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 The Peatland/Ice Age Hypothesis Revised, Adding a Possible Glacial Pulse Trigger

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 The Metastability of Olivine: A Reassessment from Available Kinetic Data

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- Ikeda, A., Yumoto, K., Shinohara, M., Nozaki, K., Yoshikawa, A., and Shinbori, A. 2008 SC- associated Ionospheric Electric Fields at Low Latitude: FM-CW Radar Observation. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 1- 6
- Ueno, T., Fujimoto, A., Yumoto, K., Ushijima, K., Mizunaga, H., and Hanada, T., 2008. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 7- 23
- Fujimoto, A., Joshua, E. O., Abe, S., and Yumoto, K. 2008. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 25- 30
- Ogawa, Y., Takahashi, K., and Yamanaka, T. 2008. Paleooceanography of the middle Eocene Arctic Ocean based on geochemical measurements of biogenic matter. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 31- 48
- Tanaka, S., and Takahashi, K. 2008. Detailed vertical distribution of radiolarian assemblage (0- 3000 m fifteen layers) in the central subarctic Pacific, June 2006. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 49- 72
- Asahi, H., and Takahashi, K. 2008. A new insight into oceanography with multivariate and time- series analyses on the 1990- 1999 planktonic foraminiferal fluxes in the Bering Sea and the central subarctic Pacific. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 73- 96
- Kaneyama, S., Shimoyama, S., Miyabe, S., and Yamanaka, T. 2008. Water mass conditions during the past 11,000 years in the innermost part of the Kagoshima Bay, South Kyushu, Japan: evidence from the fossil shell assemblages, oxygen and carbon isotopic compositions. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 97- 112

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Global simulation of the heliosphere from the sun to near earth's orbit

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Moriguti, T., A. Nakamizo, T. Tanaka, T. Obara, and H. Shimazu, Current systems in the Jovian magnetosphere, *J. Geophys. Res.*, 113, A05204, 2007JA012751, 2008

Kamei, S., A. Nakamizo, T. Tanaka, T. Obara, and H. Shimazu, Development of the global simulation model of the Heliosphere, *Earth, Planets Space*, in press, 2008

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[a] /

Tanaka, T., Magnetosphere-ionosphere convection as the compound system *Space Sci. Rev.*, 133, Doi 10.1007/s11214-007-9168-4, 2007.

Motoba, T., S. Fujita, T. Kikuchi, and T. Tanaka, Solar wind dynamic pressure forced oscillation of the magnetosphere-ionosphere coupling system: A numerical simulation of directly-pressure-forced geomagnetic pulsations, *J. Geophys. Res.*, 112, A11204, doi:10.1029/2006JA012193, 2007.

Washini, H., G. P. Zank, Q. Hu, T. Tanaka, and K. Murakata, A Forecast of the Heliospheric Termination Shock Position by Three-Dimensional MHD Simulations, *Ap. J.*, 670, 2007.

Shimazu, H., T. Obara, and T. Tanaka, Real-time global MHD simulation of the solar wind interaction with the earth's magnetosphere, *Adv. Space Res.*, 41, doi:10.1016/j.asr.2007.07.014, 2007.

Kitamura, K., H. Shimazu, S. Fujita, S. Watari, M. Kunitake, and T. Tanaka, Properties of AE indices derived from real-time global simulation and their implications for solar wind-magnetosphere coupling *J. Geophys. Res.*, 113, A03S10, doi:10.1029/2007JA012514, 2008.

Moriguti, T., A. Nakanizo, T. Tanaka, T. Obara, and H. Shimazu, Current systems in the Jovian magnetosphere, *J. Geophys. Res.*, 113, A05204, 2007JA012751, 2008.

Kamei, S., A. Nakanizo, T. Tanaka, T. Obara, and H. Shimazu, Development of the global simulation model of the Heliosphere, *Earth, Planets Space*, in press, 2008.

Terada, N., Y. N. Kulikov, H. Lammer, H. I. M. Lichtenegger, T. Tanaka, H. Shinagawa, and T. Zhang, Atmosphere and water loss from early Mars under extreme solar wind and EUV conditions, *Astrobiology*, submitted, 2008.

[] /

4.3.3

[a]

Terada, N., and T. Tanaka, Numerical Simulations of Circulation and Escape of Ionospheric: Comparative Study of Terrestrial Planets, AOGS2007, Bangkok, July 30, 2007

Matsuoka, D., K. T. Murata, S. Fujita, and T. Tanaka, 3D Visualizations and Analyses of Magnetic Flux Rope in the Earth's Magnetotail, AOGS2007, Bangkok, July 30, 2007

T. Tanaka, Space Weather as the Physics of Compound System, International Symposium on Hierarchy and Holism, Okazaki, Feb. 22, 2008

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3-D MHD model of the solar wind-interplanetary space combining system 2007

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Tokunaga, T., H. Kohta, A. Yoshikawa, T. Uozumi, and K. Yumoto (2007); Global features of Pi 2 pulsations obtained by Independent Component Analysis, *Geophys. Res. Lett.*, Vol. 34, L14106, doi: 10.1029/2007GL030174

Fujimoto Akiko, E.O. Joshua, Shuji Abe, Kiyohumi Yumoto (2007): Characteristic of Equatorial Pc5 at ILE- IFE, *Memoirs of the Faculty of Sciences, Kyushu University, Series D Earth and Planetary Sciences, Volume XXXII, No. 1, pp.25- 30.*

Ikeda Akihiro, Kiyohumi Yumoto, Manabu Shinohara, Kenro Nozaki, Akimasa Yoshikawa, Atsuki Shinbori (2007) : SC- associated Ionospheric Electric Fields at Low Latitude : FM- CW Radar Observation, *Memoirs of the Faculty of Sciences, Kyushu University, Series D Earth and Planetary Sciences, Volume XXXII, No. 1, pp. 1- 6.*

Ueno Taniki, Akiko Fujimoto, Kiyohumi Yumoto, Keisuke Ushijima, Hideki Mizunaga and Toshiya Hanada(2007): Measurement of QSAT Residual Magnetism, *Memoirs of the Faculty of Sciences, Kyushu University, Series D Earth and Planetary Sciences, Volume XXXII, No. 1, pp. 7- 23.*

Maeda, N., S. Takasaki, H. Kawano, S. Ohtani, P. M. E. Décréau, J. G. Trotignon, S. I. Solovveyev, D. G. Baishev, and K. Yumoto, Simultaneous observations of the plasma density on the same field line by the CPMN ground magnetometers and the Cluster satellites, accepted for publication in *Advances in Space Research*, 2008.

[b] /

4.2.3

[a]

Fujimoto Akiko, Taniki Ueno and Kiyohumi Yumoto, Science Mission for QSAT Project -Study of Field- Aligned Currents (FACs) in Polar and Equatorial Regions-, UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18- 22 June, 2007

Ikeda A. M.Shinohara A.Yoshikawa K.Nozaki A.Shinbori, K.Yumoto, Change in Ionospheric Electric Field and Geomagnetic Field due to Solar Wind Variations at the time of SC, IAGA at the IUGG General Assenbly 2007, Perugia, 2- 13 July, 2007

Kohta Hiroko, Akimasa Yoshikawa, Teiji Uozumi, Kiyohumi Yumoto and the MAGDAS/CPMN Group, Analysis of Sq Current Structures Obtained from Ground- based Magnetic Field Observations, IAGA at the IUGG General Assenbly 2007, Perugia, 2- 13 July, 2007

Fujimoto Akiko, Manabu Shinohara, Kiyohumi Yumoto, Yumoto Kiyohumi Circum- pan Pacific Magnetometer Network Group, Relationship between Storm- time Pc5 observed at ground stations and MeV Electron Flux at the Geosynchronous orbit, IAGA at the IUGG General Assenbly 2007, Perugia, 2- 13 July, 2007

Ikeda A., M Shinohara, K. Nozaki, K. Yumoto, FM- CW / MAGDAS Observations during SC, the IV International Conference "Solar- Terrestrial bonds and earthquake precursors", Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS, Paratunka, Russia, 14- 17 August, 2007

Hirayama Yuki, Kiyohumi Yumoto, Teiji Uozumi, Terumasa Tokunaga, Shinichi Watari and MAGDAS/CPMN Group, Characteristics of Equatorial Pi2 Pulsations Observed at the MAGDAS Stations, International

CAWSES Symposium Kyoto University, Japan, 23-27 October, 2007

Ueno T., K. Yumoto, T. Uozumi, K. Kitamura, S. Abe, Y. Numata, MAGDAS group, A New Index to Monitor Temporal and Long-Term Variations of the Equatorial Electrojet by MAGDAS/CPMN Real-Time Data: EE-Index, International CAWSES Symposium, Kyoto University, Japan, 23-27 October, 2007

Kawano, H., S. Abe, S. Takasaki, N. Maeda, and K. Yumoto, Monitoring the plasmaspheric plasma density with MAGDAS/CPMN magnetometer network, International CAWSES Symposium, October 23-27, 2007, Kyoto, Japan,

Ikeda A. K.Yumoto, M.Shinohara A.Yoshikawa K.Nozaki A.Shinbori, sc-associated Ionospheric Electric Fields at Low Latitude: FM-CW Radar Observation, International CAWSES Symposium, Kyoto University, Japan, 23-27 October, 2007

Tokunaga Terumasa, Akimasa Yoshikawa, Teiji Uozumi, Kiyohumi Yumoto and CPMN Group, Mutual Information based clustering of Pi 2 magnetic pulsations observed at CPMN stations, AGU Fall Meeting 2007, San Francisco, USA, 10-14 December, 2007

Ikeda A., K.Yumoto, M,Shinohara, K.Nozaki, A.Yoshikawa, T.Uozumi, T.Tokunaga, Y.Hirayama, Characteristics of Pi2 Ionospheric Electric Pulsations, AGU Fall Meeting 2007, San Francisco, USA, 10-14 December, 2007

[b]

Sq CPMN/MAGDAS 2007 5 19 24

Ikeda, Akihiro; Manabu Shinohara; Akimasa Yoshikawa; Kenro Nozaki; Atsuki Shinbori; Kiyohumi Yumoto, How electric and magnetic fields change with solar wind variation during SC 2007 2007 5 19 24

Fujimoto, Akiko, Manabu Shinohara, Kiyohumi Yumoto and CPMN/MAGSAS Group, Study of the Relationship Between MeV Electron Flux at the Geosynchronous orbit and Storm-time Pc5 observed at CPMN stations, 2007 2007 5 19 24

Hirano, Takashi, Shigeto Watanabe, Huixin-Liu, Kiyohumi Yumoto, A new empirical model of the thermospheric mass destiny obtained from the CHAMP satellite, 2007 2007 5 19 24

Tokunaga, Terumasa, Hiroko Kohta, Akimasa Yoshikawa, Teiji Uozumi, Hideaki Kawano, Kiyohumi Yumoto and CPMN/MAGDAS Group, Independent Component Analysis of Nightside Magnetospheric Forced Pi2 Oscillations observed at the CPMN Stations, 2007 2007 5 19 24

S. I. Solovyev D. G. Baishev CPMN Cluster 2007 2007 5 19 24

Abe, Shuji, Naoya Maeda, Hideaki Kawano, Jerry Goldstein, Shinichi Ohtani, S. I. Solovyev, D. G. Baishev, and Kiyohumi Yumoto, Statistical analysis of plasmopause features by using a ground magnetometer pair and IMAGE/EUV, 2007 2007 5 19 24

Hirayama, Yuki, T. Uozumi, K. Yumoto and the MAGDAS/CPMN Group Characteristics of Equatorial Pi 2 Pulsations Observed at the MAGDAS Stations 2007 2007 5 19 24

and Electric Pulsations at Low Latitude: FM-CW Radar Observations 31 , Pi2 Magnetic
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122 Characteristics of DP2 type Disturbances observed globally at the equatorial MAGDAS stations
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Fujimoto Akiko; Manabu Shinohara; Kiyohumi Yumoto; CPMN Group Characteristic of Storm-time Pc5
Observed at Ground Stations on Relativistic Electron Enhancement, 122
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Cardinal Maria Gracita C. MAGDAS/CPMN 1999 5 12
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Taniki Ueno, K. Yumoto, T. Uozumi, K. Kitamura, S. Watari, S. Abe and MAGDAS/CPMN Group, A new
Equatorial Electrojet index using real-time data from MAGDAS/CPMN:EE-Index, 122
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Bencze P., B. Heilig B. Zieger, J. Szendroi, J. Vero, H. Luhr, K. Yumoto, Y. Tanaka, and J. Strestik (2007); Effect of the August 11, 1999 total solar eclipse on geomagnetic pulsations, *Acta Geod. Geoph. Hung.* Vol. 42(1), 23-58.

Han D.S., Yang H.G., Chen Z.T., Araki T., Dunlop M.W., Nose M., Iyemori T., Li Q., Gao Y.F. and K. Yumoto (2007); Coupling of perturbations in the solar wind density to global Pi3 pulsations: A case study. *J. Geophys. Res.* Vol. 112(A5): A05217

Kozyreva, O.V., V.A. Pilipenko, M.J. Engebretson, K. Yumoto, J. Watermann, and N. Romanova (2007); In search of a new ULF wave index: Comparison of Pc5 power with dynamics of geostationary relativistic electrons, *Planet. Space Sci.*, 55, 755-769.

Kulesh, M. M. Nose, M. Holschneider and K. Yumoto (2007); Polarization analysis of a Pi 2 pulsation using continuous wavelet transform, *Earth Planets Space*, 59, No.8, 961-970.

Morioka, A., Y. Miyoshi, F. Tsuchiya, H. Misawa, T. Sakanoi, K. Yumoto, R.R. Anderson, J.D. Menietti, and E.F. Donovan (2007); Dual structure of auroral acceleration regions at substorm onsets as derived from AKR spectra, *J. Geophys. Res.*, Vol. 112, A06245, doi:10.1029/2006JA012186

Nakajima A., K. Shiokawa, K. Seki, J.P. McFadden, C.W. Carlson, R.J. Strangeway and K. Yumoto (2007); Particle and field characteristics of broadband electrons observed by the FAST satellite during geomagnetic storms: A multievent study, *J. Geophys. Res.* 112(A06): A06220.

Rastogi R.G. and K. Yumoto (2007); Equatorial electrojet in the East Brazil anomaly region, *Earth Planet Space*, 59, No.2, 103-106

Tanaka Y-M, K. Yumoto, Yoshikawa A., Itonaga M., Shinohara M., Takasaki S. and Fraser B.J. (2007); Horizontal amplitude and phase structure of low-latitude Pc3 pulsations around the dawn terminator: *J. Geophys. Res.* 112(A11): A11308

Tokunaga, T., H. Kohta, A. Yoshikawa, T. Uozumi, and K. Yumoto (2007); Global features of Pi 2 pulsations obtained by Independent Component Analysis, *Geophys. Res. Lett.*, Vol. 34, L14106, doi: 10.1029/2007GL030174

Tsurutani, B.T., O.P. Verkhoglyadova, A.J. Mannucci, T. Araki, A. Sato, T. Tsuda, and K. Yumoto (2007); Oxygen ion uplift and satellite drag effects during the 30 October 2003 daytime superfountain event, *Ann. Geophys.*, 25, 569-574.

Uozumi, T., H. Kawano, A. Yoshikawa, M. Itonaga and K. Yumoto (2007); Pi 2 source region in the magnetosphere deduced from CPMN data, *Planet. Space Sci.*, 55, 849-857, doi:10.1016/j.pss.2006.03.01.

Yago, K., K. Shiokawa, K. Yumoto, D. G. Baishev, S.I. Solovyev, and F.J. Rich (2007); Simultaneous DMSP, all-sky camera, and IMAGE FUV observations of a substorm brightening arc at a substorm pseudo-breakup, *Earth Planets Space*, 59, 45- 49.

Yagova N., V. Pilipenko, J. Watermann, and K. Yumoto (2007); Control of high latitude geomagnetic fluctuations by interplanetary parameters: A role of suprathermal ions, *Annales Geophysicae*, 25, No.4, 1037- 1047

Yumoto K. and the MAGDAS Group (2007): Space weather activities at SERC for IHY: MAGDAS: *Bull. Astr. Soc. India* 35, 511- 522

Baishev D.G., G.V. Borisov, V.A. Velichko, S.N. Samsonov, and K. Yumoto (2008); Variations in the geomagnetic field and auroras during the main phase of a large magnetic storm of November 20, 2003, *Geomagnetism and Aeronomy*, 48, NO.2, 201- 208.

Huang C-S, K. Yumoto, S. Abe and G. Sofka (2008): Low-latitude ionospheric electric and magnetic field disturbances in response to solar wind pressure enhancements, *J. Geophys. Res.*, in press.

Rastogi R.G., H. Chandra, M.E. James, Kentarou Kitamura and K. Yumoto (2008): Characteristics of the Equatorial Electrojet current in Central South America, *Earth Planets Space*, in press.

Sastri J.H., Yumoto K., Rao J.V.S.V., and Ikeda A (2008): Summer-winter hemisphere asymmetry of the preliminary reverse impulse of geomagnetic storm sudden commencements at midlatitudes: *J. Geophys. Res.*, in press.

Tsurutani B.T., Verkhoglyadova O.P., Mannucci A.J., Saito A., Araki T., Yumoto K., Tsuda T., Abdu M.A., Sobral J.H.A., Gonzalez W.D., McCreddie H., Lakhina G.S., Vasyliunas V.M. (2008): Prompt Penetration Electric Fields (PPEFs) and Their Ionospheric Effects During the Great Magnetic Storm of October 30-31, 2003 *J. Geophys. Res.*, in press.

Uozumi, T., K. Yumoto, K. Kitamura, S. Abe, Y. Kakinami, M. Shinohara, A. Yoshikawa, H. Kawano, T. Ueno, T. Tokunaga, and the MAGDAS Group (2008): A new index to monitor temporal and long-term variations of the Equatorial Electrojet by MAGDAS/CPMN real-time data: EE-Index, *Earth Planets Space*, 59, in press.

Yumoto K., A. Ikeda, M. Shinohara, K. Nozaki, S. Watari, K. Kitamura, V. V. Bychkov, and B. M. Shevtsov (2008): Electric and Magnetic Field Variations at Low and Equatorial Latitudes During Sc, DP2, and Pi2 Events, *Advances in Geosciences*, in press.

Yumoto K., S. Ikemoto, M.G. Cardinal, M. Hayakawa, K. Hattori, J.Y. Liu, S. Saroso, Ruhimat M., M. Husni, D. Widarto, E. Ramos, D. McNamara, R.E. Otadoy, G. Yumul, R. Eborá and N. Servando (2008): A new ULF wave analysis for seismo-electromagnetics using CPMN/MAGDAS data, *Physics and Chemistry of the Earth*, in press.

[b]

Yumoto K., S. Ikemoto, M. G. Cardinal, H. Kawano, A. Yoshikawa, G. Maeda, M. Hayakawa, K. Hattori, J. Y. Liu, S. Saroso, M. Husni, D. S. Widarto, E. G. Ramos, R. E. S. Otadoy, and MAGDAS Group (2007): Space Weather and Seismo-Electromagnetics, submitted to Proc. of Bilateral Seminar Italy-Japan on Electromagnetics in Seismic and Volcanic Area, Jul. 25- 27, Chiba, Japan

Yumoto K., M.G. Cardinal and MAGDAS Group (2007) : MAGDAS Project for Monitoring Space and Lithosphere Weather, submitted to Proc. of the IV International Conference "Solar-Terrestrial bonds and earthquake precursors", Aug 14- 17, in Paratunka, Russia

Akiko Fujimoto, E.O. Joshua, Shuji Abe, Kiyohumi Yumoto (2007): Characteristic of Equatorial Pc5 at ILE-IFE,

Memoirs of the Faculty of Sciences, Kyushu University, Series D Earth and Planetary Sciences, Volume XXXII, No. 1

Akihiro Ikeda, Kiyohumi Yumoto, Manabu Shinohara, Kenro Nozaki, Akimasa Yoshikawa, Atsuki Shinbori (2007) : SC-associated Ionospheric Electric Fields at Low Latitude : FM-CW Radar Observation, Memoirs of the Faculty of Sciences, Kyushu University, Series D Earth and Planetary Sciences, Volume XXXII, No. 1

Ueno Tamiki, Akiko Fujimoto, Kiyohumi Yumoto, Keisuke Ushijima, Hideki Mizunaga and Toshiya Hanada(2007): Measurement of QSAT Residual Magnetism, Memoirs of the Faculty of Sciences, Kyushu University, Series D Earth and Planetary Sciences, Volume XXXII, No. 1, pp. 7-23

(2007): Josef C. Van der Ha,
QSAT

2008 IGY
No.58 P5 12

2008 MAGDAS IGY
No.58 P58 68

4.3.3

[a]

Yumoto K., K. Hattori and MAGDAS/CPMN Group, Space and Lithosphere Environment Changes in Indonesia, The 7th Science Council of Asia, Okinawa Convention Center, Japan, 13-17 June, 2007

Yumoto Kiyohumi and MAGDAS Group, Preliminary Results Obtained from MAGDAS Project, UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18-22 June, 2007

Yumoto Kiyohumi and MAGDAS Group, MAGnetic Data Acquisition System (MAGDAS) for Space Weather Study, UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18-22 June, 2007

Yumoto K., T. Uozumi, Y. Hirayama, A. Ikeda and MAGDAS Group, Preliminary Results Obtained from MAGDAS Project, UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18-22 June, 2007

Yumoto Kiyohumi, Kazunari Shibata, Takashi Sakurai, Masayoshi Kojima, Masaki Fujimoto, Shinichi Watari, IHY (International Heliophysical Year) Activities in Japan, UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18-22 June, 2007

Maeda G., K. Yumoto and MAGDAS Group, Progress Report on the Deployment of MAGDAS, UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18-22 June, 2007

Fujimoto Akiko, Tamiki Ueno and Kiyohumi Yumoto, Science Mission for QSAT Project -Study of Field-Aligned Currents (FACs) in Polar and Equatorial Regions-, UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18-22 June, 2007

Abe, S., H. Kawano, J. Goldstein, S. Ohtani, S. I. Solov'yev, D. G. Baishev, and K. Yumoto, A plasmaspheric plume identified by IMAGE EUV imaging and ground-based plasma sounding through ULF waves, GEM workshop, 2007/Jun/18-22, Utah, USA.

