



## Pubblicazioni 2006

- 1024 **Acocella, V., M. Porreca, M. Neri, E. Massimi and M. Mattei**, 2006. Propagation of dikes at Vesuvio (Italy) and the effect of Mt. Somma, *Geophys. Res. Lett.*, 33, L08301, doi:10.1029/2005GL025590.
- 1025 **Acocella, V., M. Porreca, M. Neri, M. Mattei, R. Funicello**, 2006. Fissure eruptions at Mount Vesuvius (Italy): Insights on the shallow propagation of dikes at volcanoes, *Geology*, 34, 8, 673–676, doi: 10.1130/G22552.1.
- 1026 **Acocella, V., M. Neri, and P. Scarlato**, 2006. Understanding shallow magma emplacement at volcanoes: Orthogonal feeder dikes during the 2002–2003 Stromboli (Italy) eruption, *Geophys. Res. Lett.*, 33, L17310.
- 1027 **Allard, P., B. Behncke, S. D'Amico, M. Neri and S. Gambino**, 2006. Mount Etna 1993–2005: Anatomy of an evolving eruptive cycle, *Earth-Sci. Rev.*, 78, 85–114.
- 1028 **Aloisi, M., A. Bonaccorso and S. Gambino**, 2006. Imaging compositive dike propagation (Etna, 2002 case), *J. Geophys. Res.*, 111, B06404, doi: 10.1029/2005JB003908.
- 1029 **Ando, B., and Pecora E.**, 2006. An advanced video-based system for monitoring active volcanoes, *Computers & Geosciences*, 32, 85–91.
- 1030 **Andò, B. and D. Carbone**, 2006. A new computational approach to reduce the signal from continuously recording gravimeters for the effect of atmospheric temperature, *Phys. Earth Planet. Inter.* 159, 247–256.
- 1031 **Azzaro, R. S. D'Amico, A. Mostaccio, L. Scarfi and T. Tuvè**, 2006. Terremoti con effetti macrosismici in Sicilia orientale nel periodo Gennaio 2002 - Dicembre 2005, *Quaderni di Geofisica*, 41.
- 1032 **Azzaro, R., M.S. Barbano, S. D'Amico and T. Tuvè**, 2006. The attenuation of seismic intensity in the Etna region and comparison with other Italian volcanic districts, *Ann. Geophys.*, 49, 4/5, 881–898.
- 1033 **Bailey, J.E., A.J.L. Harris, J. Dehn, S. Calvari and S.K. Rowland**, 2006. The changing morphology of an open lava channel on Mt. Etna, *Bull. Volcanol.*, 68, 6, 497–515.
- 1034 **Behncke, B., G. Berrino, G. Corrado and R. Velardita**, 2006. Ground deformation and gravity changes on the island of Pantelleria in the geodynamic framework of the Sicily Channel, *J. Volcanol. Geoth. Res.*, 150, 146–162, doi: 10.1016/j.jvolgeores.2005.07.001

- 1035 **Behncke, B., M. Neri, E. Pecora and V. Zanon**, 2006. The exceptional activity and growth of the Southeast Crater, Mount Etna (Italy), between 1996 and 2001, *Bull. Volcanol.*, 69, 2, 149-173, DOI 10.1007/s00445-006-0061-x
- 1036 **Biale, E., M. Cascone, S. Mangiagli and E. Pecora**, 2006. Sistema di videoconferenza realizzata presso la sede di Catania, *Rapporti Tecnici INGV*, n.29.
- 1037 **Bianco, F., L. Scarfi, E. Del Pezzo and D. Patanè**, 2006. Shear wave splitting changes associated with the 2001 volcanic eruption on Mt. Etna, *Geophys. J. Int.*, 167, 959-967, DOI: 10.1111/j.1365-246X.2006.03152.x
- 1038 **Billi, A., G. Barberi, C. Faccenna, G. Neri, F. Pepe and A. Sulli**, 2006. Tectonics and seismicity of the Tindari Fault System, southern Italy: Crustal deformations at the transition between ongoing contractional and extensional domains located above the edge of a subducting slab, *Tectonics*, 25, TC2006, doi:10.1029/2004TC001763.
