

CONVENERS:

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S01.34 - Volcanoes from the space

Time	ID	Title	Author Name	Affiliations	Presenter Name
8.30 - 8.45	960	A multi-sensor integrated approach for the proximal and distal monitoring of the volcanic eruptions	Stefano Corradini (1)   Luca Merucci (1)   Dario Stelitano (1)   Lorenzo Guerrieri (2)   Massimo Musacchio (1)   Malvina Silvestri (1)   Valerio Lombardo (1)   Simona Scollo (3)   Michele Prestifilippo (3)   Gaetano Spata (3)   Matthieu Poret (4)   Antonio Costa (4)	(1) INGV - ONT, Rome, Italy   (2) CNR - ISAC, Bologna, Italy   (3) INGV - OE, Catania, Italy   (4) INGV - Bologna, Italy	stefano corradini (Invited)
8.45 - 9.00	76	Interpreting volcanological processes using NASA space-borne remote sensing imagery.	Verity Flower (1, 2)   Ralph Kahn (1)	(1) Climate and Radiation Laboratory, Earth Science Division, NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA   (2) Universities Space Research Association, 7178 Columbia Gateway Drive, Columbia, MD 21046, USA.	Verity Flower
9.00 - 9.15	468	Lava lake level changes measured by times series of SAR amplitude: a proxy for pressure changes in the magmatic system at active volcanoes	Nicolas d'Oreye (1,2)   Julien Barrière (1)   Dominique Derauw (1,3)   Halldor Geirsson (4)   Benoît Smets (5)   Adrien Oth (1)   Sergey Samsonov (6)   François Kervyn (5)	(1) European Center for Geodynamics and Seismology, Luxembourg   (2) National Museum of Natural History, Luxembourg   (3) Centre Spatial de Liège, Belgium   (4) University of Iceland, Iceland   (5) Royal Museum for Central Africa, Belgium   (6) Canada Centre for Mapping and Earth Observation, Natural Resources, Canada	Nicolas d'Oreye
9.15 - 9.30	1196	Multi-sensor remote sensing analysis to monitor active volcanic areas: an application to the 2011-2015 eruptive activity of Mount Etna (Italy)	Maria Marsella (1,2)   Mauro Coltelli (3)   Josè F. Guerrero Tello (1)   Peppe J.V. D'Aranno (2)   Michele Martino (1)   Cristina Proietti (3)   Silvia Scifoni (4)	(1) Università di Roma La Sapienza, Via Eudossiana 18, 00184 Rome, Italy   (2) Survey Lab, Spinoff Sapienza University, Via Eudossiana 18, 00184 Rome Italy   (3) Istituto Nazionale di Geofisica e Vulcanologia, Osservatorio Etno, Piazza Roma 2, 95125 Catania, Italy   (4) Serco Italia S.p.A., Via Sciadonna 24-26 00044 Frascati (Roma), Italy	Josè Francisco Guerrero Tello
9.30 - 9.45	128	MIROVA: Middle Infrared Observation of Volcanic Activity	Diego Coppola (1)   Marco Laiolo (2)   Dario Delle Donne (3)   Corrado Cigolini (1)   Maurizio Ripepe (2)	(1) University of Turin   (2) University of Florence   (3) University of Palermo	Diego Coppola
9.45 - 10.00	603	MOUNTS: a Sentinel-powered monitoring system for volcano monitoring	Sébastien Valade (1,2)   Thomas R. Walter (2)   Andreas Ley (1)   Olaf Hellwich (1)   Diego Coppola (3)   Marco Laiolo (3)   Francesco Massimetti (4)	(1) Technische Universität Berlin   (2) GFZ Potsdam   (3) University of Torino   (4) University of Firenze	Sébastien Valade
10.00 - 10.15	734	Satellite-based thermal precursors of volcanic eruptions	Társilo Girona (1)   Vincent Realmuto (1)	(1) Jet Propulsion Laboratory, California Institute of Technology	Társilo Girona
10.15 - 10.30	1046	Systematic and automatic ground deformation monitoring via space-borne DInSAR techniques	Francesco Casu (1)   Manuela Bonano (1)(2)   Raffaele Castaldo (1)   Claudio De Luca (1)   Vincenzo De Novellis (1)   Riccardo Lanari (1)   Michele Manunta (1)   Mariarosaria Manzo (1)   Fernando Monterroso (1)(3)   Giovanni Onorato (1)   Susi Pepe (1)   Giuseppe Solaro (1)   Pietro Tizzani (1)   Ivana Zinno (1)	(1) CNR-IREA   (2) CNR-IMAA   (3) University of Napoli "Parthenope"	Francesco Casu (Invited)

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Corentin Caudron | Ghent University, Belgium • corentin.caudron@gmail.com

