

S02.02 - Volcanic impacts to society: using field, modelling and laboratory approaches to inform disaster risk and resilience assessments and mitigation

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 01.	230	Multi-volcanic hazard impact assessment for residential buildings in the Auckland Volcanic Field	Nicole Allen (1) Thomas Wilson (1) Ben Kennedy (1) Allan Scott (1)	(1) University of Canterbury	Nicole Allen
06 - 02.	232	Quantifying Volcanic Multi-Hazard Impacts at Mt Taranaki, NZ	Alana Weir (1) Thomas Wilson (1) Mark Bebbington (2) Natalia Deligne (3) Sarah Beaven (1)	(1) University of Canterbury, New Zealand (2) Massey University, New Zealand (3) GNS Science, New Zealand	Alana Weir
06 - 03.	403	Glacier cave research on volcanoes of the Cascade Volcanic Arc – chances to improve forecasting volcanic mudflows	Linda Sobolewski (1) Andreas Pflitsch (1)	(1) Ruhr University Bochum	Linda Sobolewski
06 - 04.	486	Preliminary report on damage caused by the ballistic block of the 2018 phreatic eruption of Kusatsu-Shirane volcano	Mitsuhiro Yoshimoto (1) Ryo Honda (1) Taisuke Yasuda (1) Yasuhiro Ishimine (2) Hiroyuki Yamada (3) Jiro Komori (4) Akihiko Terada (5) Junichi Hirabayashi (5) Toshitsugu Fujii (1)	(1) Mount Fuji Research Institute, Yamanashi Prefectural Government (2) Kagoshima University (3) National Defense Academy (4) Teikyo Heisei University (5) Volcanic Fluid Research Center, Tokyo Institute of Technology	Mitsuhiro Yoshimoto
06 - 05.	533	The influence of local environmental and socio-economic conditions on the impacts of ash storms	Pablo Forte (1) Lucia Domínguez (2) Costanza Bonadonna (2) MarAa Clara Lamberti (3) (4) Chris E. Gregg (5) Donaldo Bran (6) Jonathan M. Castro (7)	(1) Institute of Geosciences, University of Mainz, Germany (2) Department of Earth Sciences, University of Geneva, Switzerland (3) GESVA, Department of Earth Sciences, FCEN, University of Buenos Aires, Argentina (4) IDEAN (UBA-CONICET), Buenos Aires, Argentina (5) Department of Geosciences, East Tennessee State University, USA (6) Institute of National Agricultural Technology-INTA, Argentina	Pablo Forte
06 - 06.	648	Recent eruptive history of Mount Hasan and Mount Erciyes stratovolcanoes, Central Anatolia	Gökhan Atıcı (1) Bjarne Friedrichs (2) Axel K. Schmitt (2) Martin Danisik (3) Esra Yurteri (1) Evren Atakay Gündoğdu (1) Erdal Şen (4)	(1) General Directorate of Mineral Research and Exploration (MTA), Ankara, Turkey (2) Heidelberg University, Heidelberg, Germany (3) Curtin University, Perth, Australia (4) Hacettepe University, Ankara, Turkey	Gökhan Atıcı
06 - 07.	975	Using ballistic cannon experiments to explore new methods of building reinforcement	George Williams (1) Nicole Allen (2) David Lallemand (1) Ben Kennedy (2) Thomas Wilson (2) Allan Scott (2) Susanna Jenkins (1)	(1) Earth Observatory of Singapore (2) University of Canterbury	George Williams

S02.15 - Perspectives on volcanic hazard and risk communication: Insights and advice from research and experience

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 08.	157	How does risk perception influence societal behaviour in indigenous communities. A case study in Southern flanks of Fuego Volcano, Guatemala	Alistair Langmuir-Sanchez (1) Eliza Calder (1) Gustavo Chigna (2)	(1) University of Edinburgh (2) INSIVUMEH	Alistair Langmuir-Sanchez
06 - 09.	344	In the shadow of Vesuvius. What about eruption?	Anna Maria Zaccaria	Social Sciences Department- University Naples Federico II	anna maria zaccaria
06 - 10.	424	Volcano dormancy, historical memory and perception of volcanic threat in French volcanic areas	Emeline Wavelet (1) Carmen Solana (1) Andrew Harris (2) Nicolas Villeneuve (3) Jean-Christophe Komorowski (3) Richard Teeuw (1)	(1) University of Portsmouth, UK (2) UCA-OPGC, FR (3) JPGP, FR	Carmen Solana
06 - 11.	675	Perception of volcanic risk in support of emergency planning and management: case study of municipalities subject to the Vesuvio Risk (South Italy)	Gala Avvisati (1) Eliana Bellucci Sessa (1) Orazio Colucci (2) Barbara Marfè (2) Enrica Marotta (1) Rosella Nave (1) Rosario Peluso (1) Tullio Ricci (3) Mario Tomasone (2)	(1) INGV Osservatorio Vesuviano, Napoli (2) Freelance Professional (3) INGV Roma	Gala Avvisati
06 - 12.	783	Never let the truth get in the way of a "good story": the case of the "megaeruption" of Teide volcano, Tenerife, Canary Islands	David Calvo (1) Nemesio Pérez (1,2,3) Luca D'Auria (1,2) Matthew J. Pankhurst (1,2) Beverley C. Coldwell (1,2)	(1) Instituto Volcanológico de Canarias (INVOLCAN), 38400 Puerto de la Cruz, Tenerife, Spain (2) Instituto Tecnológico y de Energías Renovables (ITER), 38611 Granadilla de Abona, Tenerife, Spain (3) Agencia Insular de la Energía de Tenerife (AIET), 38611 Granadilla de Abona, Tenerife, Spain	David Calvo
06 - 13.	792	Creating perspective archive of Volcanologist's activities in the society over the century-long history in Japan.	Hiromu OKADA (1)	(1) NPO Crisis and Environmental Management Policy Institute	Hiromu OKADA
06 - 14.	971	INVOLCAN's Facebook: A reliable meeting point between researchers and society	David Calvo (1) Nemesio Pérez (1,2,3) Luca D'Auria (1,2) Matthew J. Pankhurst (1,2) Beverley C. Coldwell (1,2) Alexis Schwartz-Mesa (1,3)	(1) Instituto Volcanológico de Canarias (INVOLCAN), 38400 Puerto de la Cruz, Tenerife, Spain (2) Instituto Tecnológico y de Energías Renovables (ITER), 38611 Granadilla de Abona, Tenerife, Spain (3) Agencia Insular de la Energía de Tenerife (AIET), 38611 Granadilla de Abona, Tenerife, Spain	David Calvo
06 - 15.	991	GUAYOTA: A weekly graphic chart on the volcanic activity of Tenerife Island	Nemesio M. Pérez (1,2,3) Luca D'Auria (1,2) Eleazar Padrón (1,2,3) Aarón Pérez (1,3) David Calvo (1)	(1) Instituto Volcanológico de Canarias (INVOLCAN), 38400 Puerto de la Cruz, Tenerife, Spain	Nemesio M. Pérez
06 - 16.	1130	Families Preparing for Volcanic and Seismic Events: Assessment and Dynamics	Sofia Morgado Pereira (1) Mariana Paim Pacheco (1) Isabel Estrela Rego (1)	(1) Instituto de Investigação em Vulcanologia e Avaliação de Riscos – Universidade dos Açores	Sofia Morgado Pereira
06 - 17.	1131	Risk communication and evacuation planning. A study in S. Miguel, Azores (Portugal)	Isabel Rego (1) Sofia Pereira (1)	(1) Instituto de Investigação em Vulcanologia e Avaliação de Riscos – Universidade dos Açores	Isabel Rego
06 - 18.	882	Geoetics and scientific analysis of the communication performed in the cities on volcanoes in Italy: the case histories of Ischia and Phlagrean Fields since 2013	Fedora Quattrocchi	INGV	Fedora Quattrocchi
06 - 19.	1214	A Course on Natural Disasters as Part of An Academic Curriculum	Matthew S. Davis, Ph.D. (1)	(1) Dominican University of California	Matthew S. Davis, Ph.D.

