

SESSIONE POSTER

CHIOSTRO DI LEVANTE

Martedì 7 luglio 17:30 - 19:30
Mercoledì 8 luglio 16:00 - 17:30
Giovedì 9 luglio 9:00 - 10:30

S01 - MULTI-HAZARD AND RISK IN VOLCANIC SETTINGS: PAST EFFORTS, RECENT CRISES, AND THE ROAD FROM ASSESSMENT TO RISK MANAGEMENT.

Annalisa Cappello, Antonio Colombi, Laura Sandri, Eugenio Privitera

Pannello 1

AI-Based Risk Communication and Conscious Tourism Development in Volcanic Areas.
The Case of Mr Plinio, the AI assistant of Vesuvius National Park
Rossella Barile, Fabio Corbisiero, Guido Guarino, Salvatore Monaco, Giovanni Romano

Pannello 2

Improved size distribution for improved volcanic hazard assessment
Salvatore Ferrara, Jacopo Selva, Jacopo Natale, Warner Marzocchi

Pannello 3

Web and Social Media Communication During the 2025-2026 Mt. Etna Eruption
Maddalena De Lucia, working group INGVvulcani

Pannello 4

A space-based volcano observatory: toward an integrated multi-platform and multi-spectral infrastructure for near-real-time monitoring of Italian volcanoes
Simone Aveni, Giuseppe Bilotta, Annalisa Cappello, Francesco Spina, Stefano Branca, Gaetana Ganci

Pannello 5

Lava Flow Hazard and Impact on Natural Habitats: The Mount Etna Case Study
Claudia Colombo, Francesco Zuccarello, Giulia Miraglia, Giuseppe Bilotta, Annalisa Cappello, Gaetana Ganci, Gian Pietro Giusso del Galdo

Pannello 6

Secondary Volcanic Hazards by using Optical Satellite Data: The Case of Stromboli Volcano
Claudia Spinetti, Stefania Amici, Roberto Gianardi, Francesca Iacono, Monica Palaseanu-Lovejoy, Marina Bisson

Pannello 7

Validating gas-particle flow dynamics in computational volcanology: From fluidized particle beds to three-dimensional eruption scenarios
Jane Halfhill, Mattia de' Michieli Vitturi, Tomaso Esposti Ongaro, Augusto Neri

S02 - VOLATILES IN MOTION: GEOCHEMICAL INSIGHTS INTO MAGMA DEGASSING, VOLATILE TRANSFER, AND SURFACE GAS EMISSIONS

Andrea Ricci, Pierangelo Romano

Pannello 8

Thermal response analysis of soil heated by CO₂ emissions detected by a TIR camera estimates the most abundant vent emission flux in Lake Mefite.

Cristiano Fidani

Pannello 9

Gas manifestations at Pantelleria island (Italy): Extensive mapping through usual field methods and Unmanned Aircraft Systems and geochemical characterization of the emitted gases

Sergio Bellomo, Angelo Battaglia, Antonino Pisciotta, Walter D'Alessandro

Pannello 10

Long-term gas measurements and satellite imagery give insight into recent activity changes at El Chichón Volcano

Ali Zare, Robin Campion, Sébastien Valade, Mariana Patricia Jácome Paz, Astrid Hernández Sánchez, Miguel-Ángel Alatorre Ibarra, Miguel-Ángel Alatorre Ibarra

Pannello 11

Eruptive style as a key control on volcanic ash leachates chemistry at Stromboli volcano (2019-2024)

Emanuela Bagnato, Daniele Andronico, Daniele Cinti, Antonio Cristaldi, Elisabetta Del Bello, Fabrizio Di Fiore, Alessandro La Spina, Manuela Nazzari, Piergiorgio Scarlato, Jacopo Taddeucci

Pannello 12

H₂O-CO₂ solubility in Pomice di Base trachyte (Somma-Vesuvius): new experimental constraints

