

VERSIM 2014 Timetable

Monday 20 January 2014

- 830-900 Pickup conference bags/name tags
- 900 Welcome and housekeeping discussion
- 920 Craig Kletzing (invited)
Initial results from the electric and magnetic field instrument suite and integrated science (EMFISIS) on the Van Allen probes
- 950 Adam Kellerman
Combining relativistic electron measurements from high-altitude equatorial and low-Earth orbiting spacecraft to study outer radiation belt source and loss processes from wave-particle interactions
- 1010 morning tea
- 1040 Jacob Bortnik
The development of a global, time varying distribution of chorus waves and its utility in modeling radiation belt acceleration events
- 1100 Ondrej Santolik
Propagation parameters of whistler-mode waves in the outer radiation belt: results from the Van Allen probes and Cluster
- 1120 Bruce Tsurutani
Extremely intense ELF magnetosonic waves and a possible new source for plasmaspheric hiss?: Polar observations
- 1140 Jacob Bortnik and Craig Rodger
The new SCOSTEP programme, SPeCIMEN (Specification and Prediction of the Coupled Inner-Magnetospheric Environment)
- 1200 break for lunch (buffet at Staff Club from noon)
- 1330 Yoshiharu Omura (invited)
Generation Mechanism of Whistler-Mode Chorus Emissions
- 1400 Anthony Chan
Simulation of radial transport, local acceleration, and loss in the radiation belts
- 1420 Bruce Tsurutani
Chorus properties: Importance for wave-particle modeling
- 1440 Etienne Koen
Simulations of Ion Acoustic Waves in Saturn's Magnetosphere
- 1500 afternoon tea
- 1530 Jacob Bortnik
Detection of resonant electron pitch angle scattering by whistler waves in a laboratory plasma

1550 Michael Rietveld
Powerful VHF radars, like EISCAT-3D, as a source of ELF/VLF waves

1610 poster session

Sandip Chakrabarti	Effective recombination coefficient and solar zenith angle effects on Low-latitude D-region ionosphere evaluated from VLF signal amplitude and its time delay during X-ray solar flares
Sandip Chakrabarti	Study of precursors of Earthquakes from Indian Centre for Space Physics
Mark Clilverd	Remote Sensing Space Weather Events Through Ionospheric Radio: The AARDDVARK Network
Kathy Cresswell-Moorcock	A reexamination of latitudinal limits of substorm-produced energetic electron precipitation
Steven Cummer	Sensitive measurement of lightning current and charge motion using coherent averaging of low frequency magnetic field observations
Fabien Darrouzet	Detection of whistlers by the Belgian VLF antenna: Statistical analysis and comparison with CLUSTER data and a plasmaspheric model
Etienne Koen	Simulations of oblique electrostatic wave propagation
Jyrki Manninen	Temporal change of VLF polarization: A case study
Claudia Martinez	Polarization analysis of VLF/ELF chorus waves observed during the VLF-CHAIN campaign at sub-auroral latitudes
Jason Neal	Empirical determination of solar proton access to the polar atmosphere
Frantisek Nemec	Satellite observations of quasi-periodic emissions
Rajesh Singh	Wave-like signatures in the low-mid latitude D-region ionosphere associated with 22 July 2009 total solar eclipse

1800 ice breaker BBQ at Unicol

Tuesday 21 January 2014

- 900 Neil Thomson (invited)
Height and sharpness of the ceiling of the Earth-ionosphere waveguide
- 930 Daniela Wenzel
Establishment of a 'Global Ionospheric Flare Detection System' (GIFDS)
- 950 Sandip Chakrabarti
Earth as a Gigantic detector: GEANT4/LWPC Simulation of X-ray Detection and Comparison with Observation
- 1010 morning tea
- 1040 Jean-Pierre Raulin
The South America VLF network: Extension and new results
- 1100 Israel Silber
Links between Mesopause Temperatures and Ground Based VLF Narrowband Radio Signals
- 1120 Kathy Cresswell-Moorcock
Detecting space weather events with subionospheric VLF observations
- 1140 Andy Smith

Two solar cycles of VELOX recordings at Halley, Antarctica

- 1200 break for lunch (buffet at Staff Club from noon)
- 1255 meet outside the St David Lecture Theatre for our Excursion (drive up Otago Peninsula, board Monarch to sail around Taiaroa Head, return to land and visit the Yellow Eyed Penguin reserve, probable quick look at the Otakou Marae, then reboard the Monarch for afternoon tea and sail back to Dunedin City, dropped off by the Harbour about 7pm).
Transfer back to the Physics Department is possible after the excursion.

