



## Pubblicazioni 2005

- 0972 **Acocella, V. and M. Neri**, 2005. Structural features of an active strike-slip fault on the sliding flank of Mt. Etna (Italy), *J. Structural Geology*, 27,2, 343-355, doi: 10.1016/j.jsg.2004.07.006.
- 0973 **Aiuppa A., C. Federico, P. Allard, S. Gurrieri and M. Valenza**, 2005. Trace metal modelling of groundwater-gas-rock interactions in a volcanic aquifer: Mount Vesuvius, Southern Italy, *Chem. Geology*, 216, 289-311.
- 0974 **Allard, P., M. Burton, F. Murè**, 2005. Spectroscopic evidence for a lava fountain driven by previously accumulated magmatic gas, *Nature*, 433, 407-410.
- 0975 **Alparone, S., B. Behncke, S. Giannanco, M. Neri, and E. Privitera**, 2005. Paroxysmal summit activity at Mt. Etna (Italy) monitored through continuous soil radon measurements, *Geophys. Res. Lett.*, 32, L16307, doi:10.1029/2005GL023352.
- 0976 **Andronico, D., S. Branca, S. Calvari, M.B. Burton, T. Caltabiano, R.A. Corsaro, P. Del Carlo, G. Garfi, L. Lodato, L. Miraglia, F. Murè, M. Neri, E. Pecora, M. Pompilio, G. Salerno and L. Spampinato**, 2005. A multi-disciplinary study of the 2002–03 Etna eruption: insights into a complex plumbing system, *Bull. Volcanol.*, 67, 314–330.
- 0977 **Andronico, D., and L. Lodato**, 2005. Effusive Activity at Mount Etna Volcano (Italy) During the 20th Century: A Contribution to Volcanic Hazard Assessment, *Natural Hazards* 36, 407–443, DOI 10.1007/s11069-005 1938-2.
- 0978 **Arévalo, C.M., D. Patanè, A. Rietbrock and J.M. Ibáñez**, 2005. The intrusive process leading to the Mt. Etna 2001 flank eruption: Constraints from 3-D attenuation tomography, *Geophys. Res. Lett.*, 32, L21309, doi:10.1029/2005GL023736.
- 0979 **Barbano, M.S., R. Azzaro and D.E. Grasso**, 2005. Earthquake Damage Scenarios and Seismic Hazard of Messina north-eastern Sicily (Italy) as inferred from historical data, *Journal of Earthquake Engineering*, 9, 6 805–830.
- 0980 **Behncke, B., M. Neri, and A. Nagay**, 2005. Lava flow hazard at Mount Etna (Italy): New data from a GIS-based study, in Manga, M., and Ventura, G., eds., *Kinematics and dynamics of lava flows: Geological Society of America Spec. Pap.*, 396, 187-205, doi: 710.1130/2005.2396(13).
- 0981 **Bonaccorso, A., S. Cianetti, C. Giunchi, E. Trasatti, M. Bonafede and E. Boschi**, 2005. Analytical and 3-D numerical modelling of Mt. Etna (Italy) volcano inflation, *Geophys. J. Int.*, 163, 852–862, doi: 10.1111/j.1365-246X.2005.02777.x