Monica Spagnoli, C. Federica Faranda, Sara Fanara, Gianluca Sottili

Pannello 13

Depth, temperature and oxygen fugacity for the origin of mantle fluids: a preliminary revaluation

Edoardo Di Rollo, Cristina Perinelli, Mario Gaeta, Antonio Caracausi, Vincenzo Stagno

Pannello 14

Radon time series in the Etna area: integrated analysis with meteorological, seismic, and volcanic data (2022-2025)

Giuseppina Stissi, Salvatore Giammanco, Andrea Ursino, Vincenza Maiolino, Andrea Cannata

Pannello 15

3D geothermal modeling of the Lacco Ameno fault system (Ischia, Italy)

Annarita Mangiacapra, Zaccaria Petrillo, Sergio Scippacercola, Bellina Di Lieto, Pierdomenico Romano, Stefano Caliro

Pannello 16

Application of activated carbon traps to quantify mercury emissions in volcanic and hydrothermal environments

Federica Benedetti, Vincenzo Stagno

Pannello 17

Insights into mercury degassing at Mt. Etna: From interstitial soil concentrations to gaseous elemental mercury (GEM) emissions using the accumulation chamber method

Francesco Tripodi, Filippo Brugnone, Walter D'Alessandro, Giovannella Pecoraino, Vincenzo Stagno, Sergio Calabrese

Pannello 18

Visibility Graph analysis for the characterization of soil CO₂ emissions from an active volcano

Salvatore Scudero, Marco Liuzzo, Antonino D'Alessandro, Giovanni Bruno Giuffrida

Pannello 19

Carbon-based geochemical proxies reveal hidden magmatic SO₂ input in hydrothermal systems

Andrea Ricci, Jens Fiebig, Franco Tassi, Sven Hoffman, Francesco Capecchiacci, Orlando Vaselli

Pannello 20

The February-April 2021 sequence of lava fountain paroxysms on Mt Etna: source mechanism deciphered from ground based and satellite survey of volcanic gas emissions

Giuseppe Salerno, Alessandro La Spina, Patrick Allard, Lorenzo Guerrieri, Stefano Corradini, Giuseppe Di Grazia, Luca Merucci, Pietro Bonfanti, Dario Stelitano, Roberto Maugeri, Filippo Murè, Paolo Principato

Pannello 21

Effect of water on CO₂ diffusion in basaltic melts: experimental insights

C. Federica Faranda, Burkhard C. Schmidt

S03 - TRACKING MAGMA ASCENT FROM RESERVOIRS TO SURFACE: BRIDGING EXPERIMENTS, MODELLING AND OBSERVATIONS TO INVESTIGATE PRE- AND SYN-ERUPTIVE PROCESSES

Barbara Bonechi, Emily C. Bamber, Elisa Biagioli, Giuseppe La Spina

Pannello 22

Exploring subsurface magma dynamics during the Aug-Oct 2015 Piton de la Fournaise eruption via numerical modelling

Elisa Biagioli, Giuseppe La Spina, Mattia de' Michieli Vitturi, Barbara Bonechi, Andrea Di Muro, Lucia Gurioli, Diego Coppola, Aline Peltier, Mario Angarita Vargas, Ronni Grapenthin, Mike Burton, Margherita Polacci

Pannello 23

Thirteen years of petrological monitoring at Etna

Massimiliano Cardone, Marisa Giuffrida, Giorgio Costa, Marco Viccaro

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Direct observation of vesiculation dynamics in basaltic magmas via in-situ X-ray radiography

Barbara Bonechi, Margherita Polacci, Fabio Arzilli, Giuseppe La Spina, Jean-Louis Hazemann, Richard Brooker, Robert Atwood, Sebastian Marussi, Peter Lee, Mike Burton

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Experimental Insights into Clinopyroxene-Melt Interactions and Mush Reactivation

Cristina Perinelli, Barbara Bonechi, Alessandro Fabbrizio, Danilo M. Palladino, Mario Gaeta