- Yumoto K., C. T. Russell, B. J. Fraser, V. Angelopoulos, I. R. Mann, and P. J. Chi, Ultra Large Terrestrial International Magnetic Array (ULTIMA): A Global Magnetometer Network for Space Physics Research, IAGA at the IUGG General Assembly 2007, Perugia, 2- 13 July, 2007
- Yumoto K., and MAGDAS/CPMN Group, MAGnetic Data Acquisition System (MAGDAS) for Space Weather Study at SERC, IAGA at the IUGG General Assembly 2007, Perugia, 2- 13 July, 2007
- Ikeda A. M. Shinohara A. Yoshikawa K. Nozaki A. Shinbori, K. Yumoto, Change in Ionospheric Electric Field and Geomagnetic Field due to Solar Wind Variations at the time of SC, IAGA at the IUGG General Assembly 2007, Perugia, 2- 13 July, 2007
- Kohta Hiroko, Akimasa Yoshikawa, Teiji Uozumi, Kiyohumi Yumoto and the MAGDAS/CPMN Group, Analysis of Sq Current Structures Obtained from Ground-based Magnetic Field Observations, IAGA at the IUGG General Assembly 2007, Perugia, 2- 13 July, 2007
- Fujimoto Akiko, Manabu Shinohara, Kiyohumi Yumoto, Yumoto Kiyohumi Circum-pan Pacific Magnetometer Network Group, Relationship between Storm-time Pc5 observed at ground stations and MeV Electron Flux at the Geosynchronous orbit, IAGA at the IUGG General Assembly 2007, Perugia, 2- 13 July, 2007
- Yumoto K. and MAGDAS Group, Seismo- Electromagnetics and Space Weather, Bilateral Seminar Italy- Japan on Electromagnetics in Seismic and Volcanic Areas, Port Plaza Chiba, Japan, 25- 27 July, 2007
- Yumoto Kiyohumi, Akihiro Ikeda, Manabu Shinohara, Kenro Nozaki and MAGDAS Group, Electric and magnetic field changes at low latitudes during SC, Asia Oceania Geosciences Society 4th annual meeting, Queen Sirikit National Convention Centre, Bangkok, Thai, July 30- August 4, 2007
- Kawano Hideaki, Shuji Abe, Satoko Takasaki, and Kiyohumi Yumoto, Plasmaspheric dynamics estimated from ground magnetometers, Asia Oceania Geosciences Society 4th annual meeting, Queen Sirikit National Convention Centre, Bangkok, Thai, July 30- August 4, 2007.
- Yumoto K., S. Ikemoto, C.M.G. Cardinal and MAGDAS Group, MAGDAS Project for Monitoring Space and Lithosphere Weather, the IV International Conference "Solar- Terrestrial bonds and earthquake precursors", Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS, Paratunka, Russia, 14- 17 August, 2007
- Shinohara M., A. Ikeda, K. Nozaki, S. Watari, K. Kitahara, V.V. Bychkov, B.M. Shevtsov, K. Yumoto, DP2 type ionospheric electric field fluctuations observed by FM- CW HF radar, the IV International Conference "Solar- Terrestrial bonds and earthquake precursors", Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS, Paratunka, Russia, 14- 17 August, 2007
- Ikeda A., M. Shinohara, K. Nozaki, K. Yumoto, FM- CW / MAGDAS Observations during SC, the IV International Conference "Solar- Terrestrial bonds and earthquake precursors", Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS, Paratunka, Russia, 14- 17 August, 2007
- Yumoto K., C. T. Russell, B. J. Fraser, V. Angelopoulos, I. R. Mann, Mark Engebretson and P. J. Chi, Ultra Large Terrestrial International Magnetic Array: A Global Magnetometer Network for STP research, International CAWSES Symposium, Kyoto University, Japan, 23- 27 October, 2007
- Yumoto K., A. Ikeda, Y. Hirayama, M. Shinohara and MAGDAS Group, MAGDAS Preliminary Results, International CAWSES Symposium, Kyoto University, Japan, 23- 27 October, 2007
- Maeda G., S. Abe, K. Yumoto and the MAGDAS Group, MAGDAS Global Network and Its Data Availability, International CAWSES Symposium, Kyoto University, Japan, 23- 27 October, 2007
- Chi P.J., C. T. Russell, M. B. Moldwin, M. J. Engebretson, I. R. Mann, K. Yumoto, Mid- continent

Magnetoseismic Chain (McMAC) and Its Role in Future Magnetoseismic Research of Ultra Large Terrestrial International Magnetometer Array (ULTIMA), International CAWSES Symposium Kyoto University, Japan, 23-27 October, 2007

Kawano H., S. Abe, S. Takasaki, N. Maeda, and K. Yumoto, Monitoring the plasmaspheric plasma density with MAGDAS/CPMN magnetometer network, International CAWSES Symposium 2007/Oct/23-27, Kyoto, Japan.

Ueno T., K. Yumoto, T. Uozumi, K. Kitamura, S. Abe, Y. Numata, MAGDAS group, A New Index to Monitor Temporal and Long-Term Variations of the Equatorial Electrojet by MAGDAS/CPMN Real-Time Data: EE-Index, International CAWSES Symposium Kyoto University, Japan, 23-27 October, 2007

Ikeda A., K. Yumoto, M. Shinohara, A. Yoshikawa, K. Nozaki, A. Shinbori, sc-associated Ionospheric Electric Fields at Low Latitude: FM-CW Radar Observation, International CAWSES Symposium Kyoto University, Japan, 23-27 October, 2007

Hirayama Yuki, Kiyohumi Yumoto, Teiji Uozumi, Terumasa Tokunaga, Shinichi Watari and MAGDAS/CPMN Group, Characteristics of Equatorial Pi2 Pulsations Observed at the MAGDAS Stations, International CAWSES Symposium Kyoto University, Japan, 23-27 October, 2007

Yoshikawa A., Hall and Pedersen current closure in the 3D ionosphere, ISSI meeting for 3D-induction Ionosphere at International Space Science Institute in Bern, 5-9 November 2007

Yumoto K., H. Kawano, A. Yoshikawa, S. Ikemoto, G. Maeda, M. Hayakawa, K. Hattori, Tiger Liu, S. Saroso, M. Husni, D. Widarto, E.G. Ramos, C.M.G. Cardinal, R.E.S. Otadoy and MAGDAS Group, Space Weather and Seismo-Electromagnetics, International Workshop on Seismo-Electromagnetic Phenomena: Recent Progress, Bundung Indonesia, 6-7 November, 2007

Hattori K., D.S. Widarto, S. Saroso, M. Nishihashi, C. Yoshino, D. Kaida, E.Z. Gaffar, Y. Sudrajat, K. Yumoto, M. Husni, H. Subakti, K. Shiokawa and M. Hayakawa, Electromagnetic monitoring for crustal activity in Indonesia, International Workshop on Seismo-Electromagnetic Phenomena: Recent Progress, Bundung Indonesia, 6-7 November, 2007

Hattori K., T. Hirano, C. Yoshino, K. Yumoto, K. Shiokawa, S. Saroso and Q.H. Huang, ULF/ELF magnetic phenomena possibly associated with the 2004 Sumatra earthquakes, International Workshop on Seismo-Electromagnetic Phenomena: Recent Progress, Bundung Indonesia, 6-7 November, 2007

Saroso S., K. Hattori, M. Hayakawa, K. Shiokawa, and K. Yumoto, Seismo-electromagnetic signatures possibly related to the Sumatra Megathrust earthquakes of 26 December 2004 and 28 March 2005, International Workshop on Seismo-Electromagnetic Phenomena: Recent Progress, Bundung Indonesia, 6-7 November, 2007

Yumoto K., and MAGDAS Group, MAGnetic Data Acquisition System (MAGDAS) Project and Its Preliminary Results, IHY Africa Space Weather Workshop, Addis Ababa, Ethiopia, 12-16 Nov, 2007

Kiyohumi Yumoto and MAGDAS Group, MAGDAS Project for Space Weather and Its Preliminary Results, VI Latin American School of Geomagnetism-ELAG, Vassouras, Brazil, 25-30 Nov, 2007

Tokunaga Terumasa, Akimasa Yoshikawa, Teiji Uozumi, Kiyohumi Yumoto and CPMN Group, Mutual Information based clustering of Pi 2 magnetic pulsations observed at CPMN stations, AGU Fall Meeting 2007, San Francisco, USA, 10-14 December, 2007

Ikeda A., K. Yumoto, M. Shinohara, K. Nozaki, A. Yoshikawa, T. Uozumi, T. Tokunaga, Y. Hirayama, Characteristics of Pi2 Ionospheric Electric Pulsations, AGU Fall Meeting 2007, San Francisco, USA, 10-14 December, 2007

Morioka A., Y. Miyoshi, F. Tsuchiya, H. Misawa, K. Yumoto, R.R. Anderson, J. D. Menietti, and E. F. Donovan; Auroral particle acceleration and substorm onset, Earth-Sun system exploration energy coupling within and between plasma regimes, held on January 14- 18, 2008, at Kona, Hawaii, USA

Yumoto K., S. Ikemoto, M.G. Cardinal, T. Uozumi, S. Abe, G. Maeda, M Hayakawa, K. Hattori, K. Shiokawa, J.Y. Liu, M Ruhimat, S. Saroso, M Husni, D.S. Widarto, D. McNamara, E.G. Ramos, R.E.S. Otadoy, and MAGDAS Group, Space Weather and Seismo-Electromagnetics, International Workshop on Space and Lithosphere Environment Changes in Asia, Kanagawa, Japan, 1 March, 2008

Saroso S., K. Hattori, M Hayakawa, K. Shiokawa, K. Yumoto, and J. Y. Liu Some results of seismo-electromagnetic research at LAPAN, Indonesia, International Workshop on Space and Lithosphere Environment Changes in Asia, Kanagawa, Japan, 1 March, 2008

[b]

Yumoto Kiyohumi, IHY Activity in Japan, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Sounding rocket experiment to study the thermal electron heating in the Sq current, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Dual structure of auroral acceleration regions at substorm onsets as derived from Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Solovyev S. I. Liou Kan Meng
Ching Primary and Secondary magnetoseismic waves associated with Pi 2 magnetic pulsation, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Ground network measurements of the inner magnetosphere related to the ERG project, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Lucek
Elizabeth A. MAGDAS/CPMN Cluster-MAGDAS/CPMN conjunction study of Pi2 wave propagation in the inner magnetosphere, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Cowling Channel Formation in the 3D-Ionosphere, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

MAGDAS/CPMN Pc5 index for monitoring of the solar wind velocity: Improvement of local time and seasonal dependence, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Goldstein Jerry Solovyev S. I. Baishev D. G.
Statistical analysis of plasmopause features by using a ground magnetometer pair and IMAGE/EUV Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Bychkov Vasily V. Shevtsov Boris M
MAGDAS/CPMN DP2 type ionospheric electric field variation observed by FM-CWHF radar Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19- 24 May, 2007

Yumoto K., and MAGDAS/CPMN Group, MAGnetic Data Acquisition System (MAGDAS) for Space Weather Study, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19-24 May, 2007

Ikeda Akihiro; Manabu Shinohara; Akimasa Yoshikawa; Kenro Nozaki; Atsuki Shinbori; Kiyohumi Yumoto, How electric and magnetic fields change with solar wind variation during SC 2007
2007 5 19 24

Hirayama Yuki, T. Uozumi, K. Yumoto and the MAGDAS/CPMN Group Characteristics of Equatorial Pi 2 Pulsations Observed at the MAGDAS Stations 2007
2007 5 19 24

Fujimoto Akiko, Manabu Shinohara, Kiyohumi Yumoto and CPMN/MAGSAS Group, Study of the Relationship Between MeV Electron Flux at the Geosynchronous orbit and Storm-time Pc5 observed at CPMN stations, 2007
2007 5 19 24

Hirano Takashi, Shigeto Watanabe, Huixin-Liu, Kiyohumi Yumoto, A new empirical model of the thermospheric mass destiny obtained from the CHAMP satellite, 2007
5 19 24

Tokunaga Terumasa, Hiroko Kohta, Akimasa Yoshikawa, Teiji Uozumi, Hideaki Kawano, Kiyohumi Yumoto and CPMN/MAGDAS Group, Independent Component Analysis of Nightside Magnetospheric Forced Pi2 Oscillations observed at the CPMN Stations, 2007
2007 5 19 24

Sq CPMN/MAGDAS 2007 5 19 24

Shinohara M., A. Ikeda, K. Nozaki, V.V. Bychkov, B.M. Shevtsov, N. Nishitani, and K. Yumoto, Measurements of ionospheric electric field fluctuations by FM-CW HF radar in the field of view of the SuperDARN Hokkaido radar, SuperDARN Workshop 2007, Abashiri, Hokkaido, 4-8 June, 2007

Miyoshi Y., K. Seki, K. Shiokawa, N. Nishitani, T. Kikuchi, T. Ono, Y. Kasaba, A. Kumamoto, M. Hirahara, T. Takashima, K. Asamura, A. Matsuoka, K. Yumoto and ERG Working Group, Japanese geospace Exploration mission: The ERG project, SuperDARN Workshop 2007, Abashiri, Hokkaido, 4-8 June, 2007

Yumoto Kiyogumi and MAGDAS Group, Preliminary Results Obtained from MAGDAS Project at SERC, 31
23-24 July, 2007

31 onset
23-24 July, 2007

Kawano Hideaki, T. Teshima, J. Goldstein, S. Ohtani, K. Yumoto, Simultaneous estimations of the plasma density in the inner magnetosphere by CPMN ground magnetometers and IMAGE EUVI, 31
23-24 July, 2007

31 Huixin-Liu CHAMP
7 23 24

Cluster S.I. Solov'yev, D.G. Baishev CPMN
31 7 23 24

and Electric Pulsations at Low Latitude: FM-CW Radar Observations 31 , Pi2 Magnetic
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22- 25 November, 2007

Yumoto K.,

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20.3.1 JAXA IWSLEC in Asia
20.3.5 3.6 3

4.3.9 editor

()

Yumoto Kiyohumi, IHY Activity in Japan, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19-24 May, 2007

Yumoto K., and MAGDAS/CPMN Group, MAGnetic Data Acquisition System (MAGDAS) for Space Weather Study, Japan Geoscience Union Meeting 2007, Makuhari Messe, Chiba, 19-24 May, 2007

Yumoto K., K. Hattori and MAGDAS/CPMN Group, Space and Lithosphere Environment Changes in Indonesia, The 7th Science Council of Asia, Okinawa Convention Center, Japan, 13-17 June, 2007

Yumoto Kiyohumi and MAGDAS Group, Preliminary Results Obtained from MAGDAS Project, UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18-22 June, 2007

Yumoto Kiyohumi, and STPP Sub-Committee, IHY Asia/Pacific Regional Planning UN/ESA/NASA Workshop on Basic Space Science and the International Heliophysical Year 2007, National Astronomical Observatory of Japan, Tokyo, 18-22 June, 2007

Yumoto Kiyogumi and MAGDAS Group, Preliminary Results Obtained from MAGDAS Project at SERC, 31
23-24 July, 2007

Yumoto K. and MAGDAS Group, Seismo-Electromagnetics and Space Weather, Bilateral Seminar Italy-Japan on Electromagnetics in Seismic and Volcanic Areas, Port Plaza Chiba, Japan, 25-27 July, 2007

Yumoto K., T. Uozumi, Y. Hirayama, A. Ikeda, and MAGDAS/CPMN Group, MAGDAS Project and Its Preliminary Results, SGEPS 122
28 September - 1 October, 2007

Yumoto K., C. T. Russell, B. J. Fraser, V. Angelopoulos, I. R. Mann, Mark Engebretson and P. J. Chi, Ultra Large Terrestrial International Magnetic Array: A Global Magnetometer Network for STP research, International CAWSES Symposium, Kyoto University, Japan, 23-27 October, 2007

Tokunaga T., K. Yumoto et. al, Pi2
22-25 November, 2007

Yumoto K., 2007 Conductivity Anomaly
17-18 December, 2007

Yumoto K., 19
29-30 January, 2008

Yumoto K., S. Ikemoto, M.G. Cardinal, T. Uozumi, S. Abe, G. Maeda, M. Hayakawa, K. Hattori, K. Shiokawa, J.Y. Liu, M. Ruhimat, S. Saroso, M. Husni, D.S. Widarto, D. McNamara, E.G. Ramos, R.E.S. Otadoy, and MAGDAS Group, Space Weather and Seismo-Electromagnetics, International Workshop on Space and Lithosphere Environment Changes in Asia, Kanagawa, Japan, 1 March, 2008

()

Yumoto K., C. T. Russell, B. J. Fraser, V. Angelopoulos, I. R. Mann, and P. J. Chi, Ultra Large Terrestrial International Magnetic Array (ULTIMA): A Global Magnetometer Network for Space Physics Research, IAGA at the IUGG General Assembly 2007, Perugia, 2- 13 July, 2007

Yumoto K., and MAGDAS/CPMN Group, MAGnetic Data Acquisition System (MAGDAS) for Space Weather Study at SERC, IAGA at the IUGG General Assembly 2007, Perugia, 2- 13 July, 2007

Yumoto Kiyohumi, Akihiro Ikeda, Manabu Shinohara, Kenro Nozaki and MAGDAS Group, Electric and magnetic field changes at low latitudes during SC, Asia Oceania Geosciences Society 4th annual meeting, Queen Sirikit National Convention Centre, Bangkok, Thai, July 30- August 4, 2007

Yumoto K., S. Ikemoto, C.M.G. Cardinal and MAGDAS Group, MAGDAS Project for Monitoring Space and Lithosphere Weather, the IV International Conference "Solar-Terrestrial bonds and earthquake precursors", Institute of Cosmophysical Research and Radio Wave Propagation FEB RAS, Paratunka, Russia, 14- 17 August, 2007

Yumoto K., H. Kawano, A. Yoshikawa, S. Ikemoto, G. Maeda, M. Hayakawa, K. Hattori, Tiger Liu, S. Saroso, M. Husni, D. Widarto, E.G. Ramos, C.M.G. Cardinal, R.E.S. Otadoy and MAGDAS Group, Space Weather and Seismo-Electromagnetics, International Workshop on Seismo-Electromagnetic Phenomena: Recent Progress, Bundung, Indonesia, 6- 7 November, 2007

Yumoto K., and MAGDAS Group, MAGnetic Data Acquisition System (MAGDAS) Project and Its Preliminary Results, IHY Africa Space Weather Workshop, Addis Ababa, Ethiopia, 12- 16 Nov, 2007

Yumoto Kiyohumi and MAGDAS Group, MAGDAS Project for Space Weather and Its Preliminary Results, VI Latin American School of Geomagnetism ELAG, Vassouras, Brazil, 25- 30 Nov, 2007

(2007) 6

Annales Geophysicae 1

J. Atmos. Solar-Terrest. Phys. 1

The Royal Society

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Journal of Geophysical Research

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[a]

Uozumi, T., K. Yumoto, H. Kawano, A. Yoshikawa, and M. Itonaga, Pi2 source region in the magnetosphere deduced from CPMN data, *Planetary and Space Science*, 55, 849- 857, doi: 10.1016/j.pss.2006.03.01, Apr. 2007.

Kawano, H. and D.-H. Lee, Gradient methods applied to simulated ULF data: The effects of the ionospheric damping factor, *Journal of Geophysical Research*, 112, A07212, doi: 10.1029/2006JA011849, 17 July, 2007.

Maeda, N., S. Takasaki, H. Kawano, S. Ohtani, P. M. E. Décréau, J. G. Trotignon, S. I. Solov'yev, D. G. Baishev, and K. Yumoto, Simultaneous observations of the plasma density on the same field line by the CPMN ground magnetometers and the Cluster satellites, accepted for publication in *Advances in Space Research*, 2008.

Takasaki, S., N. Sato, A. Kadokura, H. Yamagishi, H. Kawano, Y. Ebihara, and Y.-M. Tanaka, Interhemispheric observations of field line resonance frequencies as a continuous function of ground latitude in the auroral zones, Accepted for publication in *Polar Science*, 2008.

[b] /

4.3.3

[a]

Kawano, Hideaki, Shuji Abe, Satoko Takasaki, and Kiyohumi Yumoto, Plasmaspheric dynamics estimated from ground magnetometers, Asia Oceania Geosciences Society 4th annual meeting, Queen Sirikit National Convention Centre, Bangkok, Thailand, July 30- August 4, 2007.

Takasaki, Satoko, Natsuo Sato, Hisao Yamagishi, Akira Kadokura, and Hideaki Kawano, Estimation of magnetospheric plasma density from field-line resonances observed at closely spaced conjugate pair stations in the auroral zone, Asia Oceania Geosciences Society 4th annual meeting, Queen Sirikit National Convention Centre, Bangkok, Thailand, July 30- August 4, 2007.

Abe, S., H. Kawano, J. Goldstein, S. Ohtani, S. I. Solov'yev, D. G. Baishev, and K. Yumoto, A plasmaspheric plume identified by IMAGE EUV imaging and ground-based plasma sounding through ULF waves, GEM (Global Environment Modeling) 2007 Conference, June 17- 22, 2007, Zermatt Resort, Utah.

Kawano, H., S. Abe, S. Takasaki, N. Maeda, and K. Yumoto, Monitoring the plasmaspheric plasma density with MAGDAS/CPMN magnetometer network, International CAUSES Symposium, October 23- 27, 2007, Kyoto, Japan.

Kawano, H., Plasmasphere observed with ISS- IMAP, SMILES International Workshop, March 17- 19, 2008, Kyodai- kaikan, Japan.

[b]

Uozumi, Teiji, Akimasa Yoshikawa, Masahiro Itonaga, Shinichi Ohtani, Hideaki Kawano, S. I. Solovyev, Kan Liou, Ching Meng, and Kiyohumi Yumoto, Primary and Secondary magnetoseismic waves associated with Pi 2 magnetic pulsation, 2007 2007 5 19 ()-24 ()

Tokunaga, Terumasa, Hiroko Kohta, Akimasa Yoshikawa, Teiji Uozumi, Hideaki Kawano, Kiyohumi Yumoto, and the MAGDAS/CPMN Group, Independent Component Analysis of Nightside Magnetospheric Forced Pi 2 Oscillations Observed at the CPMN Stations, 2007 2007 5 19 ()-24 ()

Abe, Shuji, Naoya Maeda, Hideaki Kawano, Jerry Goldstein, Shinichi Ohtani, S. I. Solovyev, D. G. Baishev, and Kiyohumi Yumoto, Statistical analysis of plasmopause features by using a ground magnetometer pair and IMAGE/EUV, 2007 2007 5 19 ()-24 ()

Kawano, Hideaki, Shinichi Ohtani, Teiji Uozumi, Shuji Abe, Kentarou Kitamura, Yoshimasa Tanaka, Kiyohumi Yumoto, Elizabeth A. Lucek, and the MAGDAS/CPMN Group, Cluster- MAGDAS/CPMN conjunction study of Pi2 wave propagation in the inner magnetosphere, 2007 2007 5 19 ()-24 ()

Cluster _____ S. I. Solovyev D. G. Baishev CPMN 2007 2007 5 19 ()-24 ()

ERG 2007 2007 5 19 ()-24 ()

Kawano, Hideaki, T. Teshima, J. Goldstein, S. Ohtani and K. Yumoto, Simultaneous estimations of the plasma density in the inner magnetosphere by CPMN ground magnetometers and IMAGE EUV, 31 2007 7 23 24

Cluster _____ S. I. Solovyev D. G. Baishev CPMN 31 2007 7 23 24

2007 7 23 24 31

16 () 17 ()

Kawano, Hideaki, Shinichi Ohtani, Teiji Uozumi, Terumasa Tokunaga, Hiroko Kohta, Akimasa Yoshikawa, Shuji Abe, Kentarou Kitamura, Yoshimasa Tanaka, Kiyohumi Yumoto, Elizabeth A. Lucek, and MAGDAS/CPMN Group, Cluster- MAGDAS/CPMN conjunction study of Pi2 wave characteristics in the inner magnetosphere, 122 2007 9 28 10 1

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editor

Kawano, Hideaki, Shuji Abe, Satoko Takasaki, and Kiyohumi Yumoto, Plasmaspheric dynamics estimated from ground magnetometers, Asia Oceania Geosciences Society 4th annual meeting Queen Sirikit National Convention Centre, Bangkok, Thailand, July 30 - August 4, 2007. Advances in Space Research: 1 .

2007 6 17 22

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LOC: International CAWSES Symposium, October 23- 27, 2007, Kyoto, Japan.

