第 77 回生存圏シンポジウム
CAWSES 国際シンポジウム
International CAWSES Symposium

2007(平成 19)年 10 月 23 日(火)～10 月 27 日(土)
場所: 京都大学百周年時計台記念館　百周年記念ホール

Oral Program:

●Tuesday, October 23 (A)

Opening Session (Chair: Tatsuki Ogino, Yoshiharu Omura)

9:15 OS-1 Lecture on CAWSES

Susan Avery

Keynotes (Yoshiharu Omura, Takahiro Obara)

10:30 K1-1 Evidence for Solar Forcing: Some Selected Aspects

Juerg Beer

11:10 K1-2 Winter Variability in the Stratosphere: Coupling between the Artic and the Tropics

Karin Labitzke

11:50 K1-3 Hinode "A New Solar Observatory in Space"

Saku Tsuneta

12:30 *Lunch*

Session A11 Solar and Space Variability (Chair :Yukihiro Takahashi)

1:30 SA11I-1 Diagnostics of Solar Subsurface Weather by Helioseismology

A. Kosovichev

1:50 SA11I-2 CME 3D Reconstructions Using Solar Mass Ejection Imager and Interplanetary Scintillation Data and Extrapolation to Ulysses

B. V. Jackson, P. P. Hick, A. Buffington, M. M. Bisi, E. A. Jensen, M. Kojima, M. Tokumaru

2:10 SA11I-3 Solar Irradiance Variations: from Days to Millenia

Y. C. Unruh and S. K. Solanki

2:30 SA11-1 Flare-CME Geometry in the Longitudinal Direction

S. Yashiro, N. Gopalswamy, G. Michalek, H. Xie, S. Akiyama, R. A. Howard

2:45 SA11-2 A Forecasting Study of the Dynamic Heliosphere Using Solar and Solar Wind Observations

H. Washimi, P. Z. Gary, H. Qiang, T. Tanaka

3:00 SA11-3 A Systems Approach Toward Solar-Terrestrial Research as Facilitated by CAWSES Campaigns

G. Lu

3:15 SA11-4 Radio-Optical Mechanism for the Solar and Mangetospheric Influence on the Weather and Climate

S. V. Avakyan, N. A. Voronin

3:30 SA11-5 CAWSES - India : An Overview

P. B. Rao, R. Sridharan, S. C. Chakravarty, K. G. Rao

Session A12 Short-term Solar Influence on Earth's Environment (Chair: Kiyotaka Shibata)

4:40 SA12I-1 Sun-Earth Coupling by Energetic Particles

C. E. Randall, S. M. Bailey, V. L. Harvey, C. H. Jackman, H. Liu, D. R. Marsh, M. Mills, D. E. Siskind

5:00 SA12I-2 Cosmic Rays and Climate

T. Bondo

5:20 SA12I-3 Global Electric Circuit Linking Solar Activity and Cosmic Rays to Clouds and Climate

B. A. Tinsley

5:35 SA12-1 Global Synchronization of Lightning Activity with a Cycle of One Month

Y. Takahashi, O. Yoshitaka, M. Sato, H. Miyahara, K. Sakanoi, T. Adachi, H. Fukunishi, R.-R. Hsu, H.-T. Su, A. B.-C. Chen, S. B. Mende, H. U. Frey, L.-C. Lee

5:50 SA12-2 Response of a Global Circuit Model with Stratospheric Aerosol to Solar Activity

L. Zhou, B. A. Tinsley, X. Zheng

6:05 SA12-3 Cosmic Rays and Variations of Aerosol Optical Depth

I. A. Mironova

6:20 SA12-4 Laboratory Studies of the Atmospheric Photodissociation Processes Largely Affected by Intensity Variations of Solar Ultraviolet Radiation during Solar Cycles

K. Takahashi, T. Nakayama, Y. Matsumi

6:35 SA12-5 Can We Empirically Distinguish Solar from Anthropogenic Forcing of Climate?

