

# ***Programme***

## **Unrest at Santorini Caldera (2011-2012)**

**27 & 28 March 2012, Santorini**  
*Organized by ISMOSAV, ESF and EPOS*  
*with the support of the Municipality of Thira and the EU*

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**26 March** - Arrival of participants

**26 March 17.00** - Meeting of the National Scientific Committee for the Monitoring of Santorini Volcano

**26 March 20.30** - Welcome dinner

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### **Day 1 (Tuesday 27 March)**

#### **09.30 to 10.10 Welcome and introductory speeches (open to the media)**

09.30 - 09.40 Thira Municipality welcome.

09.40 - 09.50 Kosmas Stylianidis (National Scientific Committee for the Monitoring of Santorini Volcano).

09.50 - 10.10 Georges Vougioukalakis (Organizing committee)

#### **10.20 to 12.30 Kameni and Kolumbo volcanism in the context of the evolution of Santorini Volcanic Field**

10.20 - 10.40 Vougioukalakis, G. Overview of the system; Historic activity: Precursors, evolution, hazard assessment.

10.40 - 11.00 Druitt, T., Scaillet, B., Cadoux, A., Andujar, J., Costa, F., Deloule, E. Volcanological and petrological context of Kameni volcanism.

11.00 – 11.30 Coffee break

11.30 - 11.50 Pyle, D., Nomikou, P., Parks, M., Mather, T., Elliott, J. Volcanological development of the Kameni islands.

11.50 - 12.10 Francalanci, L., Petrone, C.M., Vaggelli, G., Vougioukalakis, G. Lava-enclave magma interaction at Kamenis: Evidence from detailed petrochemical investigations.

12.10 - 12.30 Sakellariou, D., Rousakis, G., Nomikou, P., Croff Bell, K., Carey, S., Sigurdsson, H. The caldera of Santorini underwater: Swath bathymetry, seismic stratigraphy, structural interpretation and evolution.

12.30 - 12.50 Nomikou, P., Kiliias, S., Godelitsas, A., Sakellariou, D., Argiraki, A., Bejelou, K., Carey S., Cantner, K., Croff Bell, K., Roman, C., Ballard B. Evidence of the Kolumbo magmatic system from the study of erupted products and hydrothermal activity.

#### **12.50 to 14.20 Lunch**

#### **14.20 to 18.00 Unrest 2011-2012**

14.20 - 14.30 Fytikas, M. Monitoring Santorini Volcano, a retrospective.

14.30 - 14.50 Papazachos, C., Panagiotopoulos, D., Vougioukalakis, G., Albanakis, K., Laopoulos, Th., Stiros, E., Fytikas, M., Karagianni, E., Vamvakaris, D.. Current volcanic unrest in the Santorini caldera, as revealed by seismicity, temperature and sea-level data.

14.50 - 15.10 Chouliaras, G., Makropoulos, K. Real-Time seismic monitoring of the Santorini volcanic complex by the permanent and portable seismological networks of the Institute of Geodynamics, National Observatory of Athens.

15.10 – 15.20 Papadimitriou, P., Voulgaris, N., Kaviris, G., Karakonstantis, A., Kapetanidis, V., Kolaitis, A., Kouskouna, V., Kassaras, I., Makropoulos, K. Monitoring of the volcanoseismic activity in the broader Santorini area: Preliminary Results.

15.20 - 15.40 Newman, A., Stiros, S., Feng, L., Psimoulis, P., Moschas, F., Saltogianni, V., Jiang, Y., Briole, P., Geodetic studies of the Santorini caldera inflation.