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"Ionosphere-magnetosphere coupling and induction effects in a three-dimensional ionosphere model"

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4.3.2

[a] /

Tokunaga, T., H. Kohta, A. Yoshikawa, T. Uozumi, and K. Yumoto (2007); Global features of Pi 2 pulsations obtained by Independent Component Analysis, *Geophys. Res. Lett.*, Vol. **34**, L14106, doi: 10.1029/2007GL030174

T. Uozumi, K. Yumoto, K. Kitamura, S. Abe, Y. Kakinami, M. Shinohara, A. Yoshikawa, H. Kawano, T. Ueno, T. Tokunaga, D. McNamara, J. K. Ishituka, S. L. G. Dutra, B. Dantie, V. Dounbia, O. Obrou, A. B. Rabiou, I. A. Adimula, M. Othman, M. Faires, R. E. S. Otadoy, and MAGDAS Group, New index to monitor temporal and long-term variations of the Equatorial Electrojet by MAGDAS/CPMN real-time data: EE-Index, EPS-letter, accepted.

O. Amm, A. Aruliah, S.C. Buchert, R. Fujii, J.W. Gjerloev, A. Ieda, T. Matsuo, C. Stolle, H. Vanhamäki, and A. Yoshikawa, Understanding the electrodynamics of the 3-dimensional high-latitude ionosphere: present and future, *Annales Geophysicae*, accepted.

Y.-M. Tanaka, K. Yumoto, A. Yoshikawa, M. Itonaga, M. Shinohara, S. Takasaki, and B. J. Fraser, Horizontal amplitude and phase structure of low-latitude Pc3 pulsations around the dawn terminator, *Journal of Geophysical Research*, accepted.

4.3.3

[a]

A. Yoshikawa, Cowling channel formation model in the 3D-ionosphere, IAGA at the IUGG General Assembly 2007, Perugia, 2-13 July, 2007

Kohta H, A. Yoshikawa, T. Uozumi, K. Yumoto and the MAGDAS/CPMN Group, Analysis of Sq Current Structures Obtained from Ground-based Magnetic Field Observations, IAGA at the IUGG General Assembly 2007, Perugia, 2-13 July, 2007

Ikeda A., M. Shinohara, A. Yoshikawa, K. Nozaki, A. Shinbori, K. Yumoto, Change in Ionospheric Electric Field and Geomagnetic Field due to Solar Wind Variations at the time of SC, IAGA at the IUGG General Assembly 2007, Perugia, 2-13 July, 2007

A. Yoshikawa, 3D-Cowling effect in the Sq current system, of ISSI teams meeting for "Ionosphere-magnetosphere coupling and induction effects in a three-dimensional ionosphere model", International Space Science Institute, Bern, Switzerland, 5-9 September, 2007.

Ikeda A., K. Yumoto, M. Shinohara, A. Yoshikawa, K. Nozaki, A. Shinbori, sc-associated Ionospheric Electric Fields at Low Latitude: FM-CW Radar Observation, International CAWSES Symposium, Kyoto University, Japan, 23-27 October, 2007

Tokunaga T., A. Yoshikawa, T. Uozumi, K. Yumoto and CPMN Group, Mutual Information based clustering of Pi 2 magnetic pulsations observed at CPMN stations, AGU Fall Meeting 2007, San Francisco, USA, 10-14 December, 2007

Ikeda A., K. Yumoto, M. Shinohara, K. Nozaki, A. Yoshikawa, T. Uozumi, T. Tokunaga, Y. Hirayama, Characteristics of Pi2 Ionospheric Electric Pulsations, AGU Fall Meeting 2007, San Francisco, USA, 10-14 December, 2007

A. Yoshikawa, Hall conjugates current analysis for extraction of Cowling effect from nonuniform-anisotropically conducting ionospheric current system, EISCAT International Symposium NIPR, Tokyo, 25-26 March, 2008.

[b]

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Theory and modeling group leader of ISSI teams for "Ionosphere- magnetosphere coupling and induction effects in a three- dimensional ionosphere model", International Space Science Institute, Bern, Switzerland

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4.3.8

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A. Yoshikawa, 3D- Cowling effect in the Sq current system, of ISSI teams meeting for "Ionosphere- magnetosphere coupling and induction effects in a three- dimensional ionosphere model", International Space Science Institute, Bern, Switzerland, 5- 9 September, 2007.

2007 4

Annales Geophysicae 1
 Earth and Planet and Space 3

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[a] /
 Mukougawa, H., T. Hirooka, T. Ichimaru, and Y. Kuroda: Hindcast AGCM experiments on the predictability of stratospheric sudden warming Nonlinear Dynamics in Geosciences, Edited by A. A.

Tsonis and J. B. Elsner, Springer-Verlag New York, 221- 233, 604 pp, 2007.

Hirooka, T., T. Ichimaru, and H. Mukougawa: Predictability of stratospheric sudden warmings as inferred from ensemble forecast data: Intercomparison of 2001/02 and 2003/04 winters. *J. Meteor. Soc. Japan*, 85(6), 919-925, 2007.

, : 2005/06 , 216 ,
2005/06 , 151- 159, 2007.

[b] / ,

, : . 21 ,
, 58- 61, 2007 6 .

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60- 69, 2007.

, : 2001- 2006 . 19
, 36- 41, 2008 3 .

4.2.3

[a]

Hirooka, T., T. Ichimaru and H. Mukougawa: Occurrence patterns of stratospheric sudden warming events in view of the stratosphere- troposphere coupled system and their predictability. (invited), WCRP Seasonal Predictability Workshop, 5 June 2007, Barcelona, Spain

Ichimaru, T., T. Hirooka and H. Mukougawa: Predictability of stratospheric sudden warming in the Northern Hemisphere as inferred from ensemble forecast data. IUGG XXIV General Assembly, 4 Jul. 2007, Perugia, Italy.

Hirooka, H. Mukougawa, T. Ichimaru and Y. Kuroda : A plausible precursor of a stratospheric sudden warming event as inferred from hindcast AGCM experiments. IUGG XXIV General Assembly, 11 Jul. 2007, Perugia, Italy.

Hirooka, T., T. Ichimaru and H. Mukougawa: Predictability of stratospheric sudden warming events and associated stratosphere- troposphere coupling system Chapman Conference on the Role of the Stratosphere in Climate and Climate Change, 27 Sep. 2007, Santorini, Greece.

Hirooka, T., M. Nagae, T. Ichimaru and H. Mukougawa: Transient meridional circulations in the stratosphere associated with stratospheric sudden warmings. SMILES International Workshop, 19 Mar. 2008, Kyoto, Japan.

[b]

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[a] /

Mukougawa, H., T. Hirooka, T. Ichimaru, and Y. Kuroda: Hindcast AGCM experiments on the predictability of stratospheric sudden warming Nonlinear Dynamics in Geosciences, Edited by A. A.

Tsonis and J. B. Elsner, Springer-Verlag New York, 221- 233, 604 pp, 2007.

Mukougawa, H., and T. Hirooka: Predictability of the downward migration of the Northern Annular Mode: A case study for January 2003, *J. Meteor. Soc. Japan*, 85(6), 861- 870, 2007.

Hirooka, T., T. Ichimaru, and H. Mukougawa: Predictability of stratospheric sudden warmings as inferred from ensemble forecast data: Intercomparison of 2001/02 and 2003/04 winters. *J. Meteor. Soc. Japan*, 85(6), 919- 925, 2007.

Hei, H, T. Tsuda and T. Hirooka: Characteristics of atmospheric gravity wave activity in the polar regions revealed by GPS radio occultation data with CHAMP, *J. Geophys Res.*, 113, D04107, doi: 10.1029/2007JD008938, 2008.

, : 125 . , 54(5), 399- 402, 2007.

, : 2005/06 , 216 ,

2005/06 , 151- 159, 2007.

[b] / ,

, : 21 ,

, 58- 61, 2007 6 .

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18 , 5- 8, 2007 7 .

, : 2005/06 , 44,

60- 69, 2007.

, : 2001- 2006 . 19

, , 36- 41, 2008 3 .

4.3.3

[a]

Hirooka, T., T. Ichimaru and H. Mukougawa: Occurrence patterns of stratospheric sudden warming events in view of the stratosphere- troposphere coupled system and their predictability. (invited), WCRP Seasonal Predictability Workshop, 5 June 2007, Barcelona, Spain

Mukougawa, H., Y. Kuroda and T. Hirooka: Predictability of stratosphere- troposphere coupling during stratospheric sudden warming events in the Northern hemisphere. (invited), WCRP Seasonal Predictability Workshop, 5 June 2007, Barcelona, Spain

Ichimaru, T., T. Hirooka and H. Mukougawa: Predictability of stratospheric sudden warming in the Northern Hemisphere as inferred from ensemble forecast data. IUGG XXIV General Assembly, 4 Jul. 2007, Perugia, Italy.

Hirooka, T., H. Mukougawa, T. Ichimaru and Y. Kuroda: A plausible precursor of a stratospheric sudden warming event as inferred from hindcast AGCM experiments. IUGG XXIV General Assembly, 11 Jul. 2007, Perugia, Italy.

Hirooka, T., T. Ichimaru and H. Mukougawa: Predictability of stratospheric sudden warming events and

associated stratosphere-troposphere coupling system Chapman Conference on the Role of the Stratosphere in Climate and Climate Change, 27 Sep. 2007, Santorini, Greece.

Kitamura, M., T. Hirooka, K. Shibata and H. Akiyoshi: Tidal waves in the stratosphere and lower mesosphere as inferred from CCM simulations. International CAWSES Symposium, 24 Oct. 2007, Kyoto, Japan.

Hirooka, T., M. Kitamura, K. Shibata and H. Akiyoshi: Tidal waves in the upper stratosphere and lower mesosphere as inferred from coupled chemistry-climate model simulations. 2007 AGU Fall Meeting, 14 Dec. 2007, San Francisco, USA.

Hirooka, T., M. Nagae, T. Ichimaru and H. Mukougawa: Transient meridional circulations in the stratosphere associated with stratospheric sudden warmings. SMILES International Workshop, 19 Mar. 2008, Kyoto, Japan.

[b]

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American Meteorological Society COSPAR(Committe on Space Research) Associate
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, WCRP Seasonal Predictability Workshop, Barcelona, Spain, 3- 10 June 2007.
, IUGG XXIV General Assenbly, Perugia, Italy, 30 June- 14 July 2007.
, Chapman Conference on the Role of the Stratopshere in Climate and Climate Change, Santorini,
Greece, 22- 30 September 2007.
, 2007 AGU Fall Meeting, San Francisco, USA, 9- 15 December 2007.
, Seminar at Prof. D. G. Andrews, AOPP, University of Oxford, Oxford, UK, 25- 30
January 2008

4.3.8

International CAWSES Symposium

4.3.9

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, 54(5), 399- 402, 2007.

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4.3.1

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4.3.2

[a] /

Miyoshi, Y., and H. Fujiwara: Gravity waves in the thermosphere simulated by a general circulation model, *J. Geophys. Res.*, Vol. 113, D01101, doi:10.1029/2007JD008874 2008

Ogawa, T., Y. Miyoshi, Y. Otsuka, T. Nakamura and K. Shiokawa: Equatorial GPS ionospheric scintillations over Kototabang, Indonesia and their relation to atmospheric waves from below, *Earth, Planets and Space*, in press, 2008.

[b] /

, , , , 18 : , 5-8, 2007 7 .
19 PANSY 39 52 2007 12
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19 PANSY 120-124
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4.3.3

[a]

Miyoshi, Y., and H. Fujiwara: Upward propagation of atmospheric waves and its impact on the general circulation in the thermosphere, CAWSES Symposium, Kyoto, Japan, October 23- 27, 2007 (invited).

Fujiwara, H., and Y. Miyoshi: Generation of the thermospheric localized structures simulated by a whole atmosphere GCM, CAWSES Symposium, Kyoto, Japan, October 23- 27, 2007 (invited).

Shinagawa, H., H. Shimazu, N. Terada, H. Jin, Y. Kubo, K. Fukazawa, K. Tsubouchi, T. Obara, H. Fujiwara, S.

Fujita, Y. Miyoshi, A. Nakanizo and T. Tanaka: Development of the Solar- Terrestrial environment integrated simulator, CAWSES Symposium, Kyoto, Japan, October 23- 27, 2007.

Jin, H., Y. Miyoshi, H. Fujiwara, H. Shinagawa, M. Ishii, Y. Otsuka, A. Saito: Development of the Whole Atmosphere and Ionosphere Vertical Coupling Model, CAWSES Symposium, Kyoto, Japan, October 23- 27, 2007.

Fujiwara, H., and Y. Miyoshi: GCM simulations of the thermospheric disturbances produced by effects from below and upper regions AOGS meeting, Bangkok, Thai, July, 2007.

[b]

GCM , 2007

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, NAO/PNA , 5

, 11- 18

, 2008

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4.2.3

[a]

Sakai, D., and H. Itoh, Climate change in temperature anomaly fields. IUGG2007, Perugia()

2007 7

Shimose, K., and T. Kawano: Numerical simulation of tornadoes generated by a typhoon near a coastal

line. The 8th WRF Users' Workshop, Boulder, Colorado, U.S.A., June 2007.

[b]

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4.3.2

[a] /

Itoh, H., A. Mori, and S. Yukimoto, 2007: Independent components in the Northern Hemisphere winter: Is the Arctic Oscillation independent? J. Meteor. Soc. Japan, 85, 825-846

[b] /

, NAO/PNA, 5
, 11-18

4.3.3

[a]

Itoh, H., Independent components in the Northern Hemisphere winter - Is the Arctic Oscillation independent? IUGG2007, Perugia() 2007 7

Sakai, D., and H. Itoh, Climate change in temperature anomaly fields. IUGG2007, Perugia() 2007 7

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[a] /

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[a]
Shimose, K., and T. Kawano: Numerical simulation of tornadoes generated by a typhoon near a coastal line. The 8th WRF Users' Workshop, Boulder, Colorado, U.S.A., June 2007.

[b]
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4.2.4 Fund

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wave activity flux

4.3.2

[a]

Kawano-Sasaki, K and S. Miyahara: A study on three-dimensional structures of the ionospheric dynamo currents induced by the neutral winds simulated by the Kyushu-GCM JAS-TP (revision submitted)

[b]

4.3.3

[a]

Y. Kawatani., M. Takahashi, K. Sato, S. Miyahara, and S. Watanabe: 3-D Activities of Equatorial Gravity Waves Simulated in a High-Resolution AGCM, Chapman Conference 28th on The Role of the Stratosphere in Climate and Climate Change Thera Foundation Conference Center, Santorini, Greece, 24-28 September 2007

Y. Kawatani, M. Takahashi, S. Watanabe, S. Miyahara, K. Sato: 3-D Activities of Equatorial Gravity Waves in a High-Resolution AGCM, International CAWSES Symposium, Kyoto, Japan, October, 23-27, 2007

[b]

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Three Dimensional Wave Activity Flux

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Laplace

4.3.2

[a]

Tanaka, K.-K., Yamamoto, T., Watanabe, S., Nakajima, K., 2008: Analytic model of upper tropospheric clouds in the tropical Hadley cell, *Earth, Planets Space*, Vol. 60, pp. 219- 228

Ishiwatari, M., Nakajima, K., Takehiro, S., Hayashi, Y.-Y., 2007: Dependence of climate states of gray atmosphere on solar constant: From the runaway greenhouse to the snowball states. *J. Geophys. Res.*, Vol. 112, No. D13, D13120 <http://dx.doi.org/10.1029/2006JD007368>

, , , , 2007: (Moist Convection in Jupiter's Atmosphere) , (), vol. 22, p. 101- 106

[b]

Hayashi, Y.-Y., Ishiwatari, M., Yamada, Y., Morikawa, Y., Takahashi, Y.O., Nakajima, K., Odaka, M., Takehiro, S., 2007: Equatorial precipitation patterns in aqua-planet experiments: effects of vertical turbulent mixing processes. *CGER's supercomputer activity report*, vol. 14- 2005, 69 - 76

Nakajima, K., Odaka, M., Sugiyama, K., Kitamori, T., 2007: Numerical experiment on the interaction between large-scale atmospheric motion and cumulus convection: mechanism of spontaneous large-scale stationary concentration of cloud activity, *CGER's supercomputer activity report*, vol. 14- 2005, 55- 60.

, , , , 2007: H₂O, NH₃ NH₄SH , 21 , 5- 8

4.3.3

[a]

Sugiyama, K., Odaka, M., Nakajima, K., Hayashi, Y.-Y., "Numerical Modeling of Moist Convection in Jupiter's Atmosphere and Future Jupiter Probe Mission", 5th International Planetary Probe Workshop, Bordeaux (France), 2007/06/25

Yukihiro Takahashi, Kensuke Nakajima, Takeshi Sakanoi, Ko-ichiro Sugiyama, Satoru Takeuchi, Takeshi Imamura, Takehiko Satoh, "Monitoring of Atmospheric Dynamics by Jupiter Orbiter", Asia Oceania Geosciences Society(AOGS) 2007, Bangkok(Thailand), 2007/08/04

Sakanoi, T., Y. Takahashi, N. Terada, F. Tsuchiya, T. Horinouchi, K. Nakajima, M. Taguchi, A. Yamazaki, M. Suzuki, N. Iwagami, K. Yoshida, M. Ueno, Y. Kasaba, T. Imamura, T. Abe, S. Sawai, TOPS mission team TOPS: a Future Space Telescope Mission for Planetary Atmospheric Observation (Invited), AOGS 2007 4th Annual Meeting Bangkok, Thai, Aug 4, 2007.

Ishiwatari, M., Nakajima, K., Morikawa, Y., Takahashi, Y. O., Odaka, M., Kuramoto, K., Hayashi, Y.-Y., "Numerical Experiment On An Atmospheric Circulation Of A Synchronously Rotating Planet", 39th Meeting of the AAS Division for Planetary Sciences, Oct. 07 - 12, 2007, Orlando, FL, USA.

Sugiyama, K., Odaka, M., Nakajima, K., Hayashi, Y.-Y., "Numerical Modeling of Moist Convection in Jupiter's Atmosphere", Workshop on Planetary Atmospheres 2007, Greenbelt, Maryland, US, November 6, 2007.

Nakajima, K., Yamada, Y., Takahashi, Y. O., Ishiwatari, M., Takaya, K., Ohfuchi, W., Hayashi, Y.-Y., "On the varieties of tropical precipitation patterns forced by an SST anomaly on the equator: some expectations and results", APE Workshop 2007, 14 November 2007. Chiba Institute of Science, Japan
Hayashi, Y.-Y., Yamada, Y., Takahashi, Y. O., Ishiwatari, M., Nakajima, K., Ohfuchi, W., GFD Dennou

Club, "On the varieties of spontaneously generated tropical precipitation patterns", APE Workshop 2007, 13 November 2007. Chiba Institute of Science, Japan.

[b]

, 2007
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Workshop on Planetary Atmospheres 2007, Greenbelt, Maryland. US, November 6- 7, 2007.
Outer Planet Assessment Group 2007, Greenbelt, Maryland. US, November 8- 9, 2007.

4.3.8

2008 3 13

4.3.9

editor

4.3.1

- (1)
- (2)
- (3)
- (4)

Laplace

4.3.2

[a]

, 2008
, in press.
, 2007: (Moist Convection in Jupiter's
Atmosphere) , (), vol. 22, p. 101- 106

[b]

Nakajima, K., Odaka, M., Sugiyama K., Kitamori, T., 2007: Numerical experiment on the interaction
between large- scale atmospheric motion and cumulus convection: mechanism of spontaneous
large- scale stationary concentration of cloud activity, CGER's supercomputer activity report,
vol. 14- 2005, 55- 60.

, 2007: H2O, NH3 NH4SH , 21
, 5- 8
, 2007: H2O, NH3 NH4SH
, pp. 181.

4.3.3

[a]

Sugiyama, K., Odaka, M., Nakajima, K., Hayashi, Y.- Y., "Numerical Modeling of Moist Convection in
Jupiter' s Atmosphere and Future Jupiter Probe Mission", 5th International Planetary Probe Workshop,
Bordeaux (France), 2007/06/25

Yukihiro Takahashi, Kensuke Nakajima, Takeshi Sakanoi, Ko- ichiro Sugiyama, Satoru Takeuchi, Takeshi
Imamura, Takehiko Satoh, "Monitoring of Atmospheric Dynamics by Jupiter Orbiter", Asia Oceania
Geosciences Society(AOGS) 2007, Bangkok(Thailand), 2007/08/04

Sugiyama, K., Odaka, M., Nakajima, K., Hayashi, Y.- Y., "Numerical Modeling of Moist Convection in
Jupiter's Atmosphere", Workshop on Planetary Atmospheres 2007, Greenbelt, Maryland US,
November 6, 2007.

[b]

, 2007
, 2007/05/14
WG, TOPS , TOPS , 2007

, 2007/05/20

2007/05/20

, 2007

, 2007 7 27

2007, 2007 8 8

2007, 2007 8 8

, 2007 9 27

2007 9 27

WG, 2007 9 27

, 2007 9 27

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, 2007 10 16

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, 2007 11 20

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, 2008 3 3

4.3.4

4.3.5

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4.3.7

5th International Planetary Probe Workshop, Bordeaux (France), 2007/06/25

4.3.8

4.1

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M M

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4.2

4.2.1

[a]

[b]

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:
:

[c]

4.2.2

[a] /

Nobuki Kame and Koji Uchida: Seismic radiation from dynamic coalescence and the reconstruction of dynamic source parameters on a planar fault, submitted to Geophysical Journal International, 2007.

Nobuki Kame, Shuji Saito and Kenji Oguni: Quasi- static analysis of strike fault growth in layered media, Geophysical Journal International, accepted for publication, 2008.

Toyokuni, G. and H. Takenaka: ACE - A FORTRAN subroutine for Analytical Computation of Effective grid parameters for finite- difference seismic waveform modeling with standard Earth models, Computers and Geosciences, in press, 2008.

JafarGandomi, A. and H. Takenaka: Efficient FDTD algorithm for plane- wave simulation for vertically heterogeneous attenuative media, Geophysics, 72(4), H43- H45, 2007.

[b] /

4.2.3

[a]

[1] 200

The role of an aquifer in generating continuous tremor at the shallow part of Nakadake, Aso, volcano

[2] 2007 AGU Fall Meeting 2007 12 10 14 , (San Francisco, CA, USA)

Nobuki Kame, Shuji Saito, and Kenji Oguni, Quasi- static analysis of strike fault growth in layered media, T33C- 1485.

Toyokuni, G. and H. Takenaka: Analytical computation of effective grid parameters for the finite-difference seismic waveform modeling with the PREM, IASP91, SP6, and AK135, S43B-1322.
 Takenaka, H., Y. Yamamoto and H. Yamasaki: High-resolution source imaging of the 2007 Niigataken Chuetsu-oki earthquake from dense strong-motion networks: focus on the first 5 seconds of the rupture process, S31A-0208.

[]

Takenaka H. and A. JafarGandomi: Multi-component 1D viscoelastic FDM for plane-wave incidence, 2nd International Workshop on Long-Period Ground Motion Simulation and Velocity Structures Earthquake Research Institute, University of Tokyo, Tokyo, November 8-9, 2007.

[b]

[1] 2007 2007 8 29 31

: , B-2, 237-238, 2007.

[2] 2007 117 2007 10 6 8 ,

: 117 , 69-71, 2007.

[3] 2007 10 24 26 ,

JafarGandomi, A. and H. Takenaka: Attenuation estimation from VSP data by using the frequency shift method, P3-003.