J. Feynman, A. Ruzmaikin, Y. L.Yung

●Tuesday, October 23 (B)

Session B11 Observations of Solar-Terrestrial Environment I (Chair : Brigitte Schmieder)

1:30 SB11I-1 Enhanced Heating near the Footpoints of Coronal Loops in Solar Active Regions

H. Hara, L. K. Harra

1:50 SB11I-2 An Investigation into the Initiation Mechanism of a Solar Flare Based on the Observed Nature of Photospheric Magnetic Field

T. Magara, T. Yokoyama, S. Inoue, K. Ichimoto, Y. Katsukawa, S. Nagata, S. Tsuneta

2:10 SB11-1 Hinode SOT-XRT Observations of Solar Microflares: Magnetic Fields and Chromospheric Signatures at the Footpoints of Loop-type Transient Brigtenings

T. Shimizu, R. Kano, Y. Katsukawa, M. Kubo, E. DeLuca, K. Ichimoto, B. Lites, S. Nagata, T. Sakao, R. Shine, Y. Suematsu, T. Tarbell, A. Title, S. Tsuneta

2:25 SB11-2 Detection of Coronal Alfven Waves in a Solar Prominence with the Hinode Solar Optical Telescope

T. J. Okamoto, S. Tsuneta, T. E. Berger, K. Ichimoto, Y. Katsukawa, B. W. Lites, S. Nagata, K.

Shibata, T. Shimizu, R. A. Shine, Y. Suematsu, T. D. Tarbell, A. M. Title

2:40 SB11-3 Ubiquitous Sporadic Horizontal Magnetic Fields on the Photosphere with HINODE/SOT

R. Ishikawa, S. Tsuneta, H. Isobe, K. Ichimoto, Y. Katsukawa, B. W. Lites, S. Nagata, T. Shimizu, R. A. Shine, Y. Suematsu, T. D. Tarbell, A. M. Title

2:55 SB11-4 Hinode SOT/SP Observations of a Magnetic Structure of a Dark Filament on the Sun

T. Yokoyama, Y. Katsukawa, M. Shimojo, S. Tsuneta, Y. Suematsu, K. Ichimoto, T. Shimizu, S. Nagata, M. Kubo, B. W. Lites, H. Socas-Navarro, Hinode Japan/US SOT team

3:10 SB11-5 Particle Acceleration and Magnetic Field Configuration in Arcade-Type Solar Flares

S. Masuda, S. Inoue

3:25 SB11-6 Discovery of Chromospheric Anemone Jets with Hinode/SOT

Kazunari Shibata, T. Nakamura, T. Matsumoto, K. Otsuji, T. J. Okamoto, N. Nishizuka, T. Kawate, H. Watanabe, S. Nagata, S. Ueno, R. Kiatai, S. Nozawa, M. Shimizu, Hinode J team, Hinode U team

3:40 **Poster Session** P1-001 – P1-113

Session B12 Observations of Solar-Terrestrial Environment II (Chair: Shinobu Machida)

4:40 SB12I-1 Ubiquitous Jet-Like Activities in Sunspot Chromospheres

Y. Katsukawa, S. Tsuneta, Y. Suematsu, K. Ichimoto, T. Shimizu, S. Nagata, T. E. Berger, T. D. Tarbell, R. A. Shine, A. M. Title

5:00 SB12I-2 Observations of the Early Phases of Prominence Eruptions

H. Isobe, D. Tripathi, C. Chifor, H. E. Mason, A. Asai, R. Jain

5:20 SB12I-3 Solar Chromospheric Dynamics and Heating

M. Carlsson

5:40 SB12-1 Full Sun Temperature Diagnostics with Hinode X-ray Telescope

N. Narukage, M. Shimojo, T. Sakao, R. Kano, S. Tsuneta, K. Shibasaki, E. E. DeLuca, M. A. Weber, S. H. Saar, P. R. Jibben

5:55 SB12-2 Medium-Scale Traveling Ionospheric Disturbances Detected with High-Resolution TEC Maps over North America

T. Tsugawa, A. Coster, Y. Otsuka, A. Saito

6:10 SB12-3 Comparison Study of Different Mass Emission Lines on Active Region

S. Imada, H. Hara, T. Watanabe, A. Asai, S. Kamio, K. Matsuzaki

6:25 SB12-4 The Properties of the Ca II/G-band Bright Points around the Penumbra

M. Shimojo, S. Tsuneta, Y. Suematsu, K. Ichimoto, Y. Katsukawa, T. Shimizu, S. Nagata, Hinode SOT/XRT Team

6:40 SB12-5 Temperature Structures above Coronal Hole Boundary and Quiet Sun

R. Kano, T. Sakao, N. Narukage, J. Kotoku, T. Bando, E. DeLuca, L. Lundquist, XRT Team

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●Wednesday, October 24 (A)