- 1039 **Bonaccorso, A.**, 2006. Explosive activity at Mt. Etna summit craters and source modeling by using high-precision continuous tilt, *J. Volcanol. Geoth. Res.*, 158, 221-234.
- 1040 **Bonaccorso, A., A. Bonforte, F. Guglielmino, M. Palano and G. Puglisi**, 2006. Composite ground deformation pattern forerunning the 2004–2005 Mount Etna eruption, *J. Geophys. Res.*, 111, B12, doi:10.1029/2005JB004206.
- 1041 **Bonforte, A. and G. Puglisi**, 2006. Dynamics of the eastern flank of Mt. Etna volcano (Italy) investigated by a dense GPS network, *J. Volcanol. Geoth. Res.*, 153, 3-4, 357-369.
- 1042 **Calvari, S., L. Spampinato and L. Lodato**, 2006. The 5 April 2003 vulcanian paroxysmal explosion at Stromboli volcano (Italy) from field observations and thermal data, *Journ. Volc. Geoth. Res.*, 149 (1-2), 160-175.
- 1043 **Carbone, D., L. Zuccarello, G. Saccorotti and F. Greco**, 2006. Analysis of simultaneous gravity and tremor anomalies observed during the 2002– 2003 Etna eruption, *Earth Planet. Sci. Lett.*, 245, 616– 629.
- 1044 **Carnazzo, A., G. Falzone, A. Ferro, S. Gambino, G. Laudani and E. Principio**, 2006. Monitoraggio della faglia di Trecastagni (CT) mediante l'uso di estensimetri, *Rapporti Tecnici INGV*, n.34.
- 1045 **Casacchia, R., F. Mazzarini, C. Spinetti, L. Colini, M. Neri, B. Behncke, M.F. Buongiorno, V. DeSantis, A. Grignetti and R. Salvatori**, 2006. Riflettanza di superfici vulcaniche: la campagna 2003 sul Monte Etna, *AIT Rivista Italiana di Telerilevamento*, 36, 55-67.
- 1046 **Coltelli, M., G. Puglisi, F. Guglielmino, and M. Palano**, 2006. Application of differential SAR interferometry for studying eruptive event of 22July 1998 at Mt.Etna, *Quaderni di Geofisica*, 43, 15-20.
- 1047 **Damiani, M.L., G. Groppelli, G. Norini, E. Bertino, A. Gigliuto and A. Cucita**, 2006. A lava flow simulation model for the development of volcanic hazard maps for Mount Etna (Italy), *Comput. & Geosci.*, 32, 512–526.

- 1048 **Di Grazia, G., S. Falsaperla and H. Langer**, 2006. Volcanic tremor location during the 2004 Mount Etna lava effusion, *Geophys. Res. Lett.*, 33, 4, L04304, doi: 10.1029/2005GL025177.
- 1049 **Falsaperla, S., M. Neri, E. Pecora, and S. Spampinato**, 2006. Multidisciplinary study of flank instability phenomena at Stromboli volcano, Italy, *Geophys. Res. Lett.*, 33, L09304, doi:10.1029/2006GL025940.
- 1050 **Favalli, M., G. D. Chirico, P. Papale, M. T. Pareschi, M. Coltelli, N. Lucana and E. Boschi**, 2006. Computer simulations of lava flow paths in the town of Goma, Nyiragongo volcano, Democratic Republic of Congo, *J. Geophys. Res.*, 111, B06202, doi:10.1029/2004JB003527.
- 1051 **Feuillet, N., M. Cocco, C. Musumeci and C. Nostro**, 2006. Stress interaction between seismic and volcanic activity at Mt Etna, *Geophys. J. Int.*, 164, 697–718, doi: 10.1111/j.1365-246X.2005.02824.x
- 1052 **Gambino S.**, 2006. High precision locations of LP events on Mt. Etna: reconstruction of the fluid-filled volume. *Stud. Geoph. Geod.*, 4, 663-674.
- 1053 **Giammanco, S., S. Guerrieri and M. Valenza**, 2006. Fault-controlled soil CO<sub>2</sub> degassing and shallow magma bodies: summit and lower east rift of Kilauea volcano (Hawai'i), 1997, *Pure and Applied Geophysics*, 163, 4, 853 - 867, doi: 10.1007/s00024-006-0039-9.