S01.34 - Volcanoes from the space

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 20.	179	First comparative results from Sentinel-2 And Modis-Mirova Volcanic thermal dataseries	Francesco Massimetti (1,2) Diego Coppola (2) Marco Laiolo (1,2) Corrado Cigolini (2) Maurizio Ripepe (1)	(1) University of Florence (2) University of Turin	Francesco Massimetti
06 - 21.	364	Multisource inversion of ground deformation sources: the case of Sakurajima volcano, Japan	Monika Przeor (1) Luca D'Auria (1,2) Susi Pepe (3)	(1) Instituto Volcanológico de Canarias (INVOLCAN), Puerto de la Cruz, Spain (2) Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain (3) Istituto per il Rilevamento Elettromagnetico dell'Ambiente (IREA-CNR), Napoli, Italy	Monika Przeor
06 - 22.	462	Application of airborne hyperspectral remote sensing for mapping Surface mineral and volcanic products at 2014-2015 Holuhraun lava flow (Iceland) using Sequential Maximum Angle Convex Cone (SMACC) method	Muhammad Aumaristama (1) Armann Hoskuldsson (1) Magnus Orn Ulfarsson (2) Ingibjorg Jonsdottir (1,3) Thorvaldur Thordarson (1,3)	(1) Institute of Earth Sciences, University of Iceland, Sturlugata 7 - 101 Reykjavik (2) Faculty of Electrical and Computer Engineering, University of Iceland, Hjardarhagi 2-7, 107 Reykjavik (3) Faculty of Earth Sciences, University of Iceland, Sturlugata 7 - 101 Reykjavik	Muhammad Aumaristama
06 - 23.	519	Analysis of the surface thermal anomaly of Solfatara volcano by comparison of satellite and ground thermal infrared images	Teresa Caputo (1) Eliana Bellucci Sessa (1) Malvina Silvestri (2) Maria Fabrizia Buongiorno (2) Massimo Musacchio (2) Beatrice Fusai (3) Fabio Sansivero (1) Giuseppe Vilardo (1)	(1) Istituto Nazionale di Geofisica e Vulcanologia, sezione di Napoli Osservatorio Vesuviano, via Diocleziano 328, 80125 Napoli, Italy (2) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Nazionale Terremoti, Via di Vigna Murata 605, 00143 Roma, Italy (3) Università degli Studi Roma Tre, Dipartimento di Scienze - Sez. Geologia	Teresa Caputo
06 - 24.	562	Development of the Detection Technique for Ash Deposition Area Using NIR channel	Jongsun Sun (1) Won-Jin Lee (1) Sun-Cheon Park (1) DukKee Lee (1)	(1) Earthquake and Volcano Research Division, Korea Meteorological Administration	Won-Jin Lee
06 - 25.	795	Complex utilization of satellite remote sensing dataset for volcano activity monitoring	Won-Jin Lee (1), Jongsun Sun (1), Sun-Cheon Park (1), DukKee Lee (1)	(1) Earthquake and Volcano Research Division, Korea Meteorological Administration	Won-Jin Lee
06 - 26.	802	Volcano monitoring from space using high-cadence Planet cubesats: application to Fuego volcano, Guatemala	Anna Aldeghi (1,2), Rudiger Wolf Escobar (1), Gianluca Groppelli (2), Simon Carn (1)	(1) Michigan Technological University, (2) University of Milano Bicocca	Anna Aldeghi
06 - 27.	912	Radar backscatter analysis methods applied to the 2011-2013 Kilauea lava flows	Edna W. Dualeh (1) Susanna K. Ebmeier (1) Michael P. Poland (2)	(1) School of Earth and Environment, University of Leeds (2) U.S Geological Survey, Yellowstone Volcano Observatory	Edna W. Dualeh
06 - 28.	937	Exploring the use of IASI retrievals for monitoring volcanic SO2 emissions	Isabelle A. Taylor (1) James Preston (2) Elisa Carboni (3) Tamsin A. Mather (1) Roy G. Grainger (3) Nicolas Theys (4) Silvana Hidalgo (5) Brendan McCormick Kilbride (6)	(1) COMET, Department of Earth Sciences, University of Oxford (2) Department of Earth Sciences, University of Oxford (3) COMET, Sub-Department of Atmospheric, Oceanic and Planetary Physics, University of Oxford (4) Belgian Institute for Space Aeronomy (5) Instituto Geofísico de la Escuela Politécnica Nacional (6) COMET, Department of Earth Sciences, University of Cambridge	Isabelle Taylor
06 - 29.	954	How well can we measure Etna emission from satellite?	Elisa Carboni (1) Isabel Taylor (1) Giuseppe Salerno (2) Pasquale Sellitto (3) Stefano Corradini (2) Luca Merucci (2) Roy Grainger (1) Tamsin Mather (1)	(1) University of Oxford (2) INGV (3) UKRI SFTC	Elisa Carboni
06 - 30.	956	Automatic InSAR processing to monitor volcanic deformations in The Canary Islands	Anselmo Fernández-García (1) Elena González-Alonso (1) Laura García-Cañada (1) Héctor Lamolda (1) Stavros Meletlidis (2)	(1) Observatorio Geofísico Central, Instituto Geográfico Nacional, C/ Alfonso XII, 3, 28014 Madrid, Spain (2) Centro Geofísico de Canarias, Instituto Geográfico Nacional, C/ La Marina 20, 2º, 38001 Santa Cruz de Tenerife, Spain	Anselmo Fernández-García
06 - 31.	994	Development of an integrated and automated tool for InSAR time series processing and near real time displacements monitoring	Dominique Derauw (1,2) Nicolas d'Oreye (1,3) Sergey Samsonov (4) François Kervyn (5) Ludivine Libert (2) Anne Orban (2)	(1) European Center for Geodynamics and Seismology, Luxembourg (2) Centre Spatial de Liège, Belgium (3) National Museum of Natural History, Luxembourg (4) Canada Centre for Mapping and Earth Observation, Natural Resources, Canada (5) Royal Museum for Central Africa, Belgium	Dominique Derauw
06 - 32.	1031	Developing baseline thresholds for satellite detected infrared emissions at persistently active volcanoes	Hannah Moss Davies (1)	(1) Coventry University	Hannah Moss-Davies
06 - 33.	1040	InSAR characterization of lava flows at Piton de la Fournaise	Alexis Hrysiewicz (1) Jean-Luc Froger (1) Nicolas Villeneuve (2,4) Thierry Menand (1) Catherine Aaron (3) Aline Peltier (4)	(1) Université Clermont Auvergne, CNRS, IRD, OPGC, Laboratoire Magmas et Volcans, F-63000 Clermont-Ferrand, France (2) Laboratoire Géosciences Réunion, Université de La Réunion, Institut de Physique du Globe de Paris, Sorbonne Paris-Cité, UMR 7154 CNRS, 97715 Saint-Denis, France (3) Université Clermont Auvergne, CNRS, Laboratoire de Mathématiques Blaise Pascal, F-63000 Clermont-Ferrand, France (4) Institut de Physique du Globe (IPGP), Sorbonne Paris-Cité, CNRS UMR-7154, Université Paris Diderot, Observatoire Volcanologique du Piton de la Fournaise (OVPF), Bourg-Murat, France	Alexis Hrysiewicz
06 - 34.	1096	Monitoring thermal anomalies in ice covered volcanoes using C-band aircraft ground clearance radar	Thórdís Högnadóttir (1), Magnús T. Gudmundsson (1), Hannah I. Reynolds (1), Snaebjörn Guðbjörnsson (2), Örnólfur Lárusson (2)	(1) Institute of Earth Sciences, University of Iceland (2) Isavia	Thórdís Högnadóttir

S01.04 - Advanced and non-conventional seismic methods for monitoring active volcanoes