Tutorial (Chair: Kazunari Shibata)

9:15 T-1 Hydrodynamics, Magnetohydrodynamics, and Electric Circuit Analogs

Eugene N. Parker

Keynotes (Chair: Masafumi Hirahara, Takashi Sakurai)

10:30 K2-1 Mechanisms for Solar Influence on the Earth's Climate

Joanna D. Haigh

11:10 K2-2 Coronal Mass Ejections and Space Weather

Nat Gopalswamy

11:50 K2-3 CAWSES Activities in Germany with Special Emphasis on Mesospheric Ice Layers

Franz-Josef Luebken

12:30 *Lunch*

Session A21 Solar Cycle and Long-term Response I (Chair : Ulrike Langematz)

1:30 SA21I-1 Effect of Variable Schwabe/Hale Cycles of the Sun on Climate Change

H. Miyahara, Y. Yokoyama, K. Masuda, K. Nagaya, K. Kitazawa, Y. Muraki, H. Kitagawa, T. Nakamura

1:50 SA21I-2 Coupled Chemistry Climate Model Simulations of the Solar Cycle in Ozone and Temperature

J. Austin

2:10 SA21I-3 Observations and Modelling Studies of the 11-year Solar Cycle in the Lower Stratosphere

L. J. Gray, S. T. Rumbold, K. P. Shine

2:30 SA21-1 Creation of a Composite Solar Ultraviolet Spectral Irradiance Data Set

M. T. DeLand, R. P. Cebula

2:45 SA21-2 Solar Modulation of the Recent Trends in the NH Winter Circulation

K. Kodera, M. E. Hori, S. Yukimoto, M. Sigmond

3:00 SA21-3 Simulation of the Effect of 11-year Solar Cycle with MRI Chemistry-Climate Model

Kiyotaka Shibata, M. Deushi

3:15 SA21-4

Parameter Sweep Experiments on Remote Influences of QBO and Solar Cycle with a Simple Global Circulation Model

K. Ito, Y. Naito, S. Yoden

3:30 SA21-5 Tidal Waves in the Stratosphere and Lower Mesosphere as Inferred From CCM Simulations

M. Kitamura, **T. Hirooka**, K. Shibata, H. Akiyoshi

Session A22 Solar Cycle and Long-term Response II (Chair: Kunihiko Kodera)

4:40 SA22I-1 Diagnosing the Response of the Stratosphere to the 11-year Solar Cycle

A. K. Smith, K. Matthes

5:00 SA22I-2 Solar Cycle Influences on the Stratosphere and Implications for the Tropospheric Circulation over Europe

K. Tourpali, C. J. E. Schuurmans

5:20 SA22-1 Forcing of the Earth's Atmosphere by Solar Radiation

K. Hocke, N. Kaempfer

5:35 SA22-2 Sensitivity of the 11-year Solar Signal to Changes in Ultraviolet Radiation and Ozone

U. Langematz, K. Matthes

5:50 SA22-3 Solar Cycle Modulation of the Troposphere-Stratosphere Coupling in the Southern Hemisphere Winter

Y. Kuroda, M. Deushi, K. Shibata

6:05 SA22-4 The Role of the QBO in Simulating the Solar Signal in the Atmosphere

K. Matthes, **R. R. Garcia**, D. R. Marsh, A. K. Smith

6:20 SA22-5 Solar Cycle Modulation of Wave Forcing over Troposphere Related to the Annular Mode over Stratosphere

Y. Yamashita, M. Takahashi

6:35 SA22-6 Effects of the 11-year Solar Cycle on Mid-Tropospheric Circulation in the Northern Hemisphere in Winter

R. Huth, J. Bochnicek, L. Pokorna, J. Kysely, R. Beranova, P. Hejda

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●Wednesday, October 24 (B)

Session B21 Solar Wind I (Chair : Christian Hanuise)

1:30 SB21I-1 Plasma Flows in the Solar Corona and their Implications to the Solar Wind

T. Sakao, R. Kano, N. Narukage, J. Kotoku, T. Bando, E. E. DeLuca, P. R. Jibben, S. Tsuneta

1:50 SB21I-2 Convections in Sunspots Observed by SOT/Hinode

K. Ichimoto, R. A. Shine, B. W. Lites, M. Kubo, T. Shimizu, Y. Suematsu, S. Tsuneta, Y. Katsukawa, T. D. Tarbell, A. M. Title, S. Nagata, T. Yokoyama, M. Shimojo, T. Berger, T. Sekii