- 1054 **Giampiccolo, E., T. Tuvè, S. Gresta and D. Patanè**, 2006. S-waves attenuation and separation of scattering and intrinsic absorption of seismic energy in southeastern Sicily (Italy), *Geophys. J. Int.*, 165, 211–222.
- 1055 **Houghton, B.F., C. Bonadonna, C.E. Gregg, D.M. Johnston, W.J Cousins, J. W. Cole, P. Del Carlo**, 2006. Proximal tephra hazards: Recent eruption studies applied to volcanic risk in the Auckland volcanic field, New Zealand, *J. Volcanol. Geoth. Res.*, 155, 1/2, 138-149.
- 1056 **Houlié, N., P. Briole, A. Bonforte and G. Puglisi**, 2006. Large scale ground deformation of Etna observed by GPS between 1994 and 2001, *Geophys. Res. Lett.*, 33, L02309, doi:10.1029/2005GL024414.
- 1057 **Landi, P., L. Francalanci, M. Pompilio, M. Rosi, R. A. Corsaro, C. M. Petrone, I. Cardini and L. Miraglia**, 2006. The December 2002–July 2003 effusive event at Stromboli volcano, Italy: Insights into the shallow plumbing system by petrochemical studies, *J. Volcanol. Geoth. Res.*, 155, 3/4, 263-284.
- 1058 **Langer, H., S. Falsaperla, T. Powell and G. Thompson**, 2006. Automatic classification and a-posteriori analysis of seismic event identification at Soufriere Hills Volcano, Mt Serrat, *J. Volcanol. Geoth. Res.*, 153, 1-2, 357-369.
- 1059 **Masotti, M., S. Falsaperla, H. Langer, S. Spampinato and R. Campanili**, 2006. Application of Support Vector Machine to the classification of volcanic tremor at Etna, Italy, *Geophys. Res. Lett.*, 33, L20304, doi:10.1029/2006GL027441.
- 1060 **Mattia, M., M. Aloisi, M. Amore, A. Bonforte, F. Calvagna, M. Cantarero, O. Consoli, S. Consoli, M. Palano, B. Puglisi, G. Puglisi and M. Rossi**, 2006. Monitoraggio geodetico delle deformazioni del suolo in area sismogenetica: la rete GPS dello Stretto di Messina, *Quaderni di Geofisica*, 42,1-16.

- 1061 **Mori, T. and M. R. Burton**, 2006. The SO<sub>2</sub> camera: A simple, fast and cheap method for ground-based imaging of SO<sub>2</sub> in volcanic plumes, *Geophys. Res. Lett.* 33, 24804- 24807.
- 1062 **Neri, M. and V. Acocella**, 2006. The 2004-05 Etna eruption: implications for flank deformation and structural behaviour of the volcano. *J. Volcanol. Geotherm. Res.*, 158, 195-206, DOI:10.1016/j.jvolgeores.2006.04.022.
- 1063 **Neri, M., B. Behncke, M. Burton, G. Galli, S. Giammanco, E. Pecora, E. Privitera, and D. Reitano**, 2006. Continuous soil radon monitoring during the July 2006 Etna eruption, *Geophys. Res. Lett.*, 33, L24316, doi:10.1029/2006GL028394.
- 1064 **Norini, G., G. Gropelli, A. M. F. Lagmay, and L. Capra**, 2006. Recent left-oblique slip faulting in the central eastern Trans-Mexican Volcanic Belt: Seismic hazard and geodynamic implications, *Tectonics*, 25, TC4012, doi:10.1029/2005TC001877.
- 1065 **Nunnari, G., G. Pugliesi and F. Gargaun**, 2006. Implementing a warning system for Stromboli volcano (2006). Implementing a warning system for Stromboli volcano, Springer-Verlag series *Advantages in Soft Computing*, 143, 209-218.
- 1066 **Nunnari, G., G. Puglisi, F. Guglielmino and M. Coltelli**, 2006. Modelling ground deformations in volcanic areas by using SAR interferograms, *Quaderni di Geofisica*, 43, 30-35.