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 35.	359	Adaptive non-linear filtering for the detection of microearthquakes	Yusef Rajaeitabrizi (1,2,3) Robabeh Salehiozoumchelouei, (1,2,3) Luca D'Auria (1,2) José Luis Sánchez de la Rosa (3)	(1) Instituto Volcanológico de Canarias (INVOLCAN), Puerto de la Cruz, Spain (2) Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain (3) Universidad de La Laguna, Tenerife, Spain	Yusef Rajaeitabrizi
06 - 36.	360	High resolution imaging of the b-value at Long Valley caldera	Rubén García-Hernández (1) Luca D'Auria (1,2) José Barrancos (1,2) German D. Padilla (1,2)	(1) Instituto Volcanológico de Canarias (INVOLCAN), Puerto de la Cruz, Spain (2) Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain	Rubén García-Hernández
06 - 37.	361	Multiscale analysis of geophysical signals using financial markets tools	Robabeh Salehiozoumchelouei (1,2,3) Yusef Rajaeitabrizi (1,2,3) José Luis Sánchez de la Rosa (3) Luca D'Auria (1,2)	(1) Instituto Volcanológico de Canarias (INVOLCAN), Puerto de la Cruz, Spain (2) Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Spain (3) Universidad de La Laguna, Tenerife, Spain	Robabeh Salehiozoumchelouei
06 - 38.	377	Volcano-Seismic Recognition (VSR) under noisy conditions via waveform reconstruction	Guillermo Cortés (1) Roberto Carniel (1) María A. Mendoza (2) Philippe Lesage (3) Javier Almendros (4) Carmen Benítez (5)	(1) Dipartimento Politecnico di Ingegneria e Architettura, Università degli Studi di Udine, Udine, Italy. (2) Universidad de Granada, Granada, Spain. (3) Université Grenoble Alpes, Université Savoie Mont Blanc, CNRS, IRD, IFSTTAR, ISTERre, 38000 Grenoble, France. (4) Instituto Andaluz de Geofísica y Prevención de Desastres Sísmicos, Universidad de Granada, Granada, Spain. (5) Departamento de Teoría de la Señal, Telemática y Comunicaciones, E. T. S. de Ingenierías Informática y de Telecomunicación. Universidad de Granada, Granada, Spain.	Guillermo Cortés
06 - 39.	483	Volcanic tremor source location based on seismic cross-correlations: application to synthetic tremor using volcano-tectonic earthquakes	Theodorus Permana (1) Takeshi Nishimura (1) Hisashi Nakahara (1) Eisuke Fujita (2) Hideki Ueda (2)	(1) Tohoku University, Japan (2) NIED, Japan	Theodorus Permana
06 - 40.	599	Automatic discrimination and fast wavefield decomposition of Volcano-Tectonic (VT) earthquakes by Independent Component Analysis: the case study of Campi Flegrei (Italy)	Simona Petrosino (1) Enza De Lauro (2) Mariarosaria Falanga (3)	(1) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Napoli - Osservatorio Vesuviano, Naples (Italy) (2) Università degli Studi Roma Tre, Dipartimento di Architettura, Rome (Italy) (3) Università degli Studi di Salerno, Dipartimento di Ingegneria dell'Informazione ed Elettrica e Matematica applicata/DIEM, Fisciano (Italy)	Simona Petrosino
06 - 41.	661	Seismic anisotropy time variations at Mt. Etna	Lucia Nardone (1) Francesca Bianco (1) Lucia Zaccarelli (2) Domenico Patanè (3)	(1) INGV - Sez. Napoli Osservatorio Vesuviano (2) INGV - Sez. Bologna (3) INGV - Sez. Catania Osservatorio Etno	Francesca Bianco
06 - 42.	800	Locations of families of repeating events at Telica Volcano, Nicaragua	Mel Rodgers (1) Mitch Hastings (1) Glenn Thompson (1) Diana Roman (2)	(1) University of South Florida (2) Carnegie Institution of Washington	Mel Rodgers
06 - 43.	803	Real-time analysis for rapid assessment of driving forces associated with seismic swarms	Chiou Ting Tan (1) Benoit Taisne (1,2)	(1) Earth Observatory of Singapore, Nanyang Technological University (2) Asian School of the Environment, Nanyang Technological University	Chiou Ting Tan
06 - 44.	849	Innovative developments in the identification and forecasting of volcanic and volcano-tectonic activity: Experiences from different volcanoes	Ramon Ortiz (1) José M. Marrero (2) Servando De la Cruz-Reyna (3) Alicia García (4) Angeles Linares (1)	(1) Volcanes de Canarias La Laguna Tenerife Spain (2) Instituto de Geofísica, Universidad Nacional Autónoma de México, (3) Asesoría Investigación y Desarrollo en Riesgos y Peligros Naturales y Antrópicos REPENSAR. Quito, Ecuador (4) Instituto de Geociencias, IGEO, CSIC-UCM Spain	Ramon Ortiz
06 - 45.	920	The broadband seismic network KivuSNet in the Virunga Volcanic Province (D.R. Congo): seismicity catalogues and new fundamental seismological models	Adrien Oth (1) Julien Barri�re (1) Nicolas d'Oreye (1,2) Georges Mavonga (3) Fran�ois Kervyn (4)	(1) European Center for Geodynamics and Seismology, Luxembourg (2) National Museum of Natural History, Luxembourg (3) Goma Volcano Observatory, Democratic Republic of the Congo (4) Royal Museum for Central Africa, Belgium	Adrien Oth
06 - 46.	986	Major explosions and eruptive style in 2017-2018 at Stromboli volcano	Salvatore Alparone (2) Francesca Bianco (1) Alessandro Bonaccorso (2) Sonia Calvari (2) Teresa Caputo (1) Mario Castellano (1) Luca D'Auria (3) Walter De Cesare (1) Bellina Di Lieto (1) Antonietta M. Esposito (1) Salvatore Gambino (2) Flora Giudicepietro (1) Domenico Lo Bascio (1) Giovanni Macedonio (1) Marcello Martini (1) Mario Mattia (2) Massimo Orazi (1) Rosario Peluso (1) Eugenio Privitera (2) Patrizia Ricciolino (1) Pierdomenico Romano (1) Giovanni Scarpato (1) Salvatore Spampinato (2) Anna Tramelli (1) Luciano Zuccarello (2)	(1) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano, Napoli, Italy (2) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Etno, Catania, Italy (3) Instituto Volcanol�gico de Canarias, Puerto de la Cruz, Spain	Flora Giudicepietro
06 - 47.	1002	The seismic monitoring network and the seismicity of Ischia island	Anna Tramelli (1) Luca D'Auria (2) Antonietta M. Esposito (1) Danilo Galluzzo (1) Flora Giudicepietro (1) Domenico Lo Bascio (1) Marcello Martini (1) Lucia Nardone (1) Massimo Orazi (1) Rosario Peluso (1) Patrizia Ricciolino (1) Giovanni Scarpato (1)	(1) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano, Via Diocleziano, 328 - 80124 Napoli (Italy) (2) Instituto Volcanol�gico de Canarias (INVOLCAN), Tenerife, Spain	Anna Tramelli

S01.08 - Multi-method approaches to screen storage, activation, and transport in magmatic systems

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 48.	152	Paricutin volcano mineral assemblage suggests magmatic evolution controlled by fractionation without significant crustal assimilation	Patricia Larrea (1,2) Helena Albert (3) Teresa Ubide (4) Vanessa Colás (5) Fidel Costa (3) Elisabeth Widom (2) Claus Siebe (1)	(1) Instituto de Geofísica, UNAM (2) Geology & Environmental Earth Science, Miami University (3) Earth Observatory of Singapore, Nanyang Technological University (4) School of Earth and Environmental Sciences, The University of Queensland (5) Instituto de Geología, UNAM	Patricia Larrea
06 - 49.	154	Temporal evolution of magma and mineral storage conditions in the Bárðarbunga-Veiðivötn volcanic system	Alberto Caracciolo (1) Enikő Bali (1) Guðmundur H. Guðfinnsson/ (1) Maren Kahl (1) Haraldur Gunnarsson (1)	(1) Institute of Earth Sciences, University of Iceland, Sturlugata 7, 101 Reykjavík, Iceland	Alberto Caracciolo
06 - 50.	165	Eruption trigger mechanisms at arc volcanoes with century-long repose periods: A melt inclusion record of the 2015-2016 Momotombo eruption, Nicaragua	Samantha Tramontano (1),(2) Marc-Antoine Longpré (2)	(1) City University of New York - The Graduate Center (2) City University of New York - Queens College (2)	Samantha Tramontano
06 - 51.	225	Groundmass microlite textures of 2014-2015 eruptive products at Sinabung volcano, Indonesia	Yuki Suzuki (1) Satoshi Kubota (1) Risa Kitsuda (1) Setsuya Nakada (2)	(1) Waseda Univ. (2) ERI, Univ. Tokyo	Yuki Suzuki
06 - 52.	269	Stochastic modelling of Krafla's magma bodies	James Catley (1)	(1) Iceland School of Energy	James Catley
06 - 53.	325	Understanding the origin of magmatic necks: insights from Etna and analogue models	Margherita Fittipaldi (1) Stefano Urbani (1) Marco Neri (2) Daniele Trippanera (1,3) Valerio Acocella (1)	(1) Dipartimento di Scienze, Università Roma Tre, Italy. L.S.L. Murialdo 1. 00146 Roma, Italy (2) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Etno, Sezione di Catania. Piazza Roma, 2 - 95123 Catania, Italy (3) King Abdullah University of Science and Technology, Thuwal, Saudi Arabia	Margherita Fittipaldi
06 - 54.	406	Multi-stage crystallisation and magma mixing at Popocatepetl volcano, Mexico	Martin Mangler (1,2) Chiara Maria Petrone (1) Julie Prytulak (3) Samuel Hill (2) Hugo Delgado-Granados (4)	(1) Department of Earth Sciences, Natural History Museum, London, UK (2) Department of Earth Science and Engineering, Imperial College, London, UK (3) Department of Earth Sciences, Durham University, Durham, UK (4) Instituto de Geofísica, Universidad Autónoma de México, Mexico City, Mexico	Martin Mangler
06 - 55.	595	Insights from 17 years of geodetic and petrological observations at Mt. Etna volcano (Italy): definition of a long-term pattern of magma transport and storage	Mimmo Palano (1) Marco Viccaro (2,1) Stefano Gresta (2)	(1) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Catania - Osservatorio Etno, Piazza Roma 2, I-95129 Catania, Italy (2) Università degli Studi di Catania, Dipartimento di Scienze Biologiche, Geologiche e Ambientali, Sezione di Scienze della Terra, Corso Italia 57, I-95129 Catania, Italy	Mimmo Palano
06 - 56.	149	Determining pre-eruptive volatile behaviour at Campi Flegrei (Italy): an integrated apatite and melt inclusion approach	Michael J Stock (1) Madeleine CS Humphreys (2) Victoria C Smith (3) Roberto Isaia (4) Richard A Brooker (5)	(1) Department of Earth Sciences, University of Cambridge, UK (2) Department of Earth Sciences, Durham University, UK (3) Research Laboratory for Archaeology and the History of Art, University of Oxford, UK (4) INGV, Osservatorio Vesuviano, Italy (5) School of Earth Sciences, University of Bristol, UK	Michael J Stock
06 - 57.	691	Diffusion of trace elements during mixing of mafic and silicic magmas: implications for timescales of magma mixing	Diego González-García (1) Maurizio Petrelli (1) Harald Behrens (2) Francesco Vetere (1) Daniele Morgavi (1) Diego Perugini (1)	(1) Dipartimento di Fisica e Geologia, Università degli Studi di Perugia, Italy (2) Institut für Mineralogie, Leibniz Universität Hannover, Germany	Diego González-García
06 - 58.	709	Constraining the P-T-X-t paths of magma storage and migration in the Snæfellsnes Volcanic Belt, W-Iceland	Maren Kahl (1) Enikő Bali (1) (2) Guðmundur H. Guðfinnsson (1) Þorvaldur Þórðarson (1) (2)	(1) Institute of Earth Sciences, University of Iceland (2) Faculty of Earth Sciences, University of Iceland	Maren Kahl
06 - 59.	727	Using volatile contents to infer the emplacement mechanism of silicic lava flows: An FTIR study of Obsidian Dome, CA.	Stuart M. Kenderes (1) Kenneth S. Befus (2) Graham D. M. Andrews (3) Alan G. Whittington (1)	(1) University of Missouri, Department of Geological Sciences (2) Baylor University, Department of Geosciences (3) West Virginia University, Department of Geosciences	Stuart M. Kenderes
06 - 60.	788	Toward a new concept for magma ascent dynamics at monogenic volcanic fields: the archetype of the northern Main Ethiopian Rift	Eugenio Nicotra (1) Paola Donato (1) Marco Viccaro (2,3) Rosanna De Rosa (1)	(1) University of Calabria (2) University of Catania (3) INGV, Catania	Eugenio Nicotra
06 - 61.	816	Triggering Mount Etna's most destructive historic eruption. Cryptic magma mixing recorded in clinopyroxene megacrysts.	Ruadhan Magee Teresa Ubide Maren Kahl	The University of Queensland University of Iceland	Ruadhan Magee
06 - 62.	896	Self-feeding rejuvenation of a volcano plumbing system following major explosive eruptions: evidence from the February-April 2017 eruptive activity at Etna	Marco Viccaro (1,2) Mimmo Palano (2) Marisa Giuffrida (1) Francesco Zuccarello (1) Benedetta Scandura (1) Stefano Gresta (1)	1) Università di Catania - DSBGA 2) Istituto Nazionale di Geofisica e Vulcanologia - Sezione di Catania	Marco Viccaro
06 - 63.	904	Defining rates of magma ascent and degassing at open-conduit volcanoes: clues to re-evaluating the hazard associated to violent paroxysmal eruptions	Marisa Giuffrida (1) Marco Viccaro (1,2) Francesco Zuccarello (1)	1) Università di Catania - DSBGA 2) Istituto Nazionale di Geofisica e Vulcanologia - Sezione di Catania	Marco Viccaro
06 - 64.	966	Pre-eruptive dynamics and geometry of the feeding system during the initial stages of Monte dei Porri volcano (Salina, Aeolian Islands)	Paola Donato (1) Eugenio Nicotra (1) Rosanna De Rosa (1)	(1) University of Calabria	Paola Donato
06 - 65.	1095	Combining petrologic and seismic studies to constrain magma storage conditions beneath Marapi volcano, West Sumatra, Indonesia	Dini Nurfiani (2), Wang Xin (1), Kristianto (3), Hetty Triastuty (3), Dannie Hidayat (1), Wei Shengji (1,2), Benoit Taisne (1,2), Caroline Bouvet de Maisonneuve (1,2)	(1) Earth Observatory of Singapore (EOS), Nanyang Technological University; (2) Asian School of the Environment (ASE), Nanyang Technological University; (3) Center for Volcanology and Geological Hazard Mitigation (CVGHM)	Dini Nurfiani
06 - 66.	1121	Zircon and apatite in host andesites and mafic enclaves: unravelling mixed magmatism at Soufrière Hills Volcano, Montserrat, Caribbean	Jane H. Scarrow (1, 2) Jenni Barclay (1) Matthew S.A. Horstwood (3) Jeremy Rushton (3) Andrew Bloore (1)	(1) School of Environmental Sciences, University of East Anglia, Norwich, NR4 7TJ, UK (2) Department of Mineralogy and Petrology, University of Granada, 18071, Granada, Spain (3) British Geological Survey, Keyworth, Nottingham NG12 5GG, UK	Jane H. Scarrow

