Poster P2: Posters for Session S5 (E-region plasma physics)

#### EEJ features based on coherent radars soundings in the Brazilian sector

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#### Poster P2: Posters for Session S5 (E-region plasma physics)

In the present paper we present some features of the equatorial electrojet observed in the Brazilian sector based on the RESCO coherent radar observations. Some peculiar characteristics the equatorial electrojet are presented and discussed in terms of established concepts and theories, such as: the time of irregularities observation different, including later observations after the sunset; the center height of the scattering region and its variation as the electrojet departs from the radar site; the temporal variation of the amplitude oscillations in the echo signal. Also, the evening rising is presented in terms of its seasonal dependence, the altitudinal and time dependence of Gradient-Drift and Two Stream plasma irregularities observations are presented, and the East-West frequency and power asymmetries are shown in a comparative way to previous observations.

# 12<sup>th</sup> International Symposium on Equatorial Aeronomy



# **Book of Abstracts**



May 18 - 24, 2008. Crete, Greece

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## 12<sup>th</sup> International Symposium on Equatorial Aeronomy (ISEA –12)

ALDEMAR KNOSSOS CONFERENCE HOTEL Hersonissos, Crete, Greece May 18-24, 2008 ISEA-12 Program

17:28 – 17:40 Page 90	<b>E. S. Miller, J. J. Makela, R. L. Bishop, and P. R. Straus</b> <i>Multi-year study of the altitude distribution of scintillation-causing</i> <i>irregularities and gradients</i>
17:40 - 17:52	A. Bhattacharyya and B. Kakad
Page 91	Evolution of intermediate scale length equatorial spread F irregularities
17:52 – 18:04 Page 91	<b>J. A. Whalen</b> <i>The linear dependence of L-band scintillation on electron density</i> <i>observed in the anomaly</i>
18:04 – 18:16 Page 92	E. A. Kherani, E. R. de Paula, M. T. A. H. Muella, A. A. N. Campos, L. F. C. de Rezende, and P. F. Smorigo The large TEC fluctuations near the equatorial ionization anomaly during the equatorial spread F: observation from the GPS network over Brazil and simulation
18:16 – 18:28 Page 92	<b>P. C. Anderson and P. R. Straus</b> GPS occultation observations of equatorial scintillation: dependence on magnetic field orientation, longitude, and season
18:30	END OF SESSION
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Conveners	JP. St-Maurice and A. Bhattacharyya
Time:	All day Monday and Tuesday, May 19-20
Author Attendance :	Coffee breaks, 13:00 – 14:00 and 19:00 to 20:00
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S5 - P2- 01 Page 93	<b>V. Belyey, C. La Hoz, <u>J. Chau</u>, and H. Pinedo</b> <i>First 3-dimensional radar interferometry observations of equatorial E</i> <i>region irregularities at Jicamarca</i>
S5 - P2- 02 Page 93	<b>J. L. Chau, R. F. Woodman, and M. A. Milla</b> Perpendicular and off-perpendicular to B observations of 150-km echoes: evidence of meridional modulation and structure
S5 - P2- 03 Page 94	<b>E. A. Kherani, E. R. de Paula, and F. C. de Meneses Jr.</b> <i>The possible role of inter-hemispheric-field-aligned current for the</i> <i>generation of 150-km echoes</i>
S5 - P2- 04 Page 94	L. M. Kagan, R. S. Kissack, M. C. Kelley, and R. A. Cuevas Unexpected rapid decrease in phase velocity of sub-meter Farley- Buneman waves with altitude
S5 - P2- 05 Page 95	C. M. Denardini, M. A. Abdu, J. H. A. Sobral, C. M. Wrasse, H. C. Aveiro, P. D. S. C. Almeida, L. C. A. Resende, and Ê. P. A. Olívio EEJ Features Based on Coherent Radars Soundings in the Brazilian Sector

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