

POSTER SESSION – BALDESCHI PALACE

JULY, 5th

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JPS002 Abrupt Climate Change
Poster 5 July, 2007 from 06:00 PM to 08:00 PM - Baldeschi Palace Main Hall

- 1 **Detection of Climate Change using Extreme Climate Index Software(ECIS) in Iran**
Taghavi Farahnaz. *Speaker Taghavi Farahnaz*
- 2 **Archaeological and abrupt environmental**
Lewkovskaya Galina, Hoeffcker John, Housley Rupert, Anikovich Michail, Popov Viktor, Lisizin Sergei, Sinizin Sergei, Anisutkin Nikolai, Pospelova Genrietta. *Speaker Lewkovskaya Galina*
- 3 **The abrupt cold event and culture subrogation 4,400 AB.P. in Yuchisi site, Mengcheng, Anhui, China**
Wang Jianjun, Liguang Sun, Libin Xu. *Speaker Wang Jianjun*
- 4 **Simulation of the 8.2 kyr BP event with a coupled climate model: the impact of catastrophic meltwater drainage on the early Holocene climate**
Renssen Hans, A.P. Wiersma, H. Goosse, T. Fichefet. *Speaker Renssen Hans*
- 5 **Impact of Sea Level Rise on Hydrodynamics of Estuarine Systems: Case Study of Mtwapa Creek, Kenya**
Magori Charles. *Speaker Magori Charles*

PS002 Variability of the Antarctic Circulation and Water Masses and Their Sensitivity to Climate Change
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- 6 **ENSO and the west Antarctic Peninsula**
Wallace Margaret, Mark Brandon, Mike Meredith, Andrew Clarke. *Speaker Wallace Margaret*
- 7 **Ten years of currentmeters measurements in Terra Nova Bay (Ross SEA, Antarctica): data set presentation**
Picco Paola, Andrea Cappelletti, Paola Esposito, Daniela Martucci, Giannetta Fusco, Roberto Meloni. *Speaker Andrea Cappelletti*
- 8 **SOPHOCLES -Southern ocean physical oceanography and cryospheric linkages.**
Ofarrell Siobhan, Dr Victoria Lytle, Dr Anthony Worby, Dr Todd Arbetter. *Speaker Ofarrell Siobhan*
- 9 **The chemical signature of water masses mixing off Victoria Land, Ross Sea, Antarctica.**
Rivaro Paola, Serena Massolo, Maria Luisa Abelloschi, Andrea Bergamasco, Giorgio Budillon. *Speaker Rivaro Paola*
- 10 **Sulphur oxidised compounds stratigraphies from Talos Dome, D66, Law Dome Ice Core as proxy of climatic variability in the Southern Ocean**
Becagli Silvia, Emiliano Castellano, Andrea Morganti, Mirko Severi, Rita Traversi, Marco Proposito, Massimo Frezzotti, Mark Curran, Roberto Udisti. *Speaker Becagli Silvia*
- 11 **Spatial and temporal variability of the Southern Boundary of the Antarctic Circumpolar Current based on hydrographic data and satellite altimetry**
Yabuki Takashi, Toshio Suga, Kimio Hanawa, Koji Matsuoka, Hiroshi Kiwada, Tomowo Watanabe. *Speaker Yabuki Takashi*
- 12 **Improvement on dense water transport out of the Antarctic continental shelf in a coarse-resolution OGCM: impact on the deep water formation process**
Komuro Yoshiki, Hiroyasu Hasumi. *Speaker Komuro Yoshiki*
- 13 **Antarctic Sea Ice, Large Scale Wind Patterns, and Climate Change**
Marsland Simon, P.A. Reid. *Speaker Marsland Simon*
- 14 **Decadal Temperature Changes Across the ACC**
Dispert Astrid, Claus W. Bning, Steve Rintoul, Martin Visbeck. *Speaker Dispert Astrid*
- 15 **Southern Ocean water mass formation in a finite-element coupled sea ice-ocean model**
Timmermann Ralph, Carmen Bning, Qiang Wang, Jens Schrtter, Sergey Danilov. *Speaker Timmermann Ralph*
- 16 **A comparison of the Mar Madel at 10-Km and 2-Km horizontal resolution**
Clai Giulia, Pellegrini Andrea. *Speaker Clai Giulia*

PS005 Flows and Waves in Straits
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- 17 **Long-term variation of the Volume Transports through the Korea Strait and the Tsugaru Strait**
Na Hanna, Kuh Kim. *Speaker Na Hanna*
- 18 **Some Estimates of the Baltic Deep-Water Transport through the Stolpe Trench**
Borens Karin, R. Hietala, J. Laanearu, P. Lundberg. *Speaker Borens Karin*
- 19 **Direct measurement of Tsugaru Through Flow**
Park Jongjin, Joon-Yong Yang, Kuh Kim. *Speaker Park Jongjin*
- 20 **Diagnosis of inertia-gravity waves in an oceanic general circulation model : an intercomparison between numerical simulations and in situ-measurements from the Cirne experiment**
Le Vaillant Xavier, Pascale Bouruet-Aubertot, Sbastien Masson, Gurvan Madec, Keiko Takahashi. *Speaker Le Vaillant Xavier*
- 22 **A study of internal wave cinematic in the strait of Gibraltar analyzing in situ data**
Snchez Garrido Jose Carlos. *Speaker Snchez Garrido Jose Carlos*
- 23 **Short-scale circulation patterns in the coastal margins of the Strait of Gibraltar**
Mejias Miguel, Jamal Chioua, Jeanette Romero Czar, Alfredo Izquierdo Gonzalez, Julio Prez Reyes, Agueda Vzquez Lpez-Escobar, Rafael Maanes Salinas. *Speaker Mejias Miguel*

JSS007 Progress in electromagnetic studies on earthquakes and volcanoes - Volcanic structure and activities (same as JVS002)
Conveners: Spichak Viacheslav, Sasai Yoichi, Jacques Zlotnicki, Del Negro Ciro, Patella Domenico
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- 24 **Inspection of the dike position by total intensity data in the 2000 eruption of Miyake-jima volcano**
Sasai Yoichi, Mitsuru Utsugi, Eisuke Fujita, Makoto Uyeshima, Jacques Zlotnicki. *Speaker Sasai Yoichi*
- 25 **Magnetic and electric field variations associated with the tilt-step event during the caldera formation of Miyake-jima volcano in 2000.**
Sasai Yoichi, Makoto Uyeshima, Motoo Ukawa, Jacques Zlotnicki, Eisuke Fujita, Hideki Ueda. *Speaker Sasai Yoichi*
- 26 **A dense aeromagnetic survey on Kuju volcano, central Kyushu Japan**
Utsugi Mitsuru, Yoshikazu Tanaka. *Speaker Utsugi Mitsuru*
- 27 **Piezomagnetic modeling associated with hydrothermal pressurization.**
Okubo Ayako, Wataru Kanda. *Speaker Okubo Ayako*
- 28 **Shallow Resistivity Structure of Asama Volcano and Its Implication for Magma Ascent Process of 2004 Eruptions**
Aizawa Koki, Yasuo Ogawa, Takeshi Hashimoto, Takao Koyama, Wataru Kanda, Electromagnetic Research Group For Asama Volcano. *Speaker Aizawa Koki*
- 29 **Magnetic imaging of the feeding system of oceanic volcanic islands: El Hierro (Canary Islands)**
Blanco-Montenegro Isabel, Iacopo Nicolosi, Alessandro Pignatelli, Massimo Chiappini. *Speaker Blanco-Montenegro Isabel*
- 30 **Looking at Tenerife (Canary Islands) from a magnetic perspective**
Garcia Alicia, Nieves Snchez, Massimo Chiappini, Roberto Carluccio, Riccardo De Ritis, Iacopo Nicolosi, Alessandro Pignatelli, Isabel Blanco-Montenegro. *Speaker Garcia Alicia*
- 31 **Lightning and electrical activity during the 2006 eruption of Mt. Augustine**
Thomas Ronald, S.R. Mcnutt, G. Tytgat, P.R. Krehbiel, W. Rison, H. Edens. *Speaker S.R. Mcnutt*
- 32 **A magnetotelluric study along Satluj valley thermal springs in NW Himalaya**
K. K. Abdul Azeez, K. Ravi Shankar, Dhanunjaya Naidu, Sharana Basava. *Speaker K. K. Abdul Azeez*
- 33 **A shallow resistivity structure of Kuju Volcano, Central Kyushu, Japan**
Kanda Wataru, Yoshikazu Tanaka, Mitsuru Utsugi, Yasuaki Okada, Hiroyuki Inoue. *Speaker Kanda Wataru*
- 34 **Multi-electrode resistivity surveys around a cyclic hydrothermal system: the hot lakes of the Waimangu geothermal area, New Zealand**
Legaz Aurlie, Andre Revil, Jean Vandemeulebrouck, Tony Hurst. *Speaker Legaz Aurlie*
- 35 **Temporal changes of resistivity and self potential at the Onikobe geyser, NE Japan**
Ogawa Yasuo, Seiji Mishima, Keisuke Saho. *Speaker Ogawa Yasuo*
- 36 **Self-potential anomalies around Ontake volcano, Central Japan - the earthquake swarm and summit areas -**
Yoshimura Ryokei, Ken'Ichi Yamazaki, Yasuaki Okada, Naoto Oshiman, Makoto Uyeshima. *Speaker Yoshimura Ryokei*

JSS008 Progress in electromagnetic studies on earthquakes and volcanoes - Electromagnetic fields associated with earthquakes and active faulting
Conveners: Johnston Malcolm
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- 37 **A review of selected problems in seismoelectrodynamics**
Guglielmi Anatol, Tsegmed Battulai, Dovbnya Boris, Zotov Oleg. *Speaker Guglielmi Anatol*
- 38 **The relationship between seimo-electric/magnetic field and earthauake magnitude**
Fan Xiaoping, Li Qinghe, Yang Congjie. *Speaker Fan Xiaoping*
- 39 **The micro-satellite Compass-2 for investigation of the ionosphere disturbances related to seismic, meteo and human activity.**
Ruzhin Yuri, Kuznetsov V.D., Danilkin V.A., Dokukin V.S.. *Speaker Ruzhin Yuri*
- 40 **The Magnetic Storm influence on the Pre-seismic Ionosphere Anomaly (a case study)**
Shpakovski Vitali, I. E. Zakharenkova, Yu.Ya. Ruzhin, I.I.Shagimuratov, N.Yu. Teperitsina. *Speaker Shpakovski Vitali*
- 41 **Analytical study on piezomagnetic effect due to 3-D magnetic structure and it's applications to the earthquakes in Japan**
Nishida Yasunori, Mitsuru Utsugi, Toru Mogi. *Speaker Nishida Yasunori*
- 42 **Possible association between some geomagnetic anomalies and Vrancea (Romania) significant earthquakes occurred in the years 2004-2007**
Iren-Adelina Moldovan, Dumitru Enescu, Adrian-Septimiu Moldovan. *Speaker Iren-Adelina Moldovan*
- 43 **MEMFIS - Multiple Electromagnetic Field and Infrasonic Monitoring Array at Plostina - Vrancea. An attempt to guess what's cooking.**
Moldovan Adrian-Septimiu, Iren-Adelina Moldovan, Constantin Ionescu, Simion Ersen, Aurelia Ersen. *Speaker Moldovan Adrian-Septimiu*
- 44 **HRT wave precursor to the Sumatra earthquake**
Qian Wei. *Speaker Qian Wei*
- 45 **Effects of water content on the converse piezoelectric effect in granite with an Atomic Force Microscope**
Esaki Yuko. *Speaker Esaki Yuko*
- 46 **1-D AND 2-D interpretation of bam fault CSTMT data**
Moghadas Davood, Saeid Hashemi Tabatabaei. *Speaker Moghadas Davood*
- 47 **The piezomagnetic field in association with a subduction and a slow slip on a plate boundary**
Yamazaki Ken'Ichi, Makoto Uyeshima, Tsutomu Ogawa, Shigeru Koyama. *Speaker Yamazaki Ken'Ichi*
- 48 **A magnetotelluric study to recognize a fault zone in Markazi province,Iran**
Ansari Masoud, Behrooz Oskooi. *Speaker Ansari Masoud*

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- 50 **The INGV tectonomagnetic network: future developments in the MEM Project**
Masci Fabrizio, Paolo Palangio, Cinzia Di Lorenzo, Manuele Di Persio, Antonio Meloni. *Speaker Masci Fabrizio*
- 51 **Network-MT surveys in Central Japan**
Uyeshima Makoto, Tsutomu Ogawa, Satoru Yamaguchi, Hiroaki Toh, Hideki Murakami, Ryohei Yoshimura, Naoto Oshiman, Shigeru Koyama, Toshiya Tanbo, Weerachai Siripunvaraporn. *Speaker Uyeshima Makoto*
- 52 **Electric and magnetic field variations due to the seismic dynamo effect associated with blasting**
Honkura Yoshimori, Shintaro Nagaoka, Yasuo Ogawa. *Speaker Honkura Yoshimori*
- 53 **Numerical modeling of self-potential variation associated with very long-period seismic pulse observed in the 2000 Miyake-jima volcanic activity**
Kuвано Osamu, Shingo Yoshida, Masao Nakatani, Makoto Uyeshima. *Speaker Kuвано Osamu*
- 54 **Resistivity structure at damage area of the 2006 Mid Java earthquake**
Mogi Toru, Yasuo Ogawa, Nurhasan, Djedi S. Widarto. *Speaker Mogi Toru*
- 55 **Electrical resistivity structure around the hypocentral region of DLF events in the Kii peninsula, southwest Japan**
Oshiman Naoto, Tkehiro Nagano, Rokei Yoshimura, Satoru Yamaguchi, Makoto Uyeshima. *Speaker Oshiman Naoto*
- 56 **Crustal heterogeneity on electrical resistivity around the Niigata-Kobe Tectonic Zone, Chubu Region, Japan**
Yoshimura Ryohei, Hiroaki Toh, Makoto Uyeshima, Naoto Oshiman, Research Group For Crustal Resistivity Structure. *Speaker Yoshimura Ryohei*
- 57 **Deep electrical imaging of Parbati Beas Valley geothermal region of NW Himalayan region**
Koppireddi Veeraswamy, K.Ravi Shyankar, G.Dhanunjaya Naidu, Sarana Basava, K.K.Abdul Azeez. *Speaker Koppireddi Veeraswamy*
- 58 **Seismomagnetic studies in central Italy: 16 years of monitoring by the INGV network**
Di Mauro Domenico, Manuele Di Persio, Stefania Lepidi, Fabrizio Masci, Giuliana Mele, Antonio Meloni, Paolo Palangio. *Speaker Di Mauro Domenico*

JSS009 Progress in electromagnetic studies on earthquakes and volcanoes - Crustal instabilities and earthquake precursors
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Chairpersons: Y.Liu, P. F. Biagi and T. Nagao

- 59 **GROUNDWATER GEOCHEMICAL DISTURBANCES RELATED TO SEISMICITY REVEALED IN KAMCHATKA (RUSSIA) DURING THE LAST 30 YEARS: FURTHER RESULTS**
(P.F. Biagi)
- 60 **STUDY OF GROUND DATA VLF RADIO ANOMALY RELATED TO SEISMICITY REVEALED BY DEMETER SATELLITE ON 2004: PHASE ANALYSIS**
(T. Maggipinto)
- 61 **DETECTION OF TIME AND DIRECTION OF EARTHQUAKES WITH THE PARAMETERS OF NATURAL ULF/ELF MAGNETIC FIELD**
(A. Schekotov)
- 62 **MAGNETOTELLURIC STUDY OF MOUNT ST. HELENS WASHINGTON, USA: PHASE TENSOR ANALYSIS PRELIMINARY RESULTS**
(R. Cas)
- 63 **ASSOCIATION OF THE NEGATIVE ANOMALIES OF THE QUASISTATIC ELECTRIC FIELD IN ATMOSPHERE WITH KAMCHATKA SEISMICITY**
(S. Smirnov)
- 64 **ELECTROMAGNETIC MONITORING OF REGIONAL GEODYNAMICAL PROCESSES IN THE FRAME OF MEM PROJECT**
(P. Palangio)
- 65 **NEW ASPECTS ON THE STATISTICAL PROPERTIES OF SEISMICITY**
(P. Varotsos)
- 66 **IONOSPHERIC ANOMALOUS CHANGES OBSERVED BY GPS-TEC AND NMF2 POSSIBLY ASSOCIATED WITH LARGE EARTHQUAKES**
(M. Nishihashi)
- 67 **MODIFICATION OF THE SIGNALS FROM VLF TRANSMITTERS IN SEISMIC REGIONS-STUDIES OF THE DEMETER MEASUREMENTS**
(J. Blecki)
- 68 **ELECTRIC CURRENT EMISSIONS FROM BRITTLE MATERIALS SUFFERING NEAR FRACTURE MECHANICAL STRESS**
(I. Stavrakas)
- 69 **MULTISCALE ENTROPY ANALYSIS OF SELF-POTENTIAL TIME SERIES ASSOCIATED TO THE MW=7.4 EARTHQUAKE OF 14 SEPTEMBER 1995 IN MÉXICO**
(Cervantes De la Torre)
- 70 **A MULTIFRACTAL STUDY OF SELF-POTENTIAL TIME SERIES**
(Cervantes De la Torre)
- 71 **EFFECT OF NOISE FROM DC-DRIVEN TRAINS TO GEOELECTRICAL POTENTIAL DIFFERENCE AND ITS REDUCTION AT HAKUBA AREA, JAPAN**
(K. Hattori)
- 72 **SINGULAR SPECTRAL ANALYSIS AND PRINCIPAL COMPONENT ANALYSIS FOR SIGNAL DISCRIMINATION OF ULF GEOMAGNETIC DATA ASSOCIATED WITH 2000 IZU ISLAND EARTHQUAKE SWARM**
(K. Hattori)
- 73 **SOME CHARACTERISTICS OF PRE-SEISMIC VHF WAVE SCATTERING**
(T.Mogi)
- 74 **HYDROSTRUCTURAL AND HYDROTHERMAL MODELS FOR THE STUDIES OF THE HYDROGEOCHEMICAL PRECURSORS OF THE SEISMIC ACTIVITY: EXAMPLES FROM "SERCHIO AND MAGRA GRABENS" (NORTHERN APENNINES, ITALY)**
(F. Baldacci)
- 75 **WAVELETS IN THE ANALYSIS OF SEISMOELECTROMAGNETIC SIGNALS**
(G. Hloupis)
- 76 **THERMAL NEUTRONS' RESPONSE TO THE EARTHQUAKES DEPENDING ON THE DIRECTION OF THEIR EPICENTER (BASED ON KAMCHATKA OBSERVATIONS)**
(E. Sigaeva)
- 77 **ABOUT CORRELATION OF SOCIAL TENSION AND DAMAGING EARTHQUAKES**
(O. Molchanov)
- 78 **MECHANISMS OF SEISMIC EFFECTS IN THE ATMOSPHERE FROM SOUNDING BY VLF, LF AND HF RADIO SIGNALS**
(O. Molchanov)

