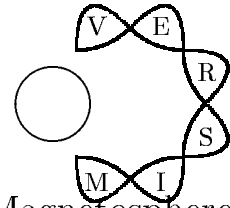


IAGA/URSI
Joint Working Group on



VLF/ELF Remote Sensing of the Ionosphere and Magnetosphere

Editor: A.J. Smith

Newsletter

No. 2 — July 1991

Dear colleagues,

20th IUGG General Assembly, Vienna: 11–24 August 1991

Symposium on Wave-induced Particle Precipitation

The main purpose of this newsletter is let you know about Symposium GAM 3.18 to be held at IUGG on the afternoon of 17th August 1991. The venue is Freihaus Room FH1. The session was proposed by this working group and is likely to be of interest to members. The programme is given below. As can be seen, it will be a packed session covering a variety of aspects of the WIPP phenomenon. It will include a number of presentations on new results from the CRRES satellite, as well as ground-based and theory work. We look forward to seeing you there.

ORAL SESSION (1330–1745)

Chairman: A.J. Smith

- 1330 **Structure of electrostatic emissions observed by the CRRES satellite** C.P. Paranicas, W.J. Hughes, H.J. Singer and R.R. Anderson.
- 1345 **Observations of pitch angle diffusion of electrons in the earth's outer radiation belts** A.D. Johnstone, D.M. Walton, M.A. Birdseye and D. Hardy.
- 1400 **Outer zone energetic electron response to the CRRES GTO chemical releases** A.L. Vampola, J.L. Roeder and A. Korth.
- 1415 **Simulations of whistler-wave induced auroral precipitation during the CRRES experiment** D. Schriver, P. Pritchett, M. Ashour-Abdalla and G. Haerendel.
- 1430 **Generation mechanism of plasmaspheric ELF hiss: a statistical study from GEOS 1 data** N. Cornilleau-Wehrin, J. Solomon, A. Korth and G. Kremser.
- 1445 **On the L-distribution of whistler-triggered VLF emissions** M. Hayakawa and K. Ohta.
- 1500 **Lightning-induced ionospheric disturbances measured as amplitude and phase changes of VLF signals propagating on collinear great circle paths** U.S. Inan.
- 1515 **Modeling of very low frequency wave propagation and scattering within the earth-ionosphere waveguide in the presence of lower ionospheric disturbances** W.L. Poulsen, T.F. Bell and U.S. Inan.
- 1530 **New opportunities of the VLF diagnostics of low ionosphere** A.E. Reznikov, D.E. Edemskii, B.S. Ryabov, A.Yu. Shchekotov and A.I. Sukhorukov.
- 1545 BREAK

Chairman: U.S. Inan

- 1600 **Coherent reception of trimpis on a seven-element, 1200 km array** R.L. Dowden, C.D.D. Adams and J. Brundell.
- 1615 **Lightning-induced electron burst precipitation at $L = 2-4$, in the vicinity of the Antarctic Peninsula** A.J. Smith, J.R. Robertson and P.D. Cotton.
- 1630 **The effect of magnetic field distortions on gyroresonance at low L-values** R.H.W. Friedel and A.R.W. Hughes.
- 1645 **Simultaneous disturbance of conjugate ionospheric regions by whistler-induced electron precipitation** W.C. Burgess and U.S. Inan.
- 1700 **A statistical survey of electron pitch angle distributions in the nightside central plasma sheet** J.F. Fennell, J.L. Roeder and T.F. Alsrue.
- 1715 **Estimated decay lifetimes for high energy RC protons in resonance with ducted plasmaspheric hiss** J.U. Kozyra, L.R. Lyons, R.H. Miller and E. Villalon.
- 1730 **Quasi-stationary and impulsive auroral electron precipitation due to whistler cyclotron instability** A.G. Demekhov.
- 1745 END

POSTER SESSION (Posters displayed 1300–1800)

- **Atmosphere light pulsations and their relation with geomagnetic pulsations IPDP, Pc1 in subauroral region** E.S. Barkova and S.I. Solovyev.
- **Observations of low latitude trimpis events at Durban ($L=1.7$) using an OMSKI receiver** R.H.W. Friedel and A.R.W. Hughes.
- **Study of low latitude whistlers and high frequency scintillation at Varanasi** R.P. Singh, A.K. Singh and R.N. Singh.

- **Whistler wave-particle interaction at low latitudes** R.P. Singh, U.P. Singh and Lalmani.

Meeting of the Working Group

At present we do not have a meeting of the group scheduled in Vienna, though we may arrange an *ad hoc* one, probably early in the second week of the Assembly please watch notice-boards and your pigeonhole for details. If any one has a subject relevant to the working group, which they would like to discuss at such a meeting in Vienna, for example to propose a symposium subject for the 1993 IAGA Assembly, or perhaps to propose a coordinated observational campaign, please contact one of us, preferably in advance of the Vienna Assembly.

Next newsletter

We will probably try to circulate a newsletter soon after IUGG. If anyone has any relevant news e.g. about their plans and activities in the 'VERSIM' field of work (especially anyone not able to attend IUGG) please send them to A.J. Smith at the address given below.

Changes of address

- Dr M. Hayakawa: University of Electro-Communications, Sugadaira Space Radio Observatory, 1-5-1 Chofugaoka, Chofu-city, Tokyo, 182, Japan.
- Dr L.R.O. Storey: NSSDC (Mail Code 930.2), NASA Goddard Space Flight Center, Greenbelt, MD 20817, USA.
- Dr O.M. Raspopov: LO IZMIRAN, 2 Linija 23, Leningrad 199053, USSR.

IAGA Co-chairman of the JWG:

A.J. Smith
British Antarctic Survey
High Cross
Madingley Road
Cambridge CB3 0ET, UK

Telephone: +44 223 61188
FAX: +44 223 62616
Telex: 817725 BASCAM G
Electronic mail:
CBS%UK.AC.NBS.VC::U_AJS
(SPAN ECD1::323AJS)

URSI Co-chairman of the JWG:

U.S. Inan
STAR Laboratory
Dept of Electrical Engineering
Stanford University
Stanford, CA94305, USA

Telephone: +1 415 723 4994
FAX: +1 415 723 9251
Telex: 348402 STANFRD STNU
Electronic mail:
INAN@STAR.STANFORD.EDU
(SPAN STAR::INAN)