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INGV

MED-SUV 1th Year Meeting

Nicolosi (Catania) 7 | 9 July 2014

23



Istituto Nazionale di
Geofisica e Vulcanologia

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Segreteria di Redazione

Francesca Di Stefano

Tel. +39 06 51860068

Fax +39 06 36915617

Rossella Celi

Tel. +39 095 7165851

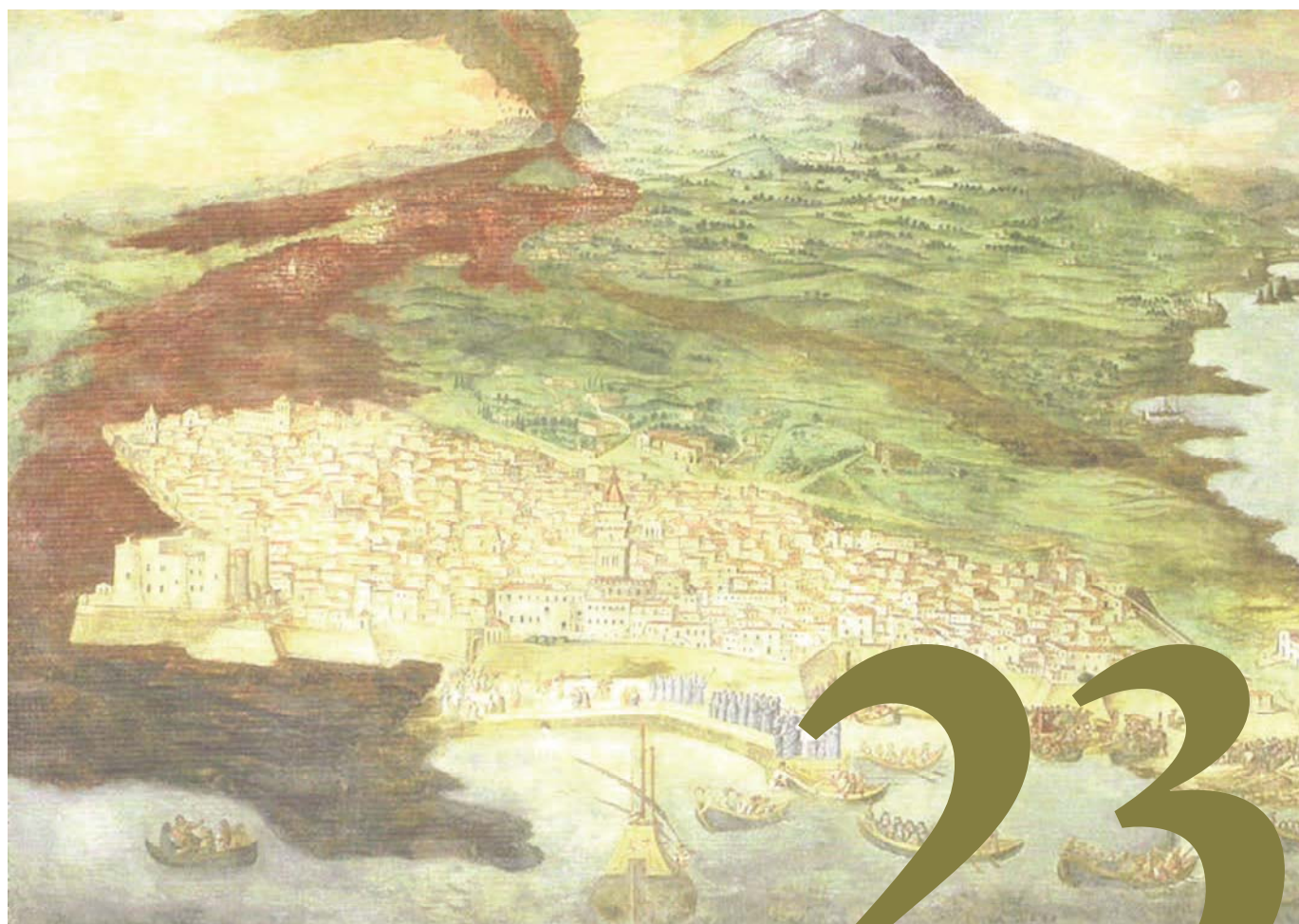
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Miscellanea INGV