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Unconventional ways to derive viscosity of melts prone to crystallization

Danilo Di Genova, Pedro Valdivia

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Petrology as a monitoring tool: insights from the 2021 Mt. Etna eruptive period

Alessandro Musu, Thomas Griffiths, Rosa Anna Corsaro, Laura Spina, Daniele Morgavi, Maurizio Petrelli, Fabio Arzilli, Luca Caricchi

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Pre- and syn-eruptive conditions of the 2020-2021 paroxysms at Mt. Etna

Emily C. Bamber, Giuseppe La Spina, Dmitry Bondar, Fabio Arzilli, Sumith Abeykoon, Rebecca Cavallera, Martin Kares, Rosa Anna Corsaro, Laura Calabro, Margherita Polacci, Danilo Di Genova

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Insights into the processes and timescales of magma storage and ascent at Campi Flegrei caldera: From natural samples to experiments

Gianmarco Buono, Lucia Pappalardo, Sara Fanara

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Shear-induced crystallization as a trigger for rapid solidification of basalts: Implications for magma dynamics

Fabrizio Di Fiore, Alessio Pontesilli, Giacomo Pozzi, Gianmarco Buono, Laura Calabrò, Silvio Mollo, Lucia Pappalardo, Piergiorgio Scarlato, Claudia Romano, Jacopo Taddeucci, Alessandro Vona

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Influence of magma flow on the crystallization kinetics of basalts

Camilla Calagreti, Fabrizio Di Fiore, Claudia Romano, Alessandro Vona

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The role of magma composition and pre-eruptive conditions during the 2020-2022 paroxysmal activity at Mt. Etna: a numerical investigation

Giuseppe La Spina, Rosa Anna Corsaro, Lucia Miraglia

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Sutures in mafic pyroclasts

Jacopo Taddeucci, Daniele Andronico, Elisabetta Del Bello, Tullio Ricci, Michael Manga, Vladimir Roddatis, Anja Schreiber, Francesco Pennacchia, Alessio Pontesilli, Fabrizio Di Fiore, Francesco Tatti, Manuela Nazzari, Fatima Rodríguez, Piergiorgio Scarlato

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Multi-level magma storage and recharge dynamics governing the 1928 AD lateral eruption of Mascalì (Mount Etna, Italy)

Alexander Bolam, Nicolò Nardini, Federico Casetta, Simone Costa, Pier Paolo Giacomoni, Stefano Peres, Pia Prašek, Gabriele Lanzafame

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Refining elemental partitioning schemes in primitive to intermediate magmatic systems

Alessio Pontesilli, Fabrizio Di Fiore, Silvio Mollo, Marco Brenna, Olivier Bachmann, Manuela Nazzari, Piergiorgio Scarlato

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Melt composition control on nanocrystallisation and crystallisation dynamics in basaltic melts

Emanuele Quinzi, Danilo Di Genova, Sumith Abeykoon, Laura Calabrò, Alessandro Vona, Claudia Romano

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Kinetics of clinopyroxene crystallization in a basaltic melt from Stromboli volcano

Fabio Colle, Michel Pichavant, Matteo Masotta, Ida di Carlo, Juan Andujar, Massimo Pompilio

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Experimental constraints on carbonate-silicate melt interaction at 1 GPa in natural ultrabasic systems

Federica Rossetti, Fabio Colle, Matteo Masotta, Michele Lustrino

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Geomorphological, mineralogical and geochemical characterisation of postglacial lava flows of the Nevado Coropuna volcanic complex (Peru)

Giacomo Pincin, Daniele Morgavi, Ciro Cucciniello, Diego Di Martire, Fabio Arzilli, Gianmarco Buono, Lucia Pappalardo, David Valdivia, Marco Rivera, José Úbeda, Gordon Bromley, Jean-Claude Thouret

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Fractal behaviour and discharge rate in lava flows: case studies from Etna volcano