Wednesday 22 January 2014

- 900 Steven Cummer (invited)
Measurements and implications of the source altitude of terrestrial gamma-ray flashes
- 930 Mike Kosch
Stratospheric Sprite Streamers
- 950 Sushil Kumar
Early VLF perturbations at low latitude in the South Pacific region: AWESOME and SOFTPAL observations
- 1010 morning tea
- 1040 Rajesh Singh
First Observations of TLE's and Gigantic Jet in Indian Sub-continent
- 1100 Hiroyo Ohya
Detection of daytime tweek atmospherics in Japan
- 1120 Steven Cummer
Modeling and measurements of very low frequency wave propagation through the ionosphere
- 1140 Ivana Kolmasova
Ground-based measurements of lightning induced signals related to the TARANIS mission
- 1200 break for lunch (buffet at Staff Club from noon)
- 1330 Mark Clilverd (invited)
Energetic electron precipitation from inside and outside of the plasmasphere during space weather events
- 1400 Aaron Hendry
Utilising POES satellite observations to estimate typical energetic particle fluxes for EMIC-wave driven precipitation events
- 1420 Craig Rodger
A statistical approach to determining energetic outer radiation-belt electron precipitation fluxes for ground based data

- 1440 Jason Neal
Long term determination of Variations in energetic electron precipitation into the atmosphere using AARDDVARK
- 1500 afternoon tea
- 1530 Ian Whittaker
Electron precipitation spectra – a global view using DEMETER and POES
- 1550 Craig Rodger
VLF Wave-driven energetic electron precipitation: Wave-particle interactions affecting the polar atmosphere
- 1610 Annika Seppälä
Impact of energetic particle precipitation on polar winter atmosphere and climate
- 1630 chance to quickly drop off your stuff at your accommodation (or store it in a locked room in the Physics Department)
- 1650 Depart from St David Lecture Theatre for Orokonui Ecosanctuary. Spend ~1 hour walking inside the sanctuary (self-guided), then return to the Ecosanctuary primary building for drinks and canapés on the deck followed by our meal. Transport provided back to the St David Lecture Theatre.

Thursday 23 January 2014

- 900 Michael Rycroft (invited)
The physics of lightning-induced electron precipitation (LEP)
- 930 Jyrki Manninen
Some simultaneous observations of VLF events at two receivers separated by 400km in longitude
- 950 James Brundell
UltraMSK: A narrowband subionospheric VLF radio receiver
- 1010 morning tea
- 1040 Neil Cobbett
An autonomous low powered phase stable VLF receiver designed for remote field operation
- 1100 Sandip Chakrabarti
Propagation Effects of VLF Signals in Earth-Ionosphere Waveguide During the Eclipses of July 2009 and January 2010
- 1120 Jyrki Manninen
Latest results from Finnish ELF-VLF campaign held in December 2013
- 1140 VERSIM Business Meeting
- 1230 break for lunch (buffet at Staff Club)

- 1400 Janos Lichtenberger
Plasmaspheric density models in whistler inversion and whistler-FLR cross calibration
- 1420 Daniela Wenzel
Topside ionosphere and plasmasphere electron energy density distribution from space based CHAMP and GRACE data
- 1440 Balazs Heilig
PLASMON FLRID: An automated detection of field line resonances
- 1500 Rajesh Singh
Geo-location and propagation features of very low latitude whistlers (L=1.08)
- 1520 Janos Lichtenberger
Plasmaspheric electron densities and plasmasphere-ionosphere coupling fluxes
- 1540 closing afternoon tea and departure
- Free time!