JSS014 Crustal structure and Tectonophysics - Crustal and lithospheric structure in active continental blocks and their boundaries
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- 80 **Seismotectonic models of the three recent devastating SCR earthquakes in India**
Kayal Jnana. *Speaker Kayal Jnana*
- 81 **Technology of the prediction of the tectonic and geomechanic processes at a selected areas for dispose radioactive waste**
Victor Tatarinov, Morozov Vladislav, Belov Sergey, Kolesnikov Iliia. *Speaker Victor Tatarinov*
- 82 **Fine crustal structure in active tectonic area at Northwestern Edge of Tarism Basin Block**
Xu Zhaofan. *Speaker Xu Zhaofan*
- 83 **Three-Dimensional velocity structure of the South Fossa Magna, Central Japan**
Nakamichi Haruhisa, Hidefumi Watanabe, Takao Ohminato. *Speaker Nakamichi Haruhisa*
- 84 **Is there the Amurian plate in northeast Asia?**
Jin Shuanggen, Pil-Ho Park. *Speaker Jin Shuanggen*
- 85 **Crust and upper mantle structure in continental China and its adjacent area from surface wave two-station analysis**
Yi Guixi, Yao Huajian, Zhu Jie-Shou, Robert D, van der Hilst. *Speaker Yi Guixi*
- 86 **Structure of earths crust and upper mantle, inland subduction and its coupling effects on the Dabie orogenic belt and the Tancheng-lujiang fault zone**
Teng Jiwen, Yan Yafen, Wang Guangjie, Xiong Xiong. *Speaker Teng Jiwen*
- 87 **Antarctic plate boundary with the gravimetric tomography data**
Greku Rudolf. *Speaker Greku Rudolf*
- 88 **Crustal configuration of NW Himalaya based on modeling of gravity data**
Chamoli Ashutosh, A.K.Pandey, V.P. Dimri, P. Banerjee. *Speaker Chamoli Ashutosh*
- 89 **Can Amurian plate be discriminated from Eurasia: results from significance tests**
Guo Dongmei. *Speaker Guo Dongmei*
- 90 **High resolution refraction tomography - resolving the vertical displacement of Tepla-Barrandien unit of Bohemian Massif in the P-velocity sections on CEL9 LINE.**
Novotny Miroslav. *Speaker Novotny Miroslav*
- 91 **Seismic hazard assessment for east of Iran**
Boustan Elham, Dr. Noorbakhsh Mirzaei. *Speaker Boustan Elham*
- 92 **Investigation of focal mechanism solutions of earthquakes in Iran**
Tahernai Nadia, Dr. Mohammad Reza Gheitanchi. *Speaker Tahernai Nadia*
- 93 **Distribution of Seismic Energy Released in Iran**
Tahernai Nadia, Dr. Mohammad Reza Gheitanchi. *Speaker Tahernai Nadia*
- 94 **A new sophisticated and integrated analysis for the crustal structure analysis using OBS and control sources**
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- 95 **Feasibility study for the continuous active monitoring of the temporal change and spatial movement of a magma reservoir beneath a volcano**
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- 96 **Evaluation of the effects by heterogeneously inserted Thin/Thick High/Low velocity layers in the part of crust**
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- 97 **A Interactive and integrated modeling tool for the crustal analysis using OBS-control sources**
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- 98 **Evaluation of efficiencies of P-S conversion in oceanic crust and Vp/Vs estimation**
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- 99 **Crustal structure and Moho depth profile crossing the central Apennines (Italy) along the N42 parallel.**
Lucente Francesco Pio, Massimo Di Bona, Nicola Piana Agostinetti. *Speaker Lucente Francesco Pio*
- 100 **Large scale features of the south-easternmost TTT as inferred from geophysical data**
Besutiu Lucian. *Speaker Besutiu Lucian*
- 101 **Electrical resistivity imaging of seismically active frontal Himalaya**
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- 102 **Seismotectonic model for Kangra-Chamba Region of NW Himalaya**
Kumar Naresh, Jyoti Sharma, S.Mukhopadhyaya. *Speaker Kumar Naresh*
- 103 **Crustal velocity structure of Northeast of Iran**
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- 105 **Velocity structure in Naeen Region, Central Iran**
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- 106 **Crustal structure in South of Zagros, from the 2005 Qeshm Island earthquake in Iran**
Riazi Zohreh. *Speaker Riazi Zohreh*
- 107 **Seismic traveltime curves of the local earthquake in East- SouthEast of Iran**
Riazi Zohreh. *Speaker Riazi Zohreh*
- 108 **Three-dimensional velocity structure of the convergent plate boundary in Eastern Taiwan from seismic and gravity data**
Cheng Win-Bin. *Speaker Cheng Win-Bin*
- 109 **Seismotectonics of Makran subduction zone**
Srivastava Kirti, V P Dimri. *Speaker Srivastava Kirti*
- 110 **Analysis and modelling the recent vertical crustal movements and their relations with basement depth gravity anomaly and terrestrial heat flow**
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- 111 **Active deformation in the Zanjan region, northwest Iran**
Sobouti Farhad, Khaled Hesami, Reza Ghods. *Speaker Sobouti Farhad*
- 112 **Short term (geodetic) and long term (geological) deformation patterns in the Northern Apennines**
Cenni Nicola, Paolo Baldi, Enzo Mantovani, Maurizio Ferrini, Marcello Viti, Vittorio D'Intinosante, Daniele Babbuci, Dario Albarello. *Speaker Cenni Nicola*
- 113 **Structure of the crust and upper mantle in the Qinghai-Tibet Plateau and its adjacent areas**
Zhang Xuemei, Teng Jiwen. *Speaker Zhang Xuemei*
- 114 **Preliminary Results of a Seismological Experiment on Mantle Dynamics and Crustal Structure beneath Isparta Angle**
Teoman Ugur Mustafa, Eric Sandvol, Niyazi Turkelli, Dogan Aksari, Amanda Lough, Cem Destici, Sakir Sahin, Alev Berberoglu, Dogan Kalafat. *Speaker Teoman Ugur Mustafa*
- 115 **Gravity anomalies and lithospheric structure across the co-seismic rupture of great Sumatra-Andaman earthquake**
Tiwari Virendra Mani, V. M. Tiwari, K. Arora, B. Singh. *Speaker Tiwari Virendra Mani*
- 116 **Paleostresses and recent tectonic activity of the Palomares-Carboneras strike-slip faults (Eastern Betic Cordilleras, SE Spain)**
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- 117 **Tectonophysical model of Tersko-Sunja segment of East Ciscaucasia based on seismotomography and lineament analysis.**
Ivanchenko Galina. *Speaker Ivanchenko Galina*
- 118 **Spatial variation of the crustal stress field in Taiwan Region**
Wu Wen-Nan. *Speaker Wu Wen-Nan*
- 119 **Plate convergence at the Westernmost Philippine Sea plate**
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- 120 **Temporal variation of the compressive direction in the hypocentral region after the 1999 Chi-Chi earthquake, Taiwan**
Wu Wen-Nan. *Speaker Wu Wen-Nan*
- 121 **Numerical simulation of the transition from subduction to arc-continent collision in offshore southeastern Taiwan**
Wang Wei-Hau, Hwong-Yi Wu. *Speaker Wang Wei-Hau*
- 122 **An extension of lower crust in central Kyushu, Japan, inferred from GPS derived velocity field- An Implication of Beppu-Shimabara graben structure**
Hosseini Keivan, Shoichi Yoshioka, Takeshi Matsushima, Sadaomi Suzuki. *Speaker Hosseini Keivan*
- 123 **The mechanical role of the Philippine Sea Plate in Taiwan orogeny**
Lin Yu-Yeh, Wei-Hau Wang. *Speaker Lin Yu-Yeh*
- 124 **Shallow crustal geological signatures in electrical**
Roy Kalyan Kumar, N, Sri Rama Murthy, Lakshi Kanta Das, Kajal Kumar Mukherjee. *Speaker Roy Kalyan Kumar*
- 125 **P-Wave velocity perturbations of the crust beneath Georgia**
Mumladze Tea. *Speaker Mumladze Tea*
- 126 **Origin of tectonic stresses in the chinese continent and adjacent areas**
Zhu Shoubiao, Yaolin Shi. *Speaker Zhu Shoubiao*
- 127 **Simulation of earthquake processes by finite element method: the case of megathrust earthquakes on the Sumatra subduction zone**
Zhu Shoubiao, Huilin Xing, Furen Xie, Yaolin Shi. *Speaker Zhu Shoubiao*
- 128 **Folding of MOHO beneath Tibet and South Korea**
Shin Young Hong, Houze Xu, Pil Ho Park, Jong Uk Park, Jeong Ho Baek. *Speaker Shin Young Hong*
- 129 **Lithosphere-asthenosphere system beneath The Carpathian Bending Zone by seismic attenuation and satellite geodesy**
Mocanu Victor, Ray Russo, Boudewijn Ambrosius. *Speaker Mocanu Victor*
- 130 **Crustal structure of the Abruzzo Apennines (Central Italy) through the analysis of seismic data registered by a local network**
Bagh Samer, Claudio Chiarabba, Pasquale De Gori, Nicola Piana Agostinetti. *Speaker Bagh Samer*
- 131 **Modeling formation and development of a pull-apart basin effect of crustal rheology**
Petrunin Alexey, Stephan V. Sobolev. *Speaker Petrunin Alexey*
- 132 **Imaging the structure-sensitive bodies in seismogenic zone by across**
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- 133 **Karst Drainage and Erosion Patterns: Implications for Erosional and Depositional Flux in an Accretionary Wedge**
Gendaszek Andrew, Gabe Casale. *Speaker Gendaszek Andrew*
- 134 **To the global factors, stimulating tectonic movements**
Karimov Farshed, Zafar Usmanov. *Speaker Karimov Farshed*
- 135 **Spatial pattern similarities between small magnitude seismicity in the argentinian backarc continental crust ($m < 3.5$) and in the Nazca Plate ($M < 4.5$) at its transition from flat to normal subduction**
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JSS016 Underwater observatories
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Kontar Evgeny, Yuriy Ozorovich. *Speaker Kontar Evgeny*
- 137 **Seafloor borehole seismic observatories in the western Pacific and upper mantle and crustal structure beneath the northwestern Pacific basin**
Shinohara Masanao, Tetsuo Fukano, Toshihiko Kanazawa, Eiichiro Araki, Kiyoshi Suyehiro, Masashi Mochizuki, Kazuo Nakahigashi, Yuka Kaiho, Tomoaki Yamada. *Speaker Shinohara Masanao*
- 138 **Underwater observation with new tool makes it different: Concept is not new, but the result is worth nugget**
Kisimoto Kiyoyuki, Masato Joshima, Kiyokazu Nishimura. *Speaker Kisimoto Kiyoyuki*
- 139 **Effects of bias of reference GPS position on observation for ocean bottom crustal deformation**
Watanabe Tsuyoshi, Keiichi Tadokoro, Takashi Okuda, Yoshitaka Aizawa, Shingo Sugimoto, Jin Yasuda, Daisuke Muto, Masataka Ando. *Speaker Watanabe Tsuyoshi*
- 140 **Gas-hydrates: a future potential source of energy in India**
Sain Kalachand. *Speaker Sain Kalachand*
- 141 **Repeated Observation of Seafloor Crustal Deformation Using a GPS/Acoustic System**
Tadokoro Keiichi, Masataka Ando, Shingo Sugimoto, Takashi Okuda, Ryoya Ikuta, Tsuyoshi Watanabe, Keizo Sayanagi, Masahiro Kuno, Jin Yasuda, Daisuke Muto. *Speaker Tadokoro Keiichi*
- 142 **Evaluation of analysis method for GPS/Acoustic seafloor geodetic observation**
Sugimoto Shingo, Keiichi Tadokoro, Ryoya Ikuta, Takashi Okuda, Yoshitaka Aizawa, Tsuyoshi Watanabe, Jin Yasuda, Daisuke Muto, Keizo Sayanagi, Toshiyasu Nagao, Masataka Ando. *Speaker Sugimoto Shingo*
- 143 **ESONET: a network to integrate European research on sea observatories**
Favali Paolo, R. Person, C. Berndt, J.J. Danobeitia, M. Gillooly, J. Mienert, J.M. Miranda, A. Tselepidis, T. Van Weering, C. Waldmann. *Speaker Favali Paolo*

JSS017 Lithosphere thermal state and geodynamic processes: from measurements to models
Conveners: Chapman David
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- 144 **The evaluation of the heat flow in the area of the Uralian Superdeep well CF-4**
Lipaev Aleksander, Sergey Lipaev. *Speaker Lipaev Aleksander*
- 145 **Temperature-time series, thermal regime and the instability of the fluid column in a borehole**
Cermak Vladimir. *Speaker Cermak Vladimir*
- 146 **Resolving terrain effects in borehole temperature profiles**
Heinle Shannon, William Gosnold. *Speaker Heinle Shannon*
- 147 **Hydro-geothermal characters of the Moroccan Atlas**
Verdoya Massimo, Yassine Zarhloule, Abdenbi El Mandour, Paolo Chiozzi, Mimoun Boughriba, Abderrahim Lahrach. *Speaker Verdoya Massimo*
- 148 **Time-dependent lithosphere thermal state in the Carpatho-Pannonian Area. a review based on heat flow data and modeling**
Demetrescu Crisan, Maria Tumanian. *Speaker Demetrescu Crisan*
- 149 **Heat and groundwater flow modeling in the lithosphere of the Eastern Carpathians Bend**
Dobrica Venera, Helmut Wilhelm. *Speaker Dobrica Venera*
- 150 **Hydrothermal circulation within subducting crust: Implications for subduction zone temperature**
Kummer Troy, Glenn Spinelli. *Speaker Kummer Troy*
- 151 **Crustal rheology along the Neapolitan Volcanic Zone-Apennine-Apulia foreland transect, (Southern Italy)**
Solaro Giuseppe. *Speaker Solaro Giuseppe*
- 152 **Studying thermal properties of sedimentary and crystalline rocks at elevated temperature and pressures: equipment, methodology and results**
Miklashevskiy Dmitriy, Yuri Popov, Vladimir Tertychnyi, Irina Bayuk, Raisa Romushkevich, Christof Clauser, Renate Pechinig. *Speaker Miklashevskiy Dmitriy*
- 153 **Temperature dependence of the relationship of thermal diffusivity versus thermal conductivity for crystalline rocks**
Clauser Christoph, Darius Mottaghy, Hans-Dieter Vosteen, Rdiger Schellschmidt. *Speaker Clauser Christoph*
- 154 **Estimation of formation temperature from measurements in near bottom zone**
Semenova Anna, Yury Popov, Vyacheslav Pimenov. *Speaker Semenova Anna*

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Carlson Daniel, Allan J. Clarke. *Speaker Carlson Daniel*
- 2 **Phytoplankton feedbacks in a water column (Guinea dome)**
Duteil Olaf, Yves Dandonneau, Alban Lazar, Ilana Wainer. *Speaker Duteil Olaf*
- 3 **Ecosystem model optimization**
Losa Svetlana, Jens Schirter, Yann Ourmires, Pierre Brasseur, Iris Kriest, Andreas Oschlies. *Speaker Losa Svetlana*
- 4 **Interannual Variability in the Gulf of Alaska: A perspective based on a coupled bio-physical model**
Cheng Wei, Albert Hermann, Sarah Hinckley, Ken Coyle, Phyllis Staben. *Speaker Cheng Wei*

JSS001 Physics and Chemistry of Earth Materials
Conveners: Jackson Ian
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- 5 **Feature of the analyses of heterogeneous ores**
Tamrazyan Artush. *Speaker Tamrazyan Artush*
- 6 **Natural magnetite nanoparticles from an iron-ore deposit: grain size effects in magnetic properties**
Alva-Valdivia Luis M.. *Speaker Alva-Valdivia Luis M.*
- 7 **Halite fluid inclusion geochemistry of evaporite deposits in central Iran**
Shariatinia Zeinab, Cendon Dion I, Pueyo Juan Jose, Rahimpour- Bonab Hussain, Hezarhane Ardesheir. *Speaker Shariatinia Zeinab*
- 8 **Effect of mineral content of granitoids of the ukrainian shield on the change of their elastic parameters in different thermobaric conditions of the lithosphere (by experimental data)**
Karnaukhova Elena, Korchin Valery. *Speaker Karnaukhova Elena*
- 9 **Reconstruction of the complicated stress state of a massif using data of elastic anisotropy as well as structural and textural measures of rocks**
Korchin Valery, Burtyn Peter, Karnaukhova Elena. *Speaker Korchin Valery*
- 10 **Analysis of P-V-T relationship and melting of the pyrope mineral**
Singh Kripa Shanker. *Speaker Singh Kripa Shanker*
- 11 **Comparison between different microscopic properties of a 2D lattice on its macroscopic behaviours**
Mehrabian Shayesteh, Ahmad Amini. *Speaker Mehrabian Shayesteh*

