

THE NAGATA SYMPOSIUM ON GEOMAGNETICALLY CONJUGATE STUDIES  
AND THE WORKSHOP ON ANTARCTIC MIDDLE  
AND UPPER ATMOSPHERE PHYSICS

**PROGRAM**

1. Nagata Symposium on Geomagnetically Conjugate Studies
  - 1.1 Geomagnetic conjugate phenomena of polar substorms. T. NAGATA (Japan). (Invited).
  - 1.2 Hemispheric circulation differences within the thermosphere. D. REES and T. FULLER-ROWELL (U.K.). (Invited).
  - 1.3 Geomagnetic conjugacy of electron and proton auroras observed at Syowa-Iceland conjugate pair stations near  $L=6.1$ . N. SATO, R. FUJII, T. ONO, H. FUKUNISHI, T. HIRASAWA, K. MAKITA, S. KOKUBUN, T. NAGATA (Japan) and Th. SAEMUNDSSON (Iceland).
  - 1.4 Conjugacies of pulsating auroras observed by all-sky TV cameras. R. FUJII, N. SATO, T. ONO, H. FUKUNISHI, T. HIRASAWA, S. KOKUBUN (Japan) and Th. SAEMUNDSSON (Iceland).
  - 1.5 Initial results of conjugate riometer observations at South Pole and Frobisher Bay. T. J. ROSENBERG (U.S.A.).
  - 1.6 Modulated ionospheric absorption unaccompanied by significant geomagnetic pulsation. S. KRISHNASWAMY (U.S.A.).
  - 1.7 VLF wave injection experiments from Siple Station, Antarctica. R. A. HELLIWELL (U.S.A.). (Invited).
  - 1.8 Periodic aspects of wave-associated conjugate burst precipitation events observed at Siple Station, Antarctica and in the North. W. C. ARMSTRONG, D. L. CARPENTER, L. J. LANZEROTTI, L. J. CAHILL, Jr., R. L. ARNOLDY, T. J. ROSENBERG, S. B. MENDE and J. H. DOOLITTLE (U.S.A.).
  - 1.9 Seasonal and diurnal variations of ELF-VLF emissions observed at conjugate pair stations near  $L=6.1$ . N. SATO and H. SUZUKI (Japan).
  - 1.10 Whistler mode signals from VLF transmitters, observed at Faraday, Antarctica. K. BULLOUGH, M. CLILVERD, N. T. HAJIAN, C. HOWE, A. J. SMITH, H. J. STRANGWAYS (U.K.), N. R. THOMSON (New Zealand) and K. H. YEARDY (U.K.).
  - 1.11 Magnetic conjugacy as observed at the apex of the field line: GEOS-2 results. R. GENDRIN, N. CORNILLEAU-WEHRLIN, D. FONTAINE, B. HIGEL, S. PERRAUT and A. ROUX (France). (Invited).
  - 1.12 Seasonal variations of Pc 1-5 magnetic pulsations observed at Syowa-Husafell conjugate-pair stations. N. SATO, H. SAITO, Y. SHIROKURA, Y. TONEGAWA, T. HIRASAWA and T. NAGATA (Japan).
  - 1.13 Conjugate studies of hydromagnetic waves. L. J. LANZEROTTI (U.S.A.). (Invited).
  - 1.14 A conjugate area study of ULF geomagnetic power at cusp latitudes. A. WOLFE, L. J. LANZEROTTI and C. G. MACLENNAN (U.S.A.).
2. Workshop on Antarctic Middle and Upper Atmosphere Physics
  - 2.1 The electrodynamics and magnetohydrodynamics of geospace. M. J. RYCROFT (U.K.). (Invited).
  - 2.2 The 1985-1986 South Pole balloon campaign. E. A. BERING, J. R. BENBROOK, J. M. HOWARD, D. M. ORO, E. G. STRANSBERRY, J. R. THEALL, D. L. MATTHEWS and T. J. ROSENBERG (U.S.A.).
  - 2.3 Auroral dynamics during the breakup phase of substorms. T. HIRASAWA and T. ONO (Japan).
  - 2.4 Monochromatic auroral images observed at Syowa Station. T. ONO, N. EJIRI and T. HIRASAWA (Japan).

- 2.5 Wave-induced burst particle precipitation effects observed at Antarctic stations by means of the Trimpf effect. U. S. INAN and D. L. CARPENTER (U.S.A.).
- 2.6 PCA effects on a VLF transantarctic propagation path. A. MENDES DA COSTA and L. RIZZO PIAZZA (Brazil).
- 2.7 Cosmic noise absorption phenomena at high latitudes. T. J. ROSENBERG (U.S.A.). (Invited).
- 2.8 Statistics of auroral radio absorption at Siple and South Pole. S. KRISHNASWAMY (U.S.A.).
- 2.9 Particle precipitation patterns in southern hemisphere high latitudes, longitude dependence. J. A. GLEDHILL (South Africa). (Invited).
- 2.10 Ionosonde measurements at Marsh, King George Island: First results. A. J. FOPPIANO (Chile).
- 2.11 First results from a comparison of the USU global ionospheric model and ground-based ionospheric measurements in the southern hemisphere. M. J. JARVIS (U.K.), F. T. BERKEY and J. J. SOJKA (U.S.A.).
- 2.12 MAP observations at Syowa Station in 1985. H. FUKUNISHI (Japan). (Invited).
- 2.13 Antarctic middle atmosphere (AMA) observations around Syowa Station. T. HIRASAWA and Y. IWASAKA (Japan).
- 2.14 The depletion of Antarctic ozone. S. SOLOMON (U.S.A.). (Invited).
- 2.15 A preliminary result of ozone vertical sounding at GDR Research Base (70.77°S, 11.83°E) from May 1985 to March 1986. P. PLESSING, H. GERNANDT and P. GLOEDE (G.D.R.).
- 2.16 Some experimental data of aerosol optical thickness over Antarctica during the polar summer 1984/85. U. LEITERER, H. GERNANDT and P. GLOEDE (G.D.R.).