Salvatore Scudero, Gianluca Groppelli, Silvia Minissale

S04 - REVEALING THE DYNAMICS OF MAGMA ASCENT IN OPEN-VENT AND DORMANT VOLCANOES

Flora Giudicepietro Lucia Pappalardo

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Timescales and magma dynamics of the plumbing system feeding a Plinian eruption: the 79CE eruption of Somma-Vesuvius, Italy

Pierangelo Romano, Carlo Pelullo, Sumit Chakraborty, Andrea Luca Rizzo, Helene Balcone-Boissard, Domenica Sparice, Domenico Doronzo, Mauro Antonio Di Vito, Ilenia Arienzo

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Recent unrest phases at Vulcano Island (Italy) in the regional volcano-tectonic framework: insights from GNSS and InSAR observations

Francesca Silverii, Elisa Trasatti, Massimo Nespoli, Marco Polcari, Mimmo Palano, Giuseppe Pezzo, Gianfilippo De Astis, Cristiano Tolomei

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Large effusive eruptions of Bracciano Caldera (Sabatini volcanic system, Italy)

Luca Morganti, Fabio Arzilli, Daniele Morgavi, Matteo Masotta, Fabrizio Di Fiore, Alessandro Frontoni, Emily C. Bamber, Margherita Polacci, Alessio Pontesilli, Sandro Conticelli, Eleonora Paris, Guido Giordano, Michael R. Carroll

S05 - TRANSDISCIPLINARY APPROACHES TO VOLCANO MONITORING AND HAZARD ASSESSMENT: AI, SEISMOLOGY, GEODESY, AND REMOTE SENSING

Roberto Manzo, Umberto Tammaro, Claudio Martino, Marius Isken

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Characterizing Ambient Seismic Noise in the Campi Flegrei Caldera: Implications for Volcano Monitoring in Urban Environments

Roberta Esposito, Lucia Nardone, Roberto Manzo, Guido Gaudiosi, Massimo Orazi

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Prometeo: a real-time remote-control system supporting the operability of the Osservatorio Vesuviano seismic network

Aldo Benincasa, Antonio Caputo, Giovanni Scarpato, Massimo Orazi, Roberto Manzo, Francesco Liguoro

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Volcanic deformation monitoring in Northern Ecuador using the DInSAR technique

Gianella Bravo, Diego Capa, Valeria Vaca, Victoria Rosado, Nadia Lagasca, Henry Pacheco, Maurizio Mulas

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Integrated Long-Term Geodetic Observations of the Pernicana Fault System (Mount Etna)

Alessandro Bonforte, Stefano Branca, Giuseppe Brandi, Salvatore Consoli, Elena Cubellis, Salvatore Gambino, Francesco Guglielmino, Francesco Obrizzo, Giuseppe Puglisi, Umberto Tammaro

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A long-lasting inflation at Mt. Etna volcano: revisiting the post 1991-1993 eruption time interval

Martina Criscillo, Davide De Caro, Matteo Nocera, Mimmo Palano

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Stromboli's explosions from land and sea : Insights from Ocean Bottom Seismometers Data
Zoé Plunian, Giorgio Lacanna, Jean-Philippe Metaxian

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EtnaMonitor: reducing false alerts in real-time volcano monitoring from public feeds using hysteresis, cooldown policies and AI-assisted development

Salvatore Ferro

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UAV Radiometric TIR Orthomosaics for Surface Heat-Flux Quantification in Quiescent Volcanic-Hydrothermal Systems: A Case Study at Pantelleria Island (Sicily Channel Rift, Italy)

Antonino Pisciotta, Angelo Battaglia, Sergio Bellomo, Walter D' Alessandro, Daniel Müller

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Implementation and performance of a GNSS RTX network for rapid ground deformation monitoring in the Campi Flegrei caldera

Antonio Iorio, Giuseppe Brandi, Gianpaolo Cecere, Prospero De Martino, Mario Dolce, Giovanni Scarpato, Umberto Tammaro