JSS010 Progress in electromagnetic studies on earthquakes and volcanoes - Seismo-electromagnetic studies using space technology
Conveners: Ouzounov Dimitar, Tramutoli Valerio, Parrot Michel, Singh Ramesh
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- 12 **TEC variations over the Mediterranean during the seismic activity period of Kythera earthquake of 12th January, 2006**
Condadakis Michael, D. N. Arabelos, G. Asteriadis, S.D. Spatalas, Ch. Pikridas. *Speaker Condadakis Michael*
- 13 **Comparison of foF2 variations observed prior to two major earthquakes in Italy and during a magnetic storm**
Khegai Valeri, Legenka Anna Dmitrievna, Kim Vitaly Pavlovich. *Speaker Khegai Valeri*
- 14 **Earthquake Clouds**
Kaynak Ugur, Roland Karel. *Speaker Ronald Karel*
- 15 **Simultaneous disturbances of high-frequency geoaoustic emission and of electric field in the near-ground air**
Marapulets Yury, Oleg Rulenko, Mihail Mischenko, Albert Scherbina. *Speaker Marapulets Yury*
- 16 **Occurrence of precursory effects of Kythira 2006 earthquake in GPS TEC variations**
Zakharenkova Irina, Irk Shagimuratov, Andrzej Krankowski, Galina Yakimova. *Speaker Zakharenkova Irina*
- 17 **Modification of the ionosphere before strong earthquakes of Japan region on the base of GPS measurements**
Zakharenkova Irina, Irk Shagimuratov, Yuriy Ruzhin, Nadezhda Tepenitsina. *Speaker Zakharenkova Irina*
- 18 **Spatial distribution of ionospheric GPS-TEC and NmF2 disturbances prior to the 1999 Chi-Chi and Chia-Yi Earthquakes**
Nishihasi Masahide, Hau-Kun Jhuang, Katsumi Hattori, Jann-Yenq Liu. *Speaker Nishihasi Masahide*
- 19 **Joint Satellite and Ground Based EM observation and Search for Earthquake Precursors**
Ouzounov Dimitar, Katsumi Hattori, Sergey Pulnits, Masashi Kamogawa, Masahide Nishihasi, Michel Parrot, J.Y. Liu. *Speaker Ouzounov Dimitar*
- 20 **On the physical causes of enhanced infrared emission known as Thermal Anomalies**
Freund Friedemann, Akihiro Takeuchi, Bobby W.S. Lau, Nevin A. Bryant. *Speaker Freund Friedemann*
- 21 **Analysis of thermal neutron ground observations in accordance with space observations of seismo-electromagnetic phenomena**
Sigaeva Ekaterina, Irina Myagkova, Ekaterina Muravieva, Yuri Kuzmin. *Speaker Sigaeva Ekaterina*
- 22 **Analysis of ionospheric electrostatic turbulence over seismic regions using DEMETER plasma and wave measurements**
Onishi Tatsuo, Jean-Jacques Berthelier. *Speaker Onishi Tatsuo*
- 23 **Statistical study of anomalous fluctuations of whistler data recorded by DEMETER**
Buzzi Aurora, Livio Conti, Michel Parrot, Jean-Louis Pincon, Vittorio Sgrigna, David Zilpimiani. *Speaker Buzzi Aurora*
- 24 **Possible physical mechanisms of the TEC enhancements observed before earthquakes**
Zakharenkova Irina, Alexander Namgaladze, Irk Shagimuratov, Oleg Zolotov, Oleg Martynenko. *Speaker Zakharenkova Irina*
- 25 **Seismo-anomalies of ground- and space-based observations during M_s≥5.0 earthquakes in Taiwan**
Ho Yi-Ying. *Speaker Ho Yi-Ying*

JSS011 Earth Structure and Geodynamics
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- 26 **The evolution of mantle viscous stresses caused by supercontinental cycle: numerical modelling**
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- 27 **Geodynamics of the Active continental Margins of the Far East, Russia**
Rodnikov Alexander. *Speaker Rodnikov Alexander*
- 28 **Disjunctive-plicative lateral structures of Tien-Shan; their delineation and role in pre-mesozoic geology of the region**
Mordvintsev Oleg. *Speaker Mordvintsev Oleg*
- 29 **The investigation of aftershock process of strong earthquakes of the Eastern-Anatolian fractured zone**
Mkrtychyan Mariam. *Speaker Mkrtychyan Mariam*
- 30 **Normal Modes for Kinematics of A Triaxial Earth**
Wang Wen-Jun, Wenbin Shen, Han-Wei Zhang. *Speaker Wang Wen-Jun*
- 31 **Complex geophysical research of earth CTUST deep structures and geodynamics of territory of Armenia**
Hovhannisian Hmayak, Karine Vardanyan. *Speaker Hovhannisian Hmayak*
- 32 **Earth's structure with the gravimetric tomography method**
Greku Rudolf, Alexander A. Kulikov, Tatyana R. Greku. *Speaker Greku Rudolf*
- 33 **Behavior of the high-dam building and surrounding areas derived from leveling and GPS measurements, Aswan-Egypt**
Mohamed Abdel-Monem. *Speaker Mohamed Abdel-Monem*
- 34 **The Joint Inversion Study on the Driving Forces Acting on the Block Boundaries and Tectonic Stress Field of China Mainland and Its Adjacent Areas**
Du Zhixing, Fanlin Yang, Xiushan Lu. *Speaker Du Zhixing*
- 35 **The stress field of the Hyuga-Nada Region, Southwest Japan, deduced from ocean-bottom seismic observations**
Uehira Kenji, Hiroshi Yakiwara, Tomoaki Yamada, Masanao Shinohara, Toshihiko Kanazawa, Kodo Umakoshi, Kazuhiko Goto, Hiroki Miyamachi, Ryota Hino, Kimihiro Mochizuki, Kazuo Nakahigashi, Masaji Goda, Hiroshi Shimizu. *Speaker Uehira Kenji*
- 36 **Influence of the atmospheric and oceanic circulation on the movement of the lithosphere plates and on the earthquakes**
Sidorenkov Nikolay. *Speaker Sidorenkov Nikolay*
- 37 **Three-dimensional seismic velocity structure in the Off-Miyagi and Off-Fukushima forearc Region**
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- 38 **Crustal and upper mantle structure beneath central South America deduced from ScS reverberation waveforms and receiver functions**
Kuge Keiko, Yusuke Okaue. *Speaker Kuge Keiko*
- 39 **Shear wave splitting and subduction structure in Southern Italy**
Margheriti Lucia, Paola Baccheschi, Michael S. Steckler. *Speaker Paola Baccheschi*
- 40 **Electrical conductivity of wadsleyite**
Manthilake M.A. Geeth Mahinda, T. Matsuzaki, T. Yoshino, S. Yamashita, E. Ito, T. Katsura. *Speaker Manthilake M.A. Geeth Mahinda*
- 41 **Comparative study concerning intermediate seismicity dynamics within some seismic nests of the world**
Zlagnean Luminita, Lucian Besutiu. *Speaker Zlagnean Luminita*
- 42 **3-D geomagnetic impulses: Synopsis of field components at the CMB**
Ballani Ludwig, Hans Greiner-Mai, Dietrich Stromeyer, Ingo Wardinski, Jan Hagedoorn, Aude Chambodut. *Speaker Ballani Ludwig*
- 43 **Origin and evolution of Northwest Indian conductor derived from geomagnetic deep sounding and thermo-geodynamical processes**
Prasad S N. *Speaker Prasad S N*
- 44 **Celestial geodynamics and solution of the fundamental problems of geodesy, gravimetry and geophysics**
Barkin Yury. *Speaker Barkin Yury*
- 45 **Mantle wedge dynamics versus crustal seismicity in the Apennines (Italy)**
Cinti Francesca R., Guido Ventura, Francesca Di Luccio, N. Alessandro Pino. *Speaker Cinti Francesca R.*
- 46 **Some regularities of the plate motion and space redistribution of big earthquakes**
Barkin Yury, Jose Manuel Ferrandiz, Miguel Garcia Ferrandez. *Speaker Barkin Yury*
- 47 **Earthquakes and the State of Stress in the Outer Rise**
Polet Jascha, Hong Kie Thio. *Speaker Polet Jascha*
- 48 **Roles of lateral viscosity variations caused by stiff subducting slabs and weak plate margins on long-wavelength geoid anomaly**
Yoshida Masaki, Tomoeaki Nakakuki, Motoyuki Kido. *Speaker Yoshida Masaki*
- 49 **Folds evolution and basin development in the hinterland of an orogen: the Almanzora neogene-quaternary corridor (SE Betic Cordillera, Spain)**
Pedrera Antonio, Jess Galindo-Zaldvar, Ana Ruz-Constrn, Carlos Duque-Calvache, Ngel Carlos Lpez-Garrido, Carlos Marn-Lechado, Carlos Sanz De Galdeano, Inmaculada Serrano. *Speaker Pedrera Antonio*
- 50 **3D Seismic Velocity Structure and geometry of plate boundary around the rupture area of the 1968 Tokachi-Oki Earthquake**
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- 52 **To the problem of mechanism definition of earthquakes focuses of Armenia**
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- 53 **Surface Wave Tomography beneath the Gulf of California Rift Zone**
Zhang Xiaomei, Hanneke Paulssen, Sergei Lebedev, Thomas Meier. *Speaker Zhang Xiaomei*
- 54 **Upper Mantle Anisotropy from Shear Wave Splitting on the Southeastern Passive Margin of Arabia, Dhofar Region, Oman**
Al-Lazki Ali, Cindy Ebinger, Michael Kendall, George Helffrich, Sylvie Leroy, Christel Tiberi, Graham Stuart, Khalfan Al-Toobi. *Speaker Al-Lazki Ali*
- 55 **Local-scale surface-wave tomography of the Japanese islands I: A two-station approach**
Yoshizawa Kazunori, Kazuaki Miyake, Kiyoshi Yomogida. *Speaker Yoshizawa Kazunori*
- 56 **Local-scale surface wave tomography of the Japanese islands II: A multi-station approach**
Yoshizawa Kazunori, Haruka Takezoe, Kiyoshi Yomogida. *Speaker Yoshizawa Kazunori*
- 57 **Seismic structure and seismicity of the rupture areas of the Tonankai, Nankai earthquakes derived from long-term sea floor earthquake observation**
Nakahigashi Kazuo, Asako Kuwano, Tomoaki Yamada, Kimihiro Mochizuki, Masanao Shinohara, Shinichi Sakai, Toshihiko Kanazawa, Kenji Uehira, Hiroshi Shimizu. *Speaker Nakahigashi Kazuo*
- 58 **Determining the Location of the Fault Plane for the Nankai Subduction Zone, Southwest Japan**
Enescu Bogdan, Jim Mori. *Speaker Enescu Bogdan*
- 59 **Seismotectonics of the southern Tyrrhenian compressive region, Italy**
Presti Debora, Andrea Billi, Claudio Faccenna, Giancarlo Neri, Barbara Orecchio. *Speaker Presti Debora*
- 60 **SKS splitting measurements beneath Northern Apennines region: a case of oblique trench retreat**
Pondrelli Silvia, Salimbeni Simone, Margheriti Lucia, Park Jeffrey, Levin Vadim. *Speaker Pondrelli Silvia*
- 61 **3D models of the upper mantle developed using the coupled spectral element method**
Lekic Vedran. *Speaker Lekic Vedran*
- 62 **P-wave mantle tomography with a focus on the South Pacific superswell obtained from traveltimes and relative traveltimes data**
Obayashi Masayuki, Satoru Tanaka, Junko Yoshimitsu, Daisuke Suetsugu, Hajime Shiobara, Hiroko Sugioka, Toshihiko Kanazawa, Yoshio Fukao, Guilhem Barruol. *Speaker Obayashi Masayuki*
- 63 **Deformation experiments on Marble under true triaxial stress states**
Nakayama Shotaro, Hiromine Mochizuki, Masao Nakatani, Shingo Yoshida. *Speaker Nakayama Shotaro*
- 64 **The analysis of the strained state of main seismotectonic zones of Menian upland**
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- 65 **Complex anisotropy structure beneath the Po-Plain and Northern Apennines (Italy): measurements and modelling**
Salimbeni Simone, Margheriti Lucia, Levin Vadim, Park Jeffrey. *Speaker Salimbeni Simone*
- 66 **Crustal and upper mantle structure beneath the Deccan Volcanic Province of India**
Gollapally Mohan, Pankaj Kr. Tiwari. *Speaker Gollapally Mohan*
- 67 **What parameters make up, what we call site effects**
Kerimov Ikram. *Speaker Kerimov Ikram*
- 68 **Error analysis of strain rates from GPS measurements based on Monte-Carlo method**
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- 69 **Investigation of Moho depth and its variations in Kope Dagh**
Mohammadi Elham, Mohammad Reza Gheitanchi. *Speaker Mohammadi Elham*
- 70 **D" structure investigated using source array migration**
Chaloner Jeremy, Christine Thomas, Andreas Rietbrock. *Speaker Chaloner Jeremy*
- 71 **Lower mantle structure from scattered and diffracted PKP waves**
Thomas Christine, J.-Michael Kendall. *Speaker Thomas Christine*
- 72 **Shear-wave splitting analysis using aftershocks of the 28th May 2004 Baladeh-Iran earthquake**
Dilmaghani Masoumeh, Seyed Mojtaba Mirmajidi, Dr.Ahmad Sadikhuy, Prof.Mohammad Reza Gheitanchi. *Speaker Dilmaghani Masoumeh*
- 73 **Determination of minimum 1-D velocity model for north west Iran region, using simultaneous inversion of local earthquake travel times.**
Bayramnejad Esmail. *Speaker Bayramnejad Esmail*
- 74 **Estimation of the crustal structure beneath Isfahan(Iran) obtained from receiver functions of short period data.**
Alikhani Zahra, Dr.Forough Sodudi, Dr.Ahmad Sadid Khuy. *Speaker Alikhani Zahra*
- 75 **Kirchhoff migration imaging of reflectors and scatterers in the lowermost mantle beneath Central America**
Hutko Alexander, Thorne Lay. *Speaker Hutko Alexander*
- 76 **Current state of deformation processes in an earth's crust of the Caucasian region**
Naira Gedakian. *Speaker Naira Gedakian*
- 77 **Mantle Convection Models with Temperature and Depth-dependent Thermal Expansivity**
R. Ghias Sanaz, Gary T. Jarvis. *Speaker R. Ghias Sanaz*
- 78 **Comparison of Long Period Normal Modes from the Sumatra Earthquake Using Superconducting Gravimeters and GSN Seismometers**
Crossley David, Yan Xu. *Speaker Crossley David*
- 79 **The Earth's seismicity statistics**
Bulatova Natalja. *Speaker Bulatova Natalja*
- 80 **Geodynamic significance of the 105 meridian of eastern longitude.**
Ioganson Lidia. *Speaker Ioganson Lidia*
- 81 **Flat to normal subduction Nazca Plate transition between latitudes 31.5-33.5S as seen from small earthquakes (M < 4.5)**
Furlani Renzo. *Speaker Furlani Renzo*

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- 82 **The mantle discontinuity depths in the stagnant Pacific slab beneath the Philippine Sea**
Suetsugu Daisuke, Hajime Shiobara, Hiroko Sugioka, Aki Ito, Hitoshi Kawakatsu, Azusa Shito, Claudia Adam, Toshihiko Kanazawa, Yoshio Fukao. *Speaker Suetsugu Daisuke*
- 83 **Effect of superhydrated phase B and phase D on the density of hydrated slabs in the deep mantle**
Litasov Konstantin, Eiji Ohtani. *Speaker Litasov Konstantin*
- 84 **Upper boundary of the Pacific plate subducting under Hokkaido, Japan, estimated from ScSp phase**
Yomogida Kiyoshi, Kinue Osada, Kazunori Yoshizawa. *Speaker Yomogida Kiyoshi*
- 85 **Preliminary study on formulation of a slab stagnation model unifying thermal convection and kinetics**
Yoshioka Shoichi. *Speaker Yoshioka Shoichi*
- 86 **Anelasticity in the mantle surrounding Izu-Bonin subduction zone inferred from BBOBS waveform data**
Shito Azusa, Hajime Shiobara, Hiroko Sugioka, Aki Ito, Claudia Adam, Hitoshi Kawakatsu, Toshihiko Kanazawa. *Speaker Shito Azusa*
- 87 **Detailed Structure of Upper Mantle Discontinuities in the Tonga and Mariana Subduction Zones**
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- 88 **The crystallographic preferred orientation of MGS103 Ilmenite and its implications for the anisotropy of the subducted slab**
Shiraishi Rei, Eiji Ohtani, Kyuichi Kanagawa, Akira Shimojuku, Masaaki Miyahara. *Speaker Shiraishi Rei*
- 89 **Sensitivity of geomagnetic transfer functions to stagnant-SLAB-type electrical conductivity heterogeneity**
Shimizu Hisayoshi, Yuta Baba, Takao Koyama, Kiyoshi Baba, Hisashi Utada. *Speaker Shimizu Hisayoshi*
- 90 **Gaussian-beam receiver function synthetics in a 3-D heterogeneous medium with velocity discontinuities at the Japan subduction zone**
Hirahara Kazuro, Takashi Tonegawa, Takuro Shibutani. *Speaker Hirahara Kazuro*
- 91 **Upper mantle structure beneath Japan and Okhotsk Sea from Rayleigh wave analysis**
Litvina Ekaterina, Kiyoshi Yomogida. *Speaker Litvina Ekaterina*
- 92 **Body wave travel time anomalies caused by the stagnant slab**
Sugioka Hiroko, Daisuke Suetsugu, Masayuki Obayashi, Yoshio Fukao, Yuan Gao. *Speaker Sugioka Hiroko*
- 93 **Implication of low velocity anomaly found beneath the oceanward side of Honshu subduction zone: Interaction between the sinking hot anomaly and exothermic phase change**
Honda Satoru, Manabu Morishige, Yuji Orihashi. *Speaker Honda Satoru*
- 94 **Mantle anisotropy beneath the eastern Asia**
Tono Yoko, Yoshio Fukao, Takashi Kunugi, Seiji Tsuboi. *Speaker Tono Yoko*
- 95 **Thermal conductivity and thermal diffusivity of slab materials under high pressure**
Osako Masahiro, Akira Yoneda, Eiji Ito. *Speaker Osako Masahiro*
- 96 **Instantaneous mantle flow induced by subduction of a freely sinking slab**
Piromallo Claudia, Thorsten W. Becker, Francesca Funicello, Claudio Faccenna. *Speaker Piromallo Claudia*

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Franck Touratier, Catherine Goyet. *Speaker Franck Touratier*
- 2 **Dissolved organic carbon and chromophoric dissolved organic matter in Western Mediterranean**
Santinelli Chiara, Luca Bracchini, Rossana Del Vecchio, Luciano Nannicini, Arduino Massimo Dattilo, Antonio Tognazzi, Alfredo Seritti. *Speaker Rossana Del Vecchio*