S01.30 - Environmental and societal impacts of past volcanic eruptions: integrating the geosciences with the historical, anthropological, and archaeological sciences

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 67.	296	Lava-river interactions and secondary hazards associated with the 1783-84 Laki fissure eruption	Frances Boreham (1) Katharine Cashman (1) Alison Rust (1)	(1) University of Bristol	Frances Boreham
06 - 68.	204	The Ilopango Tierra Blanca Joven (TBJ) eruption, El Salvador: a major Holocene event of Central America, stratigraphy and hazards implications	Dario Pedrazzi (1) Iván Sunyé-Puchol (2) Gerardo Aguirre-Díaz (2) Antonio Costa (3) Victoria C. Smith (4) Pablo Dávila (5) Daniel P. Miggins (6) Walter Hernández (7) Eduardo Gutiérrez (7)	(1) ICTJA, CSIC, Group of Volcanology, SIMGEO UB-CSIC, Institute of Earth Sciences Jaume Almera, Lluís Sole i Sabaris s/n, 08028 Barcelona, Spain (2) Centro de Geociencias, Universidad Nacional Autónoma de México, Blvd. Juriquilla 3001, Campus UNAM, Querétaro, 76230, Mexico (3) Istituto Nazionale di Geofisica e Vulcanologia, INGV-Bologna, Via Donato Creti, 12, 40100 Bologna, Italy (4) Research Laboratory for Archaeology and the History of Art University of Oxford 1-2 South Parks Road Oxford OX1 3TG, U.K. (5) División de Geociencias Aplicadas, Instituto Potosino de Investigación Científica y Tecnológica, San Luis Potosí, 78216, Mexico (6) College of Earth, Ocean and Atmospheric Sciences, Oregon State University, 104 CEOAS Administration Building, 101 SW 26th St, Corvallis, OR 97331, EE. UU. (7) Gerencia de Geología del Observatorio Ambiental, Ministerio de Medio Ambiente y Recursos Naturales MARN San Salvador, 76230, El Salvador	Dario Pedrazzi
06 - 69.	653	Starting new act of Unzen volcanic area	Shinichi SUGIMOTO	Shinichi SUGIMOTO	Shinichi SUGIMOTO
06 - 70.	657	The Huayruro Project : mapping the Calicanto Inca area buried by the A.D. 1600 Huaynaputina eruption, with geophysical imaging and remote sensing	Raphael ANTOINE (1) Luisa MACEDO (2) Anthony FINIZOLA (3) Eric DELCHER (3) Jean-Claude THOURET (4) Cyrille FAUCHARD (1) Rachel GUSSET (3) Saida JAPURA (5) Ivonne LAZARTE (5) Jersy MARIÑO (5) Vincent Guilbert (1) Clémentine BACRI (6) Adrien NORMIER (6) Domingo RAMOS (5) Thibault SAINTENOY (7) Liliane THOURET (8) José DEL CARPIO (2) Nino PUMA (2) Orlando MACEDO (2)	(1) ENDSUM Team, Centre d'études et d'expertise sur les risques, l'environnement, la mobilité et l'aménagement (CEREMA), Rouen, France (2) Observatorio Vulcanológico del Sur, Instituto Geofísico del Perú (OVS-IGP), Arequipa, Peru (3) Laboratoire GéoSciences Réunion, Université de La Réunion, Institut de Physique du Globe de Paris (IPGP), Sorbonne Paris-Cité, UMR 7154 CNRS, Saint-Denis, La Réunion, France (4) Laboratoire Magmas et Volcans, UMR 6524, CNRS, Université Clermont Auvergne (UCA), OPGC, IRD, Aubière, France (5) Observatorio Vulcanológico del INGEMMET (OVI-INGEMMET), Arequipa, Peru (6) Wings for Science, Paris, France (7) Laboratoire Archéologie des Amériques, UMR 8096 CNRS, Université Paris 1 (8) Collaborating with INGEMMET, Arequipa, Peru and UCA, Aubière, France	Raphael ANTOINE
06 - 71.	1038	Combined Volcanological and Environmental Study at Prokosko Jezero, Bosnia Herzegowina	Christel van den Bogaard (1) Walter Dörfler (2)	(1) GEOMAR Helmholtz Centre for Ocean Research Kiel (2) Kiel University, Institute of Pre- and Protohistoric Archaeology	Christel van den Bogaard
06 - 72.	1173	Paleomagnetic dating as a tool for determining the succession of volcanic eruptions in an area of important archeological activity	Harald Blüthner (1) Katrin Sieron (2)	(1) Centro de Geociencias - UNAM (2) Universidad Veracruzana	Harald Blüthner

S03.14 - From old cauldrons to young quaternary calderas: context, processes, and economic potentials for geothermal energy and ore resources

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 73.	88	The Jubones Fm: an Oligocene VEI 7 caldera-forming eruption	Mulas Maurizio (1) Armijos Vargas William Gabriel (1) Sánchez Pontón Angel Andrés (1) Jean-Luc Le Pennec (2) Erwin Wifrido Larreta Torres (1)	(1) Escuela Superior Politécnica del Litoral, ESPOL, Facultad de Ingeniería en Ciencias de la Tierra, Campus Gustavo Galindo Km 30.5 Vía Perimetral, P.O. Box 09-01-5863, Guayaquil, Ecuador (2) Laboratoire Magmas et Volcans, Université Clermont Auvergne, CNRS, IRD, OPGC, F-63000 Clermont-Ferrand, France	Mulas Maurizio
06 - 74.	805	Assessment of geothermal potential in the Aeolian Islands, Italy using continuous seismic noise records.	Erik López (1) Marco Calò(1) Anna Tramelli(2) Massimo Orazi(2)	(1) UNAM, Universidad Nacional Autónoma de México (2) Instituto Nazionale di Geofisica e Vulcanologia	Erik López
06 - 75.	824	The Santa Cruz Central Caldera Field: concealed Jurassic calderas of the Chon Aike volcanism in southern Patagonia, Argentina	Flavia M. Salani (1,2) Carlos J. Chernicoff (2,3)	(1) FCEN-Universidad de Buenos Aires (2) Consejo Nacional de Investigaciones Científicas y Técnicas (3) SEGEMAR	Flavia María Salani
06 - 76.	570	New passive seismology network deployed in Los Humeros (Mexico): first results	Philippe Jousset (1), Tania Toledo (1), Angel Figueroa Soto (2), Marco Calo (3), Malte Metz (1), Gylfi Hersir (4), Joana Esteves Martin (5), Anne Obermann (6), Emmanuel Gaucher (7), Erik Saenger (8), Katrin Kieling (1), David Bruhn (1)	(1) GFZ Potsdam, Potsdam, Germany (pjousset@gfz-potsdam.de), (2) Universidad Michoacana de San Nicolás de Hidalgo (UMSNH), (3) UNAM, Universidad Nacional Autónoma de México, (4) ISOR, Reykjavik, Iceland (5) TNO Utrecht, The Netherlands (6) ETH Zürich, Switzerland (7) KIT Karlsruhe, Germany (8) Hochschule Bochum, Germany.	Philippe Jousset