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Multi-temporal deformation analysis for monitoring hydrothermal systems in Great Geysir, Iceland

Gianella Bravo, Francesco Gabriele Dessì, Maria Teresa Melis, Giulio Vignoli, Laura Pioli

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Integrated Thermal-Optical UAS Mapping of the Alalobad Hydrothermal Field (Afar, Ethiopia): Fault-Controlled Heat Discharge, Extremophile Niche Partitioning, and Biosignature Detection in a Mars Analogue Setting

Antonino Pisciotta, Giovannella Pecoraino, Monica Pondrelli, Micol Bellucci, Rebecca Martellotti, Sabina Morici, Cinzia Caruso, Jemal Ahmed, Enku Mulugeta Abraham, Abdu Ahmed Aliyu, Zablun Beyene, Claudia Pacelli, Mohammed Usman, Barbara Cavalazzi

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Earth Observation for Hazard Monitoring and Risk Assessment: Insights from the February 2025 Mount Etna Eruption

Gaetana Ganci, Giuseppe Bilotta, Maddalena Dozzo, Francesco Spina, Francesco Zuccarello, Roberta Cristofaro, Marco Spina, Annalisa Cappello

S06 - HUMANS AND VOLCANOES: A LONG HISTORY OF INTERACTION

Daniele Musumeci, Stefano Branca, Sandro de Vita, Franco Foresta Martin

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Geomorphological and volcanological research on the sea caves of Ustica: from prehistoric finds to sea-level change studies

Stefano Furlani, Franco Foresta Martin

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Mass tourism in fragile geological settings: anthropogenic impact in the Alcantara Gorges (Sicily)

Roberta Bonafede, Lorenza Li Vigni, Francesco Tripodi, Filippo Brugnone, Francesco Parello, Walter D'Alessandro, Lorenzo Brusca, Sergio Bellomo, Roberta Vassallo, Carmelo Maida, Paola Aiello, Vittoria Giudice, Maria Balduccio, Sandro Spataro, Giuseppina Marino, Sergio Calabrese

S07 - Towards Open Science in Volcanology: Data Collection, Archiving, Sharing and Reuse

Marina Bisson, Lucia Cacciola, Rossana Paciello, Gabriele Tarabusi

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From static hazard maps to an interactive multi-hazard geospatial analysis platform enabling collaborative digital workflows

Alessio Patanè, Laura Sandri, Danilo Reitano, Letizia Spampinato, Giuseppe Puglisi

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Strain data collection at Stromboli volcano: sharing strategies on the EPOS data portal

Pierdomenico Romano, Bellina Di Lieto, Agata Sangianantoni

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An online database named 'RESPIRA - Remote sEnsing obServations of source Parameters and data IntegRation at EtnA'

Luigi Mereu, Simona Scollo

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Nicola Mari, Antonio Troiano

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Geodetic, topographic and UAV monitoring for the assessment of geological hazards of the Santa Barbara mud volcano, Caltanissetta (Sicily)

Giorgio De Guidi, Marco Prisco, Francesco Carnemolla, Salvatore Giuffrida, Fabio Brighenti

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Magnetic anomaly characterization of the polygenetic Martignano Lake maar, Sabatini Volcanic District (Central Italy)

Iacopo Nicolosi, Francesca D'Ajello Caracciolo, Roberto Carluccio, Nicoletta Ricchetti, Gianluca Sottili

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Adriana Iozzia, Marco Aloisi, Flavio Cannavò, Angelo Ferro, Salvatore Gambino, Giuseppe Laudani, Gaetano Mazzaglia, Luciano Scuderi

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Fluid migration along the active submarine hydrothermal system of Panarea: preliminary results from passive hydroacoustic and geodetic data

Martina Criscillo, Davide De Caro, Gianluca Lazzaro, Manfredi Longo, Marco Meschis, Agostino Semprebello, Mimmo Palano

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Source Localization of Continuous Seismic Signals During 2024 Eruptive Activity at Stromboli