: 2007 , P1-077.

: , D11-10.

[4] 2007 2007 11 13 15 ,

: P 5 , 2007 , 504-505, 2007.

4.2.4 Fund

4.3

4.3.1

4.3.2

[a] /

Satoshi Kaneshima, Taro Okamoto, and Hiroshi Takenaka,

Evidence for a metastable olivine wedge inside the subducted Mariana slab,
Earth and Planetary Science Letters, 258, 219-227, 2007

[b] /

4.3.3

[a]

[1] 200

The role of an aquifer in generating continuous tremor at the shallow part of Nakadake, Aso, volcano

[b]

[1] 200

4.3.4

(C)(2)

4.3.5

, AGU

4.3.6

1

4.3.7

4.3.8

Editor of EPS (Earth, Planets, Science).
 Journal of Geophysical Research
 Geofisica internacional

4.3.1

(1)

(2)

(3)

(4)

(5)

(6)

(7)

(8)

(9)

(10)

4.3.2

[a] /

Toyokuni, G. and H. Takenaka: ACE - A FORTRAN subroutine for Analytical Computation of Effective grid parameters for finite- difference seismic waveform modeling with standard Earth models, *Computers and Geosciences*, in press, 2008

Taro Okamoto and Hiroshi Takenaka: Effect of near- source trench structure on teleseismic body waveforms: an application of a 2.5D FDM to the Java Trench, *Advances in Geosciences, Solid Earth Science Volume*, edited by Kenji Satake, World Scientific Publishing Company, Singapore, in press, 2008

Takenaka, H. and Y. Fujii: A compact representation of spatio- temporal slip distribution on a rupturing fault, *Journal of Seismology*, 12(2), 281- 293 (DOI:10.1007/s10950- 007- 9087- 6), 2008

JafarGandomi, A. and H. Takenaka: Efficient FDTD algorithm for plane- wave simulation for vertically heterogeneous attenuative media, *Geophysics*, 72(4), H43- H45, 2007.

Kaneshima, S., T. Okamoto, and H. Takenaka: Evidence for a metastable olivine wedge inside the subducted Mariana slab, *Earth and Planetary Science Letters*, 258(1- 2), 219- 227, 2007

[b] /

, 2007.

, Vol.19 No.2, 55- 56

4.3.3

[a]

[1] AOGS2007 2007 7 30 8 3 Bangkok

Okamoto, T. and H. Takenaka: Source process of the July 17, 2006 Off Java Island earthquake analyzed by 2.5D FDM computations, SE19- A0018

[2] 2007 AGU Fall Meeting (2007 12 10 14 , San Francisco, CA, USA)

Toyokuni, G. and H. Takenaka: Analytical computation of effective grid parameters for the finite-difference seismic waveform modeling with the PREM, IASP91, SP6, and AK135, S43B- 1322.

Takenaka, H., Y. Yamamoto and H. Yamasaki: High-resolution source imaging of the 2007 Niigataken Chuetsu-oki earthquake from dense strong-motion networks: focus on the first 5 seconds of the rupture process, S31A- 0208.

Yamamoto, Y. and H. Takenaka: Rupture process of the 2007 Noto Hanto earthquake inferred from local P-wave records: second hypocenter, initial rupture, main rupture, asperity and killer pulse, S13A- 1059.

Okamoto, T. and H. Takenaka: Resolution analysis of teleseismic waveform inversion of rupture process of tsunami earthquake using 1D and 2.5D Green's functions, S51B- 0501.

[]

Takenaka H. and A. JafarGandomi: Multi-component 1D viscoelastic FDM for plane-wave incidence, 2nd International Workshop on Long-Period Ground Motion Simulation and Velocity Structures Earthquake Research Institute, University of Tokyo, Tokyo, November 8-9, 2007.

[b]

[1] 2006 (5 19 24 ,)
: Source Process of The July 17, 2006 Off Java Island Earthquake by Using a 2.5D FDM Computations (2), S151- P005.

: P , Z255- P015.

[2] 2007 2007 8 29 31

:

2007 B- 2, 237- 238, 2007.

[3] 2007 10 24 26 ,

JafarGandomi, A. and H. Takenaka: Attenuation estimation from VSP data by using the frequency shift method, P3- 003.

: P 2007 2

, A12- 02

: 2007

, P1- 077.

:

D11- 10

: P

, A22- 12

[4] 117 2007 10 6 8 ,

:

117 , 69- 71, 2007.

[5] 2007 2007 11 13 15 ,

1

: P

2007 , 430- 431, 2007.

:

P

2007 , 504- 505, 2007.

5

4.3.4

(C)(2)

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(A)

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(B)
(C)
(B) (2006-B-03)
345
345.3

435

, RAS, EAGE, AGU, SSA, SEG, ASA, SIAM

436

2007 JICA (2)

()

8 18 I()

JICA () Rami IBRAHIM
("1-D Velocity Model for
Syria From Local Earthquake Data")

437

2006 12 9-16 AGU

438

439

editor

Bulletin of Seismological Society of America (1); Earth Planets
and Space (1); Geophysical Journal International (1); Geophysics (1); Journal of Seismology (1);
Tectonophysics (1)

4.3.1

4.3.2

[a] /

Nobuki Kame and Koji Uchida, Seismic radiation from dynamic coalescence and the reconstruction of dynamic source parameters on a planar fault, submitted to Geophysical Journal International, 2007.

Nobuki Kame, Shuji Saito and Kenji Oguni, Quasi- static analysis of strike fault growth in layered media, Geophysical Journal International, accepted for publication, 2008.

Ryosuke Ando, Nobuki Kame and Teruo Yamashita, An efficient boundary integral equation method applicable to the analysis of non- planar fault dynamics, Earth Planets and Space, 59, 363- 373, 2007.

[b] /

4.3.3

[a]

Nobuki Kame, Shuji Saito, and Kenji Oguni, Quasi- static analysis of strike fault growth in layered media, T33C- 1485, AGU Fall Meeting. 12 Dec. 2007.

[b]

Ariane Ducellier, A new Hybrid FDM- BIEM approach for dynamic rupture simulation, 2007 10 25
Coalescence Phase, 2007 10 25

4.3.4

19 2007

600

4.3.5

American Geophysical Union

4.3.6

ASC & SSJ 2008

2007 10 25

4.3.7

2007 12 AGU

4.3.8

19

2007 8 17

4.3.9

editor

19

, 2007 4 17 .

2007 6

52

23-26 2007 7

Earth Planets and Space (1); Geophysical Journal International (2).

4.1

4

4.2

4.2.1

[a]

[b]

[c]

Clementine

Oriente Basin

20

4.2.2

[a] /

Oshigami, S. and Naniki, N., Cross-sectional Profiles of Baltis Vallis Channel on Venus: Reconstructions from Magellan SAR Brightness Data, *Icarus*, 190, 1-14, 2007

Yoku Torii and Shoichi Yoshioka, Physical conditions producing slab stagnation: Constraints of the Clapeyron slope, mantle viscosity, trench retreat, and dip angles. *Tectonophysics*, 445, 200-209 (2007) .

[b] /

4.2.3

[a]

[b]

, Seismological and experimental constraints on metastable phase transformations and rheology of the Mariana slab, 2007, 1214-008, 2007 5 .

, P1-020, 2007 10 .

, 660km

2 3

, 2007 11

, 2007 11

4.2.4

Fund

4.3

4.3.1

(1) Geomagnetic Jerk

(2)

(3)

4.3.2

[a] /

Nakada, M., 2007. Quaternary glacial cycles, Earth's rotation and twentieth-century global sea level rise, 46, 257-264.

Nakada, M., 2007. True polar wander associated with continental drift on a hypothetical Earth, Earth, Planets and Space, 59, 513-522.

Tahara, M., Uehira, K., Shimizu, H., Nakada, M., Yamada, T., Mochizuki, K., Shinohara, M., Nishino, M., Hino, R., Yakiwara, H., Miyamachi, H., Umakoshi, K., Goda, M., Matsuwo, M. and Kanazawa, T., 2008. Seismic velocity structure around the Hyuganada region, Southwest Japan, derived from seismic tomography using land and OBS data and its implications for interplate coupling and vertical crustal uplift, Physics of the Earth and Planetary Interiors, 167, 19-33.

[b] /

4.3.3

[a]

[b]

4.3.4

(B)
17340132
(2)

JAMSTEC

4.3.5

American Geophysical Union

4.3.6

4.3.7

4.3.8

4.3.9

editor

Geophysical Journal International, 2

4.3.1

()
()
()
()
()

4.3.2

[a] /

Shoichi Yoshioka and Koji Murakami, Temperature distribution of the upper surface of the subducted Philippine Sea plate, southwest Japan, from a 3-D subduction model: relation to large interplate and low-frequency earthquakes. *Geophysical Journal International*, 171, 302-315 (2007)

Shoichi Yoshioka, Difference in the maximum magnitude of interplate earthquakes off Shikoku and in the Hyuganada region, southwest Japan, inferred from the temperature distribution obtained from numerical modeling - The proposed Hyuganada triangle -. *Earth and Planetary Science Letters*, 263, 309-322

(2007)

Yoku Torii and Shoichi Yoshioka, Physical conditions producing slab stagnation: Constraints of the Clapeyron slope, mantle viscosity, trench retreat, and dip angles, *Tectonophysics*, 445, 200-209

(2007)

Takeshi Katagi, Shoichi Yoshioka and Manabu Hashimoto, Influence of temperature- and depth- dependent viscosity structures on postseismic deformation predictions for the large 1946 Nankai subduction zone earthquake, *Tectonophysics*, in press (2008)

Shoichi Yoshioka, Mamiko Toda and Junichi Nakajima, Regionality of deep low- frequency earthquakes associated with subduction of the Philippine Sea plate, southwest Japan. *Earth and Planetary Science Letters*, in press (2008)

[b] /

4.3.1

[a]

Shoichi Yoshioka, Preliminary study on formulation of a slab stagnation model unifying thermal convection and kinetics, IUGG XXIV 2007, , 2007 7 .

[b]

, 3
2007 , T234-004, 2007 5 .
,
2007 , I214-P017, 2007 5 .
GPS
,
2007 , D107-P013, 2007 5 .
, Seismological and experimental constraints on metastable phase transformations and rheology of the Mariana slab, 2007 , I214-008, 2007 5 .

, P1-020, , 2007 10 .

, 660km
2 3

, , 2007 11

, , 2007 11

4.2.3

JAMSTEC

4.3.5

American Geophysical Union

4.3.6

:

2007

2007 5

IUGG XXIV 2007 Deep mantle slab
2007

2007 7

2007 9

2007 9

4.3.7

2007 7 3 7 9 IUGG XXIV 2007

2007 7 16 9 3

4.3.8

4.3.9

editor

, 3

2007

, T234-004,

2007 5

4.3.1

4.3.2

[a] /

Oshigami, S., and Namiki, N., Cross-sectional Profiles of Baltis Vallis Channel on Venus: Reconstructions from Magellan SAR Brightness data, *Icarus*, 190 1-14, 2007

[b] /

S. Oshigami, N. Namiki, and G. Komatsu, DEPTH PROFILES OF VENUSIAN CHANNELS AND VALLEYS: A COMPARISON AMONG CANALI, SINUOUS RILLES, AND VALLEY NETWORKS, The 39th Lunar and Planetary Science Conference, Houston, 2008.

Kikuchi, Q. Liu, N. Petrova, K. Matsumoto, Y. Ishihara, S. Goossens, K. Asari, S. Tsuruta, T. Ishikawa, H. Noda, H. Hanada, T. Iwata, N. Namiki, N. Kawano, and S. Sasaki, PRELIMINARY RESULTS FOR VRAD MISSION OF KAGUYA (SELENE), The 39th Lunar and Planetary Science Conference, Houston, 2008.

N. Namiki, T. Iwata, K. Matsumoto, H. Hanada, H. Noda, M. Ogawa, N. Kawano, K. Asari, S. Tsuruta, S. Goossens, Q. Liu, F. Kikuchi, Y. Ishihara, T. Ishikawa, S. Sasaki, and C. Aoshima, INITIAL RESULTS OF GRAVITY EXPERIMENT BY FOUR-WAY DOPPLER MEASUREMENT OF KAGUYA (SELENE), The 39th Lunar and Planetary Science Conference, Houston, 2008.

K. Matsumoto, S. Goossens, Q. Liu, T. Iwata, N. Namiki, H. Noda, H. Hanada, F. Kikuchi, Y. Ishihara, N. Kawano, S. Tsuruta, K. Asari, T. Ishikawa, and S. Sasaki, CURRENT STATUS OF ACQUISITION AND PROCESSING OF TRACKING DATA FROM SELENE (KAGUYA) SATELLITES FOR LUNAR

GRAVITY FIELD ESTIMATION, The 39th Lunar and Planetary Science Conference, Houston, 2008

4.3.3

[a]

S. Oshigami, N. Naniki, and G. Komatsu, DEPTH PROFILES OF VENUSIAN CHANNELS AND VALLEYS: A COMPARISON AMONG CANALI, SINUOUS RILLES, AND VALLEY NETWORKS, The 39th Lunar and Planetary Science Conference, Houston, 2008

Kikuchi, Q. Liu, N. Petrova, K. Matsumoto, Y. Ishihara, S. Goossens, K. Asari, S. Tsuruta, T. Ishikawa, H. Noda, H. Hanada, T. Iwata, N. Naniki, N. Kawano, and S. Sasaki, PRELIMINARY RESULTS FOR VRAD MISSION OF KAGUYA (SELENE), The 39th Lunar and Planetary Science Conference, Houston, 2008

N. Naniki, T. Iwata, K. Matsumoto, H. Hanada, H. Noda, M. Ogawa, N. Kawano, K. Asari, S. Tsuruta, S. Goossens, Q. Liu, F. Kikuchi, Y. Ishihara, T. Ishikawa, S. Sasaki, and C. Aoshima, INITIAL RESULTS OF GRAVITY EXPERIMENT BY FOUR- WAY DOPPLER MEASUREMENT OF KAGUYA (SELENE) , The 39th Lunar and Planetary Science Conference, Houston, 2008

K. Matsumoto, S. Goossens, Q. Liu, T. Iwata, N. Naniki, H. Noda, H. Hanada, F. Kikuchi, Y. Ishihara, N. Kawano, S. Tsuruta, K. Asari, T. Ishikawa, and S. Sasaki, CURRENT STATUS OF ACQUISITION AND PROCESSING OF TRACKING DATA FROM SELENE (KAGUYA) SATELLITES FOR LUNAR GRAVITY FIELD ESTIMATION, The 39th Lunar and Planetary Science Conference, Houston, 2008

N. Naniki, T. Iwata, K. Matsumoto, H. Hanada, H. Noda, M. Ogawa, N. Kawano, K. Asari, S. Tsuruta, S. Goossens, Q. Liu, F. Kikuchi, Y. Ishihara, T. Ishikawa, S. Sasaki, C. Aoshima, S. Sugita, K. Kurosawa, M. Matsumura, M. Yokoyama, S. Kamata, and N. Kubo, Initial Results of Gravity Experiment by Four-way Doppler Measurement, Tokyo, 2008

[b]

	SELENE				Spudis, P. D. (1993)	Review
SELENE		WG	2007	10		
			SELENE		WG/	
	2008	3				

4.3.4

4.3.5

4.3.6

4.3.7

Houston The 39th Lunar and Planetary Science Conference, 2008

4.3.8

SELENE		WG	2007	10		
SELENE		WG/			2008	3

4.3.9

editor

4.3.1

()
()
()
()

4.3.2

[a] /

Tackley, P. J., T. Nakagawa, and J. W. Hernlund, Influence of the post- perovskite transition on thermal and thermo- chemical mantle convection, AGU Monograph on ' The Last Phase Transition' , ed. K. Hirose et al., pp. 229- 248, 2007

Nakagawa, T., and P. J. Tackley, Lateral variations in CMB heat flux and deep mantle seismic velocity caused by a thermal- chemical- phase boundary layer in 3D spherical convection, Earth Planet. Sci. Lett., doi: 10.1016/epsl.04.013, 2008

[b] /

Nakagawa, T., P. J. Tackley, F. Deschamps, and J. A. D. Connolly, Effects of self- consistently calculated reference state of thermo- chemical multiphase mantle convection in a 3D spherical shell, *Geochemica et Cosmochemica Acta*, 71, A710, 2007.

4.3.2

[a]

Nakagawa, T., P. J. Tackley, and J. A. D. Connolly, Heterogeneity in the core- mantle boundary region inferred from thermo- chemical mantle convection in a three- dimensional spherical shell, European Geoscience Union General Assembly, Vienna, Austria Apr. 2007.

Tackley, P. J., T. Nakagawa, F. Deschamps, and J. A. D. Connolly, Subduction of crust to CMB and its role in explaining mantle heterogeneity, European Geoscience Union General Assembly, Vienna, Austria, Apr. 2007.

Tackley, P. J., and T. Nakagawa, Dynamical consequences of post- perovskite phase transition, IUGG General Assembly, Perugia, Italy, Jul., 2007.

Nakagawa, T., P. J. Tackley, F. Deschamps, and J. A. D. Connolly, Effects of self- consistently calculated reference state of thermo- chemical multiphase mantle convection in a 3D spherical shell, 17th annual Goldschmidt conference, Cologne, Germany, Aug. 2007.

Nakagawa, T., Deep mantle dynamics in a 3D spherical geometry incorporating self- consistently calculated mineral physics, International symposium on predictability of the evolution and variation of the multi- scale Earth system, University of Tokyo, Dec. 2007.

Nakagawa, T., P. J. Tackley, F. Deschamps, and J. A. D. Connolly, Deep mantle dynamics in a 3D spherical geometry with a realistic phase diagram calculated by free energy minimization, American Geophysical Union Fall Meeting U44A- 08, San Francisco, USA, Dec. 2007.

Tackley, P. J., T. Nakagawa, F. Deschamps, J. A. D. Connolly, Whole Mantle Thermo- Chemical Convection Models With Realistic Mineral Physics Naturally Develop Chemical Stratification, American Geophysical Union Fall Meeting U11B- 05, San Francisco, USA, Dec. 2007.

Tackley, P. J., T. Nakagawa, F. Deschamps, J. A. D. Connolly, and L. Duchoiselle, Predicting Seismological and Geochemical Observations Using Global and Regional 3-D Spherical Convection Models incorporating Self-consistently Calculated Mineral Physics, American Geophysical Union Fall Meeting, DI14A-04, San Francisco, USA, Dec. 2007.

Nakagawa, T., P. J. Tackley, F. Deschamps, and J. A. D. Connolly, Deep mantle dynamics in a spherical geometry incorporating self-consistently calculated mineral physics, MISASA-III "Origin, Evolution and Dynamics of the Earth", ISEI, Okayama University, Misasa, Mar. 2008.

[b]

2007 I128-014 2007 5

2007

J167-014 2007 5

4.2.4

JAMSTEC

4.3.5

American Geophysical Union

4.3.6

2007
2007

4.3.7

2007

2007 7

IODP

(LIPs)

2007 8

2007 8

2007 12

2008 2

4.3.8

4.3.9

editor

Nakagawa, T., P. J. Tackley, F. Deschamps, and J. A. D. Connolly, Effects of self-consistently calculated reference state of thermo-chemical multiphase mantle convection in a 3D spherical shell, 17th annual Goldschmidt conference, Cologne, Germany, Aug. 2007.

Nakagawa, T., Deep mantle dynamics in a 3D spherical geometry incorporating self-consistently calculated mineral physics, International symposium on predictability of the evolution and variation of the multi-scale Earth system University of Tokyo, Dec. 2007.

Nature Geoscience 1 Physics of the Earth and Planetary Interiors , Icarus 1 ,

4.1

4

4.2

4.2.1

[a]

[b]

4.2.2

4.2.3

V238-014

V238-p008

11

Miwa, T., Toramaru, A., Iguchi, M: Material scientific study on vulcanian eruptions of Sakurajima volcano,

Japan. COV5 Shimabara, Japan, November 2007

Matsumoto, M., Toramaru, A.: Difficulty in the Numerical Analysis of Magma Convection by SIMPLER Algorithm, COV5, 11- P- 124, Shimabara, Japan, November 2007.

19 2007 11

4.2.4 Fund

JAMSTEC

2 4 2 22

10 6 10 8

10 6 10 8

4.3

4.3.1

1
2
3
4
5
6

4.3.2

[a] /

Noguchi, S., A. Toramaru, S. Nakada: Groundmass crystallization in dacite dykes taken in Urzen Scientific Drilling Project, J. Volcano. Geotherm Res., (2008) in press.

Noguchi, S., A. Toramaru, S. Nakada: Relation between microlite textures and discharge rate during the 1991- 1995 eruptions at Urzen, Japan, J. Volcano. Geotherm Res., (2008) in press.

Tsune, A., A. Toramaru: Observation and quantitative description of oscillatory zoning in basaltic to dacitic plagioclases, Earth, Planets and Space, (2008) in press.

Toramaru, A., S. Noguchi, S. Oyoshihara, A. Tsune: MND(microlite number density) water exsolution rate meter, J. Volcano. Geotherm Res., (2008), in press.

Tsune, A., A. Toramaru: A simple model of oscillatory zoning in magmatic plagioclase: Development of an isothermal undercooling model, Amer. Mineral., 92(2007) 1071- 1079. DOI:

[b] /

ME-S3 51-60 2008 2

4.3.3

[a]

Toramaru, A.: Experimental study of pattern transition in a Liesegang Ring Workshop on Experimental and Theoretical Studies of Precipitation Patterns, Tokyo, Japan, June 2007.

Noguchi, S., Toramaru, A., Nakada, S.: Groundmass crystallization in the Dacite Dikes of Unzen Scientific Drilling Project 4(USDP- 4), COV5, 11- P- 18, Shimabara, Japan, November 2007.

Matsumoto, M., Toramaru, A.: Difficulty in the Numerical Analysis of Magma Convection by SIMPLER Algorithm, COV5, 11- P- 124, Shimabara, Japan, November 2007.

Toramaru, A., Miwa, T.: Vesiculation and Crystallization under Constant Amount of Decompression: Numerical Study and its comparison with Laboratory Experiments, COV5, 11- P- 133, Shimabara, Japan, November 2007.

Miwa, T., Toramaru, A., Iguchi, M: Material scientific study on vulcanian eruptions of Sakurajima volcano, Japan. COV5, 11- P- 148, Shimabara, Japan, November 2007.

[b]

S229-003

2007 5 .

:

, V238-014, 2007 5

, V238-015, 2007 5

2007

11

,
2007 11 .

2007 11

19

2007 11

2008 2 .

2008 3 .

2008 3 .

434

17 19

17 19

435

American Geophysical Union

436

437

438

439

editor

S229-003

2007 5 .

Toramaru, A.:Experimental study of pattern transition in a Liesegang Ring Workshop on Experimental and Theoretical Studies of Precipitation Patterns, Tokyo, Japan, June 2007.

2007

11

2008 3 .