PS007 Biogeochemical Fluxes Between the Shelf and Open Seas
Convener: Simpson John
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- 3 **Impact of surface water circulation on the distributions of Cd and Ag in Baha de Todos Santos, Mexico**
Marinone Silvio, M. L. Lares, I. Rivera, A. Beck. *Speaker Marinone Silvio*
- 4 **Metal accumulation in the sediments of the exclusive economic zone (EEZ) of Bay of Bengal, India**
Nadimikeri Jayaraju. *Speaker Nadimikeri Jayaraju*
- 5 **Dissolved inorganic carbon dynamics in the Gulf of Biscay (June 2006)**
Suykens Kim, Bruno Delille, V. Borges. *Speaker Suykens Kim*

PS010 New Insights into the Ocean and Its Circulation from Argo and GODAE
Conveners: Gould W John
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- 6 **Seasonal Variability of Barrier Layer in the Arabian Sea**
Thadathil Pankajakshan. *Speaker Thadathil Pankajakshan*
- 7 **A new climatology of the surface mixed layer in the North Pacific based on the ARGO observation**
Iwasaka Naoto, Yuko Ohno, Fumiaki Kobashi. *Speaker Iwasaka Naoto*
- 8 **Circulation near Ulleung Basin in the East /Japan Sea as studied from ARGO data**
Suk Moon-Sik, Shree Ram Prakya. *Speaker Suk Moon-Sik*
- 9 **Indian Ocean Subtropical Mode Water**
Tsubouchi Takamasa, Toshio Suga, Kimio Hanawa. *Speaker Tsubouchi Takamasa*
- 10 **The role of ARGO on the ECMWF operational ocean analysis system**
Alonso Balmaseda Magdalena, David Anderson, Arthur Vidard. *Speaker David Anderson*
- 11 **Negative bias of dissolved oxygen measurements by profiling floats**
Kobayashi Taiyo, Toshio Suga, Nobuyuki Shikama. *Speaker Kobayashi Taiyo*
- 12 **A method for predicting the average lifetime of modern APEX floats**
Kobayashi Taiyo, Brian A. King, Nobuyuki Shikama. *Speaker Kobayashi Taiyo*
- 13 **Developing ocean prediction system for the sea surface temperature around Korea**
Cho Yang-Ki, Yong-Hoon Youn, Byoung-Ju Choi, Sangil Kim, Young Ho Kim. *Speaker Cho Yang-Ki*
- 14 **Topographic steering of mid-depth currents obtained from Argo float trajectories with and without correction of surface drift**
Park Jongjin, Kuh Kim. *Speaker Park Jongjin*
- 15 **Usage of Argo floats in the marginal sea and in the Antarctic Ocean**
Jeon Dongchull, Moon-Sik Suk. *Speaker Jeon Dongchull*
- 16 **Structure and Modification of the South Pacific Eastern Subtropical Mode Water**
Sato Kanako, Toshio Suga. *Speaker Sato Kanako*
- 17 **Vertical structure of various pycnostads in the North Pacific**
Toyama Katsuya, Toshio Suga. *Speaker Toyama Katsuya*
- 18 **The assessment of assimilated global ocean initial data on a CGCM**
Ahn Joong Bae, Hye-In Jeong, Soo-Bong Lee, Yong-Hoon Youn. *Speaker Ahn Joong Bae*
- 19 **Ocean data assimilation of profile data on density levels in FOAM**
Lea Daniel, Prof. Keith Haines. *Speaker Lea Daniel*
- 20 **Biogeochemical observation by an Argo float**
Sukigara Chiho, Toshio Suga, Toshiro Saino, Katsuya Toyama, Daigo Yanagimoto, Kimio Hanawa, Nobuyuki Shikama. *Speaker Sukigara Chiho*
- 21 **Application of ensemble kalman filter to a regional ocean modeling system of the northwest Pacific Ocean**
Cho Yang-Ki, Byoung-Ju Choi, Sangil Kim, Young Ho Kim, Yong-Hoon Youn. *Speaker Byoung-Ju Choi*
- 22 **Oceanographic Conditions in the Eastern Tropical Pacific off Central America Revealed by Argo Data**
Ballester Daniel. *Speaker Ballester Daniel*
- 23 **The circulation in the subtropical South Indian Ocean derived from Argo floats.**
Getzlaff Klaus, Brian King, Elaine Mcdonagh, Harry Bryden. *Speaker Getzlaff Klaus*

JSS013 The lithosphere
Conveners: Thybo Hans, Cloetingh Sierd
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- 24 **The Ypresian Lutetian boundary in the north of Tunisia, Biostratigraphy, Climatic, Tectonic and Environmental Events**
Narjess Karoui- Yaakoub, Moufida Ben Mbarek-Jma, Nourine Ben Ayed. *Speaker Narjess Karoui- Yaakoub*
- 25 **Deep lithospheric structures in geodynamical evolution of Middle Tien Shan**
Sidorova Irina. *Speaker Sidorova Irina*
- 26 **Comparison between fault lineaments on satellite images and Riedel model shear: a case study in Damavand Volcano, Central Alborz Mountains, Northern Iran**
Omidian Safieh, Jamshid Hassanzadeh, Mohsen Eliassi, Faribourz Gharib. *Speaker Omidian Safieh*
- 27 **Petrology and geochemistry of Kuhe - Dom Volcanic Rocks in Ardestan, central Iran**
Baranpourian Neda, Mohammad Hossain Razavi, Mohammad Hashem Emami. *Speaker Baranpourian Neda*
- 28 **Modeling of the thermal structure of continental lithosphere**
Kronrod Victor, Tatiana Kronrod. *Speaker Kronrod Victor*
- 29 **Evaluation of the effects by heterogeneously inserted thin/thick high/low velocity layers in the part of crust**
Tsuruga Kayoko, Junzo Kasahara, Yoshihiro Naito, Azusa Nishizawa, Kentaro Kaneda. *Speaker Tsuruga Kayoko*
- 30 **Evaluation of efficiencies of P-S conversion in T H E oceanic crust and Vp/Vs estimation**
Tsuruga Kayoko, Junzo Kasahara, Eiichiro Nishiyama, Kei Murase, Ryuji Kubota, Azusa Nishizawa. *Speaker Eiichiro Nishiyama*
- 31 **A highly variable depth of the brittle/ductile transition in the lithosphere along the Andes Region**
Muoz Miguel. *Speaker Muoz Miguel*
- 32 **Global rotation of lithosphere and position of seismic belts**
Barkin Yury. *Speaker Barkin Yury*
- 33 **Crustal and uppermantle structure in the Eastern Mediterranean from the analysis of surface wave dispersion curves**
Di Luccio Francesca, Francesca Di Luccio, Mike E. Pasyanos. *Speaker Di Luccio Francesca*
- 34 **Rayleigh Wave Group Velocity Tomography in Greenland from Correlation of Ambient Seismic Noise**
Voss Peter, Peter Kyhl Knudsen, Olafur Gudmundsson, Sren Gregersen, Trine Dahl-Jensen, Winfried Hanka, Tine B. Larsen. *Speaker Voss Peter*
- 35 **Exhumation of the Dabie UHP Metamorphic Terrane, China**
Wang Qingchen. *Speaker Wang Qingchen*
- 36 **Temperature estimates of the lithosphere on the romanian territory constrained by seismic velocity data**
Tumanian Maria. *Speaker Tumanian Maria*
- 37 **Tracking SKS shear-wave splitting across Central and Eastern Europe by using permanent networks and one single event**
Plenefisch Thomas, Marcus Walther. *Speaker Plenefisch Thomas*
- 38 **Application of integrated geophysical modelling for determination of the continental lithospheric structure in the Carpathian-Pannonian region - lithospheric thickness map**
Drerov Jana, Miroslav Bielik, Hermann Zeyen, Karmah Salman. *Speaker Drerov Jana*
- 39 **Integrated lithospheric modelling in the Red Sea area**
Drerov Jana, Miroslav Bielik, Anwar Hassan Ahmed Radwan, El-Sayed Abdel-Azim Issawy, Igor Koht. *Speaker Drerov Jana*
- 40 **A new lithosphere model as input for the European Strength Map**
Tesauro Magdala, Mikhail K. Kaban, Sierd Cloetingh. *Speaker Tesauro Magdala*
- 41 **Surface wave tomography in Euro-Mediterranean region**
Schivardi Renata, Andrea Morelli. *Speaker Schivardi Renata*
- 42 **Finite difference seismic travel times and non-linear seismic tomography: recovery of slab-back-arc structures in the Mediterranean region**
Serretti Paola, Andrea Morelli. *Speaker Serretti Paola*
- 43 **Interpretation of mineralogic and geochemist results of clays from the Ypresian/Lutetian boundary in the North of Tunisia and the paleoenvironment reconstruction**
Moufida Ben M'Barek Jema, Narjess Karoui Yaakoub, Fouad Zargouni, Nouredine Ben Ayed. *Speaker Moufida Ben M'Barek Jema*

SS002 Earthquake Hazard, Risk, and Strong Ground Motion
Conveners: Wu Zhongliang, Romanelli Fabio
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- 44 **Study on causative mechanism of unusual geological incidents occurred during 2001 in Kerala, India**
Shanker Daya, H.N. Singh, O.P. Arya, V. P. Singh, V.N. Neelakandan. *Speaker Shanker Daya*
- 45 **Precursory swarm is a real diagnostic parameter as seismic precursor before major shocks a case study**

- Shanker Daya, H. N. Singh, R.B.S. Yadav, V.P.Singh. *Speaker Shanker Daya*
- 46 **Seismic hazard zoning of Southern Part of Khorasan Province, Iran (Gazik_Qayen_Nehbandan_Birjand) and designing a fortran program to estimate the seismicity parameters on base of numbers and magnitude of earthquakes**
Abbaszadeh Shahri Abbas, Noorbakhsh Mirzaei, Mohsen Goudarzi. *Speaker Abbaszadeh Shahri Abbas*
- 47 **Comparison of earth quake response spectra of earth (soil) and concrete dams behaviour in different regions of Iran with a new geotechnical analysis method**
Abbaszadeh Shahri Abbas, Noorbakhsh Mirzaei, Mohsen Goudarzi. *Speaker Abbaszadeh Shahri Abbas*
- 48 **Probabilistic earthquake hazard analysis in western Algeria**
Yucef Bouhadad. *Speaker Youcef Bouhadad*
- 49 **Geological structure of Sri Lanka and its influence on micro seismic activities**
Wickramasooriya Ashvin. *Speaker Wickramasooriya Ashvin*
- 50 **Identification of basement Rock Beneath Kanto Plain by normalized input-output minimization (NIOM) method and conventional receiver function using strong motion accelerograms**
Grutas Rhommel, Hidenori Mogi, Hideji Kawakami. *Speaker Grutas Rhommel*
- 51 **Complex analytical and monitoring the method of the long-term and short-term earthquakes forecasting**
Svetlana Bayda. *Speaker Svetlana Bayda*
- 52 **Probabilistic seismic hazard assessment for Romania considering intermediate-depth (vrancea) and shallow (crustal) seismicity**
Sokolov Vladimir, Rakesh Mohindra, Simon Francis, Friedemann Wenzel. *Speaker Sokolov Vladimir*
- 53 **Seismic hazard assessment of the Ilam Region in Western Iran**
Sepahvand Mohammad Reza, Mossomeh Eskandari. *Speaker Sepahvand Mohammad Reza*
- 54 **Short-Term M4+ Earthquake Probability Forecasts for California and Western Nevada**
Ebel John, Daniel W. Chambers, Alan L. Kafka, Jenny Baglivo. *Speaker Ebel John*
- 55 **Probabilistic seismic hazard evaluation of Albania**
Aliaj Shyqyri, Eduard Sulstarova, Betim Muo, Siasi Koiu. *Speaker Eduard Sulstarova*
- 56 **Q-models for deterministic seismic hazard assessment in Romania**
Luminita Angela Ardeleanu. *Speaker Luminita Angela Ardeleanu*
- 57 **Dams rating in seismic risk classes in Banat Region - Romania**
Iren-Adelina Moldovan, Emilia Popescu, Eugen Oros. *Speaker Iren-Adelina Moldovan*
- 58 **Determination of Ground Motion Attenuation law in Tehran Region**
Motaghi S. Khalil, Abdolreza Ghods, Hamid Reza Siahkoobi. *Speaker Motaghi S. Khalil*
- 59 **Deterministic Seismic Hazard Assessment of North-East IRAN "NEYSHABOUR Region"**
Kazemian Javad, Noorbakhsh Mirzaei. *Speaker Kazemian Javad*
- 60 **Is It Possible an Integrated Use of Microzonation Studies and City Disaster Plan ? Sisli (Istanbul) Example**
Ozcep Ferhat, Dilek Kepekci. *Speaker Ozcep Ferhat*
- 61 **Seismicity and seismic energy release in Central Alborz, Northern Iran**
Heydari Sara, Mohammad Reza Gheitanchi. *Speaker Heydari Sara*
- 62 **Spatio-temporal changes of b-value in Alborz**
Ashtari Jafari Mohammad. *Speaker Ashtari Jafari Mohammad*
- 63 **The 2007 UK national seismic hazard map**
Musson Roger, Susanne Sargeant. *Speaker Musson Roger*
- 64 **Statistical distribution of elapsed times and distances of seismic events: the case of the Alborz in northern IRAN**
Heydari Sara, Mohammad Reza Gheitanchi 1&2 And Hediye Nazi 3. *Speaker Heydari Sara*
- 65 **Aftershock activity of the 28th May 2004 (Ms=6.4) Baladeh kojour earthquake in Iran**
Heydari Sara. *Speaker Heydari Sara*
- 66 **Can't groundwater level be induced by shear waves?**
Fu-Qiong Huang, Chen Yong, Yu Sheng, Wong Teng-Fong, Wu Zhongliang. *Speaker Fu-Qiong Huang*
- 67 **Seismic hazard analysis in Kerman Region, Iran**
Taheri Leila, Mohammad Reza Gheitanchi. *Speaker Taheri Leila*
- 68 **Estimation of b-value and fractal dimension in the Andaman-Sumatra Region**
Tripathi Jayant Nath, Ashish K. Yadav. *Speaker Tripathi Jayant Nath*
- 69 **Deaggregation of seismic hazard for selected canadian cities**
Adams John, Stephen Halchuk, Frank Anglin. *Speaker Adams John*
- 70 **Parallel implementation of a displacement finite difference method for computation of the seismic response of geologic models**
Juan Alfonso Prez Ruiz, Francisco Luzn Martinez, Antonio Garca Jerez. *Speaker Juan Alfonso Prez Ruiz*
- 71 **An advanced method to generate damage scenarios employing an index of vulnerability of buildings for seismic risk assessment in urban zones. Application to Motril city (Spain).**
Juan Alfonso Prez Ruiz, Antonio M. Posadas Chinchilla, Nieves Lantada Zarzosa, Lluís G. Pujades Beneit, Antonio Garca Jerez. *Speaker Juan Alfonso Prez Ruiz*
- 72 **An advanced method to generate damage scenarios using capacity spectrum of buildings for seismic risk assessment in urban zones. Application to Motril city (Spain).**
Juan Alfonso Prez Ruiz, Antonio M. Posadas Chinchilla, Nieves Lantada Zarzosa, Lluís G. Pujades Beneit, Antonio Garca Jerez. *Speaker Juan Alfonso Prez Ruiz*
- 73 **Analysis of strong ground motion of February 22, 2005 Zaranj earthquake**
Babaie Mahani Alireza, Shayesteh Mehrabian. *Speaker Babaie Mahani Alireza*
- 74 **Source model of the 2005 Miyagi-Okii, Japan, earthquake from broadband strong motion simulation by the empirical Greens function method**
Suzuki Wataru, Tomotaka Iwata. *Speaker Suzuki Wataru*
- 75 **Simulation of peak ground acceleration**
Chen Kuang-Jung, Jee-Shiang Wang, Yih-Min Wu, Cheng-Hong Lin. *Speaker Chen Kuang-Jung*
- 76 **Analysis of global damage and functioning of highway systems in earthquake conditions**
Dojcinovski Dragi, Vladimir Mihailov, Guoxin Wang, Katayoun Behzadafshar. *Speaker Dojcinovski Dragi*
- 77 **Characteristics of destructive earthquake in Turkey**
Boustan Elham, Mohammad Reza Gheitanchi. *Speaker Boustan Elham*
- 78 **Investigation of seismicity and seismic energy release in Middle East**
Tahernai Nadia, Mohammad Reza Gheitanchi. *Speaker Tahernai Nadia*
- 79 **Characteristic of Hindu Kush Earthquakes**
Tahernai Nadia, Mohammad Reza Gheitanchi. *Speaker Tahernai Nadia*
- 80 **Investigation of seismotectonic on the basis of aeromagnetic and earthquake data in East Azarbaijan Province**
Nazi Hediye, Nasrin Amirmotallebi, Mohammad Reza Gheitanchi, Sara Heidari. *Speaker Nazi Hediye*
- 81 **Improvement of the experimental system in Turkey automatically estimating seismic source, ground motion, and damage**
Suzuki Sadaomi, Takuo Kagawa, Murat Beyhan, Engin Coruh, Bekir Tuzel, Mayumi Sakamoto, Yutaka Ohta. *Speaker Suzuki Sadaomi*
- 82 **Australian Earthquake Ground Motion Model Development**
Cummins Phil, Trevor Allen, Trevor Dhu. *Speaker Cummins Phil*
- 83 **Dynamic seismic hazard prediction and pipeline earthquake impacts**
Babazade Oktay, Nigyar Babazade, Lothar Griesser, Boris Romanov. *Speaker Babazade Oktay*
- 84 **ShakeMap analysis for Vrancea (Romania) intermediate-depth earthquakes and implications on disaster management strategy**
Radulian Mircea, Andrea Tugui, Bogdan Grecu, Mihaela Popa, Neculai Mandrescu. *Speaker Radulian Mircea*
- 85 **Time-dependent seismic hazard assessment on the basis of monitoring seismicity behaviour in Vrancea region, Romania**
Popa Mihaela, Maria Rogozea. *Speaker Popa Mihaela*
- 86 **Reevaluated macroseismic map of March 4, 1977 major Vrancea (Romania) earthquake.**
Pantea Aurelian, Angela Constantin. *Speaker Pantea Aurelian*
- 87 **Long-period ground motion simulation on the Ishikari and Yufutsu plain, Hokkaido, Japan**
Yoshida Kunikazu, Haruko Sekiguchi, Masayuki Yoshimi, Haruo Horikawa. *Speaker Yoshida Kunikazu*
- 88 **New generation of probabilistic seismic hazard assessment for Germany considering uncertainties as an integral part**
Grnthal Gottfried, Christian Bosse, Dietrich Stromeyer, Rutger Wahlstrm. *Speaker Grnthal Gottfried*
- 89 **Designing new strategic facilities: ground motion evaluation for two bridges in the Veneto-Friuli Plain (NE Italy)**
Santulin Marco, Pieralberto Fadalti, Dario Slejko, Alessandro Rebez. *Speaker Dario Slejko*
- 90 **New approach to the characterization of the tail of the distribution of earthquake magnitudes and instability inherent to the widely used Mmax estimates**
Rodkin Mikhail, Vladilen Pisarenko, Anne Sornette, Didier Sornette. *Speaker Rodkin Mikhail*
- 91 **Sensitivity Analysis in Probabilistic Seismic Hazard Analysis (PSHA): a Case of Study in Northern Tuscany (Italy)**
Barani Simone, Daniele Spallarossa, Claudio Eva. *Speaker Barani Simone*
- 92 **Limited constraints on probabilistic seismic hazard estimates**
Beauval Celine, Pierre-Yves Bard, Sebastian Hainzl, Philippe Gueguen. *Speaker Beauval Celine*
- 93 **A Study on the Recent Recorded Strong Motion in Bandar Abass region in Zagros, Southern Iran**
Eshaghi Attieh, Prof.Mohamadreza Gheyntanchi, Dr.Mehdi Zare, Javad Kazemiyani. *Speaker Eshaghi Attieh*
- 94 **Seismic attenuation in SW Iberia: constraints from the M6.1 Feb 12, 2007 Cape St Vincent Earthquake**
Fonseca Joao, Susana P. Vilanova, Carlos S. Oliveira. *Speaker Fonseca Joao*