- 0982 **Bousquet, J.C. and G. Lanzafame**, 2005. Compression and Quaternary tectonic inversion on the north edge of the Hyblean Mountains, foreland of the Apennine-Maghrebian chain in Eastern Sicily (Italy): geodynamic implication for Mt. Etna, *GeoActa*, 3, 165-177.
- 0983 **Branca, S. and P. Del Carlo**, 2005. Types of eruptions of Etna volcano AD 1670–2003: implications for short-term eruptive behaviour, *Bull. Volcanol.*, 67, 732–742, doi:10.1007/s00445-005-0412-z
- 0984 **Burton, M.R., M. Neri, D. Andronico, S. Branca, T. Caltabiano, S. Calvari, R.A.Corsaro, P. Del Carlo, G. Lanzafame, L. Lodato, L. Miraglia, G. Salerno and L. Spampinato**, 2005. Etna 2004–2005: An archetype for geodynamically-controlled effusive eruptions, *Geophys. Res. Lett.*, 32, L09303, doi:10.1029/2005GL022527.
- 0985 **Calvari, S., L. Spampinato, L. Lodato, A. J. L. Harris, M.R. Patrick, J. Dehn, M.R. Burton, and D. Andronico**, 2005. Chronology and complex volcanic processes during the 2002–2003 flank eruption at Stromboli volcano (Italy) reconstructed from direct observations and surveys with a handheld thermal camera, *J. Geophys. Res.*, 110, B02201, doi:10.1029/2004JB003129.
- 0986 **Coltelli, M., P. Del Carlo, M. Pompilio, L. Vezzoli**, 2005. Explosive eruption of a picrite: the 3930 BP subplinian eruption of Etna volcano (Italy), *Geophysical Research Letters*, 32, L23307, doi:10.1019/2005GL024271R.
- 0987 **Corsaro, R.A., L. Miraglia, V. Zanon**, 2005. Petrologic monitoring of glasses in the pyroclastites erupted in February 2004 by the Stromboli Volcano, Aeolian Islands, Southern Italy, *Journ. Volc. Geoth. Res.*, 139 (3-4), 339-343.
- 0988 **Corsaro, R.A. and L. Miraglia**, 2005. Dynamics of 2004 – 2005 Mt. Etna effusive eruption as inferred from petrologic monitoring, *Geophys. Res. Lett.*, 32, L13302, doi:10.1029/2005GL022347.
- 0989 **Corsaro, R.A., S. Calvari, and M. Pompilio**, 2005. Formation of lava stalactites in the master tube of the 1792-1793 flow field, Mt. Etna (Italy), *Am. Miner.*, 90, 1413-1431.
- 0990 **Currenti, G., C. Del Negro, V. La penna and L. Tedesca**, 2005. Fluctuation analysis of the hourly time variabilità of volcano-magnetic signals recorded at Mt. Etna Volcano, Sicily (Italy), *Chaos, Solitons and Fractals*, 23, 1921 – 1929, doi: 10.1016/j.chaos.2004.07.035.
- 0991 **Currenti, G., C. Del Negro, V. La penna and L. Tedesca**, 2005. Scaling characteristics of local geomagnetic field and seismicity at Etna volcano and their dynamics in relation to the eruptive activity, *Earth Planet. Sci. Lett.*, 235, 96-106.
- 0992 **Currenti, G., C. Del Negro and G. Nunnari**, 2005. Inverse modelling of volcanomagnetic fields using a genetic algorithm technique, *Geophys. J. Int.* 163, 403-418 doi: 10.1111/j.1365-246X.2005.02730.x.
- 0993 **D'Amico, S. and V. Maiolino**, 2005. Local magnitude estimate at Mt. Etna, *Ann. Geophys.*, 48, 2.
- 0994 **De Beni, E., J.R. Wijbrans, S. Branca, M. Coltelli, G. Groppelli**, 2005. New results of 40Ar/39Ar dating constrain the timing of transition from fissure-type to central volcanism at Mount Etna (Italy), *Terra Nova*, 17, 292-298, doi: 10.1111/j.1365-3121.2005.00614.x