J. Volcano. Geotherm Res. J. Geophys. Res., Geophys. Res. Lett., Earth Planet and Space

4.3.1

4.3.2

[a] /

Ikeda T, Nishiyama T, Yamada S, Yanagi T (2007) Microstructures of olivine- plagioclase corona in meta- ultramafic rocks from Sefuri Mountains, NW Kyushu, Japan. *Lithos*, 97, 289- 306

Web

[b] /

4.3.3

[a]

T. Kawakami, E. S. Grew, Y. Motoyoshi, C. K. Shearer, T. Ikeda, P. V. Burger, I. Kusachi (2007) Komerupine *sensu stricto* associated with mafic and ultramafic rocks in the Lützow-Holm Complex at Akarui Point, East Antarctica: What is the source of boron? Goldschmidt Conference Cologne

T. Ikeda, S. Goto (2007) : Crystal size distribution and chemical composition of garnet in quartzofeldspathic gneisses of the Lützow-Holm Complex in Skallen, East Antarctica: Evidence for paucity of intergranular diffusion. 4th International Symposium on Gondwana to Asia & 2007 IAGR Annual Convention

[b]

(2007)

(2007)

4.3.4

A

17 20

4.3.5

4.3.6

4.3.7

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editor

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Island Arc (Associate Editor)

Island Arc, Journal of Mineralogical and Petrological Sciences Geochimica Cosmochimica Acta Physics
and Chemistry of Minerals

4.3.1

1.

2.

3.

4.

4.3.2

[a] /

Nakano, N., Osanai, Y., Nguyen Thi Minh, Miyamoto, T., Hayasaka, Y. and Owada, M. (2008):

Discovery of high- pressure granulite- facies metamorphism in northern Vietnam: Constraints on the
Permian- Triassic Indochinese continental collision tectonics. *Comptes Rendus Geosciences*, 340,
127- 138

[b] /

4.3.3

[a]

- Miyamoto, T., Osanai, Y., Nguyen, Thi, Minh, Nakano, N., Owada, M. and Tran, Ngoc, Nam (2007): Isotope compositions of whole- rocks and mineral fractions in metamorphic rocks from Po Ko and Dien Bien Phu regions in middle and northern Vietnam. Abstract of 4th International Symposium on Gondwana to Asia and 2007 IAGR annual convention, 105- 106
- Miyamoto, T., Yoshimura, Y., Dunkley, D. J., Motoyoshi, Y. and Carson, C. J. (2007): Geothermal history of Napier Complex from Latest Archean peak metamorphism to the Paleozoic igneous activity. Abstract of 4th International Symposium on Gondwana to Asia and 2007 IAGR annual convention, 107- 108.
- Satish- Kumar, M., Miyamoto, T., Motoyoshi, Y., Kagami, H. and Osanai, Y. (2007): Chemostratigraphy of high- grade marbles from the Lützow- Holm Complex, East Antarctica: Implications for Gondwana Tectonics. Abstract of 4th International Symposium on Gondwana to Asia and 2007 IAGR annual convention, 107- 108.

[b]

(2007) Sr Nd (Sr and Nd isotope compositions of the aeolian dust in rainwater fallen on the summit of Mt. Sefuri, north Kyushu, southwest Japan). 2007 F118- P034

4.3.4

C
19 - 22

4.3.5

4.3.6

4.3.7

19 8 13 -8 21 .

4.3.8

4th International Symposium on Dondwana to Asia and 2007 IAGR Annual Convention, Fukuoka Japan ().

4.3.9

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DX-A D E F , in press.

9: , 57

4.2.3

[a]

S. Koge, S. Kiyokawa, T. Ito, M. Ikehara, F. Kitajima and K. Yamaguchi, The Archean lateral change of sea-floor hydrothermal system; The Black Chert Member of the Dixon Island Formation in the coastal Pilbara terrane, Australia, AG- P27, 4th International Symposium on Gondwana to Asia & 2007 IAGR Annual Conention, Fukuoka, Nov 8- 10.

T. Hasegawa, A. Yamamoto, S. Kiyokawa, N. Hasebe. Geology of Northeast Part of Fukue Island, Goto Islands, Nagasaki Prefecture. AG- P27, 4th International Symposium on Gondwana to Asia & 2007 IAGR Annual Conention, Fukuoka, Nov 8- 10.

- T. Ninomiya, S. Kiyokawa. The effect of sea tide on the ferric deposit in the Nagahama-bay, Satsuma Iwo-jima island, Cities on Volcanoes 5 conference. Shimabara, Japan. Nov. 19-23. P.25.
- S Koge, S Kiyokawa, T Ito, M Ikehara, F Kitajima, K E Yamaguchi. The Lateral Change of Archean Hydrothermal System, The Dixon Island Formation in the Coastal Pilbara Terrane, Australia, V21D-0762
- T. Hasegawa, A. Yamamoto, S. Kiyokawa, N. Hasebe. Geology of Northeast Part of Fukue Island, Goto Islands, Nagasaki Prefecture. T41A-0384, AGU Fall meeting Sanfransisco Des. 10-14

[b]

, 2007,
 , G120-008
 2007
 , G119-001,
 2007
 G119-P004
 2007
 G120-P001
 2007
 . 2007,
 , O-3,
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 , O-149,
 114 () p.135
 O-108, O-149, 114 () p.115
 2008 1 P7.
 2008 1 P8
 154 () 2007 2
 154 () 2008 2
 154 2008 2
 2008 2
 2008 2

431

1

2

3

4

432

[a] /

Onoue, T., Sano, H., 2007. Triassic mid- oceanic sedimentation in Panthalassa Ocean: Sambosan accretionary complex, Japan. *Island Arc* 16, 173-190

Jonathan L. Payne, Daniel J. Lehrmann, David Follett, Margaret Seibel, Lee R. Kump, Anthony Riccardi, Demir Altiner, Hiroyoshi Sano, and Jiayong Wei, 2007. Erosional truncation of uppermost Permian shallow marine carbonates and implications for Permian- Triassic boundary events. *Geol. Soc. Am Bull.* 119, 771- 784.

[b] /

433

[a]

[b]

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2008 2

2008 2

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[b] /

. 2007.

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, 56 , 1-6

—

, 57

9

DX- A D E F

, 57

4.3.3

[a]

- S. Kiyokawa, The Middle Archean volcano- hydrothermal sequence with bacterial fossils: 3.2 Ga Dixon Island Formation, coastal Pilbara terrane, Australia. Archean symposium 2007 Aug 22- 24 in University of Western Ontario (invited)
- S. Kiyokawa, S. Koge and Y. Inamoto, Archean hydrothermal ocean surface environment: Australia VS South Africa, Kyushu University, Nishijin international center. AG- P27, 4th International Symposium on Gondwana to Asia & 2007 IAGR Annual Conention, Fukuoka, Nov 8- 10.
- S. Koge, S. Kiyokawa, T. Ito, M. Ikehara, F. Kitajima and K. Yamaguchi, The Archean lateral change of sea- floor hydrothermal system, The Black Chert Member of the Dixon Island Formation in the coastal Pilbara terrane, Australia, AG- P27, 4th International Symposium on Gondwana to Asia & 2007 IAGR Annual Conention, Fukuoka, Nov 8- 10.
- T. Hasegawa, A. Yamamoto, S. Kiyokawa, N. Hasebe. Geology of Northeast Part of Fukue Island, Goto Islands, Nagasaki Prefecture. AG- P27, 4th International Symposium on Gondwana to Asia & 2007 IAGR Annual Conention, Fukuoka, Nov 8- 10.
- T. Ninomiya, S. Kiyokawa. The effect of sea tide on the ferric deposit in the Nagahama- bay, Satsuma iwo- jima island, Cities on Volcanoes 5 conference. Shimabara, Japan. Nov. 19- 23. P.25.
- S. Kiyokawa, T. Ito, S. Koge, Y. Inamoto, M. Ikehara, F. Kitajima, K. E. Yamaguchi, Archean hydrothermal sea- floor surface environment: Australia VS South Africa. Sanfransisco.
- S Koge, S Kiyokawa, T Ito, M Ikehara, F Kitajima, K E Yamaguchi. The Lateral Change of Archean Hydrothermal System, The Dixon Island Formation in the Coastal Pilbara Terrane, Australia, V21D- 0762
- T. Hasegawa, A. Yamamoto, S. Kiyokawa, N. Hasebe. Geology of Northeast Part of Fukue Island, Goto Islands, Nagasaki Prefecture. T41A- 0384, AGU Fall meeting Sanfransisco Des. 10- 14

[b]

. B101- 002, 2007 32

- G120- 009, 2007

, 2007,
, G120- 008

2007

, 2007, G119- 001,

2007

Archean

G120- 010, 2007

G 119- P004

2007

G 120- P001

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T155- 005,

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) 32
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114 (

() p.134

, 114

114 () p.135

. 2007,

, 114 p.135,

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, 114 () p.135

, O- 149,

O- 108, O- 149, 114 () p.115

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Pilbara vs. Barberton,
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4.3.2

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4.3.3

[a]

Hirano, H., Li, G., Iwasaki, S., Aida, K., Yamada, K., Tanaka, S., Sakai, T., Saka, Y., and Ohta, T.: Stable isotope stratigraphy of the non-marine Cretaceous Chengzihe Formation, NE China and the correlation, *Paleoclimates in Asia during the Cretaceous*, 2nd Int. Symp. IGCP Project No.507 (Korea), Proceedings, 53

Tanaka, S., Li, G., Hirano, H., Iwasaki, S., Aida, K., Sakai, T., Saka, Y., Ohta, T., and Yamada, K.: Palynostratigraphy of the Lower Cretaceous Chengzihe Formation, Jixi Group of the eastern Heilongjiang, Northeast China, *Paleoclimates in Asia during the Cretaceous*, 2nd Int. Symp. IGCP Project No.507 (Korea), Proceedings, 93-96

[b]

Gang Li

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154 2007 2

154 () 2008 2

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4.3.4

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4.3.9

editor

1

Mid-Cretaceous tectonics of the continental margin of East Asia: an approach from sequence stratigraphy 2008 2

4.1

4.2

4.2.1

[a]

Vertical distribution and temporal flux changes of radiolarians corresponding to the environmental factors in the Bering Sea and the central subarctic Pacific

[b]

Significance of the euxinic middle Eocene paleo-Arctic Ocean: a geochemical study on IODP Arctic Coring Expedition 302 cores

Paleoceanographic changes in the Bering Sea during the last deglaciation

[c]

: 2006
 : Station K2
 : Station K2 2005- 2006
 :

4.2.2

[a] /

Ishitani, Y., and Takahashi, K. 2007. The vertical distribution of Radiolaria in the waters surrounding Japan. *Marine micropaleontology*, 65, 113-136

Ogawa, Y., Takahashi, K., and Yamanaka, T. 2008. Paleocyanography of the middle Eocene Arctic Ocean based on geochemical measurements of biogenic matter. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 31- 48

Tanaka, S., and Takahashi, K. 2008. Detailed vertical distribution of radiolarian assemblage (0- 3000 m fifteen layers) in the central subarctic Pacific, June 2006. *Memoirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 49- 72

Ishitani, Y., K. Takahashi, and Y. Okazaki, in press. On the tropical submergence hypothesis of the selected radiolarians in the North Pacific, *Micropaleontology*.

[b] /

4.2.3

[a]

Takahashi, K., Ogawa, Y., Onodera, J., and Yamanaka, T. 2007, Paleocyanography of the Eocene Arctic Basin Reconstructed With Chemical Parameters and Siliceous Microfossils. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract PP41D- 0781.

Ogawa, Y. Takahashi, K. and Yamanaka, T (2007), Paleocyanography of The Middle Eocene Arctic Ocean Based on Geochemical Measurements of Biogenic Matter. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract PP41D- 0778.

[b]

. 2007. .
 2007 2007 5 L133- 002
 . 2007
 , 2007 2007 3
 . 2008 . 2007
 2008 1 7 .

. 2007.
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 carbonate and chemosynthetic assemblages from the Paleogene Taishu Group, in the Tsushima
 Islands, Nagasaki Prefecture. 2008 2008 5

4.2.4 Fund
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 . J-DESC
 / 2008 3 19 21
 J-DESC .

4.3

4.3.1

CO₂

- 1.
- 2.

4.3.2

[a] /

- Asahi, H. and Takahashi, K., 2007. Nine- years time- series of planktonic foraminifer fluxes and environmental changes in the Bering Sea and the central subarctic Pacific Ocean, 1990- 1999. *Progress in Oceanography*, 73, 343- 363.
- Ishitani, Y., and Takahashi, K. 2007. The vertical distribution of Radiolaria in the waters surrounding Japan. *Marine micropaleontology*, 65, 113-136.
- Sharma G. K. and Takahashi, K. 2007. Pleistocene Radiolaria from The Antarctic Continental Margin: Distribution and Biostratigraphy, *Geological Society of India*, 69, 813- 826.
- Ogawa, Y., Takahashi, K., and Yamanaka, T. 2008. Paleooceanography of the middle Eocene Arctic Ocean based on geochemical measurements of biogenic matter. *Memirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 31- 48.
- Tanaka, S., and Takahashi, K. 2008. Detailed vertical distribution of radiolarian assemblage (0- 3000 m fifteen layers) in the central subarctic Pacific, June 2006. *Memirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 49- 72.
- Asahi, H., and Takahashi, K. 2008. A new insight into oceanography with multivariate and time- series analyses on the 1990- 1999 planktonic foraminiferal fluxes in the Bering Sea and the central subarctic Pacific. *Memirs of the Faculty of Sciences, Kyushu University, Series D, Earth and Planetary Sciences*, 32(1), 73- 96.
- Onodera, J., K. Takahashi, and R. W. Jordan. 2008. Eocene silicoflagellate and ebridian paleooceanography in the central Arctic Ocean, *Paleoceanography*, 23, PA1S15, doi: 10.1029/2007PA001474.
- Sharma G. K. and Takahashi, K. 2008. Disribution and taxonomy of Pleistocene Radiolarians From KH94- 4 AMR- 2PC core of the Southern Ocean region. *Paleoworld*, 17, 57-82.
- Ishitani, Y., K. Takahashi, and Y. Okazaki. On the tropical submergence hypothesis of the selected radiolarians in the North Pacific, *Micropaleontology*, in press.
- Okazaki, Y., Takahashi, K., and Asahi, H. Temporal fluxes of radiolarians along the W- E transect in the central and western equatorial Pacific, 1999- 2002. *Micropaleontology*, in press.
- Takahashi, K., J. Onodera, and K. Katsuki. Significant populations of seven- sided *Distephanus* (Silicoflagellata) in the sea- ice covered environment of the central Arctic Ocean, summer 2004. In: M. Kaminski and K. Takahashi, Guest Editors, *IODP Expedition 302 ACEX Special Volume, Micropaleontology*, in press.
- Katsuki, K., K. Takahashi, R. W. Jordan, and J. Onodera. Living diatoms from the North Pole and the vicinity in the central Arctic Ocean, summer 2004 In: M. Kaminski and K. Takahashi, Guest Editors,

IODP Expedition 302 ACEX Special Volume, Micropaleontology, in press.

Onodera, J. and K. Takahashi. The middle Eocene ebridians in the central Arctic Ocean, IODP Expedition 302 (ACEX). In: M. Kaninski and K. Takahashi, Guest Editors, *IODP Expedition 302 ACEX Special Volume, Micropaleontology*, in press.

Onodera, J., and K. Takahashi. Taxonomy and biostratigraphy of silicoflagellates in the middle Eocene Arctic Ocean. In: M. Kaninski and K. Takahashi, Guest Editors, *IODP Expedition 302 ACEX Special Volume, Micropaleontology*, in press.

[b] /

Takahashi, K., Ravelo, A. C., and Alvarez-Zarikian, C. A., 2007. Pliocene–Pleistocene Paleooceanography and Climate History of the Bering Sea. *IODP Sci. Prosp.*, 318. doi:10.2204/iodp.sp.318.2007.

Takahashi, K., A. C. Ravelo, and C. A. Alvarez-Zarikian. 2007. Bering Sea Expedition Summary: Pliocene- Pleistocene Evolution and Glacial- Interglacial Changes in the Bering Sea. 9pp.

[http://iodp.tamu.edu/scienceops/expeditions/bering_sea.html]

4.3.3

[a]

Takahashi, K., Ogawa, Y., Onodera, J., and Yamanaka, T. 2007, Paleooceanography of the Eocene Arctic Basin Reconstructed With Chemical Parameters and Siliceous Microfossils. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract PP41D- 0781.

Onodera, J. and Takahashi, K. 2007. The silicoflagellates and ebridians from the central Arctic Ocean in the early middle Eocene. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract PP41D- 0777.

Ogawa, Y. Takahashi, K. and Yamanaka, T. 2007. Paleooceanography of The Middle Eocene Arctic Ocean Based on Geochemical Measurements of Biogenic Matter. *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract PP41D- 0778.

Onodera, J., Takahashi, K., Ogawa, Y., Yamanaka, T., 2007. Silicoflagellate and ebridian paleooceanography in the Eocene Arctic Ocean. 9th International Conference on Paleooceanography. Program and Abstracts, Abstract P1- 97 (p.83), Shanghai, China, 3- 7 September 2007.

[b]

. 2007.
2007 2007 5 L133-002
2007. Bering Sea Expedition . 3 IODP . 2007 5 25 .
. 2007
, 2007 2007 3

4.3.4

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4.3.5

American Geophysical Union, International Association for Radiolarian Researchers, International Society for Diatom Research

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4.3.8

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Micropaleontology, ACEX IODP Exp 302

Marine Micropaleontology

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4.3.1

1

2007

2007 10

2

2008

3

(4)

2008 2

4.3.2

[a] /

Kashima, K. (in printing) The Palaeo- Environmental Changes and their Dating at the Marshes which encircled the Kaman Kalehöyük, Kirsehir, Turkey--- The Preliminary Report of the Drilling Survey in 2006 -, Anatolian Archaeological Studies, no.16

[b]

2007

10 78 84

2007

48-59

2

4.3.3

Kashima, K. (2007) Palaeo- Environmental Reconstruction using Diatom Assemblages at Inland Lakes in Temperate, Polar and Semi- arid Regions, 6th International Symposium on Terrestrial Environmental Changes in East Eurasia and Adjacent Areas, Baikal, Sep. 2007.

Kashima, K. (2008) Geomorphological Approaches to Investigations to Natural Hazards and Environmental Change in Taiwan and Kyushu, Taiwan and Japan Joint Symposium on Geomorphological Hazards and Management, Taipei, March 2008.

2007

2007

2007

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2007

2007 11

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4.3.2

[b] /
2007 - - 334
139-144
2007 11 1-10

Kameyama S., Shimoyama S., Miyabe S. and Yamanaka T. (2008) : Water-mass conditions during the past 11,000 years in the innermost part of the Kagoshima Bay, South Kyushu, Japan: evidence from the fossil shell assemblages, oxygen and carbon isotopic compositions. *Memoirs of the Faculty of Sciences, Kyushu University Series D, Earth and Planetary Sciences*, Vol. 32, no. 1, 97-112.

4.3.3

[b]
2007
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 Cold-seep carbonate and chemosynthetic assemblages from the Paleogene Taishu Group, in the
 Tsushima Islands, Nagasaki Prefecture. 2008 2008 5

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Dust Motion under the Frictional Force of an Oscillating Gas in a Protoplanetary Disk

Effects of Heat Conduction and Viscosity on the Convective Instability in a Protoplanetary Disc

[c]

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(100–238 μm)

4.2.2

[a] /

Shigeru Wakita and Minoru Sekiya, Numerical simulation of the gravitational instability in the dust layer of a protoplanetary disk using a thin disk model, *The Astrophysical Journal*, 675, 1559–1575, 2008

Nakamura T., Tsuchiyama A., Akaki T., Uesugi K., Nakano T., Takeuchi A., Suzuki Y., and Noguchi T.

(2008) Bulk mineralogy and three dimensional structures of individual Stardust particles deduced from synchrotron X-ray diffraction and microtomography analysis. *Meteoritics and Planetary Sciences*. in press.

[b] /

4.2.3

[a]

Nakamura T., Noguchi T., Tsuchiyama A., Ushikubo T., Kita N. T., Valley J. W., Zolensky M

E., Kakazu Y., Sakamoto K., Mashio E., Uesugi K., and Nakano T. (2008) Mineralogy, Three Dimensional Structure, and Oxygen Isotope Ratios of Four Crystalline Particles from Comet 81P/Wild 2. 39th Lunar and Planetary Science Conference, Abstract #1695 (Houston USA March)

Sakamoto K., Nakamura T., Noguchi T., Tsuchiyama A. (2008) Unique Hydrous Micrometeorites Found from the Snow near the Dome Fuji Station: Primitive Materials with Characteristics Different from Major Types of Carbonaceous Chondrites. 39th Lunar and Planetary Science Conference, Abstract #1577 (Houston USA March)

Jogo K., Nakamura T., Ahn I., Lee J. I., Kusakabe M. (2008) Secondary Fayalites and Metamorphic Olivine-rich Aggregates in the Yamato-86009 CV3 Carbonaceous Chondrite: Evidence for Complex Formation of CV3 Asteroids. 39th Lunar and Planetary Science Conference, Abstract #1576 (Houston USA March)

Iida Y., Tsuchiyama A., Kadono T., Nakamura T., Sakamoto K., Nakano T., Uesugi K., and Zolensky M. E. (2008) Three-Dimensional Shapes and Impactor Size Estimation of Stardust Impact Tracks. 39th Lunar and Planetary Science Conference, Abstract #1563 (Houston USA March)

Doi M. D., Nakamoto T., Nakamura T., and Yamauchi Y. (2008) Three-Dimensional Shapes of Cosmic Spherules: Deformation of Dust Particles Molten in the Earth Atmosphere. 39th Lunar and Planetary Science Conference, Abstract #1548 (Houston USA March)

[b]

_____ : Numerical simulation of planetesimal-forming gravitational instability using a thin dust layer model with dust settling _____ 2007
 2007 5 21

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 individual Stardust particles _____

4.2.4 Fund

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4.3.1

- (1) dust
- (2) Chondrules

4.3.2

[a] /

Shigeru Wakita and Minoru Sekiya, Numerical simulation of the gravitational instability in the dust layer of a protoplanetary disk using a thin disk model, *The Astrophysical Journal*, 675, 1559-1575, 2008.

Uesugi, M., Sekiya, M. and Nakamura T., Kinetic stability of a melted iron globule during chondrule formation I. Non-rotating model, *Meteoritics & Planetary Science*, accepted.

[b] /

4.3.3

[a]

[b]

: Numerical simulation of planetesimal-forming gravitational instability using a thin dust layer model with dust settling 2007

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4.3.8

4.3.9

editor

Icarus

4.3.2

[a] /

- Nakamura T., Tsuchiyama A., Akaki T., Uesugi K., Nakano T., Takeuchi A., Suzuki Y., and Noguchi T. (2008) Bulk mineralogy and three dimensional structures of individual Stardust particles deduced from synchrotron X-ray diffraction and microtomography analysis. *Meteoritics and Planetary Sciences*. in press.
- Rietmeijer F. J. M., Nakamura T., Tsuchiyama A., Uesugi K., and Nakano T. (2008) Origin and formation of iron-silicide phases in the aerogel of the STARDUST mission. *Meteoritics and Planetary Sciences*. in press.
- Murata K., Chihara H., Tsuchiyama A., Koike C., Takakura T., Noguchi T., and Nakamura T. (2007) Crystallization experiments of amorphous silicates with the chondritic composition: quantitative formulation of the crystallization. *The Astrophysical Journal*, 668, 285-293.
- Tanaka M., Nakamura T., and Noguchi T. (2007) Application of the quantitative-phase and crystal structure simultaneous analysis to the X-ray diffraction data obtained by synchrotron Gandolfi camera system *AIP Conference Proceeding* 879 (Synchrotron Radiation Instrumentation, edited by J.-Y. Choi and S. Rah), 1779-1783.
- Uesugi M., Sekiya M., and Nakamura T. (2008) Kinetic stability of a melted iron globule during chondrule formation I. Non-rotating model. *Meteoritics and Planetary Sciences*. accepted.
- Yada T., Frank J., Stadermann F. J., Floss C., Zinner E., Nakamura T., Noguchi T., and Lea A. S. (2008) Stardust in Antarctic Micrometeorites. *Meteoritics and Planetary Sciences*. accepted.