SS005 Earthquake Sources - Modelling and Prediction
Conveners: Zavyalov Alexey, Matsuura Mitsuhiro
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- 95 **Shock-wave model of earthquake source**
Kuznetsov Vladimir.
- 96 **Study of crust in South-Western Zagros in Iran using earthquake data inversion**
Abd Etedal Mahsa, Dr. Mohammad Reza Gheitanchi.
- 97 **Studying of the relation between crustal movement and strong earthquakes by GPS in mainland China**
Zai-Sen Jiang, Zai-Sen Jiang, Yong-Lin Li, Ying Fang, Yan-Qiang Wu.
- 98 **Source Mechanism and Source Parameters of May 28, 1998 Earthquake, Egypt**
Ebou Elenean Atiya Kamal.
- 99 **Focal Mechanisms of Small and Moderate Size Earthquakes Recorded by the Egyptian National Seismic Network (ENSN), Egypt**
Ebou Elenean Atiya Kamal.
- 100 **The account of effect the Fermipastulam in mathematical models of seismic processes activation**
Svetlana Bayda.
- 101 **Application of seismic noise for prediction of strong earthquakes in Kamchatka**
Kugaenko Yulia, Saltykov Vadim, Sinitsyn Valery.
- 102 **On geodynamical processes in the region of the Northern Tien Shan: possible preparation for large earthquake**
Kopnischev Yuri, Mikhailova Natalya.
- 103 **Synchronization effects of microseismic background oscillations field before strong earthquakes**
Lyubushin Alexey, G.A. Sobolev.
- 104 **Probability of seismic realization of radon precursors of earthquakes ($m \geq 3.7$) in Armenia and adjacent territories**
Hovhannisyan Hayk, Hrachya Petrosyan.

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Hovhannisyan Hayk.
- 106 **Analysis of radons levels to understand expansion and compression processes in the active faults zone in Armenia**
Hovhannisyan Hayk.
- 107 **The focal mechanism of small earthquakes in relation with the active fault systems of Vrancea Region (Romania)**
Luminita Angela Ardeleanu, Raileanu Victor.
- 108 **Source-site characterization for Vrancea (Romania) intermediate-depth earthquakes**
Anica Otilia Placinta, Radulian Mircea, Popescu Emilia, Popa Mihaela, Moldovan Iren Adelina.
- 109 **Seismicity and seismotectonics of eastern part of the Pannonian Depression (Romania)**
Anica Otilia Placinta, Radulescu Florin, Malita Zina, Diaconescu Mihai.
- 110 **Tectonophysical analysis of jointing area underground and open pit mine**
Fedotova Yuliya, Anatoly Kozyrev, Maxim Potokyn.
- 111 **Estimation parameters mining-induced seismicity in Khibiny massif**
Fedotova Yuliya.
- 112 **Modeling constraints of earthquake parameters using chaotic dynamics over Indian Regions.**
Srivastava Hari Narain.
- 113 **Regularity of distribution of regional and local components of the tectonomagnetic field.**
Bondar Tatiana, Samvel Oganessian.
- 114 **Background seismicity and earth tides: synchronization in source zones of large earthquakes**
Saltykov Vadim.
- 115 **Estimation of seismic fault slip distribution from marine terrace data using an earthquake cycle model**
Sato Toshinori, Harutaka Higuchi, Noriko Tsumura, Tanio Ito, Chihiro Hashimoto, Mitsuhiro Matsu'Ura.
- 116 **A hybrid intelligent system based on analysis of time variation in radon concentration, environmental parameters and aftershocks of bam earthquake**
Keshvari Forough, Noorbakhsh Mirzaei, Ali Negarestani, Navid Shad Manaman.
- 117 **Investigation of crust in Yazd province, central Iran, revealed from local seismic network data**
Pour Beyranvand Shahrokh, Mohammad Reza Gheitanchi, Majid Nemati.
- 118 **Earthquake triggering by the combination of the static stress step and the dynamic effect**
Maeda Kenji.
- SW001 Earthquake data in archaeological and historical studies**
Conveners: **Albini Paola**
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- 119 **Re-evaluation of historical catalogues in the Indian Region.**
Srivastava Hari Narain. *Speaker Srivastava Hari Narain*
- 120 **The 1740 and 1544 earthquakes in Central Greece**
Stiros Stathis, Sofia Papageorgiou. *Speaker Stiros Stathis*
- VS005 The Magma Feeding System of Persistently Active Basaltic Volcanoes: Mount Etna and Others**
Conveners: **Puglisi Giuseppe, Cristofolini Renato, Allard Patrick**
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- 121 **Dynamics of magma mixing at MT. Etna Volcano (Italy) as indicated by textural and compositional features of phenocrysts. part 1: chemical disequilibrium conditions**
Viccaro Marco, Renato Cristofolini.
- 122 **Preliminary research of magma mixing and explosive mechanism of the millennium eruption of Tianchi Volcano, China**
Fan Qicheng, Jianli Sui, Ni Li, Qian Sun.
- 123 **Faulting on the western flank of Mt. Etna and magma intrusions in the shallow crust**
Mattia Mario, Domenico Patan, Marco Aloisi, Mauro Amore.
- 124 **Dynamics of magma mixing at MT. Etna Volcano (Italy) as indicated by textural and compositional features of phenocrysts. part 2: kinetics of processes**
Viccaro Marco.
- 125 **New insights on Mt. Etna's summit eruptive activity (2003-2007) from seismological and ground deformation data**
Mattia Mario, Domenico Patan, Giuseppe Di Grazia, Marco Aloisi, Valentina Bruno, Mimmo Palano.
- 126 **Ground deformation, gravity and magnetic variations at MT. Etna encompassing the 2006 eruptive activity**
Bonforte Alessandro, Daniele Carbone, Davide Giudice, Filippo Greco, Francesco Guglielmino, Rosalba Napoli.
- 127 **Modelling of ground deformation and gravity data from Mt. Etna using different inversion approaches**
Bonforte Alessandro, Marco Aloisi, Antonio Camacho, Daniele Carbone, Maria Charco, Gilda Currenti, Ciro Del Negro, Jose Fernandez, Salvatore Gambino, Filippo Greco, Francesco Guglielmino, Mario Mattia, Mimmo Palano, Giuseppe Puglisi.
- 128 **The stability of lava lakes - insights into subsurface processes**
Llewellyn Ed, Fred Witham.
- 129 **Ground deformations associated to the Nyiragongo 2002 and the Nyamulagira**
Nicolas D'Oreye, F. Kervyn, V. Cayol, C. Wauthier.
- VS008 Volcanic hazard evaluation: methodologies and applications**
Conveners: **Carniel Roberto, Falsaperla Susanna**
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- 130 **Tremor Signals at Galeras Volcano, Colombia**
Jentzsch Gerhard.
- 131 **Utilization of photographic techniques to recognize zeolitized facies in the Orvieto ignimbrite, as potential pollutant for the underneath aquifer**
Zanon Vittorio, Angelo Peccerillo, Pietro Conversini, Jos Pacheco, Adriano Pimentel.
- 132 **Time serial analysis of volcanomagnetic data in Tenerife Island**
Sanchez Nieves, Alicia Garcia, Marta Tarraga.
- 133 **Spatial Volcanic Hazard Assessment by the Event Bush Method**
Nikolenko Sergey, Pshenichny, Cyril Anatolievich, Sobissevich, Alexei Leonidovich, Yakovlev, Anton Viktorovich.
- 134 **Distal Tephra dispersion and related hazards in Chile: identification of latitudinal patterns**
Amigo Alvaro, Jorge Clavero, Matt Watson.
- 135 **Quick Extraction of Relevant Volcanological Information by Means of Semantic and Smysl Networks**
Shterkhun Victoria, Pshenichny C. A.
- VS015 New Techniques using Remote Sensing Data for Volcano Monitoring and Analysis: Observations, Integration, Hazard Assessments and Modeling**
Conveners: **Dean Ken, Rothery David**
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Arellano-Baeza Alonso, Roxana Ortega-Bustamante, Fernando Machuca Perez. *Speaker Arellano-Baeza Alonso*
- 137 **Ash plumes at MT. Etna during the 2006 eruption: observations from satellite to microscope**
Spinetti Claudia, Daniele Andronico, Jacopo Taddeucci, Antonio Cristaldi, Maria Fabrizia Buongiorno. *Speaker Spinetti Claudia*
- 138 **Investigation of LIDAR signal intensity on volcanic products of the Stromboli Volcano, Italy**
Fornaciai Alessandro, Marina Bisson, Massimiliano Favalli, Patrizia Landi, Francesco Mazzarini, Maria Teresa Pareschi. *Speaker Fornaciai Alessandro*
- 139 **On ground tir camera for volcanic plume detection: sensitivity study on sulphur dioxide and volcanic ash retrieval**
Pugnaghi Sergio, Corradini Stefano, Tirelli Cecilia, Gangale Gabriele, Amici Stefania, Buongiorno Maria Fabrizia, Carboni Elisa. *Speaker Stefano Corradini*
- 140 **Environmental Radioactivity Monitoring of Volcanoes**
Plastino Wolfgang. *Speaker Plastino Wolfgang*
- 141 **An Integrated Suite for Forecasting Volcanic Ash Dispersal: The MAFALDA Procedure**
Barsotti Sara, Augusto Neri, Luca Nannipieri. *Speaker Augusto Neri*
- 142 **Regional earthquake triggers of enhanced volcanic activity: examples from Modvolc data 2000-2006**
Delle Donne Dario, Andrew J.L. Harris, Maurizio Ripepe, Robert Wright. *Speaker Delle Donne Dario*

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Conveners: Satake Kenji, Pelinovsky Efim, Dunbar Paula, Papadopoulos Gerassimos, Imamura Fumihiko
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- 1 **The Southeast Asia Tsunami Disaster Aftermath: Development of New Approaches to Coastal Zone Hazard Observation and Warning Systems**
Kontar Evgeny. *Speaker Kontar Evgeny*
- 2 **The simple model of Tsunami propagation simulator by using SITPROS Model**
Kanbua Wattana, Somporn Chuai-Aree. *Speaker Somporn Chuai-Aree*
- 3 **Application of RS and GIS in Tsunami hazards assessment and Rehabilitation in Car Nicobar Islands**
Kumar Arun, Th. Dolendro. *Speaker Kumar Arun*
- 4 **Restoration of Tsunami Incident by Remote Measurements of the Surface Water Oscillations**
Voronina Tatiana. *Speaker Voronina Tatiana*
- 5 **Processes affecting tsunamis propagating towards wide continental shelves, and their role in coastal impacts**
Wilson Chris, K. J. Horsburgh, B. J. Baptie, A. Cooper, D. Cresswell, R. M. W. Musson, L. Ottemoller, S. Richardson, S. L. Sargeant. *Speaker Wilson Chris*
- 6 **The potential use of coastal tide gauge data in the Australian Tsunami Warning System**
Allen Stewart, Diana Greenslade. *Speaker Allen Stewart*
- 7 **Tsunami sources of November 2006 and January 2007 Kuril earthquakes**
Fujii Yushiro, Kenji Satake. *Speaker Kenji Satake*
- 8 **Simulation of tsunami propagation in Arabian Sea due to earthquakes in Makaran: a possible scenario**
Dimri Vijay Prasad, Kirti Srivastava, D.Srinagesh. *Speaker Dimri Vijay Prasad*
- 9 **Tsunami deposits in the western Mediterranean: the remains of the 1522 Almera earthquake**
Reicherter Klaus, Peter Becker-Heidmann. *Speaker Reicherter Klaus*
- 10 **New theory for tsunami propagation and estimation of tsunami parameters**
Mindlin Iliia. *Speaker Mindlin Iliia*
- 11 **Modeling of the UHF Radar signature of a tsunami approaching coastal areas: application to tsunami warning**
Grilli Stephan, Marc Saillard, Sara Dubosq. *Speaker Sara Dubosq*
- 12 **Numerical modeling of tsunami waves in the French West Indies**
Zahibo Narcisse, Narcisse Zahibo, Efim Pelinovsky, Ahmet Yalciner, Andrey Zaitsev, Irina Nikolkina. *Speaker Zahibo Narcisse*
- 13 **Mechanism of damage to road embankment caused by tsunamis**
Fujii Hiroyuki, Nobuo Shuto. *Speaker Fujii Hiroyuki*
- 14 **Walking Tours by Use of Tsunami Digital Library (TDL)**
Imai Sayaka, Yoshinari Kanamori, Nobuo Shuto. *Speaker Imai Sayaka*
- 15 **Manifestations of the Indian Ocean tsunami of 2004 in satellite nadir-viewing radar backscatter variations**
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- 16 **An Integrated Numerical Simulation for Tsunami and Seismic Wave Propagation Generated by Subduction-Zone Large Earthquakes**
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- 17 **Tsunami waveform analysis for historical large tsunamis generated by the large earthquakes along the Kurile trench**
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- 18 **Evaluation of real-time simulation at 2006 and 2007 Kuril Islands Tsunami**
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- 19 **Vulnerability of the Argentina coasts to tsunami effects**
Violante Roberto Antonio, Walter Dragani. *Speaker Violante Roberto Antonio*
- 20 **South Java tsunami reconnaissance**
Power William, Stefan Reese, Jim Cousins, Neville Palmer, Iwan Tejakusuma, Saleh Nugrahadhi. *Speaker Power William*
- 21 **Revision and update of the tsunami database for New Zealand**
Downes Gaye, Willem P. De Lange. *Speaker Downes Gaye*
- 22 **Applicability of high-precision topographic model for tsunami simulation**
Murashima Yoichi, Fumihiko Imamura, Shunichi Koshimura. *Speaker Murashima Yoichi*
- 23 **Application of Ocean Bottom Tsunami Gauge Data for Real-Time Tsunami Forecasting**
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- 24 **Study on behavior of drifting bodies due to tsunami and its numerical simulation using EDEM**
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- 25 **Precise algorithm for tsunami wave rays and travel-time computations**
Marchuk Andrey. *Speaker Marchuk Andrey*
- 26 **Comprehensive analysis of the bathymetric data for the North Pacific**
Marchuk Andrey, Anatoly Bezhaev. *Speaker Marchuk Andrey*
- 27 **Historical and holocene paleotsunami deposits on Minor Kurile Arc**
Nadya Razzhigaeva, Larissa Ganzey, Tatiana Grebennikova, Andrey Kharlamov, Alexander Ya. Ilev. *Speaker Nadya Razzhigaeva*
- 28 **Pointwise and distributed reflection of long waves from a beach**
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- 29 **Tsunamigenic potential of recently mapped submarine mass movements offshore eastern Sicily (Italy): numerical simulations and implications for the 1693 tsunami**
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- 30 **Assessing vulnerability to tsunami: a pilot study in Seaside, Oregon**
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- 31 **Tsunami modelling along Morocco atlantic coast preliminary results**
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- 33 **Micropaleontological analysis of 2004 Indian Ocean Tsunami sediments**
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- 34 **Tsunami detection by wavelet analysis of DART records**
Morozov Victor. *Speaker Morozov Victor*
- 35 **Numerical experiment of the oil spread caused by the 1964 Niigata Earthquake Tsunami**
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- 36 **The implications of non-linearity and dispersion in a tsunami scenario database**
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- 38 **Estimation of Slip Deficit Distribution on the Subducting Plate Interface**
Ochi Tadafumi, Teruyuki Kato.
- 39 **Seismotectonic Deformation of the Central Tien Shan**
Sycheva Nailia, Bogomolov Leonid Mihaylovich, Kostuk Alexander Dmitrievich, Yunga Sergey Lvovich.
- 40 **Quasi-static analysis of strike fault growth in layered media**
Kame Nobuki, Shuji Saito.
- 41 **Seismic quiescence before Wenan M5.1 earthquake near Beijing in 2006**
Zhang Yongxian.
- 42 **STudy of crust in North-Eastern Iran using earthquake data inversion**
Abd Etedal Mahsa, Mohammad Reza Gheitanchi.
- 43 **Dynamic characteristics of geophysical time-series from the long term observations in seismically active region**
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- 44 **An examination of seismic quiescence based on the brittle-ductile interaction hypothesis**
Sugaya Katsunori, Yoshihiro Hiramatsu, Muneyoshi Furumoto, Hiroshi Katao.
- 45 **A tectonomagnetic method for determining the level of seismic hazard**
Odintsov Sergey, Samvel Oganessian.
- 46 **A few new anomalies of the seismic regime revealed in the vicinity of strong earthquakes possible physical nature and the connection with the possibility of probabilistic and deterministic prognosis of strong earthquakes**
Rodkin Mikhail.
- 47 **Source process of the 8th October 2005 earthquake in Pakistan**
Tahernai Nadia, Mohammad Reza Gheitanchi.
- 48 **The 2004 earthquake offshore of the Kii peninsula, Japan: hypocentral relocation, source process and tectonic implication**
Bai Ling, Ichiro Kawasaki.
- 49 **Long-term earthquake prediction for the Kuril-Kamchatka Arc for 2006-2011 and successful prediction for the Middle Kuril Island earthquake, 15.XI.2006, Ms=8.2**
Chernyshev Sergey, Alexey Solomatin.
- 50 **Ground heta flux (GHF) as precursors to seismic events**
Rezapour Nafiseh, Dr. Morteza Fattahi, Dr. Abbasalli Aliakbari Bidokhti.
- 51 **Use of empirical mode decomposition method for identification of earthquake and explosion records**
Mehrabian Shayesteh, Ahmad Amini.
- 52 **Stick-slip instability analysis and stress evaluation by using the node-to-point contact element strategy**
Mehrabian Shayesteh, Ahmad Amini.
- 53 **Anomalies of seismic regime of western Himalaya**
Ponomarev Alexander, Arora B., Smirnov V., Zavyalov A., Chabak S., Kumar N.
- 54 **Geomagnetic anomalies associated with earthquakes**
Pour Beyranvand Shahrokh.
- 55 **Simultaneous Multiple Seismic Event: Koryakia Earthquake M7.6, Eastern Russia On April 20, 2006**
Ishihara Yasushi.
- 56 **Quantitative earthquake prediction: twenty years of real-time application and testing**
Kossobokov Vladimir.