S03.02 - Health hazards of volcanic eruptions: towards improved preparedness and resilience and reduced impact

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 77.	151	The use of affordable technology to mitigate community concerns of volcanic emissions	Erouscilla P. Joseph(1) Lara Smale(2) Stephen Hailes(3) Christopher Kilburn(2) Danielle Charlton(2) Reni Magbagbeola(3) Carlisle Williams(4)	(1) Seismic Research Centre, The University of the West Indies, St. Augustine, Trinidad & Tobago. (2) UCL Hazard Centre, Department of Earth Sciences, UCL, London, UK. (3) Department of Computer Sciences, UCL, London, UK. (4) Disaster Management Coordination Agency, Montserrat.	Erouscilla P. Joseph
06 - 78.	1064	Characterising the three-way interactions between people, domestic animals, and hazards from Popocatepetl volcano, Mexico: What are the implications for human health and resilience?	Mihaiela Swift (1,2) Amy Donovan (1) Chiara Maria Petrone (2)	(1) Geography Department, King's College London, UK (2) Department of Earth Sciences, Natural History Museum, UK	Mihaiela Swift

S03.06 - Volcanoes and Human History

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 79.	371	Study of Local knowledge from experience and individual responses during Mayon Volcano eruptions: A Phenomenological Approach	Ma. Mylene Martinez-Villegas (1) Jean A. Saludadez (2)	(1) Philippine Institute of Volcanology and Seismology- Department of Science and Technology (PHIVOLCS-DOST) (2) Faculty of Information and Communication Studies- University of the Philippines- Open University (FICS-UPOU), Los Banos, Laguna	Ma. Mylene Martinez-Villegas
06 - 80.	728	Legends and traditions: Laguna Caliente, Poás Volcano, Costa Rica	Raúl Mora-Amador (1,2) Mario Fernández (3) Dmitri Rouwet (4) Priscilla Vargas (1)	(1) Laboratorio de Ecología Urbana, Universidad Estatal a Distancia, San José, Costa Rica (2) Escuela Centroamericana de Geología, Universidad de Costa Rica, San José, Costa Rica (3) PREVENTEC, Escuela de Geografía, Universidad de Costa Rica, San José, Costa Rica (4) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Bologna, Bologna, Italy	Raúl Mora-Amador
06 - 81.	736	Lateral facies variations in the 79 AD deposits at Pompeii	Andrea Montanaro (1) Claudio Scarpato (1) Annamaria Perrotta (1) Domenico Sparice (1) Alberta Martellone (2) Arianna Spinosa (2) Massimo Osanna (2)	(1) Dipartimento di Scienze della Terra, dell'Ambiente e delle Risorse, Università di Napoli Federico II (2) Parco Archeologico di Pompei	Andrea Montanaro
06 - 82.	1057	Physical impacts of the AD 1600 Huaynaputina VEI 6 eruption on habitat and infrastructure, southern Peru: Geophysical insights from the Huayruro project	Philippe Labazuy (1) Franck Donnadieu (1) Jean-Claude Thouret (1) Domingo Ramos (2) Jersey Marino (2) Neldy Paula Sanchez (2) Ivonne Lazarte (2) Saida Japura (2)	(1) UCA-OPGC-IRD-LMV Clermont-Ferrand, France (2) INGEMMET OVI Arequipa, Peru	Philippe Labazuy
06 - 83.	1180	Volcanology and Archaeology for Better Understanding the History of Campi Flegrei: Post-NYT Bradyseisms and More Rapid Deformation	Angelo Paone, Sung-Hyo Yun1	Pusan National University	Angelo Paone

S01.40 - Advanced Processing Techniques for Geophysical Signals Recorded at Active Volcanoes

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 84.	92	Geodetic image of a low viscosity zone beneath the Kutcharo caldera, eastern Hokkaido, Japan	Tadashi Yamasaki (1) Tomokazu Kobayashi (2)	(1) Geological Survey of Japan, AIST (2) Geospatial Information Authority of Japan	Tadashi Yamasaki
06 - 85.	194	Surface Deformation and Source Model at Semisopochnoi Volcano from InSAR and Seismic Analysis During the 2014 and 2015 Seismic Swarms	Kimberly DeGrandpre (1) Jeremy Pesicek (2) Zhong Lu (1) Heather DeShon (1)	(1) Huffington Department of Earth Sciences, Southern Methodist University, Dallas, TX, USA (2) Volcano Disaster Assistance Program, USGS Volcano Science Center, Vancouver, WA, USA	Kimberly DeGrandpre
06 - 86.	267	Tracking rockfalls and landslides in real-time at Stromboli volcano	Maria Cristina Silengo (1) Marco Laiolo (2) Corrado Cigolini (1) Maurizio Ripepe (2)	(1) University of Turin (2) University of Florence	Maria Cristina Silengo
06 - 87.	280	Observation and preliminary analysis of drumbeat seismicity at Turrialba volcano, Costa Rica	Philippe Lesage (1) Titouan Muzellec (1) Mauricio M. Mora (2,3) Javier Pacheco (4)	(1) Université Grenoble Alpes, Université Savoie Mont Blanc, CNRS, IRD, IFSTTAR, ISTERRE, 38000 Grenoble, France. (2) Escuela Centroamericana de Geología, Universidad de Costa Rica, San José, Costa Rica (3) Red Sismológica Nacional (RSN: UCR-ICE), Universidad de Costa Rica, San José, Costa Rica (4) Observatorio Volcanológico y Sismológico de Costa Rica, Universidad Nacional, Heredia, Costa Rica	Philippe Lesage
06 - 88.	321	Mt. Etna feeding system: a new 3D image constrained by earthquakes distribution and 3D modelling analysis in a customizable GIS	Roberto Guardo (1,4) Luca De Siena (2) Andres Colubri (3) Carola Dreidemie (4)	(1) CONICET - UNRN (2) University of Aberdeen (3) Broad Institute of Harvard and MIT (4) LVCC - UNRN	Roberto Guardo
06 - 89.	376	Investigating large-scale change in seismic time-series data using machine learning analysis.	Grace F. Manley (1) David M. Pyle (1) Tamsin A. Mather (1) Mel Rodgers (2) Benjamin G. Stokell (3) David A. Clifton (4) Marco A. F. Pimentel (4) Glenn Thompson (2) John Makario Londoño (5) Diana Roman (6)	(1) Department of Earth Sciences, University of Oxford, UK (2) School of Geosciences, University of South Florida, USA (3) Department of Pure Mathematics and Mathematical Statistics, University of Cambridge, UK (4) Department of Engineering Science, University of Oxford, UK (5) Observatorio Volcanológico y Sismológico de Manizales, Colombia (6) Department of Terrestrial Magnetism, Carnegie Institution of Washington, USA	Grace F. Manley
06 - 90.	440	Deformation time-series integrated with multidisciplinary data to constrain source processes: Evidence of magma recharge at Colli Albani, the volcanic district at the gates of Rome (Italy)	Elisa Trasatti (1) Fabrizio Marra (1) Marco Polcari (1) Giuseppe Etiope (1) Giancarlo Ciotoli (2) Thomas H. Darrah (3) Dario Tedesco (4) Salvatore Stramondo (1) Fabio Florindo (1) Guido Ventura (1)	(1) INGV (2) CNR IGAG (3) Ohio State University (4) University of Naples II	Elisa Trasatti
06 - 91.	452	Advanced time-series processing techniques of thermal infrared images acquired by the permanent IR surveillance network of INGV - Osservatorio Vesuviano at Campi Flegrei and Vesuvius (Italy)	Fabio Sansivero (1) Giuseppe Vilardo (1) Teresa Caputo (1)	(1) Istituto Nazionale di Geofisica e Vulcanologia sez. Osservatorio Vesuviano, Napoli ITALY	Fabio Sansivero
06 - 92.	463	Using Exploratory Data Analysis in Volcano Seismic Signals.	M.C. Benítez (1) A. Bueno (1) M. Titos (1) J. Camacho (1) L. Garcia (1) J. Ibañez (1)(2)	(1) UGR (2) IAG	Carmen Benitez
06 - 93.	469	Automatic P- and S- Phase Picking: an Insight to Planchón-Peteroa Volcano-tectonic earthquakes.	Veronica L. Martinez (1) Luz García Martínez (2) Isaac Alvarez (2) Gabriela A. Badi (1,7) Luciano Zuccarello (2,3) Jesus Ibañez (4,5) Maria Carmen Benitez (2) Jose Augusto Casas (1,6) Victoria H. Olivera Craig (1)	(1) Universidad Nacional de La Plata, Facultad de Cs. Astronómicas y Geofísicas, Argentina. (2) Universidad de Granada, Dpto. de Teoría de la Señal, Telemática y Comunicaciones ETSI Informática y de Telecomunicación, Spain (3) Istituto Nazionale di Geofisica e Vulcanologia, -Sezione di Catania - Osservatorio Etno, Italy (4) Universidad de Granada, Dpto. de Física Teórica y del Cosmos, Spain (5) Instituto Andaluz de Geofísica, Universidad de Granada, Spain (6) CONICET, Argentina (7) SEGEMAR, Argentina	Veronica L. Martinez
06 - 94.	471	Contributions from seismic interferometry to the knowledge of Andean volcanoes: the cases of Planchon-Peteroa (Argentina-Chile) and Cuicocha (Ecuador)	Augusto Casas (1) Deyan Draganov (2) Gabriela Badi (3,10) Dylan Mikesell (4) Victoria Olivera Craig (3) Constanza Manassero (3) Elmer Ruigrok (5) Simone Lepore (6) Luis Franco (7) Mario Ruiz (8) Verónica Martínez (3) Martín Gómez (9) Sebastián García (10)	(1) Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, CONICET, Argentina (2) Department of Geoscience and Engineering, Delft University of Technology, the Netherlands (3) Facultad de Ciencias Astronómicas y Geofísicas, Universidad Nacional de La Plata, Argentina (4) Environmental Seismology Laboratory, Department of Geosciences, Boise State University, USA (5) RandD Seismology and Acoustics, Royal Netherlands Meteorological Institute, the Netherlands (6) Institute of Geophysics, Faculty of Physics, University of Warsaw, Poland (7) Observatorio Volcanológico de los Andes del Sur, SERNAGEOMIN, Chile (8) Instituto Geofísico, Escuela Politécnica Nacional, Ecuador (9) International Center for Earth Sciences, Comisión Nacional de Energía Atómica, Argentina (10) Servicio Geológico y Minero Argentino (SeGeMAR), Argentina	Augusto Casas
06 - 95.	592	Analogue and Numerical modelling of double-piston piecemeal calderas	Eda Aydın (1) İnan Ulusoy (1) Efe Akkaş (1)	(1) Hacettepe Univ. Dept. of Geological Engineering, 06800, Beytepe-Ankara, Turkey	Eda Aydın
06 - 96.	718	New evidences on the structure of Popocatepetl Volcano using aeromagnetic data	Tomás González-Morán (1) Ana Lillian Martín Del Pozzo (1)	(1) Instituto de Geofísica, Universidad Nacional Autónoma de México	Tomás González-Morán