Vittorio Minio, Adriana Iozzia, Andrea Cannata, Flavio Cannavò, Giuseppe Di Grazia, Massimo Orazi, Eugenio Privitera

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Insights into the 2008 Etna dike arrest through structural data, energy release patterns, and focal mechanisms

Elisabetta Giampiccolo, Alessandro Bonaccorso, Carla Musumeci, Marco Neri

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Temporal gravity changes in the Campanian Plain and possible interaction with the dynamics of the Neapolitan Volcanoes

Tommaso Pivetta, Stefano Carlino, Elena Cubellis, Francesco Obrizzo, Alessandro Fedele, Giuseppe Ricciardi, Umberto Ricciardi

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Imaging the Casamicciola seismogenic fault through 3D gravity inversion

Lorenzo Ricciardi, Stefano Carlino, Tommaso Pivetta, Umberto Ricciardi, Giovanni Florio

S09 - ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FOR NEW DISCOVERIES IN VOLCANOLOGY

Claudia Corradino Flavio Cannavò

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Advanced AI-Based Techniques for Mapping 400 Years of Mount Etna Lava Flows Using High-Resolution Satellite Imagery

Giovanni Salvatore Di Bella, Claudia Corradino, Alessandro La Spina, Arianna Beatrice Malaguti, Ciro Del Negro

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Automated Tracking of Explosive Parameters: A High-Frequency Thermal Infrared Workflow for Impulsive Explosions

Elisabetta Del Bello, Jacopo Taddeucci, Piergiorgio Scarlato

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Kilauea 2024–2025 lava fountains: preliminary insights from satellite observations, machine learning, and ground-based validation

Arianna Beatrice Malaguti, Bruce Houghton, Claudia Corradino, Alessandro La Spina, Giovanni Salvatore Di Bella, Natalia Gauer Pasqualon, Simona Cariello, Federica Torrisi, Kiriana Anderson, Ciro Del Negro

S10 - CHALLENGES AND NEW WAYS TO UNDERSTAND THE DYNAMICS OF CAMPI FLEGREI CALDERA

Gino Gonzalez Roberto Isaia

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Campi Flegrei Nomenclature to forecast volcanic eruption

Angelo Paone, Sung-Hyo Yun

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Hydrothermal minerals at submarine discharges: state of the art and strategy approaches with an application to the seafloor “Secca delle Fumose”, Campi Flegrei volcano (Italy)

Angela Mormone, Carmine Minopoli, Monica Piochi

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Offshore multiparametric monitoring of Campi Flegrei: decompositional analysis of MEDUSA geodetic buoy data

Teresa Caputo, Paola Cusano, Angela Mormone, Rosario Riccio, Marco Dupuis, Sergio Guardato

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Resolving vents distribution and fault-fluids interactions offshore Campi Flegrei: Evidence from UHR 3D seismic attribute-driven interpretation

Claudia Cirelli, Marta Corradino, David Iacopini, Pierfrancesco Burrato, Henrique Duarte, Luigi Ferranti, Vittorio Maselli, Carmelo Monaco, Olivier Monrigal, Marco Sacchi, Fabrizio Pepe

S11 - EXPLOSIVE ERUPTION PRODUCTS, DYNAMICS AND HAZARDS: FROM VOLCANIC PLUMES TO FLOWS INTEGRATING FIELD, EXPERIMENTAL AND MODELLING APPROACHES

Andrea Todde, Ileana Santangelo, Francesco Romeo, Carla Tranquilino

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Atmospheric Controls on Dense Volcanic Plume Transport: Insights from Idealised LES Experiments

Ralph Burton

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Cryptic volcanic eruptions preserved in Antarctic fumarolic ice caves: geochemical evidence from Mount Melbourne (Northern Victoria Land).