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- 58 **Investigation on static stress interaction among the 1930 Irpina Earthquake and other large events in Southern Apennines (Italy)**
Perniola Bruna, Umberto Fracassi, Barbara Palombo, Nicola Alessandro Pino.
- 59 **Analysis of Combined Triggering Factors as a Basis for Earthquake Prediction and Control**
Novikov Victor.

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- 60 **An East-West Profile of Crustal Thickness and (Vp/Vs) ratios**
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- 61 **Complex model of tectonic evolution of the earth crust structural blocks and radioactive waste disposals locations**
Victor Tatarinov, Belov. S.V., Gvishiani A.D., Kamnev E.N., Morozov V.N., Kolesnikov I.Y.. *Speaker Gvishiani A.D.*
- 62 **Interesting results found by continuous observation of strain and in-situ stress measurements in the vicinity of an active fault**
Ishii Hiroshi, Tsuneo Yamauchi, Yasuhiro Asai, Shigeo Matsumoto, Atsushi Mukai. *Speaker Ishii Hiroshi*
- 63 **Seismic anisotropy and its relation with faults and stress field in the Val d' Agri (Southern Italy).**
Pastori Marina, Lucia Margheriti, Davide Piccinini, Lauro Chiaraluce, Luisa Valoroso, Luigi Improta, Claudio Chiarabba. *Speaker Pastori Marina*
- 64 **A fine structure of P-wave velocity along the Atotsugawa fault, central Japan**
Iidaka Takashi, Aitaro Kato, Eiji Kurashimo, Takaya Iwasaki, Naoshi Hirata, Hiroshi Katao, Issei Hirose, Hiroki Miyamachi. *Speaker Iidaka Takashi*
- 65 **Particularities of mechanic-electrical transformation in tectonically active non-contact faults containing ores.**
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- 66 **Gravity anomaly in and around the focal area of 2004 Rumoi-Nanbu earthquake: relationship between high Bouguer anomalies and the shallow earthquake**
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- 68 **Shallow crustal seismicity, magnitudes and focal mechanisms in the giudicarie belt (eastern Alps, Italy)**
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- 69 **Magnetotelluric studies over the Andaman Islands, India**
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- 70 **Aftershock activities of the recent moderate earthquakes in southern Marmara REGION**
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- 71 **A microseismic study in the NE Alps: the Alpago-Cansiglio experiment**
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- 72 **Integrated Research Project for Active Fault System along Itoigawa-Shizuka Tectonic Line**
Iwasaki Takaya, Research Group For Active Fault System Along Itoi. *Speaker Research Group For Active Fault System Along Itoi*
- 73 **An active fault as imaged by ground penetrating radar investigation**
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- 74 **Seismic reflection constraints on the seismogenic layer thickness of the Umbria-Marche Apennines of Italy**
Mirabella Francesco, Massimiliano Barchi, Eusebio Stucchi, Maria Grazia Ciaccio. *Speaker Mirabella Francesco*
- 75 **Background seismicity in the Lucanian Apennines (Southern Italy) recorded by a dense temporary seismic network installed in the Val d'Agri area**
Valoroso Luisa, Lauro Chiaraluce, Pasquale De Gori, Paolo Di Bartolomeo, Raffaele Di Stefano, Luigi Ferranti, Aladino Govoni, Luigi Improta, Milena Moretti, Marco Romanelli, Claudio Chiarabba. *Speaker Valoroso Luisa*
- 76 **Imaging active faults in slow deformation zones by geoelectromagnetic methods**
Queralt Pilar, Beatriz Benjumea, Juanjo Ledo, Mireia Garreta, Miquel Coll, Anna Marti, Anna Gabs, Ester Falgs, Alex Marcuello, Eullia Masana, Ximena Moreno, Hector Perea, Maria Ortuó, Pere Santanch. *Speaker Queralt Pilar*
- 77 **Geodynamics of North Europe and North Atlantic Region**
Vidyakina Svetlana. *Speaker Vidyakina Svetlana*

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- 78 **Comparison of profiles of volumetric water content in three fault zones retrieved from the Hole-B of TCDP and its implication**
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- 79 **Multi-component observations in deep boreholes (Deeper than 1 KM) operated by Tono Research Institute of Earthquake Science (TRIES) - It's outstanding observation power and some interesting results -**
Ishii Hiroshi, Yasuhiro Asai, Makoto Ohkubo, Tsuneo Yamauchi, Harumi Aoki. *Speaker Ishii Hiroshi*
- 80 **Log Data and Borehole Image Analysis of Hole-B, Taiwan Chelungpu-fault Drilling Project**
Yeh En-Chao, Philippe Gaillot, Kyaw Thu Moe, Weiren Lin, Yun-Hao Wu, Hisao Ito, Sheng-Rong Song. *Speaker Yeh En-Chao*

SW004 Modernizing ISC procedures: model evaluation and magnitudes
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- 82 **Earthquake relocation of China Continent and vicinity during the period of January to October 2004**
Sun Ruomei, Ruifeng Liu, Zongliang Wu. *Speaker Sun Ruomei*
- 83 **Comparison of ISC seismic event locations with data of Polish mining industry.**
Kowalski Przemyslaw, Pawel Wiejacz Phd. *Speaker Kowalski Przemyslaw*
- 84 **Comparisons between location features of ISC(using JB & AK135 models) and IRSC for seismic events in Iran**
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- 85 **Comparison of the regional earthquake parameters in Russia for estimate modernizing ISC procedures.**
Gabsatarova Irina. *Speaker Gabsatarova Irina*
- 86 **Evaluation of ISC JB and ISC AK135 bulletINS for Turkey**
Meral Ozel Nurcan, Dogan Kalafat, KiVanc Kekovalı. *Speaker Meral Ozel Nurcan*
- 87 **Testing the AK135 model for locating seismic events in the wider Fennoscandia-European Arctic Region**
Schweitzer Johannes, Berit Paulsen. *Speaker Schweitzer Johannes*
- 88 **Analysis of station travel times residuals based on the AK135 velocity model and phase weighting scheme in location procedures**
Vera Beatriz, James Harris. *Speaker Vera Beatriz*
- 89 **Assessment of the ISC JB and AK135 locations in the NW of South America**
Benjumea Cadavid Juan Manuel, Hanjurgem Meyer. *Speaker Benjumea Cadavid Juan Manuel*
- 90 **Seismicity Along the Alaska-Aleutian Arc: Case studies for Model Evaluation**
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- 91 **ISC bulletin with AK-135 velocity model for earthquakes in the Levant and East Mediterranean region with application to advanced location techniques**
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- 92 **Assessing ISC locations using the data of Iranian National Broadband Seismic Network (INSN)**
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- 93 **The Comparison between the ISC Bulletin and the CWB Catalog for Earthquakes Occurred in the Taiwan Region**
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- 94 **Comparing the AK135 model with the ISC J-B model for central american earthquakes locations**
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- 95 **Modernizing the ISC Procedures: Model Evaluation for the Italian region**
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- 97 **Relocating ISC bulletin events with AK135**
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- 98 **Comparison of hypocenters determined using Jeffreys-Bullen and AK135 velocity models for earthquakes in Japan**
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- 99 **ISC localization using JB and AK135 velocity models: A comparison in the Andean Region between latitudes from 19°S to 45°S**
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- 100 **Relocation of earthquakes off the west coast of British Columbia, Canada using processing routines at the International Seismological Centre and various travel time tables**
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Kwiatek Grzegorz, Wojciech DeBski. *Speaker Kwiatek Grzegorz*
- 103 **The ways of decreasing the mining-induced seismicity in deep open pits**
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- 104 **Low energy microseismological emission as source of information about rock mass condition in tremor occurrence time estimation.**
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- 105 **Specifics of the mining-induced seismicity in the Khibiny massif**
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- 105 **Induced seismicity monitoring of an underground salt cavity under a controlled pressure excitation**

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- 107 Gholami Vahid, Nasrollah Kamalian, Ali Safepour. *Speaker Gholami Vahid*
Can't groundwater level be induced by shear waves?
- 108 Fu-Qiong Huang, Chen Yong, Yu Sheng, Wong Teng-Fong. *Speaker Fu-Qiong Huang*
Relocation of mining induced seismic events occurred in upper Silesian coal mine district (Poland)
- 109 Rudzinski Lukasz. *Speaker Rudzinski Lukasz*
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- 110 Godano Maxime, Marc Regnier, Anne Deschamps, Thomas Bardainne. *Speaker Godano Maxime*
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- 113 **1996-1998 Glacier surge at Northeastern active crater of Mutnovsky Volcano, Kamchatka: possible trigger factor of 17 March 2000 eruption**
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- 114 **Historical analysis and stratigraphy of the post-XII Century pyroclastic activity at Cotopaxi Volcano, Ecuador: implications for Lahar hazard assessment.**
Pistolesi Marco, Mauro Rosi, Raffaello Cioni, Katharine V. Cashman, Eduardo Aguilera. *Speaker Pistolesi Marco*
- 115 **Past modulations of global volcanic activity inferred from the EPICA Dome C (Antarctica) ice core sulfate record.**
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- 116 **Can Persistent sustained Short Period Seismic Excitation Suppress the Eruptive Activity of a Strombolian Volcano?**
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- VS002 Submarine volcanism: eruption processes, transport mechanisms and links with hydrothermal systems**
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Kalangutkar Niyati, Dr Sridhar D. Iyer, Dr V.M. Matta. *Speaker Kalangutkar Niyati*
- 118 **Giant pumice: unique highly vesicular coarse clasts erupted from submerged silicic domes**
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- 120 **The Nyiragongo Volcano eruptions in the Virunga Region, Western Rift Valley, D.R. Congo**
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- 121 **Modelling of laboratory ash flows**
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- 122 **High-Speed Video Analysis of Laboratory Ash Flows**
Laurence Girolami, Thomas Corpetti, Olivier Roche, Tim Druitt. *Speaker Laurence Girolami*
- 123 **Petrogenetic Significance of the Igneous Intrusives from the Gondwana Coal fields of Damodar Basin, Eastern India.**
Nag Kaustav. *Speaker Nag Kaustav*
- 124 **Tracks of the middle triassic Pietra Verde calderas southern Alps/N Dinarides**
Obenholzner Johannes. *Speaker Obenholzner Johannes*
- 125 **Kinematic Features of Isolated Volcanic Clouds Revealed by Video-records**
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- 126 **Fluidization of granular mixtures in a rotatory drum with implication on pyroclastic flows**
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- 127 **Compositional variations and groundmass crystallization of Miocene Lovejoy Basalts, Northern California.**
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- 128 **Vesicle growth during vulcanian explosions of Soufriere Hills Volcano, Montserrat, 1997.**
Thomas Giachetti, Timothy H. Druitt, Laurent Arbaret. *Speaker Thomas Giachetti*
- 129 **P-T Dependence of viscosity of hydrous rhyolitic melt**
Ardia Paola, Daniele Giordano, Max W. Schmidt. *Speaker Ardia Paola*
- 130 **The evolution and geochemical aspects of megaporphyritic basic- intermediate lava in Azerbaijan, Iran**
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- 131 **Archaeological, volcanological and rock-magnetic investigation on the impact of pyroclastic density currents on Bronze age settlements around Somma-Vesuvius, Italy**
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- 132 **Emplacement dynamics of felsic lava flows from Terceira Island, Azores: a morphological analysis**
Pimentel Adriano, Steve Sparks, Jos Pacheco. *Speaker Pimentel Adriano*
- 133 **The July 17th 1999 block and ash flow and July 18th Lahar at Colima Volcano: a reological model.**
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- VS006 Calderas I - Calderas and resurgent calderas**
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Aiello Gemma, Marsella Ennio, Ruggieri Stefano. *Speaker Aiello Gemma*
- 135 **Three dimensional magneto-seismic reconstruction of the Torre del Greco submerged volcanic structure: evidences of the seaward elongment of the Somma-Vesuvius volcanic complex**
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- 136 **A quantitative study for the reconstruction of the Mercato eruption (8.000 yr B.P.) of somma-Vesuvius.**
Mele Daniela. *Speaker Mele Daniela*
- 137 **A new giant caldera of Kamchatka, Russia: boundary, structure and pyroclastic volume**
Vladimir Leonov. *Speaker Vladimir Leonov*
- 138 **Ground deformation at Crater Rim of Vulcano (Aeolian Archipelago, Italy): gravity sliding or thermal expansion?**
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- 139 **Seismic images and rock properties of the very shallow structure of Campi Flegrei caldera (southern Italy)**
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- 140 **Analysis of PS-TO-PP amplitude ratios for seismic reflector characterisation in a volcanic region**
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- VS011 Modeling and simulation of volcanic related phenomena for hazard mitigation**
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- 141 **Unified view of numerical simulation method for debris/bed-load laden flow and landslide movement**
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- 142 **Tephra hazard analyses incorporating potential multi-stage volcanic events**
Jenkins Susanna, Christina Magill, John Mcaneney, Tony Hurst. *Speaker Jenkins Susanna*

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- 2 **Finite Fault Modelling of Tsunamiogenic Earthquakes in Australasia using Seismic and Sea Level Data**
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- 3 **Tsunami Risk in the Northern Bay of Bengal**
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- 4 **Constraints on the source of the 20th February 1743 tsunamigenic earthquake in Apulia, Italy, from numerical tsunami modelling and geological evidences**
Armigliato Alberto, Stefano Tinti, Giuseppe Mastronuzzi, Paolo Sans, Gianluca Pagnoni. *Speaker Armigliato Alberto*
- 5 **Physical Simulation of Drain Mechanism of Tsunami Generation**
Korolev Pavel, Boris Levin. *Speaker Korolev Pavel*
- 6 **How very-high resolution 3D DEM contribute to quantitative tsunami damage forecast: the study case of Sri Lanka**
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- 7 **Numerical simulation of tsunamis around Shanghai on the East China Sea Coast Due To Great Nankai, Japan, earthquakes**
Harada Tomoya, Katsuhiko Ishibashi. *Speaker Harada Tomoya*
- 8 **Modelling Tsunami Inundation in the Gulf of Cadiz - Preliminary Results**
Lima Vnia, J M Miranda, M.A. Baptista, M. Olabrieta, L.Otero, P M M Soares, M Gonzalez, E Carreno. *Speaker Lima Vnia*
- 9 **Tsunami hazard estimation for the southern Kuril Island coast**
Kaystrenko Victor. *Speaker Kaystrenko Victor*
- 10 **Numerical analysis of tsunami caused by seabed deformation**
Ogasawara Toshinori, Shigeki Sakai, Akifumi Wakamatsu. *Speaker Ogasawara Toshinori*
- 11 **Rupture Process of the California Earthquake of 18 April 1906 from (near-field) Tsunami Waveform Inversion**
Lorito Stefano, Alessio Piatanesi, Anthony Lomax. *Speaker Lorito Stefano*
- 12 **Seismic and Tsunami Monitoring in the Puerto Rico and Caribbean Region**
Mercado-Irizarry Aurelio, Christa Von Hillebrandt-Andrade, Victor Huerfano. *Speaker Mercado-Irizarry Aurelio*
- 13 **Global Tsunami Deposits Dtabase**
Brocko Vinita Ruth, Paula K. Dunbar. *Speaker Paula K. Dunbar*
- 14 **Analytical solution for long wave directivity**
Kanoglu Utku, Vasily Titov, Baran AydiN, Costas Synolakis. *Speaker Baran AydiN*
- 15 **Study on the effect of coastal forest against tsunami, Case study on 2006 JAVA Tsunami around Pngandaran, Indonesia**
Harada Kenji, Aditya Riadi Gusman, Hamzah Latief, Yuichi Nishimura, Yoshiaki Kawata. *Speaker Harada Kenji*
- 16 **Tsunami modeling; trends, needs, achievements and benefits**
Yalciner Ahmet Cevdet. *Speaker Yalciner Ahmet Cevdet*
- 17 **The tsunami of Djidjelli (Eastern Algeria) of August 22 th, 1856: the seismotectonic context and its modelling**
Abdelkarim Yelles-Chaouche, J. Dverchre, A. Domzig, B. Mercier De Lpinay, N. Babonneau, H. Hbert, J.Roger, A. Kherroubi, D. Graindorge, R. Bracne, A. Cattaneo, V.Gaullier, B. Savoye, P. Leroy, R. Ait Ouali. *Speaker Abdelkarim Yelles-Chaouche*
- 18 **Distribution of run-up heights of the tsunami of the South off Central Java earthquake of July 17th, 2006**
Tsuji Yoshinobu, Seh-Sub Han, Fachrizal, Indra Gunawan, Teruyuki Kato. *Speaker Tsuji Yoshinobu*
- 19 **Mechanism of the Totomi-Oki earthquake of the November 7, 1855**
Tsuji Yoshinobu, Yuichi Namegaya, Yoshikane Murakami. *Speaker Tsuji Yoshinobu*
- 20 **Miocene conglomerates formed by Huge tsunami**
Tachibana Toru, Yoshinobu Tsuji, Yuichi Namegaya. *Speaker Tachibana Toru*
- 21 **Large Scale Landslide Tsunami Experiments**
Fritz Hermann, Fahad Mohammed, Jeseon Yoo. *Speaker Fahad Mohammed*
- 22 **Field survey reveals extreme runup of the 17 July 2006 Java tsunami**
Fritz Hermann, W. Kongko, A. Moore, B. Mcadoo, J. Goff, C. Harbitz, B. Uslu, N. Kalligeris, V. Titov, C. Synolakis. *Speaker C. Synolakis*
- 23 **Development of high-resolution coastal digital elevation models for the U.S.: seamlessly integrating bathymetric and topographic data to support tsunami forecasting and modeling efforts**
Taylor Lisa, Barry W. Eakins. *Speaker Taylor Lisa*
- 24 **Ocean data and information network for Africa (ODINAFRICA) sea level data facility**
Odido Mika. *Speaker Odido Mika*
- 25 **Tsunami disaster prevention Management in Iwate Prefecture, Japan**
Yoshida Kenichi, Shigeki Sakai, Toshinori Ogasawara, Koshiya Shin, Tomoko Yamazaki, Nobuo Shuto, Takashi Furukawa, Tsutomu Mikami. *Speaker Yoshida Kenichi*
- 26 **Distribution of asperities of the 1854 Ansei Nankai earthquake**
Namegaya Yuichi, Yoshinobu Tsuji. *Speaker Namegaya Yuichi*
- 27 **Potential landslide tsunami waves offshore Ischia island, (Italy).**
Chiara Biscarini, Silvia Di Francesco, Crescenzo Violante