S01.40 - Advanced Processing Techniques for Geophysical Signals Recorded at Active Volcanoes

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 97.	814	Statistical Analysis of Infrasonic Signals and Eruption Forecasting at Reventador Volcano (Ecuador)	Hugo D. Ortiz (1) Jeffrey B. Johnson (2) Mario C. Ruiz (3) Juan C. Anzieta (1) Gabriela A. Badi (4) Matthew R. VonLintig (2) Patricio G. Ramón (3)	(1) Pontificia Universidad Católica del Ecuador (2) Boise State University (3) Escuela Politécnica Nacional (4) Universidad Nacional de la Plata	Hugo D. Ortiz
06 - 98.	818	Automated alarms at the Alaska Volcano Observatory	Aaron Wech (1) Matt Haney (1) John Lyons (1) Tom Parker (1) Steve Botnick (1)	(1) Alaska Volcano Observatory, USGS	Aaron Wech
06 - 99.	819	Optimizing detection capabilities of remote infrasound network in Southeast Asia in a context of timely automated volcano early warning	Dorianne Tailpied (1), Benoit Taisne (1,2), Anna Perttu (1)	(1) Earth Observatory of Singapore, Nanyang Technological University. (2) Asian School of the Environment, Nanyang Technological University	Dorianne Tailpied
06 - 100.	879	Under Pressure: How does Crustal Rheology Influence the Interpretation of Volcanic Unrest?	Matthew Head (1) James Hickey (1) Nico Fournier (2) Jo Gottsmann (3)	(1) University of Exeter (2) GNS Science (3) University of Bristol	Matthew Head
06 - 101.	900	On the relevance of microgravity measurements in the detection of active, shallow magmatic systems	Paolo Papale (1) Chiara Paola Montagna (1) Antonella Longo (1)	(1) INGV Pisa	Paolo Papale
06 - 102.	915	Dike propagation energy balance from deformation modeling and seismic release	Alessandro Bonaccorso (1) Yosuke Aoki (2) Eleonora Rivalta (3)	(1) Osservatorio Etneo (INGV-OE) - Sezione di Catania, Istituto Nazionale di Geofisica e Vulcanologia, Catania, Italy (2) Earthquake Research Institute, University of Tokyo (3) Helmholtz-Zentrum Potsdam - Deutsches GeoForschungsZentrum GFZ, Potsdam, Germany	Alessandro Bonaccorso
06 - 103.	938	Automatic detection of Long Period events based on the advanced subband analysis algorithm SALPED	Isaac Alvarez (1) Luciano Zuccarello (1,2) Luz García Martínez (1) Arianna Cuius (3) Giuseppe Di Grazia (2) María Carmen Benítez (1) Jesús M. Ibáñez (4,5) Stefano Gresta (3)	(1) Universidad de Granada, Dpto. de Teoría de la Señal, Telemática y Comunicaciones ETSI Informática y de Telecomunicación Universidad de Granada, Spain (2) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Catania - Osservatorio Etneo, Italy (3) Università degli Studi di Catania, Dipartimento di Scienze Geologiche, Biologiche ed Ambientali, Italy (4) Universidad de Granada, Departamento de Física Teórica y del Cosmos, Spain (5) Instituto Andaluz de Geofísica, Universidad de Granada, Spain	Isaac Alvarez
06 - 104.	1022	Integration of InSAR time series and GNSS data for reconstructing the 3D ground deformation of Etna in the last 4 years	Alessandro Bonforte Francesco Guglielmino	Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Catania - Osservatorio Etneo	Alessandro Bonforte
06 - 105.	1187	Sea-level oscillations and Ground Displacements by means of Tide Gauge Network: Neapolitan volcanic area case study.	Umberto Tammaro (1) Francesco Obrizzo (1) Adriano La Rocca (1) Salvatore Pinto (1) Giuseppe Brandi (1) Enrico Vertechì (1) Paolo Capuano (2)	(1) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano, Naples, Italy. (2) Università di Salerno, Dipartimento di Fisica "E.R. Caianiello"	Umberto Tammaro
06 - 106.	1188	Dynamics of Vulcano Island (Tyrrhenian Sea, Italy) investigated by long-term (40 years) geophysical data	Salvatore Alparone (1) Alessandro Bonforte (1) Salvatore Gambino (1) Francesco Guglielmino (1) Francesco Obrizzo (2) Rosanna Velardita (1)	(1) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Catania Osservatorio Etneo (2) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Napoli - Osservatorio Vesuviano	Alessandro Bonforte

S01.38 - The contribution of experimental and numerical investigations of eruptive processes for improving hazard assessment at volcanoes