Giulia Fisauli, Paola Del Carlo, Alessandro Musu, Alessio Di Roberto, Giuseppe Re, Gaetano Giudice, Monica Agreda-Lopez, Maurizio Petrelli

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Volcanic vortex rings at Bocca Nuova, Mt. Etna (Italy): field observation with thermal, highspeed and visible cameras and experimental simulations

Francesca Iezzi, Jacopo Taddeucci, Danilo M. Palladino, Clothilde Biensan, Francesco Pennacchia, Piergiorgio Scarlato

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Mass Eruption Rate and dynamics of Etna's tephra plumes: insights from VOLDORAD-2B Doppler radar high-rate time series

Louis Tyrode, Franck Donnadieu, Audrey Michaud-Dubuy, Silvia Di Nisio, Claude Hervier, Patrick Freville, Giuseppe Giamello, Emilio Pecora, Michele Prestifilippo, Mauro Coltelli, Giorgio Passerini, Umberto Rizza

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Spatio-temporal distribution of ash load in volcanic plumes: insights from Doppler radar and disdrometer at Sabancaya

Eva Delcros, Franck Donnadieu, Charlotte Gelibert, Thomas Liethoudt, Frederic Peyrin, Valentin Freret-Lorgeril, Thierry Latchimy, Jonahand Gilchrist, Mark Jellinek, Julien Delanoe, Domingo Ramos

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Tephra characteristics: insight into fragmentation and paroxysmal dynamics

Francesco Amadio, Laura Pioli, Simona Scollo, Lucia Gurioli

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Sensitivity retrieval in satellite remote sensing of volcanic clouds

Francesco Romeo, Luigi Mereu, Simona Scollo

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Toward a unified database of explosive eruptions in the Euro-Mediterranean area over the last 2,500 years

Gilda Risica, Alessio Di Roberto, Giuseppe Re, Massimo Pompilio, Paola Del Carlo

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Paleomagnetic constraints on emplacement temperatures in phreatomagmatic deposits from the Astroni volcano (Campi Flegrei, Italy)

Gilda Risica, Fabio Speranza, Claudio Scarpati, Ileana Santangelo, Lorenzo Fedele, Raffaello Cioni, Pietro Gabellini, Andrea Todde, Mariasole Andreetto, Mattia De' Michieli Vitturi, Federica Pardini, Claudia D'Oriano

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Deposits and eruptive products of repeated small-scale explosions during the 2014-2020 eruption cycle at Kuchinoerabujima Volcano, Japan

Andrea Todde, Zara Franceschini, Mattia de' Michieli Vitturi, Paolo Fulignati, Nobuo Geshi, Silvia Giansante, Anna Gioncada, Paola Marianelli, Marco Pistolesi, Alessia Turini, Raffaello Cioni

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On the use of unconformity surfaces as stratigraphic markers for identifying and correlating eruptive units in the Astroni pyroclastic sequence (Campi Flegrei, Italy)

Ileana Santangelo, Claudio Scarpati, Annamaria Perrotta, Lorenzo Fedele, Raffaello Cioni, Pietro Gabellini, Andrea Todde, Mariasole Andreetto, Claudia D'Oriano, Gilda Risica, Mattia De Michieli Vitturi, Federica Pardini, Jane Halfhill, Fabio Speranza

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Textural characterization of tephra of Mt Etna from eruptive episodes from 2007 to 2024: Insights into the porosity-sphericity correlation in lapilli particles

Andrea Tonato, Daniele Andronico, Rosa Anna Corsaro, Grace Lang, Mattia Pistone, Simona Caruso, Antonio Cristaldi

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Textural and morphological characterization of the ca. 4 ka Astroni eruptive products (Campi Flegrei, Italy)

Mariasole Andreetto, Ileana Santangelo, Andrea Todde, Pietro Gabellini, Claudio Scarpati, Lorenzo Fedele, Claudia D'Oriano, Gilda Risica, Mattia de' Michieli Vitturi, Federica Pardini, Raffaello Cioni

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Thermo-rheological controls on ductile-brittle transitions in high-grade ignimbrites

