



Monitoring and Modeling Volcanic Deformation

Guest Editor:

Prof. Dr. Stuart Hardy

Faculty of Geology, Universitat de
Barcelona, C/Martí i Franqués
s/n, 08028 Barcelona, Spain

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Message from the Guest Editor

Dear Colleagues,

When and where might a volcano erupt? How big will the eruption be? What will happen at surface after eruption? These are some of the most important questions that scientists investigating volcanic deformation try to address. A variety of monitoring techniques, ranging from seismology to geodetic methods, have been used around active volcanoes worldwide to collect data that provide warnings of volcano unrest, ultimately helping forecast volcanic eruptions. Furthermore, recent advances in remote sensing techniques and modeling of volcano magma plumbing have opened up new opportunities to understand spatial and temporal patterns of magma migration at volcanoes. Finally, analogue and numerical modelling give us valuable insights into internal and surficial deformation. This Special Issue aims to collect contributions from studies of volcano deformation processes to understand pre-, during and post-eruption volcano behavior. A broad perspective that spans from divergent boundaries to subduction zone and hotspot magmatism is considered.





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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