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 107.	460	Crystallization of dacitic rocks of the Paraná Magmatic Province: A comparative approach based on natural and experimental products	Serena Pia De Cristofaro (1) Daniele Giordano (1) Liza Polo (2) Valdecir de Assis Janasi (2) Silvio Vlach (2)	(1) Department of Earth Sciences University of Torino, Via Valperga Caluso 35, Italy (2) Institute of Geosciences, University of Sao Paulo, Rua do Lago, 562, Cidade Universitaria, 05508-080 Sao Paulo, Brasil	Serena Pia De Cristofaro
06 - 108.	258	Olivine compositional changes in primitive skarn environments: A reassessment of divalent cation partitioning models to quantify the effect of carbonate assimilation	Flavio Di Stefano (1) Silvio Mollo (1,2) Piergiorgio Scarlato (2) Manuela Nazzari (1,2) Olivier Bachmann (3) Marco Caruso (1)	(1) Dipartimento di Scienze della Terra, Sapienza-Università di Roma, Rome, Italy (2) Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy (3) Department of Earth Sciences, Institute of Geochemistry and Petrology, ETH, Zurich, Switzerland	Flavio Di stefano
06 - 109.	273	Modeling the crystallization and emplacement conditions of a basaltic trachyandesitic sill at Mt. Etna volcano	Manuela Nazzari (1,2) Flavio Di Stefano (1) Silvio Mollo (1,2) Piergiorgio Scarlato (2) Vanni Tecchiato (1) Ben Ellis (3) Olivier Bachmann (3) Carmelo Ferlito (4)	(1) Dipartimento di Scienze della Terra, Sapienza-Università di Roma, Rome, Italy (2) Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy (3) Department of Earth Sciences, Institute of Geochemistry and Petrology, ETH, Zurich, Switzerland (4) Department of Biological, Geological and Environmental Sciences, University of Catania, Catania, Italy	Manuela Nazzari
06 - 110.	543	Solid-state sintering contributes to cyclical explosive activity at dome-producing volcanoes	Amy Ryan(1) J. K. Russell(1) Michael Heap(2)	(1) University of British Columbia (2) University of Strasbourg	Kelly Russell
06 - 111.	546	FOAMGLAS®: An ideal proxy for natural magmatic foams	Amy Ryan(1) Michael Heap(2) Stephan Kolzenburg(3) Alessandro Vona(4) J. K. Russell(1)	(1) University of British Columbia (2) University of Strasbourg (3) McGill University (4) Università degli Studi Roma Tre	Kelly Russell
06 - 112.	958	Development and validation of MagmaFOAM for the simulation of magmatic systems	Federico Brogi (1,2) Simone Colucci (2) Chiara Montagna (2) Mattia de' Michieli Vitturi (2) Paolo Papale (2)	(1) OGS, Italy (2) INGV Pisa, Italy	Federico Brogi
06 - 113.	433	Influence of extrusion rate and conduit flow mechanics on magma rheology and the growth style of lava domes: Insights from particle-dynamics modeling	Taha Husain (1) Derek Elsworth (1) Barry Voight (2) Glen Mattioli (3,4) Pamela Jansma (3,5)	(1) Energy and Mineral Engineering, G3 Center and EMS Energy Institute, The Pennsylvania State University, University Park, PA 16802, USA (2) Geosciences, The Pennsylvania State University, University Park, PA 16802, USA (3) Earth and Environmental Sciences, University of Texas at Arlington, Arlington, TX 76019, USA (4) UNAVCO, Inc., 6350 Nautilus Drive, Denver, CO, 80301, USA (5) College of Liberal Arts and Sciences and Geography and Environmental Sciences, University of Colorado Denver, Denver, CO 80217, USA	Glen Mattioli
06 - 114.	498	From pyroclasts to lava flow: rheology of a clastogenic lava	Alessandro Frontoni (1) Alessandro Vona (1) Guido Giordano (1) Marco Viccaro (2) Claudia Romano (1)	(1) Dipartimento di Scienze, Università degli Studi Roma Tre, L.go San Leonardo Murialdo 1, 00146 Roma, Italy (2) Dipartimento di Scienze Biologiche Geologiche e Ambientali, Università di Catania, Corso Italia 57, 95129 Catania, Italy	Alessandro Frontoni
06 - 115.	1182	Towards A Structural Model for the Viscosity of Geological Melts	Daniele Giordano	Earth Sciences Department - University of Torino	Daniele Giordano
06 - 116.	496	An experimental approach to investigate seismo-acoustic markers of degassing patterns	Laura Spina (1), Daniele Morgavi (1), Andrea Cannata (1), Carlo Campeggi (1), Diego Perugini (1)	(1) Department of Physics and Geology, University of Perugia	Laura Spina
06 - 117.	989	Effects of componentry, size and initial depth on particle acceleration within volcanic conduits	Cristian Montanaro (1) Bettina Scheu (2) Joali Paredes (3) Alejandra Arciniaga (4) Diego Perugini (3) Donald B Dingwell (2)	(1) British Geological Survey, The Lyell Centre, Edinburgh, United Kingdom (2) Università degli Studi di Bari "Aldo Moro", Dipartimento di Scienze della Terra e Geoambientali, Bari, Italy	Cristian Montanaro
06 - 118.	294	The influence of particle shape on the aerodynamics of volcanic particles: a new drag law and application to ash dispersal models.	Fabio Dioguardi (1) Daniela Mele (2) Pierfrancesco Dellino (2)	(1) British Geological Survey, The Lyell Centre, Edinburgh, United Kingdom (2) Università degli Studi di Bari "Aldo Moro", Dipartimento di Scienze della Terra e Geoambientali, Bari, Italy	Fabio Dioguardi
06 - 119.	506	A comprehensive approach for the investigation of ash aggregation in volcanic plumes	Eduardo Rossi (1) Stefano Pollastri (1) Costanza Bonadonna (1)	(1) Department of Earth Sciences, University of Geneva	Eduardo Rossi
06 - 120.	930	Impact of dissolved fluorine on surface tension of hydrous rhyolite	Simone Colucci (1)	(1) INGV, sezione di Pisa	Simone Colucci
06 - 121.	315	Combining numerical and experimental modelling to constrain the surge formation mechanism	Valentin Gueugneau (1) Karim Kelfoun (1)	(1) Laboratoire Magmas et Volcans, Université Clermont Auvergne - CNRS - IRD, OPGC, Campus Universitaire des Cézeaux, 6 Avenue Blaise Pascal, 63178 Aubière Cedex	GUEUGNEAU Valentin
06 - 122.	261	Experimental Study of vertical partial block effects on dilute pyroclastic density currents	Zhengquan Chen Jiandong Xu Haiquan Wei	Key Laboratory of Active Tectonics and Volcano, Institute of Geology, China Earthquake Administration, Beijing 100029, China	Zhengquan Chen
06 - 123.	791	The characteristics and consequences of turbulence in dilute pyroclastic density currents	Gert Lube (1) Matteo Cerminara (2) Ermanno Brosch (1) Eric Breard (3) Tomaso Esposti-Ongaro (2) Jim Jones (1)	(1) Volcanic Risk Solutions, Massey University (2) INGV (3) University of Oregon	Gert Lube
06 - 124.	272	Pyroclasts cooling through infrared thermography: the Agnano Monte Spina and Pollena cases of study	Aurora Silleni (1) Alex Scarani (1) Guido Giordano (1) Alessandro Vona (1) Claudia Romano (1)	(1) Dipartimento di Scienze, Sezione di Scienze Geologiche, Università "Roma Tre", Largo San Leonardo Murialdo 1, 00146 Roma, Italy	Aurora Silleni
06 - 125.	829	Storage region controls on dike propagation and the location of future eruptions	Stephen Pansino (1), Benoit Taisne (1)	(1) Nanyang Technological University/ Earth Observatory of Singapore	Stephen Pansino

S01.22 - Mapping volcanoes for hazard assessment, resource-management, and building cultural value of the territory

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 126.	186	Volcanic Hazard Map for Lahar and Pyroclastic Density Current by Lava Dome Collapse at Jeju Island, Korea	Sung-Hyo Yun (1) Waon-Ho Yi (2) Cheolwoo Chang (3)	(1) Department of Earth Science Education, Pusan National University, Busan 46241, Korea (2) Dept. of Architectural Engineering, Kwangwoon University, Seoul, 139-701, Korea (3) Department of Earth Science, Pusan National University, Busan 46241, Korea	Cheolwoo Chang
06 - 127.	442	The hazard map for Ceboruco volcano " modeling based on the eruptive history and final products	Katrin Sieron (2) Dolores Ferres (1) Claus Siebe (1) Robert Konstantinescu (4) Lucia Capra (3) Charles Connor (4) Laura Connor (4) Karime González-Zuccolotto (1) Gianluca Gropelli (5) Harald Boehnel (3) Javier Agustín-Flores (1)	(1) Departamento de Vulcanología. Instituto de Geofísica, Universidad Nacional Autónoma de México, CP 04510 Coyoacán, D.F., México (2) Centro de Ciencias de la Tierra, Universidad Veracruzana, Lomas del Estadio s/n, Zona Universitaria, Xalapa, C.P. 91090, Mexico (3) Centro de Geociencias, UNAM, Juriquilla, Querétaro, México (4) Geoscience Center, University of South Florida, USA (5) CNR - Istituto per la Dinamica dei Processi Ambientali - sez. di Milano, Italy	Claus Siebe
06 - 128.	594	Land-sea geological mapping of the active volcanic island of Vulcano (Aeolian Islands, Italy)	Lucchi F. (1), Casalbone D. (2), Romagnoli C. (1), Bosman A. (3), De Astis G. (4), Tranne C.A. (1), Chiocci F.L. (2)	(1) University of Bologna, Dip. Scienze Biologiche, Geologiche e Ambientali, P.zza Porta S. Donato 1, 40126, Bologna, Italy. (2) University Sapienza of Rome, Dip. Scienze della Terra, P.le Aldo Moro 5, 00185, Roma, Italy. (3) IGAG-CNR, Istituto di Geologia Ambientale e Geoingegneria, Area della Ricerca di Roma 1, Via Salaria Km 29,300 - C.P. 10 00016 Monterotondo Stazione, Roma, Italy. (4) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Roma 1, Roma, Italy.	Federico Lucchi
06 - 129.	697	The geological land-sea cartography of Ischia Island: knowledge at the basis of geo-environmental diversity	Lucilla Monti (1) Giuliana Balestrire (2) Maria Cristina Gambi (3) Romeo Toccaceli (4)	(1) Geologist, Geological Service Regione Campania (2) Biologist, Ischia (3) Marine Biologist, Center of Villa Dohrn (4) Geologist, Ischia CARG Project	Lucilla Monti
06 - 130.	720	Atlas of Volcanic Seamounts in Italy	Guido Giordano (1) Loredana Battaglini (2) Silvana D'Angelo (2) Andrea Fiorentino (2) Alessandra Pensa (3) Annamaria Pinton (1) Letizia Vita (2)	(1) Università Roma Tre (2) ISPRA (3) UNAM	Guido Giordano
06 - 131.	726	Assessment of connectivity and hydrological efficiency at Volcán de Colima, Mexico: spatiotemporal changes related to the July 2015 eruption	Azalea Ortiz (1) Lucia Capra (1)	(1) Universidad Nacional Autónoma de México, Centro de Geociencias	Azalea Ortiz
06 - 132.	768	Mapping the deep ravines and bush-clad peaks of a region's landmark: the first geological map of Pirongia Volcano, New Zealand	Oliver McLeod (1) Adrian Pittari (1) Marco Brenna (2) Roger Briggs (1)	(1) University of Waikato, New Zealand (2) Otago University, New Zealand	Oliver McLeod
06 - 133.	985	Thematic maps contribution to the flooding phenomena hazard assessment in a very active volcanic area: The case study of the eastern flank of Mt. Etna, Italy	Marina Bisson(1) Marco Neri(2) Claudia Spinetti(3) Paolo Stefanelli(4) Giuseppe Basile(5) Marinella Panebianco(5)	Marina Bisson(1) Marco Neri(2) Claudia Spinetti(3) Paolo Stefanelli(4) Giuseppe Basile(5) Marinella Panebianco(5)	Marina Bisson
06 - 134.	1080	New geological mapping (scale 1:10 000) and revised eruptive history of Ustica Island (southern Italy)	Eugenio Nicotra (1) De Vita Sandro (2) Donato Paola (1) Lucchi Federico (3) Tranne Claudio Antonio (3) De Rosa Rosanna (1)	(1) University of Calabria (2) INGV, Naples (3) University of Bologna	Eugenio Nicotra