[b] /

4.3.3

[a]

- Nakamura T., Noguchi T., Tsuchiyama A., Ushikubo T., Kita N. T., Valley J. W., Zolensky M. E., Kakazu Y., Sakamoto K., Mashio E., Uesugi K., and Nakano T. (2008) Mineralogy, Three Dimensional Structure, and Oxygen Isotope Ratios of Four Crystalline Particles from Comet 81P/Wild 2. 39th Lunar and Planetary Science Conference, Abstract #1695 (Houston USA March)
- Sakamoto K., Nakamura T., Noguchi T., Tsuchiyama A. (2008) Unique Hydrous Micrometeorites Found from the Snow near the Dome Fuji Station: Primitive Materials with Characteristics Different from Major Types of Carbonaceous Chondrites. 39th Lunar and Planetary Science Conference, Abstract #1577 (Houston USA March)
- Jogo K., Nakamura T., Ahn I., Lee J. I., Kusakabe M. (2008) Secondary Fayalites and Metamorphic Olivine- rich Aggregates in the Yamato- 86009 CV3 Carbonaceous Chondrite: Evidence for Complex Formation of CV3 Asteroids. 39th Lunar and Planetary Science Conference, Abstract #1576 (Houston USA March)
- Misawa K., Tomiyama T., Kohno M., Noguchi T., Nagao K., Nakamura T., Mikouchi T., Nishiizumi K., and Motoyama H. (2008) Extraterrestrial Dust Layers in Dome Fuji Ice Core, East Antarctica. 39th Lunar and Planetary Science Conference, Abstract #1690 (Houston USA March)
- Iida Y., Tsuchiyama A., Kadono T., Nakamura T., Sakamoto K., Nakano T., Uesugi K., and Zolensky M. E. (2008) Three- Dimensional Shapes and Impactor Size Estimation of Stardust Impact Tracks. 39th Lunar and Planetary Science Conference, Abstract #1563 (Houston USA March)
- Doi M. D., Nakamoto T., Nakamura T., and Yamauchi Y. (2008) Three- Dimensional Shapes of Cosmic Spherules: Deformation of Dust Particles Molten in the Earth Atmosphere. 39th Lunar and Planetary Science Conference, Abstract #1548 (Houston USA March)
- Tsuchiyama A., Okazaki T., Murata K., Wada K., Kimura H., Noguchi T., Nakamura T., Nakano T., and Uesugi K. (2007) Three- Dimensional Structures of Micrometeorites and Model Dust Particles: Porosities and Fractal Dimensions. 70th Annual Meeting of the Meteoritical Society, Abstract #5166 (Tucson USA March)
- Nakashima D., Ott U., El Goresy A., and Nakamura T. (2007) Heavily Fractionated Noble Gases in an Acid Residue from the KLE98300 EH3 Chondrite. 70th Annual Meeting of the Meteoritical Society, Abstract #5093 (Tucson USA March)
- Noguchi T., Nakamura T., Aoki T., Toh S. Imae N. Iwata N. and Tottuki micrometeorite curation team (2007) Discovery of a chondritic porous interplanetary dust particle among Antarctic micrometeorites. Papers presented to the 31th Symposium on Antarctic Meteorites, pp. 78- 79 (June Tokyo)
- Kitajima F. and Nakamura T. (2007) A micro- Raman study on thermal histories of carbonaceous matter in carbonaceous chondrites. Papers presented to the 31th Symposium on Antarctic Meteorites, pp. 41- 42 (June Tokyo)
- Okazaki R. and Nakamura T. (2007) Noble- gas and oxygen isotopes and REE abundance of Antarctic micrometeorites. Papers presented to the 31th Symposium on Antarctic Meteorites, pp. 83- 84 (June Tokyo)
- Suzuki A., Nakashima S., and Nakamura T. (2007) Infrared and Raman spectroscopy of Antarctic micrometeorites. Papers presented to the 31th Symposium on Antarctic Meteorites, pp. 93- 94 (June Tokyo)

[b]

individual Stardust particles

Mineralogy and internal structures of

X

Ulrich Ott Ahmed El Goresy

2007 , 9 ,

2007 , 9 ,

2007 , 9 ,

Shimjuku A., Kubo T., Ohtani E., Nakamura T., Okazaki R., Chakraborty S., and Dohmen R. Silicon and oxygen diffusion in ringwoodite, EASTEC symposium 2007 9

4.3.4

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Geochemica Cosmochimica Acta
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(3) CAI

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4.3.2

[a] /

[b] /

Okazaki R. and Nakamura T. (2007) Noble- gas and oxygen isotopes and REE abundances in Antarctic micrometeorites. *Antarctic Meteorites XXXI*, 83-84.

4.3.3

[a]

Okazaki R. and Nakamura T., Noble- gas and oxygen isotopes and REE abundances in Antarctic micrometeorites. *The 31st Symposium on Antarctic Meteorites*, 5-7 June, 2007, Tokyo, Japan.

Shimajuku A., Kubo T., Ohtani E., Nakamura T., Okazaki R., Chakraborty S. and Dohmen R., Si and O diffusivity in ringwoodite. *High Pressure Mineral Physics Seminar (HPMPS- 7)*, 8-12 May, 2007, Matsushima, Japan.

[b]

He 55 (2007)
2007 5 15 17 .

4.3.4

(B), , 2007-2009.

435

436

437

438

. The 31st Symposium on Antarctic Meteorites, 5-7 June, 2007, Tokyo, Japan.

439

editor

41

08.2.1

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Sulfolobus

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4.2.4 Fund

4.3

4.3.1

1. PAH

2.

3.

4.

5.

4.3.2

[a] /

Y. Oba and H. Naraoka (2007) Carbon and hydrogen isotope fractionation of acetic acid during degradation by ultraviolet light. *Geochem J.* **41**, 103- 110.

Y. Chikaraishi and H. Naraoka (2007) ¹³C and D relationships among three *n* alkyl compound classes (*n* alkanolic acid, *n* alkane and *n* alkanol) of terrestrial higher plants. *Org Geochem*, **38**, 198- 215.

M. Yamamoto, A. Shimamoto, T. Fukuhara, H. Naraoka, Y. Tanaka and A. Nishimura (2007) Seasonal and depth variations in molecular and isotopic alkenone composition of sinking particles from the western North Pacific. *Deep-Sea Res.*, **54**, 1571- 1592.

Y. Oba and H. Naraoka (2008) Carbon and hydrogen isotope fractionation of low molecular weight organic compounds during ultraviolet degradation. *Org Geochem*, **39**, 501- 509.

H. Naraoka (2008) Characteristics of organic matter in carbonaceous chondrites with relevance to its occurrence on asteroids. *ASP Conf. Ser.* .

[b] /

(2007)

() pp.48- 60 .

4.3.3

[a]

M. Kaneko and H. Naraoka, Origin of sedimentary organic matter at the Northern cascadia Margin. American Geophysical Union 2007 Fall Meeting, San Francisco, USA, Dec. 2007.

[b]

S.R.Poulson SO₂

2007 54 19 9 .

Northern Cascadia Margin

2007 54 19 9 .

54 19 9 .

54 19 9 .

3 IODP 2007 5 .

Cascadia margin

Y. Oba and H. Naraoka , Isotopic variations of macromolecular organic matter from CM chondrites during hydrous pyrolysis, 31th Symposium on Antarctic Meteorites, National Institute of Polar Institute, Tokyo, June, 2007.

IODP Exp311 Scientific Party Cascadia Margin

CNS 25

2007 7 .

25 2007 7 .

2007 2008 1 .

2008 1 .

2007

4.3.4

4.3.5

The Geochemical Society American Geophysical Union The International Astrobiology Society The European Association of Organic Geochemists The Meteoritical Society

4.3.6

IODP

2007-2008

4.3.7

4.3.8

4.3.9

editor

Researches in Organic Geochemistry

Geochemical Journal, Associate Editor

Geochimica et Cosmochimica Acta, Meteorites and Planetary Science, Geochemical Journal

4.3.1

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Thermoplasma

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Thermoplasma acidophilum

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editor

Chemistry Letters, Geochemical Journal

431

1.

2.

3.

4.

432

[a] /

6

45-51. ().

[b]

33

4.3.3

[a]

Kitajima F. and Nakamura T. A micro-Raman study on thermal histories of carbonaceous matter in carbonaceous chondrites. *Antarctic Meteorites XXXI* 2007 6 .

Kitajima F., Nakano M., Ikehara M., Kiyokawa S., and Uchida M. An investigation of paleotemperature of several terrestrial hydrothermal systems using tetraether lipids produced by thermoacidophilic archaea. *ISEB18* 2007 11 Taupo .

Kiyokawa S., Ito T., Koge S., Inamoto Y., Ikehara M, Kitajima F., and Yamaguchi, K. E.

Archean hydrothermal sea-floor surface environment: Australia VS South Africa. *AGU 2007 Fall Meeting* 2007 12 San Francisco .

[b]

Archean

2007 2007 5

2007 2007 5

2007 2007 5

2007 2007 5

32

2007 2007 5

2007 2007 5

2007 2007 5

Archaea

8 2007 7

25

2007 7

2007

54 2007 9

Archean

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The Meteoritical Society

American Geophysical Union

4.3.6

ISEB International Committee

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54

2007 9

4.3.7

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2007 11 10 11 18

ISEB18

4.3.8

4.3.9

editor

Archaea

8

2007 7

45-51.

6

4.1

B101- P009, 200 (2007, 5). 2007
_____, (2007, 5).

_____, Ce anomaly 2007
2007, 9, 19 .

_____, 2007, 9, 19

Seto M, Akagi, T., Iwasa, Y.: A mathematical model for biotic regulation of physicochemical conditions.
2007 2008, 3, 15

_____, PS111, 24 (2008.3).

4.2.4 Fund

DC2

T08

(2008 3

14 - 17)

2007. 7

J-DESC

2008. 3

4.3

4.3.1

(1)

i)

ii)

(2)

4.3.2

[a] /

Seto, M. and T. Akagi (2008) Coexistence introducing regulation of environmental conditions. *Journal of Theoretical Biology* 248, 267- 274.

Fu, F.-F., K. Watanabe, N. Shinohara, X. Xu, L. Xu, and T. Akagi (2008) Morphological and light- absorption characteristics of individual BC particles collected in an urban seaside area at Tokaimura, eastern central Japan. *Sci. Total. Environ* 393, 273- 282.

Seto, M. and T. Akagi (2008) Chemical condition for the appearance of negative Ce anomaly in stream waters and groundwaters. *Geochem J.* in press.

[b]

_____ ” (2007) ”,

4.3.3

[a]

Seto, M. and T. Akagi: Coexistence introducing regulation of environmental conditions, Joint Annual Meetings of The Society for Mathematical Biology and The Japanese Society for Mathematical Biology - 2007 (San Jose, California, July 31- August 3, 2007).

Seto, M., T. Akagi and M. Yoh: The enhancement of nitrification in the presence of herbivores, ECEM 07 The 6th European Conference on Ecological Modelling. (Trieste, Italy, November 27- 30, 2007)

[b]

, _____, 2007
, (2007,5)

_____ Ce anomaly 2007
2007,9,19

200 2007,9,19

_____: _____ 2007
2008,3,15

Seto M., Akagi, T., Iwasa, Y. A mathematical model for biotic regulation of physicochemical conditions
2007 2008,3,15

4.3.4

(B) (18310008)

4.3.5

Geochemical Society

4.3.6

2005, 10-

Geochemical Journal (2004, 1-)
2007

4.3.7

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2007 12

4.3.8

4.3.9

editor

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2007 6 29

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2007 12 23

2007 3 8

2007 3 15 2007

Geochemical Journal : Executive Editor (2004-)
: Analytical Science, Limnology

4.3.1

(1)

(2)

1993-1998

SEPR

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(3)

<http://www.gsj.go.jp/~marumo/index.html>

(4)

GNS

(5)

VMSD

4.3.2

[a] /

(2007)

, 22, 63-74 68

- Kimura, H., J.-I. Ishibashi, H. Masuda, K. Kato and S. Hanada (2007) Selective phylogenetic analysis targeting 16S rRNA genes of hyperthermophilic archaea in the deep-subsurface hot biosphere. *Appl. Environ. Microbiol.* 73, 2110-2117.
- de Ronde, C. E. J., E. T. Baker, G. J. Massoth, J. E. Lupton, I. C. Wright, R. J. Sparks, S. C. Bannister, M. E. Reyners, S. L. Walker, R. R. Greene, J. Ishibashi, K. Faure, J. A. Resing, G. T. Lebon (2007) Submarine hydrothermal activity along the mid-Kermadec Arc, New Zealand: Large-scale effects on venting. *Geochem. Geophys. Geosyst.* 8, Q07007, (doi:10.1029/2006GC001495).
- Massoth, G., E. Baker, T. Worthington, J. Lupton, C. de Ronde, R. Arculus, S. Walker, K. Nakamura, J. Ishibashi, P. Stoffers, J. Resing, R. Greene, G. Lebon (2007) Multiple hydrothermal sources along the south Tonga arc and Valu Fa Ridge. *Geochem. Geophys. Geosyst.* 8, Q11008, (doi:10.1029/2007GC001675).
- Ishibashi, J.-I., M. Nakaseama, M. Seguchi, T. Yamashita, S. Doi, T. Sakamoto, K. Shimada, N. Shimada, T. Noguchi, T. Oomori, M. Kusakabe, T. Yamanaka (2008) Marine shallow-water hydrothermal activity and mineralization at the Wakaniko crater in Kagoshima bay, south Kyushu, Japan. *J. Volcano. Geotherm. Res.*

173, 84-98

Suzuki, R., J.-I. Ishibashi, M. Nakaseama, U. Konno, U. Tsunogai, K. Gena, H. Chiba (2008) Diverse range of mineralization induced by phase separation of hydrothermal fluid: a case study of the Yonaguni IV hydrothermal field in the Okinawa Trough Backarc Basin. *Resour. Geol.* in press.

Nakaseama, M., J.-I. Ishibashi, K. Ogawa, H. Hamasaki, K. Fujino, T. Yamanaka (2008) Fluid sediment interaction in a marine shallow-water hydrothermal system in the Wakaniko submarine crater, south Kyushu, Japan. *Resour. Geol.* in press.

[b]

1-4

pp. 10-22

, , , 2008

4.3.3

[a]

J.-I. Ishibashi, K. Ogawa, C. Kawatani, H. Chiba. Iron-rich groundwater of the Aso caldera, central Kyushu, Japan. 20th New Zealand Geochemical Group Conference (2007. 7. 4 at Otago, New Zealand).

J. Ishibashi: Diversity in Mineralization Caused by Phase Separation of the Hydrothermal Fluid: Case Studies of the Southern Okinawa Trough Back-arc Basin. Underwater Mining Institute 2007 (2007. 10. 15 at Tokyo, Japan).

J. Ishibashi: Chemistry of mineralization and fluids in submarine systems, Okinawa Trough. IGCP-502 workshop 2007 (2007. 10. 27 at Tokyo, Japan).

J. Ishibashi, R. Suzuki, H. Hamasaki, T. Yamanaka, H. Chiba, U. Tsunogai, A. Ijiri, S. Nakagawa, K. Takai, M. Kinoshita, J. Ashi: Vapor-rich hydrothermal fluid migration within puniceous sediment in the Iheya North Knoll, Okinawa Trough. V34B-06, AGU Fall Meeting 2007 (2007. 12. 12 at San Francisco, U.S.A.).

[b]

4.3.4

(C)(19612001) (19-20

(B)(18340170) 18-19

4.3.5

American Geophysical Union

4.3.6

: 2005.4 - 2008.3)
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4.3.8

4.3.9

editor

Associate Editor: *Geochemical Journal* (2004-2007)

Associate Editor: *Geochimica Cosmochimica Acta* (2005-)

: *Journal of Oceanography* 2, Geochemistry, Geophysics and Geosystem

4.3.1

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

11.

EPMA

4.3.2

[a] /

Harijoko, A., Y. Ohbuchi, Y. Motomura, A. Imai and K. Watanabe (2007) Characteristics of Cibaliung gold deposit: A Miocene low sulfidation-type epithermal gold deposit in Western Java, Indonesia, *Resource Geology* 57, 114-123.

(2007)

(III)

(III)

-, *Journal of MMIJ* 123 406-412.

[b] /

(2006)

53, 36-55.

4.3.3

[a]

Watanabe, K., K. Hatae, T. Yamanaka, Y. Motomura, K. Watanabe Petrochemistry of juvenile micro-pumice detected from early tephra before lava dome appearance in Unzen Volcano 1990- 1995 eruption, Cities on Volcanoes No.5 (Shimabara), 2007.

[b]

SipB . Thermus (), 2007

(), 2007

. (), 2007

4.3.4

(B), , (:)

4.3.5

4.3.6

4.3.7

2006 8

4.3.8

4.3.9

editor

Resource Geology 1

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Eclogite

4.2.2

[a] /

M. Nishi, T. Kato, T. Kubo, T. Kikegawa, Survival of pyrope garnet in subducting plates, *Phys. Earth Planet. Inter.*, in press

[b] /

M. Nishi, T. Kato, T. Kubo and T. Kikegawa, Experimental investigation on the kinetics of the pyroxene-garnet transformation using an *in-situ* X-ray diffraction method, Photon Factory Activity Report 2006 #24 Part A, 31-33, 2007

T. Kubo, M. Nishi, A. Tominaga, T. Kato, T. Kikegawa, An *in-situ* X-ray diffraction study on kinetics of plagioclase breakdown at high pressure, Photon Factory Activity Report 2006 #24 Part B, 198, 2007

T. Kubo, M. Kimura, M. Nishi, A. Tominaga, T. Kato, T. Kikegawa, Amorphization and crystallization kinetics of plagioclase at high pressure and temperature, Photon Factory Activity Report 2006 #24 Part B, 197, 2007

No. 4, 2008

(2007)

Kyushu Univ. No. 31 86-87.

Annual Reports, HVEM LAB.,

(2007)

Kyushu Univ. No. 3 88-89.

Annual Reports, HVEM LAB.,

(2007)

Kyushu Univ. No. 3 90-91.

Annual Reports, HVEM LAB.,

(2007)

Reports, HVEM LAB., Kyushu Univ. No. 31 92-93

Annual

4.2.3

[a]

A. Tominaga, T. Kato, M. Kurosawa, T. Kubo, Diffusive transfer of trace lithophile elements in the upper mantle conditions, 7th High Pressure Mineral Physics Seminar, Matsushima, Japan, 2007

T. Kubo, M. Kimura, T. Kato, M. Nishi, A. Tominaga, T. Kikegawa, K. Funakoshi, Amorphization and crystallization kinetics of plagioclase at high pressure and temperature, 7th High Pressure Mineral Physics Seminar, Matsushima, Japan, 2007 (invite)

M. Nishi, T. Kubo and T. Kato, Experimental investigation on mechanisms and kinetics of the eclogite-garnetite transformation, Misasa the 3rd COE-21 international symposium, Misasa, Japan, March 2008

4.3

4.3.1

4.3.2

[a] /

M. Nishi, T. Kato, T. Kubo, T. Kikegawa, Survival of pyrope garnet in subducting plates, *Phys. Earth Planet. Inter.*, in press

[b] /

M. Nishi, T. Kato, T. Kubo and T. Kikegawa, Experimental investigation on the kinetics of the pyroxene-garnet transformation using an *in-situ* X-ray diffraction method, Photon Factory Activity Report 2006 #24 Part A, 31-33, 2007

T. Kubo, M. Nishi, A. Tominaga, T. Kato, T. Kikegawa, An *in-situ* X-ray diffraction study on kinetics of plagioclase breakdown at high pressure, Photon Factory Activity Report 2006 #24 Part B, 198, 2007

T. Kubo, M. Kimura, M. Nishi, A. Tominaga, T. Kato, T. Kikegawa, Amorphization and crystallization kinetics of plagioclase at high pressure and temperature, Photon Factory Activity Report 2006 #24 Part B, 197, 2007

T. Kubo, T. Kondo, T. Kato, T. Kikegawa, *In-situ* X-ray observation of individual grains during grain growth of high-pressure ice VI, Photon Factory Activity Report 2006 #24 Part B, 214, 2007

No. 4, 2008

4.3.3

[a]

T. Kubo, M. Kimura, T. Kato, M. Nishi, A. Tominaga, T. Kikegawa, K. Funakoshi, Amorphization and crystallization kinetics of plagioclase at high pressure and temperature, 7th High Pressure Mineral Physics Seminar, Matsushima, Japan, 2007 (invite)

A. Tominaga, T. Kato, M. Kurosawa, T. Kubo, Diffusive transfer of trace lithophile elements in the upper mantle conditions, 7th High Pressure Mineral Physics Seminar, Matsushima, Japan, 2007

T. Kubo, M. Kimura, M. Nishi, A. Tominaga, T. Kato, T. Kikegawa, K. Funakoshi, Experimental constraints on P-T-t conditions for plagioclase amorphization and crystallization of high-pressure phases in shocked meteorites, AGU Fall Meeting, San Francisco, 2007

M. Nishi, T. Kubo and T. Kato, Experimental investigation on mechanisms and kinetics of the eclogite-garnet transformation, Misasa the 3rd COE-21 international symposium, Misasa, Japan, March 2008

A. Tominaga, T. Kato, T. Kubo, M. Kurosawa, Mobilities of major and trace elements in the upper mantle conditions, Misasa the 3rd COE-21 international symposium, Misasa, Japan, March 2008

[b]