- 0995 **De Gori, P., C. Chiarabba and D. Patanè**, 2005. Qp structure of Mount Etna: Constraints for the physics of the plumbing system, *J. Geophys. Res.*, 110, B05303, doi:10.1029/2003JB002875.
- 0996 **Del Negro, C., L. Fortuna, and A. Vicari**, 2005. Modelling lava flows by Cellular Nonlinear Networks (CNN): preliminary results, *Nonlin. Proc. Geophys.*, 12, 505 – 513.
- 0997 **Donnadieu, F., G. Dubosclard, R. Cordesses, T. Druitt, C. Hervier, J. kornprobst, G.-F. Lfnat, P. Allard and M. Coltelli**, 2005. Remotely monitoring volcanic activity with ground-based doppler radar, *Eos, Transactions of the American Geophysical Union*, 86, 21, 201–208.
- 0998 **D'Oriano, C., E. Poggianti, A. Bertagnini, R. Cioni, P. Landi, M. Polacci and M. Rosi**, 2005. Changes in eruptive style during the A.D. 1538 Monte Nuovo eruption (Phlegrean Fields, Italy): the role of syn-eruptive crystallization, *Bull. Volcanol.*, 67, 601-621.
- 0999 **Falsaperla, S., S. Alparone, S. D'Amico, G. Di Grazia, F. Ferrari, H. Langer, T. Sgroi, S. Spampinato**, 2005. Volcanic tremor at Mt. Etna, Italy, preceding and accompanying the eruption of July - August, 2001, *PAGEOPH*, 162, 11, 2111-2135.
- 1000 **Gambino, S.**, 2005. Air and permafrost temperature at Mt. Melbourne (1989-1998), *Antarctic Science*, 17, 1, 1151-152.
- 1001 **Gresta, S., F.Ghisetti, E. Privitera, and A. Bonanno**, 2005. Coupling of eruptions and earthquakes at Mt. Etna (Sicily, Italy): A case study from the 1981 and 2001 events, *Geophys. Res. Lett.*, 32, L05306, doi:10.1029/2004GL021479.
- 1002 **Harris, A., J. Bailey, S. Calvari and J. Dehn**, 2005. Heat loss at a lava channel and its implications for down-channel cooling and rheology. *Geological Society of American, Special Paper* 396, 125-146.
- 1003 **Harris, A., J. Dehn, M. Patrick, S. Calvari, M. Ripepe, L. Lodato**, 2005. Lava effusion rates from hand-held thermal infrared imagery: an example from the June 2003 effusive activity at Stromboli. *Bull. Volcanol.*, 68, 2, 107-117.
- 1004 **Monaco, C., S. Catalano, O. Cocina, G. De Guidi, C. Ferlito, S. Gresta, C. Musumeci, and L. Tortorici**, 2005. Tectonic control on the eruptive dynamics at Mt. Etna Volcano (Sicily) during the 2001 and 2002–2003 eruptions *J. Volcanol. Geotherm. Res.* 144, 211– 233.
- 1005 **Musumeci, C., D. Patane` , L. Scarfi and Stefano Gresta**, 2005. Stress Directions and Shear-Wave Anisotropy: Observations from Local Earthquakes in Southeastern Sicily, Italy, *Bull. Seism. Soc. Am.*, 95, 4, 1359–1374, doi: 10.1785/0120040108.
- 1006 **Neri, G., G. Barberi, G. Oliva, and B. Orecchio**, 2005. Spatial variations of seismogenic stress orientations in Sicily, south Italy. *Phys. of the Earth and Planet. Int.* 148, 175–191.
- 1007 **Neri, M., V. Acocella, B. Behncke, V. Maiolino, A. Ursino, and R. Velardita**, 2005. Contrasting triggering mechanisms of the 2001 and 2002–2003 eruptions of Mount Etna (Italy). *J. Volcanol. Geotherm. Res.* 144, 235– 255.
- 1008 **Nunnari, G., G. Puglisi, F. Guglielmino**, 2005. Inversion of SAR data in active volcanic areas by optimization techniques, *Nonlinear Processes in Geophysics*, 12, 863-870.