2:10 SB21-1 A New View of Space Weather - Combining IPS and STEREO HI Observations of the Solar Wind with Studies of Ionospheric Consequences

A. Breen, C. Davis, G. Dorrian, R. Fallows, H. Morgan, M. Bisi, H. Middleton, E. Whittick, D. Bewsher, R, Harrison, S. Crothers, J. Davis, C. Eyles, P. Thomasson, G. Wannberg

2:25 SB21-2 Impacts of a Torus Model on Determining Geometries of Magnetic Clouds

K. Marubashi, K.-S. Cho

2:40 SB21-3 Parametric Instabilities of Finite Amplitude Alfven Waves in the Solar Wind

Y. Nariyuki, T. Hada

2:55 SB21-4 Origin of Disappearing Solar Wind Events

K. Fujiki, T. Murakami, M. Kojima, M. Tokumaru, H. Ito, P. K. Manoharan

3:10 SB21-5 Three-Dimensional Structure of the Solar Wind Near the Sun

M. Amano, T. Umeda, T. Ogino

3:25 SB21-6 Study of CME Propagation in the Inner Heliosphere

D. F. Webb, T. A. Howard, T. A. Kuchar, J. S. Morrill, R. A. Harrison, C. J. Eyles, R. A. Howard, B. V. Jackson, J. C. Johnston

3:40 **Poster session** P1-001 – P1-113

Session B22 Solar Wind II (Chair: Munetoshi Tokumaru)

4:40 SB22I-1 Stereo Observations of the Solar Corona from the SECCHI Experiment

A. Vourlidas

5:00 SB22-1 Solar Wind Structure - Origin and Solar Cycle Dependence

M. Kojima, M. Tokumaru, K. Fujiki, H. Itoh

5:15 SB22-2 How Magnetic Cloud Models Correspond to Clouds' Real Shapes and Dimensions?

M. Vandas, A. Geranios, E. P. Romashets

5:30 SB22-3 Solar Cycle Changes in 3-D Solar Wind - Consequences on Space Weather

P. K. Manoharan

5:45 SB22-4 A Magnetohydrodynamic Turbulence Model Predicitng the Radial Evolution of Solar Winds

N. Yokoi

6:00 SB22-5 Observations of Interplanetary and Ionospheric Scintillation Using Multi-beams Big Scanning Array

I. V. Chashei, V. I. Shishov, S. A. Tjul'bashev, I. A. Subaev

6:15 SB22-6 Solar Wind Propagation Delay Dependence on Heliospheric Structure

L. F. Bargatze

6:30 SB22-7 Solar-Wind Sources for Large-Scale Disturbances during Geomagnetic Storms

L. Lyons, S. Zou, D.-Y. Lee, C.-P. Wang, S. Mende

●Thursday, October 25 (A)

Keynotes (Chair: Masahiro Hoshino, Mamoru Yamamoto)

9:15 K3-1 Storm-Substorm Relationships

Yosuke Kamide

9:55 K3-2 New Discoveries from CAWSES International Space Weather Campaigns

Janet U. Kozyra

10:50 K3-3 Simulating and Predicting Solar ‘Climate’

Mausumi Dikpati

11:30 K3-4 Coupling Processes in the Equatorial Atmosphere (CPEA)

Shoichiro Fukao

12:10 *Lunch*

Session A31 Ionosphere (Chair : Hitoshi Fujiwara)

1:10 SA31I-1 Lower Atmospheric Sources of Longitudinal Variability in the Quiescent Ionosphere

M. E. Hagan, A. Maute, R. G. Roble, A. D. Richmond

1:30 SA32I-2 Results from the CAWSES Global Observing Campaign on Tides

W. E. Ward, CAWSES Tidal Campaign Team

1:50 SA31-1 Observations of Traveling Atmospheric Disturbances (TADs) in Thermosphere Density Using the CHAMP and Grace Accelerometers

S. L. Bruinsma, J. M. Forbes

2:05 SA31-2 The Neutral Wind in the Polar Lower Thermosphere Observed during the Strong Ionospheric Convection

T. T. Tsuda, S. Nozawa, S. Oyama, T. Motoba, Y. Ogawa, H. Shinagawa, R. Fujii

2:20 SA31-3 Multi-instrument Observations of F- and E-region Ionosphere Coupling over Japan