Jean Soubestre | Instituto Volcanológico de Canarias, Spain • jsoubestre@iter.es

Benoît Taisne | Earth Observatory of Singapore, Singapore • btaisne@ntu.edu.sg

S01.04 - Advanced and non-conventional seismic methods for monitoring active volcanoes					
Time	ID	Title	Author Name	Affiliations	Presenter Name
14.30 - 14.45	206	Noise-based seismic monitoring of the Campi Flegrei caldera	Lucia Zaccarelli (1)   Francesca Bianco (2)	(1) INGV, sez. Bologna   (2) INGV, Osservatorio Vesuviano	Lucia Zaccarelli
14.45 - 15.00	281	Methods of automatic recognition of seismo-volcanic events: State-of-the-art and perspectives	Philippe Lesage (1)   Guillermo Cortés (2)   Roberto Carniel (2)   M. Carmen Benítez (3)   Manuel Titos Luzón (3)   Ángel Bueno Rodríguez (3)   Luz García Martínez (3)   Raúl Arámbula Mendoza (4)	(1) Université Grenoble Alpes, Université Savoie Mont Blanc, CNRS, IRD, IFSTTAR, ISTerre, 38000 Grenoble, France.   (2) Dipartimento Politecnico di Ingegneria e Architettura, Università degli Studi di Udine, Udine, Italy.   (3) Departamento de Teoría de la Señal, Telemática y Comunicaciones, E. T. S. de Ingenierías Informática y de Telecomunicación. Universidad de Granada, Granada, Spain.   (4) Centro Universitario de Estudios e Investigaciones en Vulcanología, Universidad de Colima, Mexico.	Philippe Lesage (Invited)
15.00 - 15.15	318	Integrating passive seismicity with Web-Based GIS for a new perspective on volcano imaging and monitoring: the case study of Mt. Etna	Roberto Guardo (1)   Luca De Siena (2)	(1) CONICET - UNRN   (2) University of Aberdeen	Roberto Guardo
15.15 - 15.30	358	Detecting hidden seismo-volcanic events through the seismic network covariance matrix analysis	Jean Soubestre (1)   José Barrancos (1,2)   Luca D'Auria (1,2)   German D. Padilla (1,2)   Nikolai M. Shapiro (3,4)   Léonard Seydoux (5)   Nemesio M. Perez (1,2)	(1) Instituto Volcanológico de Canarias (INVOLCAN), Puerto de la Cruz, Tenerife, Spain   (2) Instituto Tecnológico y de Energías Renovables (ITER), Granadilla de Abona, Tenerife, Spain   (3) Institut de Physique du Globe de Paris (IPGP), UMR CNRS 7154, Paris, France   (4) Schmidt Institute of Physics of the Earth, Russian Academy of Sciences, Moscow, Russia   (5) Université Grenoble Alpes, Institut des Sciences de la Terre (ISTerre), Grenoble, France	Jean Soubestre
15.30 - 15.45	445	Seismo-acoustic wavefield of Strombolian explosions at Yasur volcano, Vanuatu using a broadband seismo-acoustic network and infrasonic sensors on a tethered aerostat	Robin Matoza (1)   Arthur Jolly (2)   Bernard Chouet (3)   Phillip Dawson (4)   David Fee (5)   Alex Iezzi (5)   Ben Kennedy (6)   Rebecca Fitzgerald (6)   Richard Johnson (2)   Geoff Kilgour (2)   Bruce Christenson (2)   Eslina Garaebiti (7)   Nick Key (6)	(1) University of California, Santa Barbara, USA   (2) GNS Science, New Zealand   (3) Chemin des Lys 13, 1273 Arzier-Le Muids, Switzerland   (4) U.S. Geological Survey, Menlo Park, CA, USA   (5) University of Alaska, Fairbanks, USA   (6) University of Canterbury, New Zealand   (7) Vanuatu Meteorology and Geohazards Department, Vanuatu	Robin Matoza
15.45 - 16.00	512	6C ground motion observations on volcanoes: opportunities, experiments, observations	J. Wassermann (1)   H. Igel (1)   F. Guattari (2)   C.J. Bean (3)   K.L. Li (3)   M. Möllhoff (3)   A. Bell (4)   M. Ruiz (5)   J. McCloskey (4)	(1) Ludwig-Maximilians-University   (2) iXblue   (3) Dublin Institute for Advanced Studies   (4) University of Edinburgh   (5) IGEPN Ecuador	C.J. Bean
16.00 - 16.15	526	Features of Seismic Events Within the Lazufre Volcanic System, Northern Chile/Argentina	Heather McFarlin   Stephen R. McNutt   Glenn Thompson   Jochen Braunmiller	University of South Florida, USA	Heather McFarlin