- 15.40 - 16.00 Parcharidis, I., Papageorgiou, E., Foumelis, M. Long and short term deformation monitoring of Santorini Volcano: Unrest evidence by DInSAR analysis.
- 16.00 – 16.30 Coffee break
- 16.30 - 16.50 Lagios, E., Novali, F., Sakkas1 V., Vlachou1 K. Ground deformation in Santorini (1992-2012) based on PSInSAR and DGPS observations.
- 16.50 - 17.10 Pyle, D., Parks, M., England, P., Biggs, J., Mather, T., Nomikou, P., Palamartchouk, K., Papanikolaou, X., Paradissis, D., Parsons, B., Raptakis, C., Zacharis, V. Santorini deformation from satellite geodesy and triangulation.
- 17.10 - 17.30 Vaselli, O, Tassi1, F., Vougioukalakis, G., Giannini, L. Fluid geochemistry of the fumarolic gas discharges at Nea Kameni.
- 17.30 - 17.50 Carapezza M.L., Barberi, F., Gattuso, A., Ranaldi, M., Tarchini, L., Sortino, F., Granieri, D., Vougioukalakis, G. A geochemical contribution to the evaluation of the present Santorini unrest and plans for the improvement for the geochemical monitoring.
- 17.50 - 18.00 Vougioukalakis, G. Thermal and chemical monitoring future planning.

#### **18.00 to 19.00 General discussion on Kameni – Kolumbo volcanism and Santorini unrest**

#### **Day 2 (Wednesday 28 March)**

##### **09.00 to 10.00 Discussion on EPOS**

- 09.00 – 09.20 Cocco, M. EPOS general presentation (through Skype).
- 09.20 – 09.40 Puglisi, G. Creation of an integrated initiative infrastructure for the European Volcano Observatories.
- 09.40 – 10.00 Sigmundsson, F. Stakeholders for the European volcanology.

##### **10.00 to 11.00 Unrest and precursor phenomena at other volcanoes**

- 10.00 - 10.20 Sigmundsson, F. and 19 colleagues. Volcanic unrest and eruptions in Iceland: Measurements, models and mitigation.
- 10.20 - 10.40 Orsi, G., Civetta, L., D'Antonio, M. Moretti, R. Caldera unrest: the Italian Campi Flegrei case.
- 10.40 - 11.00 Tait, S., Taisne, B. Pressure changes and deformation in a shallow magmatic system.
- 11.00 - 11.30 Coffee break

##### **11.30 to 12.50 Monitoring and modelling of volcanic processes and hazards**

- 11.30 - 11.50 Ripepe, M. Volcano-acoustic monitoring.
- 11.50 - 12.10 Neuberg, J. Seismic monitoring strategies.
- 12.10 - 12.30 Puglisi, G. Geodetic monitoring of volcanic processes: state of the art and perspectives.
- 12.30 - 12.50 Barsotti, S., de'Michilei Vitturi, M., Esposti Ongaro, T., Neri, A. Modelling of volcanic processes and hazards.

#### **12.50 – 14.20 Lunch**

##### **14.20 to 16.20 Volcanic hazards and risk management**

- 14.20- 14.40 Barberi, F. Risk assessment for volcano emergency planning.
- 14.40 - 15.00 Loughlin, S., Baptie, B. Volcanic crisis management: lessons from Soufriere Hills and other eruptions.
- 15.00 - 15.20 Hincks, T., Philips J., Sheldrake, T., Sparks, R.S.J., Vougioukalakis, G. Assessment of ash and gas hazards during a future eruption of Santorini.
- 15.20 - 15.40 Papazachos, C., Skarlatoudis, A., Vougioukalakis, G. A preliminary deterministic seismic hazard assessment for the Santorini island for the current volcanic unrest.
- 15.40 - 16.00 Poyiadji, E. IGME future research within NSRF on GeoHazards – Santorini case study site.
- 16.00 – 16.20 Vougioukalakis G., Sparks, R.S.J., Pyle, D., Druitt, T., Barberi, F., Papazachos, K., Fytikas, M. Scenarios of Santorini reactivation and relative response proposals.
- 16.20 – 16.50 Coffee break

#### **16.50 to 19.00 Round-table discussion, general questions, proposals, final remarks**

#### **20.00 to 21.00 Presentation of the meeting conclusions at Belonias or Nomikos Center (media and public).**