

Proceedings of the NIPR Symposium
on
Upper Atmosphere Physics
No. 12

Papers presented at the “21st Symposium on Coordinated Observations of the Ionosphere and the Magnetosphere in the Polar Regions” held at the National Institute of Polar Research, Tokyo, July 24–25, 1997

CONTENTS

Simulation on ring current formation: A case study of a storm on February 13, 1972	<i>Yusuke EBIHARA, Masaki EJIRI and Hiroshi MIYAOKA...</i>	1
Propagation of a quasi electrostatic whistler mode auroral hiss to the ground	<i>Toshio MATSUO, Toshihiro NISHIYAMA and Daisuke MATUBARA...</i>	12
Simultaneous observations of the aurora and of non-uniform thermospheric winds, from Poker Flat, Alaska	<i>Mark CONDE and Roger W. SMITH...</i>	30
Morphology of pre-noon and post-noon auroras	<i>Masaru AYUKAWA, Kazuo MAKITA, Masanori NISHINO, Pat NEWELL and Ching-I. MENG...</i>	39
Initial results of imaging riometer observations at polar cap conjugate stations	<i>Masanori NISHINO, Hisao YAMAGISHI, Natsuo SATO, Yasuharu SANOO, Ruiyuan LIU, Honquao HU and Peter STAUNING...</i>	58
Plasma and magnetic field impulsive variations in the duskside LLBL: A GEOTAIL observation	<i>Motoharu NOWADA, Tohru SAKURAI, Yutaka TONEGAWA, and Toshifumi MUKAI...</i>	73
Enhancement of the trapped radiation electrons at $6.6 R_E$ during the storm recovery phase—Results from GMS/SEM observation—	<i>Takahiro OBARA, Mitsue DEN, Tsutomu NAGATSUMA and Eiichi SAGAWA...</i>	86
Asymmetric auroral electrojet intensity at geomagnetic conjugate stations	<i>Kumiko HASHIMOTO and Natsuo SATO...</i>	94
Northern/southern hemisphere asymmetry of sc/si in the nighttime sector	<i>Kentarou KITAMURA, Kiyohumi YUMOTO and the 210° MM Magnetic Observation Group...</i>	108
Sunward flow of the dayside reverse convection for northward interplanetary magnetic field	<i>Satoshi TAGUCHI and Masahide WARASHINA...</i>	115

Sodium lidar system for observing Antarctic mesopause temperature over Syowa Station	.....<i>Takuya D. KAWAHARA, Tsukasa KITAHARA, Fumitoshi KOBAYASHI, Yasunori SAITO and Akio NOMURA...</i>	121
Vertical attenuation rate of atmospheric gravity waves in the lower- <i>F</i> region observed with the EISCAT radar (extended abstract)	.....<i>Takashi SHIBATA, Ryoichi FUJII and Kristian SCHLEGEL...</i>	131
Dayside neutral winds in the quiet <i>E</i> -region deduced from the EISCAT radar data (extended abstract)	.....<i>Sawako MAEDA, Hitoshi FUJIWARA and Satonori NOZAWA...</i>	138
Fabry-Perot Doppler imaging observations at Syowa Station, Antarctica (extended abstract)	.....<i>Takeshi SAKANOI, Hiroshi FUKUNISHI and Shoichi OKANO...</i>	144
Fast equatorward separatrix motion in the nightside ionosphere just prior to substorm onsets (extended abstract)	.....<i>Masakazu WATANABE, Michael PINNOCK, Alan S. RODGER, Natsuo SATO, Hisao YAMAGISHI, A. Sessai YUKIMATU, Raymond A. GREENWALD, Jean-Paul VILLAIN and Marc R. HAIRSTON...</i>	148
Time evolution of global equivalent current system associated with partial ring current (extended abstract)	.....<i>Toshihiko IYEMORI, Ryokei YOSHIMURA, Huigen YANG, Miki KONO, Masahiko TAKEDA, Toyohisa KAMEI, Masahito NOSE, A. Sessai YUKIMATU and Hermann LÜHR...</i>	156
Possible plasma dynamics in nighttime magnetosphere associated with Pi 2 onset as observed from dip-equator (extended abstract)	.....<i>Osuke SAKA, Hajime AKAKI, Osamu WATANABE, Manabu SHINOHARA, Kohta OKADA and D. N. BAKER...</i>	162
Where is the current disruption set up? (extended abstract)	.....<i>Kohta OKADA, Osamu WATANABE and Kiyohumi YUMOTO...</i>	167
A proposal to watch southern hemispheric noctilucent clouds with CCD imagers (extended abstract)	.....<i>Takuya SUGIYAMA, Masaki TSUTSUMI, Takuji NAKAMURA and Shoichiro FUKAO...</i>	172
Imaging observation of conjugate auroras from a lunar orbiter (extended abstract)	.....<i>Makoto TAGUCHI, Masaki EJIRI, Shoichi OKANO, Takuya D. KAWAHARA, Masaki OKADA and Masato NAKAMURA...</i>	175
Program of the 21st Symposium on Coordinated Observations of the Ionosphere and Magnetosphere in the Polar Regions	177	
Author index	180	