16.15 - 16.30	561	The vibrant future of seismology by using fibre optic cables	Philippe Jousset (1), Thomas Reinsch (1), Trond Ryberg (1), Hanna Blanck (2), Andy Clarke (3), Rufat Aghayev (3), Gylfi Páll Hersir (2), Michael Weber (1,4), Charlotte Krawczyk (1,5)	(1) GFZ Potsdam, Potsdam, Germany (pjousset@gfz-potsdam.de), (2) ÍSOR Iceland Geosurvey, Reykjavik, Iceland, (3) Silixa Ltd, Elstree, Borehamwood, UK, (4) Univ. of Potsdam, Institute of Earth and Environmental Science, Potsdam, Germany, (5) Technical Univ. of Berlin, Germany	Philippe Jousset
17.00 - 17.15	717	Towards using tides to detect when volcanoes are ready to erupt	Társilo Girona (1)   Christian Huber (2)   Corentin Caudron (3)	(1) Jet Propulsion Laboratory, California Institute of Technology   (2) Department of Earth, Environmental and Planetary Sciences, Brown University   (3) Department of Geology, Ghent University	Társilo Girona
17.15 - 17.30	761	"LAKIY" - An automatic-supervised system for Near-Real Time processing of volcanic seismicity	Oscar Cadena Ibarra (1)   Jhon Meneses Muñoz (1)	Servicio Geológico Colombiano	Oscar Cadena Ibarra
17.30 - 17.45	797	Seismic velocity changes at White Island volcano, New Zealand, using ten years of ambient noise interferometry	Alexander Yates (1)   Martha Savage (1)   Arthur Jolly (2)   Corentin Caudron (3)	(1) Victoria University of Wellington, New Zealand   (2) GNS Science, New Zealand   (3) Ghent University, Belgium	Alexander Yates
17.45 - 18.00	865	Towards forecasting gas-driven eruptions using continuous seismic recordings	Corentin Caudron (1)   Társilo Girona (2)   Yosuke Aoki (3)   Thomas Lecocq (4)   Benoit Taisne (5,6)   Raphael De Plaen (7)   Toshiko Terakawa (8)   Suparjan (9)	(1) Department of Geology, Ghent University, Belgium   (2) Jet Propulsion Laboratory, California Institute of Technology, USA   (3) Earthquake Research Institute, Japan   (4) Royal Observatory of Belgium, Belgium   (5) Earth Observatory of Singapore, Singapore   (6) Asian School of Environment, Nanyang Technological University, Singapore   (7) Centro de Sismología y Vulcanología de Occidente, University de Guadalajara, Mexico   (8) Nagoya University, Japan   (9) Center for Volcanology and Geological Hazard Mitigation, Bandung, Indonesia	Corentin Caudron
18.00 - 18.15	872	Quantifying accelerating time-series of volcanic earthquakes: Bayesian point process models for clustered and anti-clustered seismicity.	Andrew Bell (1)   Alyssa Crippen (1)   Mark Naylor (1)   Stephen Hernandez (2)   Ian Main (1)   Mario Ruiz (2)	(1) School of GeoSciences, University of Edinburgh, Edinburgh, U.K.   (2) Instituto Geofísico, Escuela Politécnica Nacional, Quito, Ecuador	Andrew Bell
18.15 - 18.30	917	Single-station seismo-acoustic monitoring of Nyiragongo's lava lake activity (D.R. Congo)	Julien Barrière (1)   Nicolas d'Oreye (1,2)   Adrien Oth (1)   Halldor Geirsson (3)   Niche Mashagiro (4)   Jeffrey B. Johnson (5)   Benoît Smets (6)   François Kervyn (6)	(1) European Center for Geodynamics and Seismology, Luxembourg   (2) National Museum of Natural History, Luxembourg   (3) University of Iceland, Iceland   (4) Goma Volcano Observatory, Democratic Republic of the Congo   (5) Boise State University, USA   (6) Royal Museum for Central Africa, Belgium	Julien Barrière
18.30 - 18.45	962	Monitoring volcanoes using seismic anisotropy	Martha Savage (1)   Jessica Johnson (2)   Toshiko Terakawa (3)   Michael Kendall (4)   Takuto Maeda (5,6)   Yosuke Aoki (5)	(1) Victoria University of Wellington, NZ   (2) University of East Anglia, GB   (3) Nagoya University, Japan   (4) Univ. of Bristol, GB   (5) ERI, Univ. of Tokyo, Japan   (6) Hirosaki Univ., Japan	Martha Savage
18.45 - 19.00	1067	Automatic Relative reLocation of microseismicity at active volcanoes in Vatnajökull glacier, Iceland	Kristín S. Vogfjörð (1)   Gunnar B. Gudmundsson (1)   Ragnar Slunga (2)	(1) Icelandic Meteorological Office, Reykjavik, Iceland   (2) QuakeLook AB, Stockholm, Sweden	Kristín S. Vogfjörð