M. Yamamoto, T. Adachi, Y. Aoki, A. Saito, Y. Otsuka, S. Saito, T. Yokoyama

2:35 SA31-4 GPS Observations of Ionospheric Irregularities over Indonesia and Their Relation to Atmospheric Waves from Below

Y. Otsuka, T. Ogawa, K. Shiokawa, T. Nakamura

Session A32 Mesosphere and Thermosphere (Chair: Takuji Nakamura)

3:50 SA32I-1 Up- and Downward Coupling Processes in the HAMMONIA Entire Atmosphere Model

H. Schmidt, G. P. Brasseur, M. A. Giorgetta, M. Keller, E. Manzini

4:10 SA32I-2 Generation of the Thermospheric Localized Structures Simulated by a Whole Atmosphere GCM

H. Fujiwara, Y. Miyoshi

4:30 SA32-1 Radar Observations of Long-term Variability of Mesosphere and Lower Thermosphere Winds over Tropics

S. Sridharan, T. Tsuda, S. Gurubaran

4:45 SA32-2 DELTA Campaign: Coordinated Rocket and Ground-based Observations

J. Kurihara, S. Oyama, S. Nozawa, R. Fujii, Y. Ogawa, N. Iwagami, T. Abe

5:00 SA32-3 Equinox Transition of the Mesospheric Temperature Field - Revisited

M. G. Shepherd, Y.-M. Cho, G. G. Shepherd, C. Jacobi, W. Singer, D. Offermann, M. Bittner, M. Mlynczak, J. H. Jiang

5:15 SA32-4 Vertical Motions in the Upper Mesosphere and Lower Thermosphere in the Context of the Large-scale Circulation

G. G. Shepherd, Y.-M. Cho, G. Liu

6:30 Banquet (KYOTO HOTEL OKURA)

●Thursday, October 25 (B)

Session B31 High Energy Particles (Chair : Takahiro Obara)

1:10 SB31I-1 Radiation Belt Climatology

Yoshizumi Miyoshi, R. Kataoka

1:30 SB31I-2

Long-term Variations of Auroral Acceleration Region and Inner Magnetosphere Region Observed by the Akebono Satellite

A. Kumamoto, T. Ono, M. Iizima, A. Morioka, H. Oya

1:50 SB31I-3 Empirical Approach to Modeling the Dynamical Trapped Radiation Environment

S. F. Fung

2:10 SB31-1 Acceleration of Relativistic Electrons in the Process of Whistler-mode Chorus Generation

Y. Katoh, Y. Omura

2:25 SB31-2 The Origin of Metric Type II Bursts

N. V. Nitta

2:40 SB31-3

Efficiency of Particle Acceleration in Geospace and Its Role in Storm-time Ring Current Development and Radiation Belt Enhancement

I. A. Daglis, F.-A. Metallinou, T. E. Moore, M.-C. Fok, M. Georgiou, A. Varotsou

2:50 **Poster Session** P3-001 – P3-110

Session B32 Special Session Commemorating Prof. Kamide's Achievements (Chair: Toshihiko Iyemori)

3:50 SB32-1 Monitoring the Plasmaspheric Plasma Density with MAGDAS/CPMN Magnetometer Network

H. Kawano, S. Abe, S. Takasaki, N. Maeda, K. Yumoto

4:05 SB32-2 Penetration of Magnetospheric Electric Fields to the Equator during a Geomagnetic Storm

T. Kikuchi, K. K. Hashimoto, K. Nozaki

4:20 SB32-3 KRM Modeling for Space Weather Specifications of the Polar Ionosphere

A. Ieda, Y. Kamide

4:35 SB32-4 Substorm Growth Phase and Onset Mechanism

C. Z. Cheng, S. Zaharia, N. Gorelenkov, T. F. Chang

4:50 SB32-5 Recent Observations of ULF Waves Relevant to Geomagnetic Storms, Radiation Belts, and the Ring Current

M. J. Engebretson, I. R. Mann

5:05 SB32-6 Development of the Solar-Terrestrial Environment Integrated Simulator

H. Shinagawa, H. Shimazu, N. Terada, H. Jin, Y. Kubo, K. Fukazawa, K. Tsubouchi, T. Obara, H. Fujiwara, S. Fujita, Y. Miyoshi, A. Nakamizo, T. Tanaka

6:30 Banquet (KYOTO HOTEL OKURA)

●Friday, October 26 (A)