JSS003 Early-Warning Systems

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- 27 **New Approaches to Coastal Zone Hazard Early Warning Systems**
Kontar Evgeny. *Speaker Kontar Evgeny*
- 28 **Early-Warning Mapping for cavities in abandoned subsurface mines**
Palchik Vyacheslav. *Speaker Palchik Vyacheslav*
- 29 **Millimetric ground movements from space radars: European Space Agency's GMES TERRAFIRMA PROJECT**
Browitt Chris, Alice Walker. *Speaker Browitt Chris*
- 30 **An experimental model of data receiver for gravitational disturbance research and earthquake prediction with 3 to 16 days forecasting**
Egorov Nikolay, Valeriy Smirnov, Boris Bogdanovich. *Speaker Valeriy Smirnov*
- 31 **Anisotropy of high-frequency geoaoustic emission at different stages of seismic event preparation**
Marapulets Yury, Anatoly Kuptsov, Igor Larionov, Mihail Mischenko, Albert Sherbina, Valery Gordienko. *Speaker Marapulets Yury*
- 32 **Development of structural features for earthquake early warning systems**
Antonyan Alvaro. *Speaker Antonyan Alvaro*
- 33 **Can the offshore pressure sensors contribute to early tsunami warning system?**
Matsumoto Hiroyuki, Hitoshi Mikada, Kenichi Asakawa, Katsuyoshi Kawaguchi. *Speaker Matsumoto Hiroyuki*
- 34 **Storm surges/Wave Operational Ocean Model in KMA**
You Sung Hyup, Sangwook Park, Jang-Won Seo. *Speaker You Sung Hyup*
- 35 **Earlywarning system for risk mitigation due to the landslides triggered by seismic activity**
Stanica Dumitru, Maria Stanica, Constantin Diacopolos. *Speaker Stanica Dumitru*
- 36 **New seismic system for acquisition and analysis in Israel**
Pinsky Vladimir, Andrei Polozov, David Kadush, Veronic Avirav, Abraham Hofstetter,. *Speaker Pinsky Vladimir*
- 37 **Real time sea level data transmission from tide gauges for tsunami monitoring**
Holgate Simon, Peter Foden, Jeff Pugh, Philip Woodworth. *Speaker Holgate Simon*
- 38 **CUSCO base meridian for the study of geophysical data**
Chavez_campos Teodosio, Israel Chavez Sumarriva, Nadia Chavez Sumarriva, Liliana Sumarriva Bustinza. *Speaker Chavez_campos Teodosio*
- 39 **Toward an integrated early-warning system in Serbia**
Labak Peter, Slavica Radovanovic, Erik Bystricky, Andrej Cipciar. *Speaker Labak Peter*
- 40 **Reliability of automatic location procedures in north - western Italy**
Turino Chiara, Scafidi Davide, Morasca Paola, Ferretti Gabriele, Spallarossa Daniele. *Speaker Turino Chiara*
- 41 **4D geoelectrical tomography as a tool for real-time landslide monitoring: a test-bed in southern Italy**
Gerardo Colangelo, Aniello Vietro, Giuseppe Basile, Vincenzo Lapenna, Antonio Loperte, Angela Perrone, Antonio Satriani, Luciano Telesca, Giovanni Calice, Nicola Pergola, Valerio Tramutoli. *Speaker Gerardo Colangelo*
- 42 **Robust Satellites Techniques for oil spill detection and monitoring**
Casciello Daniele, Pergola Nicola, Tramutoli Valerio, Lacava Teodosio. *Speaker Casciello Daniele*

JSS004 Non-instrumental seismometry - Quantification of past and future earthquakes: balancing the geological, historical and contemporary strain records

Conveners: Valensise Gianluca
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- 43 **Where are all the young faults scarps in eastern Canada?**
Adams John. *Speaker Adams John*
- 44 **Variation of slip velocity of repeating earthquakes and its dependence on focal depths**
Ariyoshi Keisuke, Toru Matsuzawa, Ryota Hino, Akira Hasegawa, Yoshiyuki Kaneda. *Speaker Ariyoshi Keisuke*
- 45 **GPS-geodetic monitoring of the South West Seismic Zone (SWSZ) of western Australia: progress after two observation epochs in 2002 and 2006**
Leonard Mark. *Speaker Leonard Mark*

JSS005 Non-instrumental seismometry - Global and regional parameters of paleoseismology; implications for fault scaling and future earthquake hazard

Conveners: De Martini Paolo Marco, Masana Eullia, Hecker Suzanne, Beryman Kelvin, Schwartz David, Valensise Gianluca, Pantosti Daniela
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- 46 **Paleoseismic features as indicators of earthquake hazards in Iran**
Abd Etedal Mahsa, Giuseppe Delfino. *Speaker Abd Etedal Mahsa*
- 47 **Seismicity investigation of Shiraz Region with remote sensing and GIS**
Nemati Azam. *Speaker Nemati Azam*
- 48 **Magnitude versus faults surface parameters: quantitative relationships from the Aegean Region.**
Caputo Riccardo, Pavlides S.. *Speaker Pavlides S.*
- 49 **Reconciling neotectonic and seismic recurrence rates in SW Australia**
Leonard Mark, Dan Clark. *Speaker Leonard Mark*

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- 50 **Scaling source dimension of the Mw 6.7 JUNE 5, 1688 Sannio southern-Apennines earthquake, using geophysical, geological and morphometrical data**
Nappi Rosa, Alessio Giuliana, Bellucci Sessa Eliana, Vilardo Giuseppe, Pierfrancesco Burrato. *Speaker Nappi Rosa*
- JSS006 Non-instrumental seismometry - New Approaches to Paleoseismology and Earthquake Recurrence in the 21st Century**
Conveners: Masana Eullia, Schwartz David, Valensise Gianluca, Gutierrez Francisco, Pantosti Daniela
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- 51 **Complex holocene deformation in the Lower Tagus Valley, Portugal, with probable tectonic origin**
Fonseca Joao, Susana Pires Vilanova, Pedro Costa, Sandra Heleno, Vittorio Bosi. *Speaker Fonseca Joao*
- 52 **Identifying active faults and obtaining their seismic parameters in low strain zones: The northwester margin or the Valencia trough**
Perea Hector, Eullia Masana, Pere Santanach. *Speaker Perea Hector*
- 53 **Liquefaction induced deformation in sediment column and their significance in paleoseismic studies: Examples from India**
Pandey Prabha, Anand Kumar Pandey. *Speaker Pandey Prabha*
- 54 **Ground penetrating radar for archeoseismological investigations - a case study from Baelo Claudia, Southern Spain**
Gruetzner Christoph, Klaus Reicherter, Pablo G. Silva. *Speaker Gruetzner Christoph*
- 55 **Paleoseismology in Iran; aims, previous record and future panorama**
Babaie Mahani Alireza, Shayesteh Mehrabian, Majid Bagheri. *Speaker Babaie Mahani Alireza*
- 56 **Applying Different Techniques in Studying an Active Strike-slip Fault; Example of a Seismotectonic Study in the Southern Alps, NW Slovenia**
Kastelic Vanja, Jure Bajc, Mladen Ivčić. *Speaker Kastelic Vanja*
- 57 **Sedimentological imprint of past earthquakes in the Algerian margin from slump and turbidite record (Maradja Project)**
Babonneau Nathalie, Nathalie Babonneau, Antonio Cattaneo, Jacques Dverchre, Bruno Savoye, Karim Yelles, Gabriela Dan, Anne Domzig, Pierre Giresse, Rachid Matougui, Bernard Mercier De Lpinay, Henri Pauc, Virginie Gaullier, Faouzi Djadid. *Speaker Babonneau Nathalie*
- 58 **A fresh fault scarp identified in an urban district by LiDAR survey: A case study on the Itoigawa-Shizuoka Tectonic Line, central Japan**
Kondo Hisao, Shinji Toda, Koji Okumura, Keita Takada, Tatsuro Chiba. *Speaker Kondo Hisao*
- 59 **NEotectonic derived models for crustal deformation in a stable continental region setting: insight from the Southwest Of western Australia.**
Leonard Mark, Dan Clark. *Speaker Leonard Mark*
- 60 **Rupture characteristics and deformation partitioning in the Himalayan front of NW Himalaya: evidence from a post 1335 AD earthquake**
Pandey Anand, Prabha Pandey, G.D. Singh, G.V. Ravi Prasad, K. Dutta, D. K. Ray, Madhukar Milki. *Speaker Pandey Anand*
- 61 **Evidence of recent activity along the offshore Carboneras fault (SE Iberian margin) based on high-resolution acoustic and seismic imaging**
Moreno Ximena, Eullia Garcia, Eullia Masana, Rafael Bartolom, Graziella Bozzano, Eduardo Rubio, David Casas, Claudio Lo Iacono, Alessandra Asioli, Klaus Reicherter, Juan Jos Daobeitia, Pere Santanach. *Speaker Moreno Ximena*
- 62 **In search of tsunami deposits along the eastern coast of Sicily (Italy)**
Smedile Alessandra, Maria Serafina Barbano, Paolo Marco De Martini, Daniela Pantosti, Paola Del Carlo, Flavia Gerardi, Pierpaolo Guarnieri, Claudia Pirrotta, Mario Cosentino. *Speaker Smedile Alessandra*
- 63 **Tbilisi fault, its forming and seismic activity of Tbilisi environs**
Tsamalashvili Tamari. *Speaker Tsamalashvili Tamari*
- 64 **First paleoseismological evidence at the Plio-Quaternary Murbrega Half-graben (Iberian Chain, NE Spain)**
Gutierrez Francisco, Eullia Masana, Lvaro Gonzalez, Jess Guerrero, Pedro Lucha. *Speaker Eullia Masana*
- 65 **Earthquake recurrence of the DZCE fault (North Anatolian Fault Zone): integrating geomorphological and paleoseismological analyses**
Pucci Stefano, Daniela Pantosti, Paolo Marco De Martini, Giuliana D'Addezio, Nikolaos Palyvos, Phil E.F. Collins, Cengiz Zabci. *Speaker Pucci Stefano*
- 66 **Ground Based Imaging Spectroscopy and Supervised Classification algorithms. New tools for the 21st century earthquake geologist.**
Ragona Daniel, Tom Rockwell, Bernard Minster. *Speaker Ragona Daniel*
- SS004 Earthquake Hazard, Risk, and Strong Ground Motion - Estimation of strong ground motion**
Conveners: Douglas John
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- 67 **Azimuth-dependent attenuation relations for the intermediate depth Vrancea (Romania) earthquakes based on Fourier amplitude spectra**
Sokolov Vladimir, Klaus-Peter Bonjer, Friedemann Wenzel, Mircea Radulian, Bogdan Grecu. *Speaker Sokolov Vladimir*
- 68 **Analysis of two methods for instrumental intensity estimations using the database accumulated in Japan**
Sokolov Vladimir, Takashi Furumura. *Speaker Sokolov Vladimir*
- 69 **Probabilistic seismic hazard assessment in Romania: application for crustal seismic active zones**
Iren-Adelina Moldovan, Emilia Popescu, Angela Constantin. *Speaker Iren-Adelina Moldovan*
- 70 **Assessment of Strong ground Motions Using the Empirical Greens Function for the 31 March 2006 Silakhor, SW Iran, Earthquake**
Vasheghani Farahani Jamileh, Mehdi Zare. *Speaker Vasheghani Farahani Jamileh*
- 71 **Investigation of frequency content and Stress drop based Accelerometric records in Zagros Belt of Iran**
Vasheghani Farahani Jamileh, Mehdi Zare. *Speaker Vasheghani Farahani Jamileh*
- 72 **Estimation of Ground Motion and Early Warning in Strait of Hormoz (Southern Iran)**
Eshaghi Attieh, Prof. Mohamadreza Gheyntanchi, Javad Kazemiyani. *Speaker Eshaghi Attieh*
- 73 **Attenuation relations for maximum acceleration produced by vrancea intermediate, moderate earthquakes**
Popescu Emilia, Carmen O. Cioflan, Mircea Radulian. *Speaker Popescu Emilia*
- 74 **Models of Nonlinear Soil Behavior during the 1999 Chi-Chi, Taiwan, Earthquake Based on Stochastic Finite-Fault Simulations**
Pavlenko Olga, Kuo-Liang Wen. *Speaker Pavlenko Olga*
- 75 **Stochastic strong ground motion simulation of the 28 December 1908 M7.0 Messina (Sicily) earthquake: investigating different source scenarios**
Tafaro Francesco, Zafeiria Roumelioti, Christoforos Benetatos, Anastasia Kiratzi, Antonio Bottari, Giancarlo Neri. *Speaker Tafaro Francesco*
- 76 **Examination of source model construction methodologies for multi-segment-coupling ruptures in long active fault zone**
Kuriyama Masayuki, Tomotaka Iwata, Takashi Kumamoto. *Speaker Kuriyama Masayuki*
- 77 **Estimation on the peak ground acceleration**
Chen Kuang-Jung, Jee-Shiang Wang. *Speaker Jee-Shiang Wang*
- 78 **Properties of response spectra**
Aptikaev Feliks, Olga Erteleva, Maria Sacks. *Speaker Aptikaev Feliks*
- 79 **Soil Amplification by Using Strong Ground Motions Recorded by Different Geological Conditions in Marmara Region in Turkey**
Ulutas Ergin, Mithat Firat Ozer. *Speaker Ulutas Ergin*
- SW005 Reference Events for Improved Locations**
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- 80 **Advances in earthquake location and seismogenic fault detection in critical network conditions**
Presti Debora, Barbara Orecchio, Giuseppe Falcone, Giancarlo Neri. *Speaker Barbara Orecchio*
- JVS004 Volcano seismology**
Conveners: Ripepe Maurizio, Neuberg Jurgen
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- 81 **Seismic activity prior to the recent eruptions of volcano Nyamuragira, Western Rift Valley of Africa**
Tuluka Mavonga, Sadaka K. Kavotha, Mifundu Wafula, Osodundu Etoy, Bizimana K. Rusangiza, Jacques Durieux, Ndontoni Zana. *Speaker Tuluka Mavonga*
- 82 **Volcanogenic deformations and related seismicity --- Pozzuoli, Rabaul and Usu ---**
Yokoyama Izumi, Dr. Giovanna Berrino. *Speaker Yokoyama Izumi*
- 83 **Seismic activity of Ontake volcano, central Japan since December 2006**
Nakamichi Haruhisa, Fumiaki Kimata, Fumihito Yamazaki, Makoto Okubo, Mamoru Yamada, Toshiaki Watanabe, Keiichi Tadokoro, Isao Yamada. *Speaker Nakamichi Haruhisa*
- 84 **Seismic and acoustic signals associated with the 2004 volcanic activity at Mt. Asama, central Japan**
Ohminato Takao. *Speaker Ohminato Takao*
- 85 **Short time scale relationship between SO2 flux and volcanic earthquake spectra: An example from Soufriere Hills Volcano, Montserrat, West Indies**
Jolly Arthur, Steve Sherburn, Gillian Jolly, Philippe Jousset, Venus Bass, Raquel Syers. *Speaker Jolly Arthur*
- 86 **Precise hypocenter determination of earthquakes beneath the summit caldera of Miyakejima Volcano, Japan**
Ueda Hideki, Eisuke Fujita, Motoo Ukawa, Eiji Yamamoto, Tetsuya Jitsufuchi. *Speaker Ueda Hideki*
- 87 **Long-period earthquakes in Bouillante hydrothermal system (Guadeloupe, French Antilles)**
Jousset Philippe, Bernard Chouet. *Speaker Jousset Philippe*
- 88 **Quantitative analysis of Ip signals associated with recent activity of MT. Etna.**
Di Lieto Bellina, Saccorotti Gilberto, Lokmer Ivan, Bean Chris, Scarpa Roberto. *Speaker Di Lieto Bellina*
- 89 **Long Period Seismic Signals Observed before the Caldera Formation during the 2000 Miyake-jima Volcanic Activity**
Kobayashi Tomokazu, Takao Ohminato, Yoshiaki Ida, Eisuke Fujita. *Speaker Kobayashi Tomokazu*
- 90 **b-Value spatial mapping at Mount Etna Volcano (Italy)**
Murru Maura, Rodolfo Console, Giuseppe Falcone, Caterina Montuori, Tiziana SgROI. *Speaker Murru Maura*
- 91 **Noise wavefield analysis in the Vesuvius area from array measurements**
Maresca Rosalba, Lucia Nardone, Danilo Galluzzo, Mario La Rocca, Edoardo Del Pezzo. *Speaker Maresca Rosalba*
- 92 **Analysis of Erebus Volcano and its comparison with Stromboli**
Falanga Mariarosaria, De Lauro Enza, De Martino Salvatore, Palo Mauro. *Speaker Falanga Mariarosaria*
- 93 **Hidden Dykes detected on Ultra Long Period seismic signals**
Houlié Nicolas, Jean-Paul Montagner. *Speaker Houlié Nicolas*
- 94 **Submarine volcanic activity in French Polynesia detected by the BBOBS array**
Ito Aki, Hiroko Sugioka, Daisuke Suetsugu, Hajime Shiohara, Toshihiko Kanazawa, Yoshio Fukao. *Speaker Ito Aki*
- 95 **Nature of low frequency earthquakes observed at Asama volcano: Time variation of wave parameters and hypocenter distribution**
Oikawa Jun, Yoshiaki Ida. *Speaker Oikawa Jun*
- 96 **The Krakatau volcano monitoring system (Indonesia)**
Ibs-von Seht Malte, Rudolf Kniess, Claudia Khler, Arne Hoffmann-Rothe, Klaus Klinge, Eckhard Faber, Christian Reichert, Mas Atje Purbawinata, Hendra Gunawan. *Speaker Ibs-von Seht Malte*