S01.20 - Investigating eruption triggers and dynamic processes in magmas

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 135.	169	Dynamics of volcanic ash generation within the conduit: Effects of componentry, particles size and conduit geometry	Joali Paredes-Mariño (1) Bettina Scheu (2) Cristian Montanaro (3) Alejandra Arciniega (4) Donald B Dingwell (2) Diego Perugini (1)	(1) Dep. Physics and Geology, University of Perugia, Italy (2) Geo- und Umweltwissenschaften, Ludwig-Maximilians-Universität München, Germany (3) School of Environment, University of Auckland, New Zealand (4) Departamento de Vulcanología, Instituto de Geofísica, UNAM, México.	Joali Paredes-Mariño
06 - 136.	175	The 1906 Vesuvius eruption: highlight on eruptive mechanisms through ashes analyses and historical evidence	Elena Cubellis* Aldo Marturano* Lucia Pappalardo*	* Istituto Nazionale di Geofisica e Vulcanologia - Sezione di Napoli, Osservatorio Vesuviano	Elena Cubellis
06 - 137.	499	Experimental determinations of H2O and CO2 solubilities in ultrapotassic melts	Maximilian Schanofski (1) Sara Fanara (1) Burkhard Schmidt (1)	(1) Institute of Mineralogy, Georg-August-University of Goettingen	Maximilian Schanofski
06 - 138.	608	X-ray microtomographic investigation to explore magma mixing as eruption trigger: the 4.1 B.P. Agnano Monte Spina (Campi Flegrei, Italy) plinian eruption case study.	Carlo Pelullo (1,2) Lucia Pappalardo (2) Paola Petrosino (1)	(1) DiSTAR - Dipartimento di Scienze della Terra, dell'Ambiente e delle Risorse - Università degli Studi di Napoli Federico II, Complesso Universitario di Monte Sant'Angelo via Cinthia 26 80126 Napoli. (2) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Napoli - Osservatorio Vesuviano, Via Diocleziano, 328, I-80124 Napoli, Italy	Carlo Pelullo
06 - 139.	708	Vulcanian explosion triggers at Tungurahua volcano, Ecuador: The July 14th 2013 eruption	Elizabeth Gaunt (1) Patricia Mothes (1) John Browning (2) Philip Meredith (2)	(1) Instituto Geofísico, Escuela Politécnica Nacional, Quito, Ecuador (2) Rock and Ice Physics Laboratory, Department of Earth Sciences, University College London	Elizabeth Gaunt
06 - 140.	751	Pre-eruptive magmatic processes associated with the 2016-2018 explosive activity of Sabancaya volcano (Peru)	Nélida Manrique(1) Marco Rivera(1) Pablo Samaniego(2) Céline Liorzou(3)	(1) OVI, Observatorio Vulcanológico del INGEMMET (2) Laboratoire Magmas et Volcans, Université Clermont Auvergne-CNRS-IRD (3) Laboratoire Domaines Océaniques, Université de Bretagne Occidentale	Nélida Manrique
06 - 141.	759	Cryptic magma recharge controlling the intensity of basaltic eruptions during the twentieth century at Villarrica Volcano	Christian Pizarro 1, 2 Miguel Ángel Parada 1, 2 Claudio Contreras 3	1 Departamento de Geología, Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, 803 Plaza Ercilla, 8370450 Santiago, Chile. 2 Centro de Excelencia en Geotermia de los Andes (CEGA), Universidad de Chile, 803 Plaza Ercilla, 8370450 Santiago, Chile. 3 School of Earth Sciences, University of Bristol, Wills Memorial Building, Bristol BS8 1RJ, UK	Christian Pizarro
06 - 142.	925	Pre-eruptive conditions at the Colli Albani Volcano: experimental constraints from phase equilibria studies on a leucititic magma.	Sara Fanara (1) Burkhard Schmidt (1)	(1) Institute of Mineralogy, Georg-August University of Goettingen	Sara Fanara
06 - 143.	981	Phase equilibria experiments on a trachyte and a trachybasalt from the Campi Phlegrei Volcanic District (Italy)	Sara Fanara (1) Roman Botcharnikov (2) Danilo Palladino (3) Harald Behrens (4)	(1) 1 Institut für Mineralogie, Georg-August Universität Göttingen (2) Institute of Geosciences, Johannes Gutenberg University Mainz (3) Dipartimento di Scienze della Terra, La Sapienza Università di Roma (4) Institute of Mineralogy, Leibniz University of Hannover	Sara Fanara
06 - 144.	995	Analysis of petrographic patterns of Vesuvius and Campi Flegrei rocks through unsupervised neural networks	Antonietta M. Esposito (1) Flora Giudicepietro (1) Lucia Pappalardo (1) Gianmarco Buono (1,2)	(1) Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Napoli Osservatorio Vesuviano, Italy (2) Università degli Studi di Napoli Federico II, Napoli, Italy	Antonietta M. Esposito
06 - 145.	1007	Eruptive dynamics during low-magnitude event at Campi Flegrei (Italy): the AD 1538 Monte Nuovo eruption case study	Gianmarco Buono (1) Giovanni Macedonio (2) Lucia Pappalardo (2)	(1) University of Naples Federico II, Department of Earth, Environmental and Resources Science, Italy (2) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano, Italy	Gianmarco Buono
06 - 146.	1013	Rapid carbonate assimilation as eruption trigger: new insights from a Somma-Vesuvius (Italy) plinian eruption	Gianmarco Buono (1) Benjamin Edwards (2) Lucia Pappalardo (3) Paola Petrosino (1)	(1) University of Naples Federico II, Department of Earth, Environmental and Resources Science, Italy (2) Dickinson College, Department of Earth Sciences, USA (3) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Vesuviano, Italy	Gianmarco Buono

S02.08 - Coordination of Civil Protection and Scientific community: best practices to support the management of volcanic crises and the long-term risk mitigation plans

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 147.	313	Communication strategies between volcano observatories and the Volcanic Ash Advisory Centres	Nina Kristiansen (1) Claire Witham (1)	(1) UK Met Office	Nina Kristiansen
06 - 148.	730	Volcano Observatory Crisis Operations - VDAP and USGS Perspectives on Best Practices	John Pallister (1) John Ewert (1)	(1) USGS Cascades Volcano Observatory	John Pallister
06 - 149.	789	Network of community vigias in Nevado del Ruiz Volcano influence zone: formalization of a cooperative relationship in volcanic monitoring of great importance in risk management processes	G. P. Cortés J. (1) J. Montoya A. (2) A. M. Ospina R. (3) C. M. López V. (1) L. J. Castaño V. (1) M. L. Calvache V. (1)	(1) Colombian Geological Survey (2) USAID/ OFDA (3) Colombian Red Cross	G. P. Cortés J.
06 - 150.	908	Volcanic alert levels and rational decision-making	Paolo Papale (1) Warner Marzocchi (2)	(1) INGV Pisa (2) INGV Roma1	Paolo Papale
06 - 151.	1146	The evacuation plan by the Campania region in the red zone of Vesuvius area	Francesca_Maggiò; Celestino_Rampino;Ciro_Marciano; Emilio_Ferrara; Massimo_Pinto; Sergio_Negro	# Regione Campania # ACAMIR	Francesca Maggiò
06 - 152.	1154	The evacuation plan by the Campania region in the red zone of Campi Flegrei area	Celestino_Rampino; Francesca_Maggiò;;Ciro_Marciano; Emilio_Ferrara; Massimo_Pinto; Sergio_Negro	# Regione Campania # ACAMIR	Celestino Rampino

S02.16 - Volcanic ashfall & gas impacts: existing and future resources in support of preparedness, assessment and mitigation

Position	ID	Title	Author Name	Affiliations	Presenter Name
06 - 153.	168	Tephra without borders: Building a global tephra data system across disciplines	Janine B. Krippner (1) Stephen C. Kuehn (1) Cheryl E. Cameron (2) Simon Goring (3) Kerstin Lehnert (4) Douglass Fils (5) Amy Myrbo (6) Anders Noren (6)	(1) Concord University, WV, USA (2) Alaska Volcano Observatory, Alaska Division of Geological & Geophysical Surveys (3) University of Wisconsin - Madison, WI, USA (4) Lamont-Doherty Earth Observatory (5) Consortium for Ocean Leadership (6) LacCore/CSDCO University of Minnesota	Janine B. Krippner
06 - 154.	407	Continuous high degassing and strong ash discharge from Ibu volcano, Halmahera, Indonesia	Hilma Alfianti (1) Philipson Bani (1,2) Sofyan Primulyana (1) Ugan B. Saing (1) Nia Haerani (1) Umar Rosadi (1)	(1) Center of Volcanology and Geological Hazard Mitigation, Jl. Diponegoro no.57, Bandung, Indonesia (2) Laboratoire Magmas et Volcans, Université Blaise Pascal - CNRS - IRD, OPGC, Campus Universitaire des Cézeaux, 6 Avenue Blaise Pascal, 63178 Aubière Cedex	Hilma Alfianti
06 - 155.	502	"The plume goes around like a snake": establishing a monitoring system for volcanic gas & aerosol pollution in Nicaragua	Evgenia Ilyinskaya (1) Sara Barsotti (2) Harold Rodriguez Bellanger (3) James O'Neill (1) Mark Richardson (1) Xochilt Hernandez Leiva (4) Sebastien Nobert (3, 5) Hilary Francis (6) Wilfried Strauch (7) the UNRESP team (8)	(1) University of Leeds, UK (2) Icelandic Meteorological Office, Iceland (3) IDEAS, Nicaragua (4) Universidad Americana, Nicaragua (5) University of Montreal, Canada (6) Northumbria University, UK (7) INETER, Nicaragua (8) http://unresp.com	Evgenia Ilyinskaya
06 - 156.	972	Estimation of thickness of volcanic ash in upper area near the vent by LiDAR data measured on Sakurajima volcano, Japan	Naoki Fujimura (1) Msaki Mizuno (1) Hiroshi Nishii (1) Yasuo Ishii (1) Shuji Seto (2) Chaowen Wang (2)	(1) Public Works Research Institute (2) OYO corporation	Naoki Fujimura