

CEDAR POSTER PRESENTATIONS

June 19, 1991

Boulder, Colorado

We would like to thank all poster presenters. There was a large turnout, and judging from the titles the poster session will be quite informative and interesting. Posters will be displayed in the NIST building on Wednesday, June 19. Although the poster session is from 10:45 AM to 12:30, the posters can be mounted as soon as Tuesday afternoon, following the workshops, and can stay on until Thursday noon. NIST will open at 8:00 AM Wednesday for those who prefer to mount the posters at that time. There will be a prize awarded for best student poster. The winner will be announced on Thursday morning.

We have grouped the posters by subject matter. There are three categories, based on the altitude of the atmospheric region. The poster preview session will take place from 9:30 AM to 10:30 AM. The posters will be previewed in the same order as the poster number, and each preview is limited to two minutes.

A. COUPLING BETWEEN THE MESOSPHERE, STRATOSPHERE, AND TROPOSPHERE

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| A-1 Cohn, S.
(Haystack Observatory) | Radar observations of the energy spectrum of clear air turbulence |
| A-2 Fischer, K., V. Abreu, P. Hays, J. Barnes
(U of Michigan) | High resolution Doppler Lidar for wind measurements in the boundary layer |
| A-3 Barnes, J., V. Abreu, K. Fischer, W. Skinner
(U of Michigan) | New improved: high resolution Doppler Lidar for wind measurements |
| A-4 Yu, J., R. Alvarez II, and C. She
(Colorado State U) | Techniques for monitoring and characterizing the transmitter beam of a narrowband lidar |
| A-5 Machuga, D., D. Lysak, and C. Philbrick
(Penn State) | A direct Doppler detection LIDAR system for middle atmosphere winds |
| A-6 Collins, R.
(U of Illinois) | Lidar observations of the middle atmosphere at the South Pole |
| A-7 Rau, Y., and C. Philbrick
(Penn State) | Temperature measurements from a Raman scattering LIDAR |
| A-8 Stevens, T., P. Haris, and C. Philbrick
(Penn State) | Characterization of a Raman LIDAR system |
| A-9 Dewan, E., W. Pendleton, and N. Grossbard
(Phillips Laboratory) | Gravity wave spectra from ground-based OH mesospheric temperature measurements and interpretation via a cascade model |
| A-10 Huang, J. J. Yu, L. Caldwell, and C. She
(Colorado State U) | Initial nightly-averaged temperature profiles of the mesopause region at Fort Collins, CO |
| A-11 Turnbull, M., T. Killeen, R. Niciejewski
(U of Michigan) | Mesospheric wind measurements using a bare CCD |

B. COUPLING BETWEEN THE IONOSPHERE AND THERMOSPHERE

- B-1 Erickson, P., D. Farley, W. Swartz, M. Sulzer, C. Tepley, and R. Kerr
(Cornell)**
Simultaneous equatorial and mid-latitude incoherent scatter radar observations of density, drift, and thermal parameters
- B-2 Surucu, F., and E. Kudeki
(U of Illinois)**
Radar Interferometric imaging of field-aligned plasma irregularities in the equatorial electrojet
- B-3 Chen, C.-F., B. Reinisch, M. Buonsanto, J. Scali, B. Ward
(U of Lowell)**
Further comparisons of the electron density profiles observed by an ionosonde and incoherent scatter radar
- B-4 Groves, K., M.-C. Lee, and J. Foster
(Haystack Observatory)**
Ionospheric "lightning?" - Radar backscatter studies
- B-5 Zhang, Z., W. Wan, B. Reinisch
(U of Lowell)**
Single and multi-station digisonde observations of TIDs in northeastern America
- B-6 Gundlach, J., T. Marshall, C. Fesen, M. Larsen, I. Mikkelsen, and R. Roble
(Clemson U)**
Comparison of experimental and model gradients and winds at high latitudes in the mesosphere and lower thermosphere
- B-7 Hysell, D., C. Seyler, D. Farley, and S. Zargham
(Cornell)**
Simulation of VHF radar backscatter spectra from bottomside spread-F
- B-8 Li, Y., and R. Holzworth
(U of Washington)**
The amplitude profile of the lighting-generated VLF waves in the ionosphere
- B-9 Johnston, J., A. L. Broadfoot, and D. B. Hatfield
(U of Arizona)**
Nightglow Dynamics (from 3000 - 9200 Å): An application of the airglow spectrograph
- B-10 Link, R., D. Strickland, R. Cox, R. Barnes
(Computational Physics)**
Global modeling of the airglow and aurora
- B-11 Knutson, Deborah
(Whitworth College)**
Short period brightness fluctuations for 3 airglow emissions during AIDA
- B-12 J. Schoendorf, and G. Crowley
(University of Lowell)**
Neutral density structures in the high latitude thermosphere

C. COUPLING BETWEEN THE MAGNETOSPHERE AND THE IONOSPHERE/THERMOSPHERE SYSTEM

- C-1 Berg, G., M. Kelley, C. Kletzing, R. Doe, E. Weber, F. Primdahl
(Cornell)** Ionosphere-Magnetosphere coupling in a polar cap arc
- C-2 Valladares, C., Su. Basu, S. Basu, G. Crowley, B. Reinish, and J. Buchau
(Boston College)** Multi-technique observations of plasma and drift structures in the dayside cusp/cleft region during a CEDAR/STEP Campaign
- C-3 Wang, Z., D. Detrick, T. Rosenberg, K. Baker, R. Greenwald, J. Dudeney,
and P. Newell
(U of Maryland)** Imaging riometer and PACE HF radar measurements of cusp-related F-region structures
- C-4 Harris, D., and D. McEwen
(U of Saskatchewan)** A study of diffuse aurora: Intensity and morphology
- C-5 Minow, J., and R. Smith
(U of Alaska)** An optical remote sensing technique to obtain quasi-instantaneous ion convection patterns in the high-latitude ionosphere
- C-6 Weatherwax, A., J. LaBelle, M. Trimpi, and E. Olsen
(Dartmouth College)** Remote site monitoring of auroral radio emissions: preliminary results
- C-7 Nossal, S., J. Harlander, R. Reynolds, D. Schultz, and F. Roesler
(U of Wisconsin)** CHARM results in the context of exospheric Balmer-alpha intensity measurements over a solar cycle
- C-8 Carr, S., R. Niecejowski, and T. Killeen
(U of Michigan)** Fabry-Perot interferometer observations of OII (7320Å) emission from Sondre Stromfjord, Greenland
- C-9 Snell, H.
(U of Michigan)** The multiplex Fabry Perrot interferometer
- C-10 Trudell, E., T. Killeen, R. Niecejowski, J. Vickrey, E. Weber
(U of Michigan)** Observations of thermospheric dynamics from Sondre Stromfjord, Greenland, during the Rodeo, October 1990 Campaign
- C-11 Won, Y., T. Killeen, and R. Niecejowski
(U of Michigan)** Observations of the dynamics and thermodynamics of the polar cap at Thule Air Base, Greenland