- 1009 **Patane` D. M. Mattia and M. Aloisi**, 2005. Shallow intrusive processes during 2002–2004 and current volcanic activity on Mt. Etna, *Geophys. Res. Lett.*, 32, L06302, doi:10.1029/2004GL021773.
- 1010 **Pecoraino, G. and S. Giannanco**, 2005. Geochemical Characterization and Temporal Changes in Parietal Gas Emissions at Mt. Etna (Italy) During the Period July 2000 - July 2003, *TAO*, 16, 4, 805-841.
- 1011 **Pecoraino, G., L. Brusca, W. D'alessandro, S. Giannanco, S. Inguaggiato and M. Longo**, 2005. Total CO<sub>2</sub> output from Ischia Island volcano (Italy), *Geochemical Journal*, 39, 451-458.
- 1012 **Polacci, M.**, 2005. Constraining the dynamics of volcanic eruptions by characterization of pumice textures, *Annals of Geophysics*, 48, 4/5
- 1013 **Polacci, M., M. Rosi, P. Landi, A. Di Muro and P. Papale**, 2005. Novel Interpretation for Shift Between Eruptive Styles in Some Volcanoes, *Eos*, 86, 37.
- 1014 **Puglisi, G., A. Bonaccorso, M. Mattia, M. Aloisi, A. Bonforte, O. Campisi, M. Cantarero, G. Falzone, B. Pugliesi and M. Rossi**, 2005. New integrated geodetic monitoring system at Stromboli volcano (Italy), *Engineering Geology*, 79, 1/2, 13-31. Erratum to "New integrated geodetic monitoring system at Stromboli volcano (Italy)" [Engineering Geology 79/1–2 (2005) 13–31] G. Puglisi, A. Bonaccorso, M. Mattia, M. Aloisi, A. Bonforte, O. Campisi, M. Cantarero, G. Falzone, B. Pugliesi, M. Rossi Item Identifiers: 2483 10.1016/j.enggeo.2005.10.002 S0013-7952(05)00270-X
- 1015 **Ripepe, M., E. Marchetti, G. Ullivieri, A. Harris, J. Dehn, M. Burton, T. Caltabiano and G. Salerno**, 2005. Effusive to explosive transition during the 2003 eruption of Stromboli volcano, *Geology*, 33, 4, 273–276.
- 1016 **Rust, D., B. Behncke, M. Neri, and A. Ciocanel**, 2005. Nested zones of instability in the Mount Etna volcanic edifice, Sicily. *J. Volcanol. Geotherm. Res.*, 144, 137-153, doi: 10.1016/j.jvolgeores.2004.11.021.
- 1017 **Scarfì, L., H. Langer and A. Scaltrito**, 2005. Relocation of Microearthquake Swarms in the Peloritani Mountains - Implications on the Interpretation of Seismotectonic Patterns in NE-Sicily, Italy", *Geophys. J. Int.* 163, 225–237, doi: 10.1111/j.1365-246X.2005.02720.x
- 1018 **Scollo, S., M. Coltelli, F. Prodi, M. Folegani and S. Natali**, 2005. Terminal settling velocity measurements of volcanic ash during the 2002–2003 Etna eruption by an X-band microwave rain gauge disdrometer, *Geophys. Res. Lett.*, 32, L10302, doi:10.1029/2004GL022100.
- 1019 **Termini, D., A. Teramo, C. Bottari, and T.Tuvè**, 2005. An Anisotropic Attenuation Law of Macroseismic Intensity Performed on Virtual Intensity Distribution of Seismogenic Zones, *Pure appl. geophys.*, 162, 707–714.
- 1020 **Termini, D., A. Teramo, T. Tuve and A. Bottari**, 2005. On the Observed Intensity Filtering in the Anisotropic Distribution Modelling of Macroseismic Intensity, *Pure appl. geophys.* 162, 683 – 697.
- 1021 **Tuvè, T., Teramo A., J. Iban~ez, C. Bottari and D. Termini**, 2005. Macroseismic Intensity Modelling of Earthquakes in Southern Spain: Attenuation and Tectonic Implications, *Pure appl. geophys.*, 162, 747–760.

1022 **Vicari, A., G. Currenti, C. Del Negro, L. Fortuna, A. Herault, R. Napoli and A. Rizzo**, 2005. Simulations of Lava Flows at Mt Etna Using Paradigms of Parallel Computing, Nonlinear Phenomena in Complex Systems, 8, 1, 84 – 88.

1023 **Walter, T. R., V. Acocella, M. Neri and F. Amelung**, 2005. Feedback processes between magmatic events and flank movement at Mount Etna (Italy) during the 2002–2003 eruption, J. Geophys. Res., 110, B10205, doi:10.1029/2005JB003688.