MED-SUV 1th YEAR MEETING

NICOLOSI (CATANIA) 7 | 9 JULY 2014

Editors: Giuseppe Puglisi, Letizia Spampinato, Danilo Reitano, Salvatore Mangiagli



23



Istituto Nazionale di
Geofisica e Vulcanologia



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Stefano Branca	Senior Researcher, Member of the Organizing Committee, Field Trip
Francesco Calvagna	Assistant, Member of the Organizing Committee
Massimo Cantarero	Technician, Member of the Organizing Committee, Logistics
Massimo Cascone	Technician, Member of the Organizing Committee, Editorial Office, Front Desk
Rossella Celi	Technologist, Member of the Organizing Committee, Editorial Coordinator
Salvatore Consoli	Technician, Member of the Organizing Committee, Field Trip
Salvatore Mangiagli	Technologist, Member of the Organizing Committee, Web Master and pre-editing on line
Danilo Reitano	Technologist, Member of the Organizing Committee, Web Master
Benedetto Saraceno	Technician, Member of the Organizing Committee, Informatics
Rosanna Velardita	Researcher, Member of the Organizing Committee, Front Desk

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Simona Di Salvo, Antonella Catalano, Luca Pirrè La Terra (Servizio Civile Nazionale)

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Francesca Di Stefano Centro Editoriale Nazionale INGV
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La lava dell'eruzione del 1669 circonda Catania. Affresco di Giacinto Platania
(testimone oculare dell'evento), conservato nella cattedrale di Catania.

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LMU	Ludwig-Maximilians-Universitaet Muenchen
GFZ	Helmholtz - Zentrum Potsdam Deutsches GeoForschungsZentrum
UDUR	University of Durham
UNIVBRIS	University of Bristol
CNRS	Centre National de la Recherche Scientifique
BRGM	Bureau de Recherches Geologiques et Minieres
ESA	European Space Agency
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MATEC	Marwan Technology
T2	Terradue UK LTD
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USGS-HVO	United States Geological Survey
UMIL	Università degli Studi di Milano
DELTA G	DELTA G SRL
UBP-LMV	Université Blaise Pascal Clermont-Ferrand II



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Lav@Hazard: a Web-Gis Framework for Forecasting Lava Flow Hazards

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Seismological Data at Mt. Etna

Salvatore Alparone, Marcello D'Agostino, Giuseppe Di Grazia,
Ferruccio Ferrari, Salvatore Spampinato

Istituto Nazionale di Geofisica e Vulcanologia, Sezione di Catania - Osservatorio Etneo, Catania, Italy

Data of local seismicity recorded in the Etna area during the time span 2005-2011 have been selected for sharing. Basically they are of three types. First, raw continuous signals from permanent digital stations, equipped with three-component broad band sensors 40s period, for the most part. The sample rate of the signals is 100 Hz. Taking into account criteria such as: signal quality, availability of at least 3 year of data for each station, and sufficient azimuthal coverage of the Etnean volcanic area, we obtained a network of about twenty stations. We also provide an earthquake catalogue, obtained from off-line analysis of the digital seismograms daily performed by expert personnel at Osservatorio Etneo (INGV). The data are in ASCII format, and concern parametric information (latitude, longitude, depth, magnitude, etc.) about the hypocenter of ca 800 earthquakes, which occurred in the area of Mount Etna between 2005 and 2011. This catalogue reports shocks with magnitude greater than or equal to 2.0 and error threshold not greater than fixed values (e.g., horizontal and vertical hypocentral errors less than or equal to 2.0 km, RMS travel-time residual less than or equal to 0.35s, etc.). The third type of data is the RMS amplitude value of the continuous background seismic signal. These values are calculated by an automatic tool which processes the on-line signal from remote seismic stations. The amplitude data are calculated both in the whole unfiltered continuous signal, and in frequency bands 1 Hz wide, between 0.5 and 15 Hz. The format of data is ASCII. For treatment and characterization of each type of data, appropriate metadata, concerning station position, instrumental and processing specifications and any other useful information, have been considered.