Tutorial (Chair: Ryoichi Fujii)

9:15 T-2 Early Japanese Contributions to Space Weather Research

Atsuhiro Nishida

Keynotes (Chair: Kunihiko Kodera, Kazuo Shiokawa)

10:30 K4-1 Magnetic Reconnection in the Solar Wind: An Overview

John T. Gosling

11:10 K4-2 Maqnetotail after GEOTAIL, INTERBALL and CLUSTER: Accelerated Beams, Thin Current Sheets and Intermittent Turbulence

Lev M. Zelenyi

11:50 K4-3 Tidal Coupling from the Troposphere to the Thermosphere-Ionosphere System

Jeffrey M. Forbes

12:30 *Lunch*

Session A41 Mesosphere and Lower Thermosphere (Chair : Mamoru Yamamoto)

1:30 SA41I-1 Sensitivity of the MLT to the Lorenz Energy Cycle of the Troposphere

E. Becker

1:50 SA41I-2 Upward Propagation of Atmospheric Waves and Its Impact on the General Circulation in the Thermosphere

Yasunobu Miyoshi, H. Fujiwara

2:10 SA41I-3 Advanced Meteor Radar Observation with the MU Radar for Observing Tridimensional Structure of Horizontal Velocities and Cooperative Optical Observations

T. Nakamura, M. Tsutsumi, T. D. Kawahara, K. Shiokawa

2:30 SA41I-4 On the Seasonal and Interannual Variability of the Migrating Diurnal Tide

D. Ortland

2:50 SA41I-5 The Aeronomy of Ice in the Mesosphere Mission

S. M Bailey, J. M Russell

3:10 SA41-1 Wind Balance in the Mesosphere and Lower Thermosphere

H.-L. Liu, D. R. Marsh, Q. Wu, J. Xu

3:25 SA41-2 Observations of Polar Mesosphere Summer Echoes with Calibrated VHF Radars at 69 Degree in the Northern and Southern Hemisphere: Interhemispheric Similarity

R. Latteck, W. Singer, R. J. Morris, D. J. Murphy, D. A. Holdsworth

Session A42 Gravity Waves, Lagrangian Motions (Chair: Yasunobu Miyoshi)

4:40 SA42I-1 Gravity Wave Breaking and Instability at High Reynolds Numbers: Implications for Energy Transfers, Momentum Fluxes, Measurement Biases, and Other Surprises

D. Fritts, T. Lund, K. Wan, L. Wang, J. Werne

5:00 SA42I-2 Development of a T213L256 Middle Atmosphere General Circulation Model

S. Watanabe, Y. Kawatani, Y. Tomikawa, M. Takahashi, K. Sato

5:20 SA42I-3 Toward the Global Atlas of Middle-Atmospheric Gravity Waves

D. L. Wu

5:40 SA42I-4 Utilizing Airglow Measurements to Investigate Short-Period Gravity Wave Coupling at Mesospheric Heights

M. J. Taylor, M. K. Ejiri, Y. Zhao

6:00 SA42I-5 Wintertime Temperature Maximum at the Subtropical Stratopause in a T213L256 AGCM

Y. Tomikawa, S.Watanabe, Y.Kawatani, K.Miyazaki, M.Takahashi, K. Sato

6:20 SA42-1 Acceleration of the Brewer Dobson Circulation due to Increases to Greenhouse Gases

R. R. Garcia

6:35 SA42-2 Impact of Energetic Particle Precipitation on High-Altitude Nitric Acid Enhancements : 6 Years of Observations with the ODIN Satellite

Y. J. Orsolini, J. Urban, D. Murtagh

●Friday, October 26 (B)

Session B41 Magnetic Reconnection and Particle Acceleration (Chair : Tohru Hada)

1:30 SB41I-1 Modeling of Flares and CMEs

T. G. Forbes

1:50 SB41-1 Tracking Interplanetary Shock Waves by using Global Three-Dimensional Numerical Simulations: 12 May 1997; Halloween 2003; and 5-6 December 2006

C.-C. Wu, M. Dryer, C. D. Fry, S. T. Wu

2:10 SB41-2 Fine Auroral Structures and Dynamics and Their Relationship to the Auroral Particle Signatures Observed by the Reimei Satellite

M. Hirahara, T. Sakanoi, K. Asamura, Y. Obuchi, A. Yamazaki, K. Seki, Y. Ebihara, Y. Ogawa, Y. Kasaba, Y. Miyashita, I. Shinohara