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Silveira Dina, Carsten Riedel, Ari Tryggvason, Nicolau Wallenstein, Jess Ibez. *Speaker Silveira Dina*
- 98 **Relations between volcanoseismicity and geoelectric signal variations in the Timanfaya Volcanic Zone (Lanzarote Island, Canary Islands, Spain) and the island hydrological system**
Carmona Javier, Ramn Ortiz. *Speaker Carmona Javier*
- 99 **Changes in seismic activity at Soufriere Hills Volcano, Montserrat and the increasing importance of rockfall seismicity for eruption monitoring**
De Angelis Silvio, Richard Lockett, Vicky Hards. *Speaker De Angelis Silvio*
- 100 **Seismic characterization of pyroclastic flow activity at Soufriere Hills Volcano, Montserrat on January 08, 2007**
De Angelis Silvio, Vicky Hards. *Speaker De Angelis Silvio*
- 101 **Wavelet analysis related to eruptions of Colima Volcano, Mexico**
Vargas-Bracamontes Dulce, F. Alejandro Nava, Gabriel A. Reyes-Davila. *Speaker Vargas-Bracamontes Dulce*
- 102 **Assessing the factors that impact on the generation of volcano-tectonic earthquakes**
Vargas-Bracamontes Dulce, Jurgen Neuberg. *Speaker Vargas-Bracamontes Dulce*
- VS004 Intraplate monogenetic basaltic and kimberlite volcanic provinces and processes**
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- 103 **Dynamics of kimberlite pipe formation: insights from wall-rock structures and lithic distributions in volcanoclastic kimberlite**
Buse Ben, Prof. Stephen Sparks (Rsj Sparks), Mr Matthew Field. *Speaker Buse Ben*
- 104 **Auckland volcanic field, New Zealand: geophysical characteristics and regional structure**
Locke Corinne, John Cassidy, K. Bernhard Sporli, Jennifer D. Eccles, Helen A. Williams. *Speaker Locke Corinne*
- 105 **Recent Basaltic Vulcanism in the Sierra Chichinautzin near Mexico City Mexico.**
Martin Del Pozzo Ana Lillian, Ramon Espinaza Perea, Susanne Straub. *Speaker Martin Del Pozzo Ana Lillian*
- 106 **Crater-infill at Diavik: facies architecture, textures, volcanic processes and implications**
Moss Stephen. *Speaker Moss Stephen*
- VS007 Calderas II: Calderas and caldera forming eruptions**
Conveners: Scandone Roberto, Ventura Guido, De Astis Gianfilippo
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- 107 **Trachytic magmatic evolution of Talagapa Chico Caldera, Somun Cura Plateau, Patagonia, Argentina**
Nullo Francisco, Corina Risso, Tomas Ganduglia. *Speaker Corina Risso*
- 108 **Variations in eruption styles, transportation and depositional processes and deposit characteristics of the phonolitic, 151 ka Sutri member, caldera-forming eruption, Vico Caldera, Central Italy.**
Bear Adele, Raymond A. F Cas, Guido Giordano. *Speaker Bear Adele*
- 109 **Evolution of a marine caldera-forming eruption, generating a low-aspect ratio pyroclastic flow, 7.3 ka, Kikai caldera, Japan: implication from near-vent eruptive deposits**
Maeno Fukashi, Hiromitsu Taniguchi. *Speaker Maeno Fukashi*
- 110 **Gravity changes and ground deformation on the Island of Nisyros Volcano (Greece) for the period 2001-2006.**
Di Nezza Maria, Michele Di Filippo, Beniamino Toro. *Speaker Di Nezza Maria*
- VS017 Pedagogical and didactical methods in earth science education and geopark concepts in demonstrating volcanic processes**
Conveners: Martin Ulrike
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- 111 **Training to teach: how to plan a didactic unit about volcanic hazard. An experience in the Neapolitan region, Italy.**
De Lucia Maddalena, Maria Rosaria Strollo. *Speaker De Lucia Maddalena*
- 112 **Geodiversity in the East Carpathian Arc; the use of geological sites in education**
Papp Delia cristina, Eugenia Nitoi.
- 113 **Volcanoes from Malarie (Mendoza –Argentina), proposed to promote geotourism**
Risso Corina, Krolly Nmeth, Ulrike Martin.

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JSS015 Crustal structure and Tectonophysics - Large-scale multi-disciplinary programs for continental imaging

Conveners: Thybo Hans

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Geophysical investigations of the Eastern Alpine crust and upper mantle

- 1 Behm Michael, Ewald Brckl, Franz Kohlbeck, Ulrike Mitterbauer, Laszlo Szarka, Alpass Working Group, Hungarian Mt Team. *Speaker Behm Michael*
- 2 P-Wave velocity structures, reflectors and seismic activity from seismic surveys in Kinki district, Southwest Japan
Ito Kiyoshi, Issei Hirose, Yasuhiro Umeda, Hiroshi Sato, Naoshi Hirata, Tanio Ito, Susumu Abe, Taku Kawanaka, Takeshi Ikawa. *Speaker Ito Kiyoshi*
- 3 Crustal structure and stress field for southern Apennines region from local earthquakes
Romeo Annalisa, Giuseppe Pasquale, Raffaella De Matteis, Giovanni Iannaccone, Aldo Zollo. *Speaker Romeo Annalisa*

SS003 Earthquake Hazard, Risk, and Strong Ground Motion - Site effects (and their dependence on source and propagation-path)

Conveners: Furumura Takashi, Bard Pierre-Yves, Fh Donat

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- 4 Sedimentary basin depth estimated by receiver function and VSP methods in the Chiba Area, Japan
Hao Ken, Ken Xian-Sheng Hao, Hiroyuki Fujiwara. *Speaker Ken Xian-Sheng Hao*
- 5 Basement rock in Metro Manila, Philippines inferred using receiver function analyses of strong motion accelerograms
Grutas Rhommel, Hidenori Mogi, Hideji Kawakami. *Speaker Grutas Rhommel*
- 6 Basin and crustal velocity structure model for strong ground motion prediction in Kinki area, SW of Japan
Iwata Tomotaka, Kagawa Takao, Petukhin Anatoly, Onishi Yoshihiro. *Speaker Iwata Tomotaka*
- 7 Ground motion characteristics using ambient noise in Bangalore, India
Davuluri Srinagesh, D V Ramana, Rajender Kumar Chadha, M Sekhar. *Speaker Davuluri Srinagesh*
- 8 Site effect in central Iran, Yazd city.
Eskandari Masume. *Speaker Eskandari Masume*
- 9 Determination of predominant periods of Meridas City soils, from ambient vibrations measurements
Mazuera Fernando, Leonardo Enrique Gonzlez. *Speaker Mazuera Fernando*
- 10 Numerical simulation of long-period strong ground motions in Tomakomai, Hokkaido during the 2003 Tokachi-Oki, Japan, earthquake
Hatayama Ken. *Speaker Hatayama Ken*
- 11 Estimation of site resonance frequency using microtremor records
Gholami Vahid, Nasrollah Kamalian, Mehdi Zare. *Speaker Gholami Vahid*
- 12 Influence of soil conditions on building seismic response application to Angra do Herosmo
Teves-Costa Paula, Idalina Veludo, Pierre-Yves Bard. *Speaker Teves-Costa Paula*
- 13 Seismic vertical array analysis: Phase decomposition for S and surface waves
Yoshida Kunikazu, Tsutomu Sasatani. *Speaker Yoshida Kunikazu*
- 14 Confirmations of 3D basin structure models by long-period ground motion simulation - in case of Osaka basin, western Japan -
Iwaki Asako, Tomotaka Iwata. *Speaker Iwaki Asako*
- 15 Site Response Analysis During the Dec. 26, 2006 Hengchun, Taiwan Earthquake
Wen Kuo-Liang, Che-Min Lin, Hsien-Jen Chiang. *Speaker Wen Kuo-Liang*
- 16 Seismic Microzonation for a Test Area at Mt Etna : The Use of Seismic Noise as a Measure of Ground Truth
Condarelli Daria, Salvatore Grasso, Horst Langer, Michele Maugeri, Domenico Patan. *Speaker Condarelli Daria*
- 17 Working with seismic microzonation: improving methods for subsurface modelling
Quadrio Bruno, Claudia Meisina, Giuseppe Naso. *Speaker Quadrio Bruno*
- 18 Estimations of the S-Wave Velocity Structures at the Tainan Basin, Taiwan, Using the Array Records of Microtremors
Huang Huey-Chu, Jung-Huang Chen. *Speaker Huang Huey-Chu*
- 19 Development of a GIS-based geological-geotechnical model of the Vega Baja (SE Spain) for site effects and microzoning applications
Jimenez Maria-Jose, Alexandre Ribo, Mariano Garcia-Fernandez, Fabrizio Meroni, Atilla Ansal. *Speaker Jimenez Maria-Jose*
- 20 A Detailed Geophysical Study for Disaster Risk Management and Mitigation in a Highly Seismicity Area
Soupios Pantelis, Filippou Vallianatos, John P. Makris, Pantelis Soupios, Vasilios Saltas, Ilias Papadopoulos. *Speaker Filippou Vallianatos*
- 21 Earthquake risk mitigation on mediterranean monumental heritage subjected to local site amplification
Ubertini Filippo, Casciati Sara, Marcellini Alberto. *Speaker Ubertini Filippo*

SS006 Education and Outreach

Conveners: Taber John, Suyehiro Kiyoshi

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- 21 Middle School Seismology; A Study on Authentic Learning and the Use of an AS-1 Seismometer, Google Earth, and Integrated Ocean Drilling Program Data
Cook Jerry, Tavia Prouhet. *Speaker Cook Jerry*
- 22 Geophysics in russian scientific-educational project
Gusev Alexander. *Speaker Gusev Alexander*
- 23 School Seismology in the UK
Denton Paul. *Speaker Denton Paul*

JVS005 The 25 Anniversary of the El Chichn Eruption

Conveners: Rouwet Dmitri

Poster 12 July, 2007 from 06:00 PM to 08:00 PM - Baldeschi Palace Main Hall

Chairpersons: -

- 24 Dynamics of low energy explosive activity at Stromboli volcano (Aeolian Islands, Italy).
Zanon Vittorio, Marco Neri, Emilio Pecora. *Speaker Zanon Vittorio*
- 25 The turbulent shedding mechanism of hydromagmatic fragmentation: physical evidence from Kilauea volcano, Hawaii
Mastin Larry, Oliver Spieler. *Speaker Mastin Larry*
- 26 Morphoscopy of pyroclasts (optical and SEM approach) as a tool in magma-water interaction understanding: a case study from Puig de La Garrinada Volcano, Olot (NE Spain)
Gisbert Guillem, Domingo Gimeno. *Speaker Gisbert Guillem*
- 27 Interactions between rising bubbles and a crystal network: insights from analog experiments
Belien Isolde, Katharine Cashman, Alan Rempel. *Speaker Belien Isolde*

VS010+VW003 (JOINED SESSIONS) Modeling the plumbing system of active volcanoes by integrated petrological, geophysical and fluid inclusion studies

Conveners: Peccerillo Angelo, De Vivo Benedetto, Bodnar B, Frezzotti M.L.

Poster 12 July, 2007 from 06:00 PM to 08:00 PM - Baldeschi Palace Main Hall

- 28 Melt and fluid inclusion investigation in the ad 472 magma chamber of Vesuvius: inferences on fluid exsolution and magmatic degassing,
Marianelli P., Italy
- 29 Silicate inclusions into restitic xenoliths from lavas and pyroclasts of Aeolian Islands (southern Italy): properties of alkaline anatectic melts,
Zanon V., Portugal
- 30 Plumbing system evolution in the final activity of Nisyros volcano, Greece, as inferred by mineralogical, petrochemical and isotopic data,
Braschi E., Italy
- 31 The Plumbing System at the Initial Period of the Young Cone Formation, Avachinsky Volcano (Kamchatka),
Maximov A., Russia
- 32 The magma chamberwall rock interface of an active volcano through melt and fluid inclusion investigations: the Vesuvius example,
Marianelli P., Italy
- 33 Crustal and mantle magmatic processes during Kilauea prolonged Puu Oo eruption, Hawai'i,
Marske J., USA
- 34 The feeding system of the 1944 eruption (Vesuvius) from petrological and melt inclusion studies,
Marianelli P., Italy
- 35 Deep input at the origin of the historic violent strombolian eruptions at Vesuvius,
Marianelli P., Italy
- 36 The Campi flegrei feeding system at the time of the Campanian Ignimbrite eruption,
Marianelli P., Italy
- 37 Evolution of dome-forming peralkaline silicic magmas at Santa Brbara and Pico Alto volcanoes
(Terceira Island, Azores),
Pimentel A., Portugal
- 38 Structural controls on the magma movements and eruption locations: Observational evidence in Usu volcano, Japan.
Onizawa S., Japan
- 39 Multiple magma feeding systems for radial fissure eruption inferred from dike intrusion direction
Geshi N., Japan

VS018 New advances in understanding phreatomagmatism: from experiments to volcanic facies analyses

Conveners: Nemeth Karoly

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- 40 Los Loros trachytic tuff ring in northwestern Patagonia-Argentina
Risso Corina, Francisco Nullo, Kroly Nmeth, Pablo Leal. *Speaker Risso Corina*
- 41 Primary versus secondary and subaerial versus submarine hydrovolcanic deposits in the subsurface of Jeju Island, Korea
Sohn Young Kwan, Ki Hwa Park, Seok-Hoon Yoon. *Speaker Sohn Young Kwan*

POSTER SESSION – BALDESCHI PALACE JULY, 12th



LIST OF POSTERS and PANEL NUMBER

- 42 **The relative role of magmatic and phreatomagmatic explosions in the Averno eruption**
Fourmentraux Cline, Prof. Mauro Rosi, Dr N. Metrich, Dr A. Bertagnini, Dr K. Cashman. *Speaker Fourmentraux Cline*
- 43 **Study new progress on volcanic phreatomagmatic eruption**
Sun Qian. *Speaker Sun Qian*
- 44 **Growth and evolution of So Roque offshore tuff cone, So Miguel Island (Azores): geomorphological evidences and facies analysis**
Zanon Vittorio, Jos Pacheco, Adriano Pimentel. *Speaker Zanon Vittorio*
- VS019 Large Igneous Provinces**
Conveners: Ernst Richard
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- 45 **Field characteristics of dikes in the Allan Hills & their implications for magma emplacement, Ferrar large igneous province, Antarctica**
Airoldi Giulia, Jdl White, J Rowland, J Muirhead. *Speaker Airoldi Giulia*
- 46 **Magnetostratigraphy of the lower part of the Karoo continental flood basalt Province: attempting to constrain eruptive pulses.**
Jay Anne. *Speaker Jay Anne*

POSTER SESSION – BALDESCHI PALACE JULY, 13th

LIST OF POSTERS and PANEL NUMBER



VS012 Cities on Volcanoes: looking at the links between volcanology and communities issues around volcanoes (merged with VS020)
Conveners: **Baxter Peter, Lindsay Jan, Orsi Giovanni, Horwell Claire**
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- 1 **Preparing for the 40 anniversary of Arenal volcano reawakening: Bringing memories from the past to shine the future of new generations.**
Duarte Eliecer. *Speaker Duarte Eliecer*
- 2 **Rapid growth of tourist infrastructure around Arenal Volcano. Implications for hazard reduction.**
Duarte Eliecer. *Speaker Duarte Eliecer*
- 3 **Sulphur dioxide (SO₂) measurements at Pos volcano using MINIDOAS. Pre, during and post phreatic activity.**
Duarte Eliecer, Erick Fernandez, Bo Galle, Rodolfo Olmos, Mattias Johansson, Wendy Saenz, Maria Martinez. *Speaker Duarte Eliecer*
- 4 **Do standard air filter systems protect from volcanic aerosols?**
Obenholzner Johannes, M. Edwards, J. Parks. *Speaker Obenholzner Johannes*
- 5 **Emissions of Fogo Volcano, Cape Verde - first results of SO₂, CO₂ and temperature measurements**
Pfeiffer Kerstin. *Speaker Pfeiffer Kerstin*
- 6 **A further analysis of causes of excess mortality in Central England at the time of the Laki eruption**
Self Stephen, Linda Mcardell. *Speaker Self Stephen*
- 7 **Public awareness - a preliminary element of risk reduction for cities**
Gaudru Henry. *Speaker Gaudru Henry*

VS016 Volcanic-plutonic provinces: a tool to understand magma genesis and geodynamics
Conveners: **Poli Giampiero, Bernard Bonin**
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- 8 **Magma/Enclave interaction in the Neogene Calc-Alkaline Magmatism from the subvolcanic zone of the East Carpathians: a mineralogical and isotopic integrated study**
Nitoi Eugenia. *Speaker Nitoi Eugenia*
- 9 **The applicability of using apatite geochemistry for differentiating Mesozoic I- and S-type and intermediary granitoids in S China**
Hsieh Pei-Shan, Cheng-Hong Chen, Huai-Jen Yang, Chi-Yu Lee, Han-Wen Zhou. *Speaker Hsieh Pei-Shan*