2007

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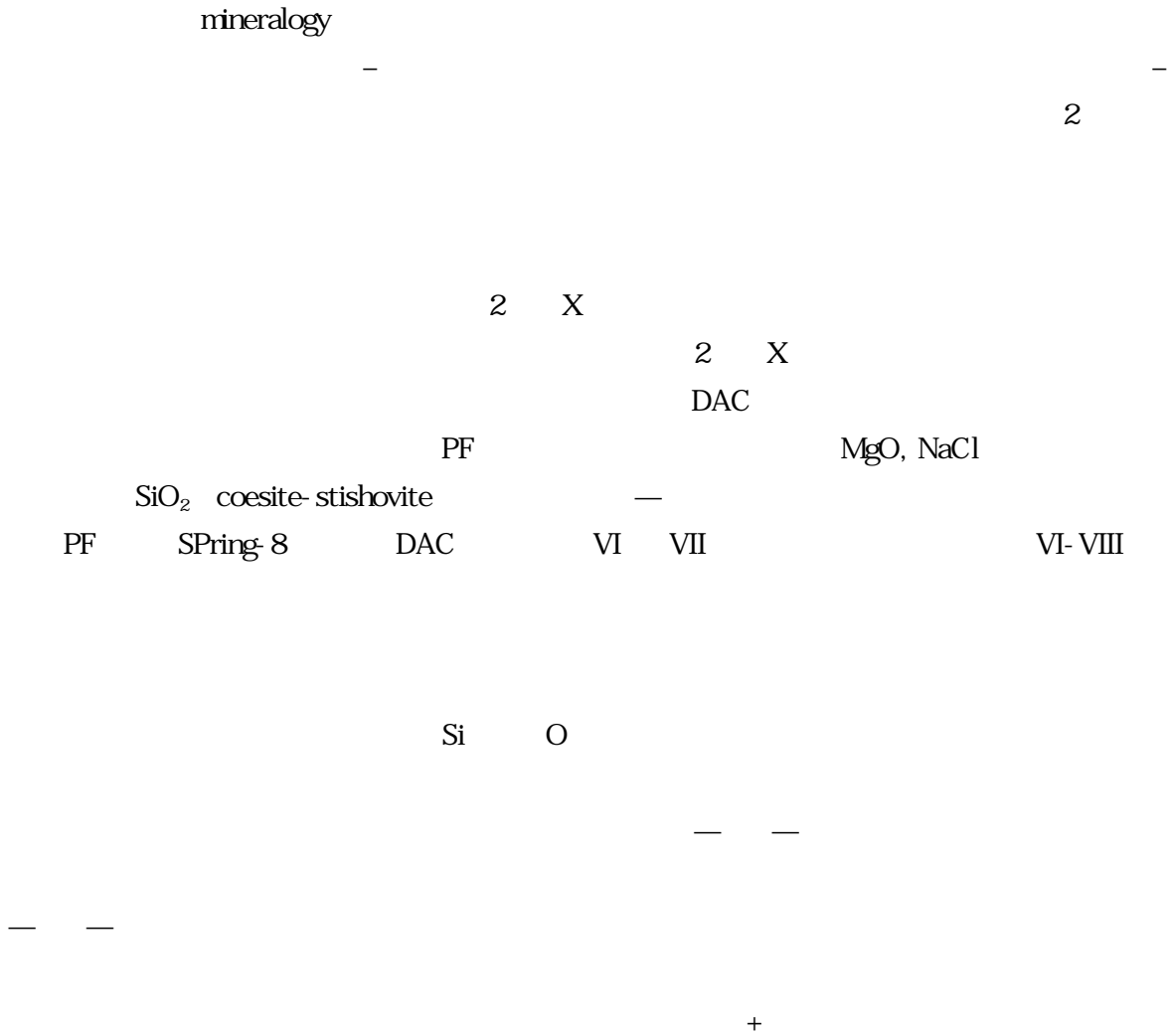
4.3.9

editor

Space 1

: Physics of the Earth and Planetary Interior 1 Earth, Planet, and

4.3.1



MIT Durham

4.3.2

[a] /

M. Nishi, T. Kato, T. Kubo, T. Kikegawa, Survival of pyrope garnet in subducting plates, *Phys. Earth Planet. Inter.*, in press

[b] /

vol. 141,

6-10, 2007

M. Nishi, T. Kato, T. Kubo and T. Kikegawa, Experimental investigation on the kinetics of the

pyroxene-garnet transformation using an *in-situ* X-ray diffraction method, Photon Factory Activity Report 2006 #24 Part A, 31- 33, 2007

T. Kubo, M. Nishi, A. Tominaga, T. Kato, T. Kikegawa, An in-situ X-ray diffraction study on kinetics of plagioclase breakdown at high pressure, Photon Factory Activity Report 2006 #24 Part B, 198, 2007

T. Kubo, M. Kimura, M. Nishi, A. Tominaga, T. Kato, T. Kikegawa, Amorphization and crystallization kinetics of plagioclase at high pressure and temperature, Photon Factory Activity Report 2006 #24 Part B, 197, 2007

T. Kubo, T. Kondo, T. Kato, T. Kikegawa, In-situ X-ray observation of individual grains during grain growth of high-pressure ice VI, Photon Factory Activity Report 2006 #24 Part B, 214, 2007

4.3.3

[a]

T. Kubo, M. Kimura, T. Kato, M. Nishi, A. Tominaga, T. Kikegawa, K. Funakoshi, Amorphization and crystallization kinetics of plagioclase at high pressure and temperature, 7th High Pressure Mineral Physics Seminar, Matsushima, Japan, 2007

A. Shimajuku, T. Kubo, E. Ohtani, T. Nakamura, R. Okazaki, S. Chakraborty, R. Dohmen, Si and O diffusivity in ringwoodite, 7th High Pressure Mineral Physics Seminar, Matsushima, Japan, 2007

A. Tominaga, T. Kato, M. Kurosawa, T. Kubo, Diffusive transfer of trace lithophile elements in the upper mantle conditions, 7th High Pressure Mineral Physics Seminar, Matsushima, Japan, 2007

T. Kubo, M. Kimura, M. Nishi, A. Tominaga, T. Kato, T. Kikegawa, K. Funakoshi, Experimental constraints on P-T-t conditions for plagioclase amorphization and crystallization of high-pressure phases in shocked meteorites, AGU Fall Meeting, San Francisco, 2007

Stern, L.A., Durham W.B., Kirby, S.H., McCarthy, C., Kubo, T., Rieck, K.D., and Pathare, A.V, TI, Planetary ices up close: imaging by cryogenic SEM, AGU Fall Meeting, San Francisco, 2007

M. Nishi, T. Kubo and T. Kato, Experimental investigation on mechanisms and kinetics of the eclogite-garnetite transformation, Misasa the 3rd COE-21 international symposium, Misasa, Japan, March 2008

A. Tominaga, T. Kato, T. Kubo, M. Kurosawa, Mobilities of major and trace elements in the upper mantle conditions, , Misasa the 3rd COE-21 international symposium, Misasa, Japan, March 2008

A. Shimajuku, T. Kubo, E. Ohtani, T. Nakamura, R. Okazaki, S. Chakraborty, and R. Dohmen, Silicon and oxygen diffusion in ringwoodite, EASTEC Symposium 2007, Sendai, Japan

[b]

2007

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Seismological and experimental constraints on metastable phase transformations and rheology of the Mariana slab

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(AGU)

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4.3.6

4.3.7

2007 12

AGU Fall Meeting

2008 3-4

4.3.8

4.3.9

editor

T. Kubo, M. Kimura, T. Kato, M. Nishi, A. Tominaga, T. Kikegawa, K. Funakoshi, Amorphization and crystallization kinetics of plagioclase at high pressure and temperature, 7th High Pressure Mineral Physics Seminar, Matsushima, Japan, 2007

Phys. Earth Planet. Int. 3, Science 1, Geophys. Res. Lett. 1

4.3.1

(1)

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- (3)
- (4)
- (5)

4.3.2

[a] /

(2007) , 46, 6- 15.

H. Kanazawa, K. Ito, H. Sato, M. Kumatoriya, K. Miyazaki, S. Uehara, H. Tsuda, K. Kuzawa, N. Kawame, T. Kitazawa, O. Tamada, M.B. Boisen, Jr. and H. Takei. (2007) Synthesis and absorption spectra of large homogeneous single crystals of forsterite doped with manganese. Journal of Crystal Growth Volume 304, Issue 2, 15 June 2007, 492- 496.

[b] /

(2007) Annual Reports, HVEMLAB.,
Kyushu Univ. No. 31 86- 87.

(2007) Annual Reports, HVEMLAB.,
Kyushu Univ. No. 3 88- 89.

(2007) Annual Reports, HVEMLAB.,
Kyushu Univ. No. 3 90- 91.

(2007) Annual
Reports, HVEMLAB., Kyushu Univ. No. 31 92- 93

(2007) Annual Reports,
HVEMLAB., Kyushu Univ. No. 31 94- 95.

(2007) 18 6 64

(2007) 18 69- 70

(2007) 18 105- 106

(2007) 18 115- 116

4.3.3

[a]

A. Mukunoki, T. Chiba, Y. Suzuki, S. Uehara, H. Asano and T. Nishimura (2007) Development of an Iodine immobilization technique by low temperature vitrification with BiPbO₂I. Proceedings of the 11th International Conference on Environmental Remediation and Radioactive Waste Management ICEM2007 September 2- 6, 2007, Oud Sint- Jan Hospital Conference Center, Bruges, Belgium ICEM07- 7142

436
IMA

437

438

439

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editor

American Mineralogist
Journal of Mineralogical and Petrological Sciences ()
Physics and Chemistry of Minerals (1)

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2005

4.2.2

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4.2.3

[a]

Parithusta, R., S. Matsumoto, and H. Shimizu, Determining three-dimensional attenuation structure model using spectra of micro earthquakes, in Kyushu Island - South of Japan, The second international scientific conference of young scientists and students, 8-9 October 2007, Baku, Azerbaijan

Kohno, Y., T. Matsushima, S. Matsumoto, and H. Shimizu, Magma Chamber Model of Unzen Volcano Causing 1990-1995 Eruption Inferred from Seismic and Ground Deformation Data Using FEM, Cities

on Volcanoes 5, 11- P- 07, 19- 23 November, 2007, Shimabara, Japan.

Parithusta, R. and S. Matsumoto, Seismic Activity around and beneath Krakatau Volcano, Sunda Strait, Indonesia, Cities on Volcanoes 5, 11- P- 80, 19- 23 November, 2007, Shimabara, Japan.

Kohno, Y., S. Matsumoto, T. Matsushima, K. Uehira, K. Umakoshi, H. Shimizu, FEM Modeling for Magma Chamber of Unzen Volcano Causing 1990- 1995 Eruption Inferred From Seismic and Ground Deformation Data, 2007 AGU Fall Meeting V11A- 0367, 10- 14 December 2007, San Francisco, USA.

[b]

Parithusta, R., S. Matsumoto, K. Uehira, T. Matsushima, H. Shimizu, Determining Three Dimension Q - Attenuation Structure beneath Kyushu Island, Japan exerting Waveform - Spectra of Microearthquakes, 2007 , S152- P027.

Determining 3D Attenuation Structure beneath Kyushu, Japan exerting Waveform - Spectra of Microearthquakes (2) 2007 C31- 05.

1990- 1995 2007 B15.

1990- 1995

- Out of range

4 2008 3 10 11 .

4.2.4 Fund

Parithusta, R., S. Matsumoto, and H. Shimizu, Determining three- dimensional attenuation structure model using spectra of micro earthquakes, in Kyushu Island - South of Japan, The second international del using spectra of micro earthquakes, in Kyushu Island - South of Japan, The second international scientific conference of young scientists and students, 8- 9 October 2007, Baku, Azerbaijan.

Kohno, Y., S. Matsumoto, T. Matsushima, K. Uehira, K. Umakoshi, and H. Shimizu, FEM Modeling for Magma Chamber of Unzen Volcano Causing 1990- 1995 Eruption Inferred From Seismic and Ground Deformation Data, 2007 AGU Fall Meeting V11A- 0367, 10- 14 December 2007, San Francisco, USA.

4.3

4.3.1

1)

2)

2005

3)

4.3.2

[a]

Tahara, M., K. Uehira, H. Shimizu, M. Nakada, T. Yamada, K. Mochizuki, M. Shinohara, M. Nishino, R. Hino, H. Yakiwara, H. Miyamachi, K. Umakoshi, M. Goda, N. Matsuwo and T. Kanazawa, 2008, Seismic velocity structure around the Hyuganada region, Southwest Japan, derived from seismic tomography using land and OBS data and its implications for interplate coupling and vertical crustal uplift, *Physics of the Earth and Planetary Interiors*, 167, 19-33

2002 9 - 2005 4

82 3 195-207 2007.

[b]

-, 71 39-40 2007.

(2006 8 2007 1)

78 554-558 2007

78

559-560 2007

1990-1995

, 28pp, 2007.

Shimizu, H., T. Matsushima, S. Nakada, T. Fujii, H. Hoshizumi, S. Takarada, Y. Miyabuchi, T. Ui, Y. Miyake, T. Sugimoto, D. Nagai, K. Hata, S. Sugimoto, E. Matsushita, and D. Yoshida, Unzen Eruption- Disaster and Recovery-, Intra Meeting Excursion Guide Book of Cities on Volcanoes 5 Conference, 28pp, 2007.

S. Takarada, H. Hoshizumi, S. Nakada, H. Shimizu, T. Matsushima, Y. Miyabuchi, M. Yoshimoto, Y. Goto, T. Sugimoto, and D. Nagai, Unzen Volcano and New Lava Dome Climb, Cities on Volcanoes 5 Conference Field Trip Guidebook, C1:1-32, 2007.

, 5

53, 51-62, 2008

, 153pp, 2008

98 88-90 2008

-2006 5 11 -

98 91-95 2008

4.3.3

[a]

Uehira, K., H. Yakiwara, T. Yamada, M. Shinohara, T. Kanazawa, K. Umakoshi, K. Goto, H. Miyamachi, R. Hino, K. Mochizuki, K. Nakahigashi, M. Goda, and H. Shimizu, The stress field of the Hyuga-Nada Region, Southwest Japan, deduced from ocean-bottom seismic observations, *International Union Of*

- Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Nakahigashi, K., A. Kuwano, T. Yamada, K. Mochizuki, M. Shinohara, S. Sakai, T. Kanazawa, K. Uehira, and H. Shimizu, Seismic structure and seismicity of the rupture areas of the Tonankai, Nankai earthquakes derived from long-term sea floor earthquake observation, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Yamada, T., T. Yamada, M. Shinohara, T. Kanazawa, N. Hirata, Y. Kaneda, T. Takanami, H. Mikada, K. Suyehiro, S. Sakai, T. Watanabe, K. Uehira, Y. Murai, N. Takahashi, K. Mochizuki, T. Sato, E. Araki, R. Hino, K. Uehira, H. Shiobara, and H. Shimizu, Aftershock distribution of the 2003 Tokachi-oki Earthquake derived from temporal network of ocean bottom seismographs, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Parithusta, R., S. Matsumoto, and H. Shimizu, Determining three-dimensional attenuation structure model using spectra of micro earthquakes, in Kyushu Island - South of Japan, The second international scientific conference of young scientists and students, 8- 9 October 2007, Baku, Azerbaijan.
- Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, and H. Shimizu, Attenuation Structure of P Wave in the Aftershock Area of 2005 Fukuoka, Japan - Earthquake (M7.0), 6th International Seminar on Seismic Tomography of Far-East Asia and related works, 7- 10 October 2007, Korea.
- Shimizu, H., T. Matsushima, Y. Kohno, S. Matsumoto, K. Uehira, A. Saiga, and A. Watanabe, Monitoring of Magma Re-accumulation Process After the 1990- 1995 Eruption of Unzen Volcano, Cities on Volcanoes 5, 12- P- 85, 19- 23 November, 2007, Shimabara, Japan.
- Nakada, S., Y. Goto, S. Sakuma, and H. Shimizu, Scientific Results of Conduit Drilling at Mount Unzen, Cities on Volcanoes 5, 11- O- 12, 19- 23 November, 2007, Shimabara, Japan.
- Sugimoto, T., H. Hoshizumi, and H. Shimizu, History of Mayuyama, Unzen Volcano, Japan Inferred from Stratigraphy and Petrological Feature of Borehole Cores, Cities on Volcanoes 5, 11- P- 04, 19- 23 November, 2007, Shimabara, Japan.
- Kohno, Y., T. Matsushima, S. Matsumoto, and H. Shimizu, Magma Chamber Model of Unzen Volcano Causing 1990- 1995 Eruption Inferred from Seismic and Ground Deformation Data Using FEM, Cities on Volcanoes 5, 11- P- 07, 19- 23 November, 2007, Shimabara, Japan.
- Okubo, A., Y. Tanaka, T. Nakatsuka, T. Kagiyama, W. Kanda, N. Kitada, M. Utsugi, K. Ishihara, H. Shimizu, T. Matsushima, D. Miki, T. Takayama, and M. Fukushima, Utility of Aeromagnetic Studies for Imaging of Subsurface Structures in Two Active Volcanoes: Unzen and Sakurajima Volcanoes, Kyushu, Japan, Cities on Volcanoes 5, 11- P- 10, 19- 23 November, 2007, Shimabara, Japan.
- Matsumoto, S., H. Shimizu, M. Onishi, K. Uehira, and N. Matsuwo, Seismic Reflection Survey of the Crustal Structure beneath Unzen Volcano, Kyushu, Japan, Cities on Volcanoes 5, 11- P- 14, 19- 23 November, 2007, Shimabara, Japan.
- Saiga, A., S. Matsumoto, K. Uehira, K. Umakoshi, T. Matsushima, and H. Shimizu, Crustal Velocity Structure beneath Unzen volcano, Cities on Volcanoes 5, 11- P- 20, 19- 23 November, 2007, Shimabara, Japan.
- Watanabe, A., S. Matsumoto, and H. Shimizu, Scatterer Distribution beneath Unzen Volcano, Cities on Volcanoes 5, 11- P- 21, 19- 23 November, 2007, Shimabara, Japan.
- Umakoshi, K., K. Kajihara, E. Matsui, and H. Shimizu, Seismic Events Observed Prior to and During the 1990- 1995 Eruption of Unzen Volcano, Japan, Cities on Volcanoes 5, 12- P- 05, 19- 23 November, 2007, Shimabara, Japan.
- Itasaka, N., K. Umakoshi, and H. Shimizu, Seismic Activity in the Early Stage of Dome Growth at Unzen Volcano, Japan (May - June 1991), Cities on Volcanoes 5, 12- P- 06, 19- 23 November, 2007, Shimabara, Japan.
- Matsushima, T., Y. Kohno, A. Hirao, and H. Shimizu, GPS Monitoring of the Lava Dome Deformation of

Heisei Shirazan, Unzen Volcano, Cities on Volcanoes 5, 12- P- 18, 19- 23 November, 2007, Shimabara, Japan

Ueki, S., H. Shimizu, K. Uchida, T. Maekawa, Y. Sudo, H. Miyamachi, H. Watanabe, and K. Ishihara, Gravity Changes Observed during the 1990- 1995 Eruption of Unzen Volcano, Japan, Cities on Volcanoes 5, 12- P- 28, 19- 23 November, 2007, Shimabara, Japan.

Matsumoto, S., K. Uehira, T. Okada, T. Yamada, Y. Iio, M. Shinohara, H. Miyamachi, H. Takahashi, K. Nakahigashi, T. Matsushima, T. Kanazawa, and H. Shinizu, Heterogeneous structure in and around 2005 West off Fukuoka Earthquake inferred from dense seismic observation, 2007 AGU Fall Meeting S31A- 0202, 10- 14 December 2007, San Francisco, USA.

Kohno, Y., S. Matsumoto, T. Matsushima, K. Uehira, K. Umakoshi, and H. Shinizu, FEM Modeling for Magma Chamber of Unzen Volcano Causing 1990- 1995 Eruption Inferred From Seismic and Ground Deformation Data, 2007 AGU Fall Meeting V11A- 0367, 10- 14 December 2007, San Francisco, USA.

[b]

Saiga, A., S. Matsumoto, K. Uehira, T. Murakoshi, H. Shinizu, Velocity structure in the crust and upper mantle under the north- western part of Kyushu area, 2007 , S152- 002.

Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, H. Shinizu, M. Shinohara, T. Kanazawa, Attenuation Structure of P Wave in the Aftershock Area of the 2005 West- off Fukuoka Prefecture Earthquake (M7.0), 2007 , S152- 008.

Parithusta, R., S. Matsumoto, K. Uehira, T. Matsushima, H. Shinizu, Determining Three Dimension Q - Attenuation Structure beneath Kyushu Island, Japan exerting Waveform - Spectra of Microearthquakes, 2007 , S152- P027.

Murakoshi, T., H. Takenaka, H. Shinizu, K. Uehira, Seismic imaging of the crustal structure in the back- arc of Kyushu by receiver function analysis, 2007 , S152- P028.

, 2007 , S229- P007.

Uehira, K., K. Uchida, H. Shinizu, R. Hino, T. Yamada, K. Mochizuki, K. Nakahigashi, M. Shinohara, T. Kanazawa, K. Umakoshi, H. Yakiwara, S. Hirano, H. Miyamachi, K. Goto, M. Goda, The relation between the stress field and the seismic coupling in the Hyuga- nada region deduced from OBS observations, 2007 , T233- P001.

2007 B22- 08.

2005 Q (2) 2007

C31- 04 Determining 3D Attenuation Structure beneath Kyushu, Japan exerting Waveform - Spectra of Microearthquakes(2) 2007 C31- 05.

2007 P2- 089.

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4.3.9

editor

[a]

[b]

Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, H. Shimizu, Attenuation Structure of P Wave in the Aftershock Area of 2005 Fukuoka, Japan - Earthquake (M7.0), 6th International Seminar on Seismic Tomography of Far-East Asia and related works, 7- 10 October 2007, Korea.

[c]

[d] editor

[e]

4.3.1

1 2
3

4.3.2

[a]

19 2007
82 3 225-233 2007.
Nishigami, K. and S. Matsumoto, Imaging inhomogeneous structures in the Earth by coda envelope inversion and seismic array observation, *Advances in Wave Propagation in Heterogeneous Earth*, (Eds. Wu and Maupin), *Advances in Geophysics Series of Elsevier* (in press)

[b]

71 39-40 2007. (2006 8 2007 1)
78 554-558 2007
559-560 2007
98 88-90 2008
98 91-95 2008
78

4.3.3

[a]

Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, M. Shinohara, and T. Kanazawa, Attenuation Structure of P Wave in the Aftershock Area of the 2005 West-off Fukuoka Prefecture Earthquake (M7.0), *International Union Of Geodesy And Geophysics 2007 General Assembly*, 2-13 July 2007, Perugia, Italy.
Parithusta, R., S. Matsumoto, and H. Shimizu, Determining three-dimensional attenuation structure model using spectra of micro earthquakes, in *Kyushu Island - South of Japan*, The second international scientific conference of young scientists and students, 8-9 October 2007, Baku, Azerbaijan
Matsumoto, S., H. Shimizu, M. Onishi, K. Uehira, and N. Matsuwo, Seismic Reflection Survey of the Crustal Structure beneath Unzen Volcano, Kyushu, Japan, *Cities on Volcanoes 5*, 11-P-14, 19-23 November, 2007, Shimabara, Japan
Kohno, Y., T. Matsushima, S. Matsumoto, and H. Shimizu, Magma Chamber Model of Unzen Volcano Causing 1990-1995 Eruption Inferred from Seismic and Ground Deformation Data Using FEM, *Cities on Volcanoes 5*, 11-P-07, 19-23 November, 2007, Shimabara, Japan

Saiga, A., S. Matsumoto, K. Uehira, K. Umakoshi, T. Matsushima, and H. Shimizu, Crustal Velocity Structure beneath Unzen volcano, Cities on Volcanoes 5, 11- P- 20, 19- 23 November, 2007, Shimabara, Japan

Watanabe, A., S. Matsumoto, and H. Shimizu, Scatterer Distribution beneath Unzen Volcano, Cities on Volcanoes 5, 11- P- 21, 19- 23 November, 2007, Shimabara, Japan.

Parithusta, R. and S. Matsumoto, Seismic Activity around and beneath Krakatau Volcano, Sunda Strait, Indonesia, Cities on Volcanoes 5, 11- P- 80, 19- 23 November, 2007, Shimabara, Japan.

Shimizu, H., T. Matsushima, Y. Kohno, S. Matsumoto, K. Uehira, A. Saiga, and A. Watanabe, Monitoring of Magma Re- accumulation Process After the 1990- 1995 Eruption of Unzen Volcano, Cities on Volcanoes 5, 12- P- 85, 19- 23 November, 2007, Shimabara, Japan.