2:25 SB41-3 Study of Geotail Observations of FTEs

G. I. Korotova, D. G. Sibeck

2:40 SB41-4 Continuous Transition from Fast to Slow Regime of Magnetic Reconnection and Application to Solar Flares

S. Nitta

2:55 SB41-5 Dayside Magnetic Reconnection during the Northward IMF

K. S. Park, T. Ogino, Y. H. Kim

3:10 SB41-6 Pulsive Jets in Three-Dimensional Fast Magnetic Reconnection

T. Shimizu, K. Kondo, K. Shibata, M. Ugai

3:25 SB41-7 Three Dimensional Magnetohydrodinamic Simulation of Coronal Mass Ejections

D. Shiota, K. Kusano, T. Miyoshi, N. Nishikawa, K. Shibata

3:40 **Poster Session** P3-001 – P3-110

Session B42 Space Weather Modeling and Simulation (Chair: Toshio Terasawa)

4:40 SB42I-1 Space Weather Modeling on the Solar Flare Event in December 2006 (1): From the Sun to Interplanetary Space

K. Kusano, K. Shibata, R. Kataoka, S. Inoue, D. Shiota, E. Asano, T. Matsumoto, T. Miyoshi, T. Ogino the Modeling Task Force Group

5:00 SB42I-2 Numerical Simulations of the Initiation and the IP Evolution of Coronal Mass Ejections

S. Poedts

5:20 SB42-1 Solar Flare Magnitude Forecast from Photospheric Magnetic Field Properties

T. T. Yamamoto, T. Sakurai, K. Kusano, T. Yokoyama

5:35 SB42-2 Sensitivity of the Earth's Magnetosphere to Solar Wind Activity: Three-Dimensional

Macroparticle Model

S. Baraka, L. B. Jaffel

5:50 SB42-3 MHD-PIC Interlocked Simulation Model in Space Plasma: Application to Collisionless Shocks

T. Sugiyama, K. Kusano

6:05 SB42-4 Numerical Modeling of Solar Wind

E. Asano, T. Matsumoto, K. Shibata

6:20 SB42-5 The Magnetoshere-Ionosphere Compound Systems for Various Solar Wind Conditions

S. Fujita, T. Tanaka

6:35 SB42-6 MHD Simulation of the Magnetic Storm Event for December 13-16, 2006

R. Morishita, K. Mase, M. Amano, T. Ogino

●Saturday, October 27 (A)

Tutorial (Chair: Toshitaka Tsuda)

9:15 T-3 1960s Advances in Middle Atmosphere Research

Marvin A. Geller

Keynotes (Chair: Masayoshi Kojima, Kiyofumi Yumoto)

10:30 K5-1 Gravity Wave Coupling in the Middle Atmosphere

Robert A. Vincent

11:10 K5-2 Calibrating Sunspot Numbers Using the Magnetic Needle

Leif Svalgaard

11:50 K5-3 Total Solar Irradiance : What Have We Learned about Its Variability from the Record of the Last Three Solar Cycles?

Claus Fröhlich

12:30 *Lunch*

Session A 51 Dynamical Coupling, Equatorial Waves (Chair: Kaoru Sato)

1:30 SA51I-1 A Lagrangian Spectral Parameterization of Convective Gravity Waves

H.-Y. Chun, H.-J. Choi, I.-S. Song

1:50 SA51I-2 Coupling of Atmospheric Tides with the Lower Boundary

K. Hamilton

2:10 SA51-1 Middle Atmosphere Disturbance during 1998 - 2004 Winter Seasons in the Western Arctic

K. Sakanoi, Y. Murayama, R. L. Collins, K. Mizutani

2:25 SA51-2 3-D Activities of Equatorial Gravity Waves in a High-Resolution AGCM

Y. Kawatani, M. Takahashi, S. Watanabe, S. Miyahara, K. Sato

2:40 SA51-3 General Characteristics of Gravity Waves in the Troposphere and Lower Stratosphere during Convection over Indonesia and India

S. K. Dhaka, Y. Shibagaki, M. K. Yamamoto, H. Hashiguchi, S. Fukao, H.-Y.Chun

2:55 SA51-4 High-Resolution Observations of the Temporal and Spatial Variability of Gravity Wave Potential Energy Using COSMIC Satellite Data