Alessandro Vona, Zara Franceschini, Alex Scarani, Raffaello Cioni

S12 - RECONSTRUCTING SUBAERIAL AND SUBMARINE VOLCANIC SYSTEM EVOLUTION AND CHANGING LANDSCAPES THROUGH GEOLOGICAL MAPPING, STRATIGRAPHY, GEOCHRONOLOGY, VOLCANO-TECTONICS AND ADVANCED TECHNOLOGIES

Jacopo Natale, Arianna Beatrice Malaguti, Alessandra Cinquegrani, Eugenio Nicotra

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Coupled paleomagnetism and $^{40}\text{Ar}/^{39}\text{Ar}$ dating of Latera ignimbrites (Vulsini volcanic district, Italy) unravel processes associated to piston-collapse calderas

Arianna Beatrice Malaguti, Stéphane Scaillet, Marco Pistolesi, Mauro Rosi, Fabio Speranza, Alberto Renzulli

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Tephrostratigraphic Record and Chronostratigraphic Evolution of the Quaternary Bojano Basin (Southern Apennines): Insights from the BJ1 Deep Core

Bianca Scateni, Paola Del Carlo, Alessandra Smedile, Paolo Marco De Martini, Vincenzo Amato, Biagio Giaccio, Marco Caciagli, Patrizia Macrì, Fabio Villani, Riccardo Civico, Stefano Maraio, Vincenzo Sapia, Gianfranco Di Vincenzo

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Assessing EarthDEM and ASTER-DEM products for volcano monitoring: effusion volumes and crater morphology at Mount Etna

Jean-Francois Smekens, Brett Carr

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Stratigraphic reconstruction methods for the geological map of Pantelleria Island

Alessandra Cinquegrani, Roberto Bonomo, Alessandra Pensa, Valeria Ricci, Marco Ricciardi Tenore, Silvio Giuseppe Rotolo, Stefano Urbani, Letizia Vita

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Tephra and cryptotephra records from the Marsili Basin: A 40,000-year archive of southern Tyrrhenian volcanism

Serena Da Mommio, Alessio Di Roberto, Marija Voloschina, Antonella Bertagnini, Mauro Rosi, Alessandra Smedile, Paolo Marco De Martini, Armin Freundt, Steffen Kutterolf, Rosanna De Rosa, Paola Donato, Michael Marani, Marco Pistolesi

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High-Resolution Mapping of Geomorphological Changes at the Vesuvius Crater through Multi-temporal TLS data

Teresa Caputo, Ermanno Marino, Arianna Pesci, Tommaso Beni, Giovanni Gigli, Emanuele Intrieri, Massimiliano Nocentini, Federico Di Traglia

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CARG-based (Sheet 416 and 364) volume reassessment for the caldera-forming, VEI 6/7 ignimbrites along the Roman Magmatic Province

Alessandro Frontoni, Guido Giordano

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Morphological changes at Mt. Etna: two decades of volcanic activity (2005–2023) revealed by Airborne LiDAR surveys

Marina Bisson, Roberto Gianardi, Claudia Spinetti

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Slope instability mapping and ground deformation at Colli Albani Hills volcanic area

Laura Colini, Claudia Spinetti, Marina Bisson, Lisa Beccaro, Alessandro Galvani, Vincenzo Sepe, Roberto Gianardi, Cristiano Tolomei

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Mineral chemistry investigations of the quaternary alkaline basalts erupted at Dilo-Dukana and Mega volcanic fields (Southern Ethiopian Rift)

Andrea Orlando, Eleonora Braschi, Chiara Maria Petrone, Zara Franceschini, Yannick Buret, Cindy Broderick, Alejandro Cortes Calderon, Ermias Filfilu, Raffaello Cioni, Simone Tommasini, Giacomo Corti

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A newly recognised late Holocene landslide deposit from Cordillera El Mocho Pleistocene volcano, Southern Andes of Chile

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