- 1067 **Palano, M., M. Aloisi, M. Amore , A. Bonforte , F. Calvagna, M. Cantarero, O. Consoli, S. Consoli, F. Guglielmino, M. Mattia, B. Pugliesi and G. Puglisi**, 2006. Kinematics and strain analyses of the eastern segment of the Pernicana Fault (Mt. Etna, Italy) derived from geodetic techniques (1997-2005), *Ann. Geophys.*, 49, 4/5, 1019-1032.
- 1068 **Palano, M., G. Puglisi and S. Gresta**, 2006. Ground deformation at Mt. Etna: a joint interpretation of GPS and InSAR data from 1993 to 2000, *Bollettino di Geofisica teorica ed applicata*, 48.
- 1069 **Panepinto, S., F. Greco, D. Luzio and B. Ducarme**, 2006. An overview on wavelet multi-resolution decomposition compared with traditional frequency domain filtering for continuous gravity data denoising, *Bull. Inform. Marées Terrestres*, 141, 11213-11224.
- 1070 **Patane`, D., G. Barberi, O. Cocina, P. De Gori and C. Chiarabba**, 2006. Time-Resolved Seismic Tomography Detects Magma Intrusions at Mount Etna, *Science*, 313, 821-823.
- 1071 **Pecora, E.**, 2006. Misura di alcuni parametri fisici dell'attività esplosiva dell'Etna durante l'eruzione 2002-2003 mediante l'utilizzo di una telecamera infrarosso, *Rapporti Tecnici INGV*, n.30.
- 1072 **Pecora, E., E. Biale and D. Reitano**, 2006. Evoluzione e sviluppo della rete permanente di telecamere fisse per il monitoraggio video dell'Etna, *Rapporti Tecnici INGV*, n.32.
- 1073 **Pecora, E., and E. Biale**, 2006. Progettazione e ristrutturazione delle stazioni video delle Eolie, *Rapporti Tecnici INGV*, n.33.
- 1074 **Polacci, M., R.A. Corsaro and D. Andronico**, 2006. Coupled textural and compositional characterization of basaltic scoria: insights into the transition from Strombolian to fire fountain activity at Mount Etna, Italy, *Geology*, 34, 201-204.

- 1075 **Polacci, M., Don R. Baker, L. Mancini, G. Tromba and F. Zanini**, 2006. Three-dimensional investigation of volcanic textures by X-ray microtomography and implications for conduit processes, *Geophys. Res. Lett.*, 33, L13312, doi:10.1029/2006GL026241, 2006.
- 1076 **Sable, J.E., B.F. Houghton, P. Del Carlo and M. Coltelli**, 2006. Changing conditions of magma ascent and fragmentation during the Etna 122 BC basaltic Plinian eruption: Evidence from clast microtextures, *J. Volcanol. Geotherm. Res.*, 158, 333-354.
- 1077 **Sawyer, G. M., and M. R. Burton**, 2006. Effects of a volcanic plume on thermal imaging data, *Geophys. Res. Lett.*, 33, L14311, doi:10.1029/2005GL025320.
- 1078 **Speranza, F., S. Branca, M. Coltelli, F. D'Ajello Caracciolo and Luigi Vigliotti**, 2006. How accurate is "paleomagnetic dating"? New evidence from historical lavas from Mount Etna, *J. Geophys. Res.*, 111, B12S33, doi:10.1029/2006JB004496.
- 1079 **Spilliaert, N., P. Allard, N. Métrich and A. V. Sobolev**, 2006. Melt inclusion record of the conditions of ascent, degassing, and extrusion of volatile-rich alkali basalt during the powerful 2002 flank eruption of Mount Etna (Italy), *J. Geophys. Res.*, 111, B4, B04203, doi:10.1029/2005JB003934.
- 1080 **Spilliaert, N., N. Métrich and P. Allard**, 2006. S-Cl-F degassing pattern of water-rich alkali basalt: Modelling and relationship with eruption styles on Mount Etna volcano, *Earth Planet. Sci. Lett.*, 248, 772-786.
- 1081 **Tuvè, T., F. Bianco, J. M. Ibañez, D. Patanè, E. Del Pezzo, A. Bottari**, 2006. Attenuation study in the Straits of Messina area (Southern Italy), *Tectonophysics*, 421,3/4, 173-185.