground-based optical and HF radar observations of the ionospheric footprint of open/closed field line boundaries along meridian line
X. Chen*, D. A. Lorentzen, J. Moen, K. Oksavik, L. J. Baddeley

14:20 Direct observations of the full Dungey convection cycle in the polar ionosphere for southward interplanetary magnetic field conditions

14:40 Maps of average ionospheric vorticity ordered by relationship with the open-closed magnetic field line boundary
G. Chisham

15:00 Break

15:30 EISCAT_3D: Next-generation incoherent scatter radar (invited)
I.W. McCrea, on behalf of the EISCAT_3D Consortium

16:10 The interaction between transpolar arcs and cusp spots
R. C. Fear*, S. E. Milan, J. A. Carter, and R. Maggiolo

16:30 Spatial and temporal structure of Pc5 ULF waves at high latitudes and in the polar cap
E.C. Bland*, A. J. McDonald, F. W. Menk and J. C. Devlin

16:50 Measurements of HF Radar Propagation from Low-Drag Satellites Flying Below The F-Region Ionosphere
Paul A. Bernhardt*, Carl L. Siefring, and Paul Oppenheimer

Workshop Dinner

18:00 Coach departs College Court for Great Central Railway
22:30 Coach departs Great Central Railway for College Court
Friday, 5 June

Chair  Mark Lester

09:00  The Charged Aerosol Release Experiment (Care II) for Investigation of Rocket Exhaust Interactions with the Ionosphere  
      Paul A. Bernhardt, Carl L. Siefring, Stanley J. Briczinski, Robert H. Hozworth, Wayne Scales

09:20  First results from coordinated studies between SuperDARN and e-POP  
      G.W. Perry, H. G. James, A. W. You, R. G. Gillies, and G.C. Hussey

09:40  Growth signature of omega band auroras  
      N. Sato, A. S Yukimatu, Y. Tanaka, T. Hori, A. Kadokura

10:00  Ionospheric signatures of Kelvin-Helmholtz waves at Earth’s dayside magnetopause  

10:20  Break

10:50  Outflow of heavy ions from the earth’s upper atmosphere  
      T.W. David, D.M. Wright, and S.E. Milan

11:10  The ERG project: Current status and related scientific activities  

11:30  Working group reports and discussion

12:30  Lunch and workshop ends