Matsumoto, S., K. Uehira, T. Okada, T. Yamada, Y. Iio, M. Shinohara, H. Miyamachi, H. Takahashi, K. Nakahigashi, T. Matsushima, T. Kanazawa, and H. Shimizu, Heterogeneous structure in and around 2005 West off Fukuoka Earthquake inferred from dense seismic observation, 2007 AGU Fall Meeting S31A- 0202, 10- 14 December 2007, San Francisco, USA.

Kohno, Y., S. Matsumoto, T. Matsushima, K. Uehira, K. Umakoshi, and H. Shimizu, FEM Modeling for Magma Chamber of Unzen Volcano Causing 1990- 1995 Eruption Inferred From Seismic and Ground Deformation Data, 2007 AGU Fall Meeting V11A- 0367, 10- 14 December 2007, San Francisco, USA.

[b]

Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, H. Shimizu, M. Shinohara, T. Kanazawa, Attenuation Structure of P Wave in the Aftershock Area of the 2005 West- off Fukuoka Prefecture Earthquake (M7.0), 2007 , S152- 008

Saiga, A., S. Matsumoto, K. Uehira, T. Murakoshi, H. Shimizu, Velocity structure in the crust and upper mantle under the north- western part of Kyushu area, 2007 , S152- 002

Parithusta, R., S. Matsumoto, K. Uehira, T. Matsushima, H. Shimizu, Determining Three Dimension Q - Attenuation Structure beneath Kyushu Island, Japan exerting Waveform - Spectra of Microearthquakes, 2007 , S152- P027.

2007 , V156- 020

2007 6 4 5 .

- 2007 9 25- 26 .

2005 Q (2) 2007

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Determining 3D Attenuation Structure beneath Kyushu, Japan exerting Waveform - Spectra of Microearthquakes(2) 2007

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American Geophysical Union

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editor

[a]

[b]

Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, H. Shinizu, Attenuation Structure of P Wave in the Aftershock Area of 2005 Fukuoka, Japan - Earthquake (M7.0), 6th International Seminar on Seismic Tomography of Far- East Asia and related works, 7- 10 October 2007, Korea.

[c]

Nishigami, K. and S. Matsumoto, Imaging inhomogeneous structures in the Earth by coda envelope inversion and seismic array observation, Advances in Wave Propagation in Heterogeneous Earth, (Eds. Wu and Maupin), Advances in Geophysics Series of Elsevier (in press)

[d] editor

[e]

4.3.1

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[b]

-, 71 39-40 2007.

(2006 8 2007 1)

78 554-558 2007

559-560 2007

78

79 478-483 2007
GPS

2007

1990-1995
, 28pp, 2007.

- Shimizu, H., T. Matsushima, S. Nakada, T. Fujii, H. Hoshizumi, S. Takarada, Y. Miyabuchi, T. Ui, Y. Miyake, T. Sugimoto, D. Nagai, K. Hata, S. Sugimoto, E. Matsushita, and D. Yoshida, Unzen Eruption- Disaster and Recovery- , Intra Meeting Excursion Guide Book of Cities on Volcanoes 5 Conference, 28pp, 2007.
- S. Takarada, H. Hoshizumi, S. Nakada, H. Shimizu, T. Matsushima, Y. Miyabuchi, M. Yoshimoto, Y. Goto, T. Sugimoto, and D. Nagai, Unzen Volcano and New Lava Dome Climb, Cities on Volcanoes 5 Conference Field Trip Guidebook, C1:1- 32, 2007.
- , 5 53, 51- 62, 2008
, 153pp, 2008.
- 98 88- 90 2008 -2006 5 11 -
98 91- 95 2008
- 4.3.3
- [a]
- Hosseini K., S. Yoshioka, T. Matsushima, and S. Suzuki, An extension of lower crust in central Kyushu, Japan, inferred from GPS derived velocity field- An Implication of Beppu- Shimabara graben structure, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Matsushima, T., Y. Kohno, A. Hirao, and H. Shimizu, GPS Monitoring of the Lava Dome Deformation of Heisei Shirzan, Unzen Volcano, Cities on Volcanoes 5, 12- P- 18, 19- 23 November, 2007, Shimabara, Japan.
- Kohno, Y., T. Matsushima, S. Matsumoto, and H. Shimizu, Magma Chamber Model of Unzen Volcano Causing 1990- 1995 Eruption Inferred from Seismic and Ground Deformation Data Using FEM, Cities on Volcanoes 5, 11- P- 07, 19- 23 November, 2007, Shimabara, Japan.
- Okubo, A., Y. Tanaka, T. Nakatsuka, T. Kagiyama, W. Kanda, N. Kitada, M. Utsugi, K. Ishihara, H. Shimizu, T. Matsushima, D. Miki, T. Takayama, and M. Fukushima, Utility of Aeromagnetic Studies for Imaging of Subsurface Structures in Two Active Volcanoes: Unzen and Sakurajima Volcanoes, Kyushu, Japan, Cities on Volcanoes 5, 11- P- 10, 19- 23 November, 2007, Shimabara, Japan.
- Saiga, A., S. Matsumoto, K. Uehira, K. Umakoshi, T. Matsushima, and H. Shimizu, Crustal Velocity Structure beneath Unzen volcano, Cities on Volcanoes 5, 11- P- 20, 19- 23 November, 2007, Shimabara, Japan.
- Shimizu, H., T. Matsushima, Y. Kohno, S. Matsumoto, K. Uehira, A. Saiga, and A. Watanabe, Monitoring of Magma Re- accumulation Process After the 1990- 1995 Eruption of Unzen Volcano, Cities on Volcanoes 5, 12- P- 85, 19- 23 November, 2007, Shimabara, Japan.
- Matsumoto, S., K. Uehira, T. Okada, T. Yamada, Y. Iio, M. Shinohara, H. Miyamachi, H. Takahashi, K. Nakahigashi, T. Matsushima, T. Karazawa, and H. Shimizu, Heterogeneous structure in and around 2005 West off Fukuoka Earthquake inferred from dense seismic observation, 2007 AGU Fall Meeting S31A- 0202, 10- 14 December 2007, San Francisco, USA.
- Kohno, Y., S. Matsumoto, T. Matsushima, K. Uehira, K. Umakoshi, and H. Shimizu, FEM Modeling for Magma Chamber of Unzen Volcano Causing 1990- 1995 Eruption Inferred From Seismic and Ground Deformation Data, 2007 AGU Fall Meeting, V11A- 0367, 10- 14 December 2007, San Francisco, USA.
- [b]
- Parithusta, R., S. Matsumoto, K. Uehira, T. Matsushima, H. Shimizu, Determining Three Dimension Q - Attenuation Structure beneath Kyushu Island, Japan exerting Waveform - Spectra of Microearthquakes, 2007 , S152- P027.

GPS (2006), 2007 , V156-P003
 , 2007 , V156-P021.
 2007 , V156-P034 2002 (2),
 , SO2 , 2007 , V236-011.
 3
 2007 B22-08
 Determining 3D Attenuation Structure beneath
 Kyushu, Japan exerting Waveform - Spectra of Microearthquakes(2) 2007
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4.3.2

[a]

Shinohara, M., T. Kanazawa, T. Yamada, K. Nakahigashi, S. Sakai, R. Hino, Y. Murai, A. Yamazaki, K. Obana, Y. Ito, K. Iwakiri, R. Miura, Y. Machida, K. Mochizuki, K. Uehira, M. Tahara, A. Kuwano, S. Amamiya, S. Kodaira, T. Takanami, Y. Kaneda, and T. Iwasaki 2008, Precise aftershock distribution of the 2007 Chuetsu-oki Earthquake obtained by using an ocean bottom seismometer network Earth Planets Space in press.

Yamada, T., K. Mochizuki, M. Shinohara, T. Kanazawa, A. Kuwano, K. Nakahigashi, R. Hino, K. Uehira, T. Yagi, N. Takeda, and S. Hashimoto 2008, Aftershock observation of the Noto Hanto earthquake in 2007 using ocean bottom seismometers Earth Planets Space in press.

Tahara, M., K. Uehira, H. Shimizu, M. Nakada, T. Yamada, K. Mochizuki, M. Shinohara, M. Nishino, R. Hino, H. Yakiwara, H. Miyamachi, K. Umakoshi, M. Goda, N. Matsuwo and T. Kanazawa, 2008, Seismic velocity structure around the Hyuganada region, Southwest Japan, derived from seismic tomography using land and OBS data and its implications for interplate coupling and vertical crustal uplift, Physics of the Earth and Planetary Interiors, 167, 19-33

2002 9 - 2005 4

82 3 195-207 2007.

[b]

-, 71 39-40 2007.

(2006 8 2007 1)

78 554-558 2007

559-560 2007

98 88-90 2008

-2006 5 11 -

78

4.3.3

[a]

- Uehira, K., H. Yakiwara, T. Yamada, M. Shinohara, T. Kanazawa, K. Umakoshi, K. Goto, H. Miyamachi, R. Hino, K. Mochizuki, K. Nakahigashi, M. Goda, and H. Shimizu, The stress field of the Hyuga-Nada Region, Southwest Japan, deduced from ocean-bottom seismic observations, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Takanami, T., Y. Murai, Y. Machida, Y. Makino, R. Azuma, I. Saito, T. Kanazawa, M. Shinohara, K. Mochizuki, T. Yamada, R. Hino, M. Nishino, K. Uehira, and H. Miyamachi, Crustal structures in the rupture area of the 2003 Tokachi-oki earthquake (Mw=8.0), International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Yamamoto, Y., R. Hino, K. Suzuki, T. Yamada, M. Shinohara, T. Kanazawa, M. Tanaka, Y. Kaneda, and K. Uehira, Three-dimensional seismic velocity structure in the Off-Miyagi and Off-Fukushima forearc Region, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Nakahigashi, K., A. Kuwano, T. Yamada, K. Mochizuki, M. Shinohara, S. Sakai, T. Kanazawa, K. Uehira, and H. Shimizu, Seismic structure and seismicity of the rupture areas of the Tonankai, Nankai earthquakes derived from long-term sea floor earthquake observation, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Suzuki, K., R. Hino, Y. Yamamoto, T. Kanazawa, T. Yamada, M. Shinohara, K. Uehira, M. Tanaka, and Y. Kaneda, Aftershock distribution of the 2005 off Miyagi Earthquake (M7.2) by ocean bottom seismographic data, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Yamada, T., T. Yamada, M. Shinohara, T. Kanazawa, N. Hirata, Y. Kaneda, T. Takanami, H. Mikada, K. Suyehiro, S. Sakai, T. Watanabe, K. Uehira, Y. Murai, N. Takahashi, K. Mochizuki, T. Sato, E. Araki, R. Hino, K. Uehira, H. Shiobara, and H. Shimizu, Aftershock distribution of the 2003 Tokachi-oki Earthquake derived from temporal network of ocean bottom seismographs, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, M. Shinohara, and T. Kanazawa, Attenuation Structure of P Wave in the Aftershock Area of the 2005 West-off Fukuoka Prefecture Earthquake (M7.0), International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Shinohara, M., T. Yamada, T. Kanazawa, K. Suyehiro, T. Takanami, R. Hino, and K. Uehira, Precise hypocenter determination of aftershock of large interplate earthquakes near Japan arc using ocean bottom seismometers, International Union Of Geodesy And Geophysics 2007 General Assembly, 2- 13 July 2007, Perugia, Italy.
- Matsumoto, S., H. Shimizu, M. Onishi, K. Uehira, and N. Matsuwo, Seismic Reflection Survey of the Crustal Structure beneath Unzen Volcano, Kyushu, Japan, Cities on Volcanoes 5, 11- P- 14, 19- 23 November, 2007, Shimabara, Japan.
- Saiga, A., S. Matsumoto, K. Uehira, K. Umakoshi, T. Matsushima, and H. Shimizu, Crustal Velocity Structure beneath Unzen volcano, Cities on Volcanoes 5, 11- P- 20, 19- 23 November, 2007, Shimabara, Japan.
- Shimizu, H., T. Matsushima, Y. Kohno, S. Matsumoto, K. Uehira, A. Saiga, and A. Watanabe, Monitoring of Magma Re-accumulation Process After the 1990- 1995 Eruption of Unzen Volcano, Cities on Volcanoes 5, 12- P- 85, 19- 23 November, 2007, Shimabara, Japan.
- Matsumoto, S., K. Uehira, T. Okada, T. Yamada, Y. Iio, M. Shinohara, H. Miyamachi, H. Takahashi, K.

Nakahigashi, T. Matsushima, T. Kanazawa, and H. Shimizu, Heterogeneous structure in and around 2005 West off Fukuoka Earthquake inferred from dense seismic observation, 2007 AGU Fall Meeting S31A- 0202, 10- 14 December 2007, San Francisco, USA.

Kohno, Y., S. Matsumoto, T. Matsushima, K. Uehira, K. Umakoshi, and H. Shimizu, FEM Modeling for Magma Chamber of Unzen Volcano Causing 1990- 1995 Eruption Inferred From Seismic and Ground Deformation Data, 2007 AGU Fall Meeting V11A- 0367, 10- 14 December 2007, San Francisco, USA.

Suzuki, K., R. Hino, Y. Yamamoto, Y. Ito, T. Kanazawa, T. Yamada, M. Shinohara, K. Uehira, M. Tanaka, and Y. Kaneda, Focal mechanism distribution of main- and after- shock of the 2005 off Miyagi Earthquake (M7.2) by using radiation pattern of P- and S- wave, 2007 AGU Fall Meeting T53A- 1111, 10- 14 December 2007, San Francisco, USA.

[b]

Uehira, K., K. Uchida, H. Shimizu, R. Hino, T. Yamada, K. Mochizuki, K. Nakahigashi, M. Shinohara, T. Kanazawa, K. Umakoshi, H. Yakiwara, S. Hirano, H. Miyamachi, K. Goto, and M. Goda, The relation between the stress field and the seismic coupling in the Hyuga- nada region deduced from OBS observations, 2007 , T233- P001.

2007 , S144- 003

2005 M7.2 , 2007

, S144- P014

Saiga, A., S. Matsumoto, K. Uehira, T. Murakoshi, and H. Shimizu, Velocity structure in the crust and upper mantle under the north- western part of Kyushu area, 2007 , S152- 002

Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, H. Shimizu, M. Shinohara, and T. Kanazawa, Attenuation Structure of P Wave in the Aftershock Area of the 2005 West- off Fukuoka Prefecture Earthquake (M7.0), 2007 , S152- 008

Yamamoto, Y., R. Hino, K. Suzuki, T. Yamada, M. Shinohara, T. Kanazawa, M. Tanaka, Y. Kaneda, and K. Uehira, Three- dimensional seismic velocity structure in the off- Miyagi and off- Fukushima forearc region, 2007 , S152- 020

Parithusta, R., S. Matsumoto, K. Uehira, T. Matsushima, and H. Shimizu, Determining Three Dimension Q - Attenuation Structure beneath Kyushu Island, Japan exerting Waveform- Spectra of Microearthquakes, 2007 , S152- P027.

Murakoshi, T., H. Takenaka, H. Shimizu, and K. Uehira, Seismic imaging of the crustal structure in the back- arc of Kyushu by receiver function analysis, 2007 , S152- P028

Shinohara, M., I. Watanabe, K. Nakahigashi, G. Fujie, K. Mochizuki, T. Yamada, T. Kanazawa, R. Hino, T. Takanani, T. Sato, K. Uehira, Y. Kaneda, and T. Iwasaki, Seismic structure of plate boundary zone off Miyagi by seismic survey - relation between geometry of plate boundary and asperity- , 2007 , S152- P035.

2007 , S147- P009

2007

6 5

2007

D12- 07.

2007
 A11- 05.

2007
 B11- 11.

2007
 B12- 01.

2007
 B22- 08.

2005
 C31- 04.

2007
 M 7.2

3

2007
 Q (2)

2007
 Determining 3D Attenuation Structure beneath
 Kyushu, Japan exerting Waveform – Spectra of Microearthquakes(2)

C31- 05.

2007
 C31- 11.

2007
 P1- 030.

2007
 P1- 058

2007
 P2- 089.

2007
 P3- 026.

2007 10 25

1990- 1995
 OpenBlockS266

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- Out of range

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173

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6 6 19 6 10) 107

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2007 6 19

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2007 6 19
2007 6 2007 9 108

2007 10 16
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108

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2007 10 2008 1 109

2008 2 15

434

19 .

RR2002

- 19 .

(A)

19 .

(A)

19 .

(A)

19 .

(B)

18-19 .

(B)

18-20 .

19-24

435

436

437

2007 7 2 13

438

4.3.9

editor

[a]

JGN2

[b]

Matsumoto, S., K. Uehira, A. Watanabe, K. Goto, Y. Iio, N. Hirata, T. Okada, H. Takahashi, H. Shimizu, Attenuation Structure of P Wave in the Aftershock Area of 2005 Fukuoka, Japan - Earthquake (M7.0), 6th International Seminar on Seismic Tomography of Far- East Asia and related works, 7- 10 October 2007, Korea.

[c]

[d]

editor

[e]

Earth Planets Space 1

4.3.1

4.3.2

[a]

82 3 225- 233 19 2007.

[b]

4.3.3

[a]

Saiga, A., S. Matsumoto, K. Uehira, K. Umakoshi, T. Matsushima, and H. Shimizu, Crustal Velocity Structure beneath Unzen volcano, Cities on Volcanoes 5, 11- P- 20, 19- 23 November, 2007, Shimabara, Japan.

Shimizu, H., T. Matsushima, Y. Kohno, S. Matsumoto, K. Uehira, A. Saiga, and A. Watanabe, Monitoring of Magma Re- accumulation Process After the 1990- 1995 Eruption of Unzen Volcano, Cities on Volcanoes 5, 12- P- 85, 19- 23 November, 2007, Shimabara, Japan.

[b]

Saiga, A., S. Matsumoto, K. Uehira, T. Murakoshi, H. Shimizu, Velocity structure in the crust and upper mantle under the north- western part of Kyushu area, 2007 , S152- 002.

3

2007 B22- 08

173

2007 5 14

2007 2 2007 5 107

2007 6 19

(2007 6

6 19 6 10) 107

2007 6 19

(2007

6 6 19 6 10) 107

2007 6 19

2007 9

108

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2007 6 2007 9 108

2007 10 16

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4.3.4

19 .

4.3.5

American Geophysical Union

4.3.6

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2 (2008 3 16)

4.3.7

4.3.8

5

2007 11 19 23 :

4.3.9

editor

4.3.1

1)

2)

4.3.2

[a]

Tahara, M., K. Uehira, H. Shimizu, M. Nakada, T. Yamada, K. Mochizuki, M. Shinohara, M. Nishino, R. Hino, H. Yakiwara, H. Miyamachi, K. Umakoshi, M. Goda, N. Matsuwo and T. Kanazawa, 2008, Seismic velocity structure around the Hyuganada region, Southwest Japan, derived from seismic tomography using land and OBS data and its implications for interplate coupling and vertical crustal uplift, *Physics of the Earth and Planetary Interiors*, 167, 19-33

Shinohara, M., T. Kanazawa, T. Yamada, K. Nakahigashi, S. Sakai, R. Hino, Y. Murai, A. Yamazaki, K. Obana, Y. Ito, K. Iwakiri, R. Miura, Y. Machida, K. Mochizuki, K. Uehira, M. Tahara, A. Kuwano, S. Amamiya, S. Kodaira, T. Takarani, Y. Kaneda, and T. Iwasaki 2008, Precise aftershock distribution of the 2007 Chuetsu-oki Earthquake obtained by using an ocean bottom seismometer network *Earth Planets Space* in press.

[b]

4.3.3

[a]

[b]

2007

P1-058

2007

4.3.4

RR2002

- 19 .

4.3.5 , American Geophysical Union

4.3.6 2 (2008 3 16)

4.3.7

4.3.8 5 2007 11 19 23

4.3.9 editor

4.3.1 1

2007 5 1990-1995

2007 11 5 43
1991 6 3 5

4.3.2 [a]

[b]

1990-1995
, 28pp, 2007.

Shimizu, H., T. Matsushima, S. Nakada, T. Fujii, H. Hoshizumi, S. Takarada, Y. Miyabuchi, T. Ui, Y. Miyake, T. Sugimoto, D. Nagai, K. Hata, S. Sugimoto, E. Matsushita, and D. Yoshida, Unzen Eruption- Disaster and Recovery- , Intra Meeting Excursion Guide Book of Citeis on Volcanoes 5 Conference, 28pp, 2007.

S. Takarada, H. Hoshizumi, S. Nakada, H. Shimizu, T. Matsushima, Y. Miyabuchi, M. Yoshimoto, Y. Goto, T. Sugimoto, and D. Nagai, Unzen Volcano and New Lava Dome Clinb, Cities on Volcanoes 5

Conference Field Trip Guidebook, C1:1- 32, 2007.

, 5

53, 51- 62, 2008

, 153pp, 2008.

4.3.3

[a]

Nagai, D., Characteristics of the June 3, 1991 Pyroclastic Surge at Unzen Volcano, Kyushu Island, Japan, and Implications for Disaster Mitigation, Cities on Volcanoes 5, 11- P- 19, 19- 23 November, 2007, Shimabara, Japan.

[b]

			2007	,	V156-P021.		
	2007	6	19		2007	2	2007 5 107
	2007	10	16		2007	6	2007 9 108
	2008	2	15		2007	10	2008 1 109

4.3.4

4.3.5

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4.3.6

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2 (2008 3 16):

4.3.7

4.3.8

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4.3.9

editor

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4.2.1

[a]

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[b]

Sahara
CK

L6 chondrite

(Rumina decollata)

[c]

(Chanidae)

4.2.2

4.2.3

a

T. Aoki, Y. Nakamuta, and S. Toh 2007. Dislocation densities of olivine crystals structurally strained in variable degrees from a shocked chondrite. The 31st symposium on Antarctic Meteorites, NIPR, Tokyo.

b

2007 Naryilco L/LL6

2007

2007 NWA2129 CK3/4

2007

4.2.4

Fund

4 3

4.3.1

-

Glycymerididae, Psammobiidae, Tellinidae, Chamidae

Mytilidae, Chamidae

4.3.2

[a]

Chloé MARTIN and Akihiko MATSUKUMA, Description of a new species of *Meretrix* from the Persian Gulf (Mollusca: Bivalvia: Veneridae), Venus (Japanese Journal of Malacology)

[b]

4.3.3

2007.4.21

2007.4.22

4.3.4

4.3.5

Western Society of Malacology

4.3.6

(1)

(2)

(3) Zoosystema (Museum National d'Histoire Naturelle, Paris)

4.3.7

2007.11.29-12.2

4.3.8

4.3.9

editor

- (1) *Zoosystema* (Museum National d'Histoire Naturelle, Paris)
- (2) The Bulletin of the Russian Far East Malacological Society
- (3) The Yuriyagai

4.3.1

30

X

4.3.2

[a]

[b]

4.3.3

a

Y. Nakamura, 2007. Carbon minerals in the highly shocked Goalpara ureilite. The 31st Symposium on Antarctic Meteorites, NIPR, Tokyo.

2007 Formation mechanism of diamonds in the Goalpara ureilite.

2007

4.3.4

4.3.5

436
2006-2009

437

438

439

editor

1992-2007

X

()

431

JCXA-733

432

[a] /

[b] /

433

[a]

Y. Morishita, N. Shimada, K. Shimada

Invisible Gold and Arsenic in Pyrite from the High-Grade Hishikari Gold Deposit, Japan

SIMS XVI in Kanazawa, Japan 2007

[b]

(2007)

117

P 169

434

435

436

437

438

439

editor