S. P. Alexander, T. Tsuda

3:10 *Break*

Session A52 Climate Dynamics, Radar and Optical Observations (Chair: Hye-Yeong Chun)

3:25 SA52I-1 Attribution of Decadal Variability in Lower-Stratospheric Tropical Ozone

D. R. Marsh, R. R. Garcia

3:45 SA52I-2 Stratosphere-Troposphere Coupling and Climate Change

M. Baldwin

4:05 SA52-1 Simulating the Changes of the NAO during Pre-industrial Time and in a Future Climate Scenario with a Fully Coupled Stratosphere-Troposphere-Ocean Model

U. Cubasch, T. Spangehl, U. Langematz

4:20 SA52-2 Radar and Optical Observations at Adelaide, Australia

I. M. Reid, D. A. Holdsworth, D. McIntosh, R. A. Vincent, J. Woithe, A. Sivjee

4:35 SA52-3 Determining Mesospheric Temperatures from Meteor Radar Observations at King Sejong Station (62 deg S, 58 deg W), Antarctica

Y. H. Kim, J.-H. Kim, C. S. Lee, G. H. Jee

4:50 SA52-4 Current Status of Program of the Antarctic Syowa MST/IS Radar

K. Sato, M. Tsutsumi, T. Sato, A. Saito, Y. Tomikawa, K. Nishimura, T. Yamanouchi, T. Aso, M. Ejiri

5:20 **Discussion (Chair: Toshitaka Tsuda, Ryoichi Fujii, Kazunari Shiba)**

●Saturday, October 27 (B)

Session B51 Ground-based Observation (Chair : Mark J. Engebretson)

1:30 SB51I-1 Mid-continent Magnetoseismic Chain (McMAC) and Its Role in Future Magnetoseismic Research of Ultra Large Terrestrial International Magnetometer Array (ULTIMA)

P. J. Chi, C. T. Russell, M. B. Moldwin, M. J. Engebretson, I. R. Mann, K. Yumoto

1:50 SB51I-2 MAGDAS Global Network and Its Data Availability

G. Maeda, S. Abe, K. Yumoto, MAGDAS Group

2:10 SB51-1 Ultra Large Terrestrial International Magnetic Array (ULTIMA)

K. Yumoto, C. T. Russell, B. J. Fraser, V. Angelopoulos, I. R. Mann, P. J. Chi

2:25 SB51-2 Ground Distributed Magnetometer Array Techniques for ULF and EMIC Wave Studies

S. T. Ables, **B. J. Fraser**

2:40 SB51-3 CHAIN-project and Installation of the Flare Monitoring Telescope in Peru

S. UeNo, K. Shibata, R. Kitai, G. Kimura, Y. Nakatani, S. Nagata, K. Otsuji, J. K. Ishitsuka, M. Ishitsuka

2:55 SB51-4 One Solar Cycle Observation of Solar Activities by Flare Monitoring Telescope of Hida Observatory

R. Kitai, M. Katoda, G. Kimura, Y. Nakatani, M. Kamobe, S. Ueno, K. Shibata

3:10 *Break*

Session B52 Geomagnetic Storms and Solar Cycle Variation (Chair: Yu Yi)

3:25 SB52I-1 Climatological Variations in the Ionosphere and Upper Atmosphere

M. J. Jarvis. J. T. Emmert, WG 4.4

3:45 SB52I-2 Access to Space Weather Data through the Virtual Observatories

R. J. Walker, J. Merka, T. A. King, S. P. Joy, T. Narock

4:05 SB52-1 Solar Cycle Variation of Interplanetary Drivers of Intense Geomagnetic Storms

E. Echer, W. D. Gonzalez, B. T. Tsurutani, A. L. C. Gonzalez

4:20 SB52-2 Tracking Intense Geomagnetic Storms to the Interplanetary Medium and Solar Sources

B. Schmieder, S. Dasso, C. Mandrini, H. Cremades, C. Cid, Y. Cerrato, E. Saiz, A. Aran, M. Menvielle, S. Poedts, L. Rodriguez, A. Zhukov

4:35 SB52-3 The Probability Forecast of Geomagnetic Storm Occurrences

K. Tsubouchi

4:50 SB52-4 Solar Activity Variation in Grand Solar Minima Deduced from Cosmogenic Radiocarbon

K. Masuda, K. Nagaya, H. Miyahara, T. Nakamura

他、Poster Session（全期間）は、全 223 件。