



### 3<sup>rd</sup> International Training School on

# “Convective and volcanic clouds detection, monitoring and modeling”

Tarquinia, Italy, 18-25 October, 2017

*This training school is organized by researchers of the Institute of Atmospheric Sciences and Climate, National Research Council (ISAC-CNR), Istituto Nazionale di Geofisica e Vulcanologia (INGV), the Abdus Salam International Centre for Theoretical Physics (ICTP,) the Oxford University, the University of Trieste and the UK MetOffice.*

The purpose of the School is to train students with outstanding research interest in the techniques allowing to detect, monitor, and model convective and volcanic clouds, to gain knowledge of the instruments and satellite missions (present and future) and to be able to support such kind of studies for **supporting policy makers, early warning systems and aviation safety**.

The extreme atmospheric event cloud detection is a **high multidisciplinary and challenging** topic since the same techniques and instruments can be used for meteorology, volcanic monitoring, atmospheric physics and climate purposes. Within all these fields there are still **many unsolved issues making this school fundamental** for creating a **new generation of scientists** able to use the synergy of several different instruments and techniques.

Each topic includes **keynote plenary lectures** with in-depth discussion. The school will consist of lectures combined with the **practical application** of the material covered in the lectures through introductory lab sessions and a set of research problems that will form the core of the School. Through the introductory keynotes invited lectures, the students will be introduced to all the issues and challenges of the convective and volcanic clouds detection, monitoring and modeling, gaining an overview of the state of the art and the future development.

All the participants are expected to give a short talk or to present a poster about their own research; the selection of the talks will be done through evaluation process as in a regular conference. The students will leave the school with an increased understanding of the cutting-edge research questions and with the perspective of creating some future projects in this field also thanks to the network created during the school with the lecturers and other students.

Keynote lecturers	Lecturers
<p><b>Roy Gordon Grainger</b> (Univ. of Oxford, UK)  <b>Fred Prata</b> (Nicarnica Aviation, Norway)  <b>Dorinel Visoiu</b> (Romanian Air Traffic Services Administration)</p>	<p><b>Riccardo Biondi</b> (ISAC-CNR, Italy)  <b>Tatjana Bolic</b> (Univ. of Trieste, Italy)  <b>Elisa Carboni</b> (Univ. of Oxford, UK)  <b>Stefano Corradini</b> (INGV, Italy)  <b>Claire Witham</b> (MetOffice, UK)  <b>Lorenzo Labrador</b> (MetOffice, UK)  <b>Marcello Miglietta</b> (ISAC-CNR, Italy)  <b>Mario Montopoli</b> (ISAC-CNR, Italy)  <b>Giuseppe Salerno</b> (INGV, Italy)  <b>Mark Woodhouse</b> (Univ. of Bristol, UK)</p>

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### Organizing committee

R. Biondi, T. Bolic, H. Brenot, E. Carboni, S. Corradini, G. Guerova, N. Kristiansen, L. Labrador, M. Miglietta, M. Montopoli, R. Nogherotto and G. Salerno.

### Local Organization

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### Applications

The School is open to all the researchers, pilots and anybody interested on the topic giving priority to graduate students, PhD students and early career researchers. More info about this school and the previous editions are available at the website <http://www.CVctrainingschool.org>

### Dates

Registration deadline: 31 August 2017

### Contacts

[info@islandofmeetings.com](mailto:info@islandofmeetings.com)

### School fees and accommodation

It is possible to register for the module I (volcanic clouds, 4 days) the module II (convective clouds, 4 days) or for the whole training course (8 days). The simple registration fee includes coffee breaks, excursion and teaching material. The full board registration fee includes accommodation, meals, coffee breaks, excursion and teaching material. Every meal will be served in a different restaurant with typical local dishes, accommodation will be in B&B with quality and services equivalent to \*\*\* hotel.

Registration type	Simple (1 module)	Full board (1 module)	Simple (2 modules)	Full board (2 modules)
Regular	300€	530€	400€	870€

### Excursions and fun-night

- Guided visit to the Etruscan necropolis and national museum (half day)
- Walk to the sea side
- Ice cream night
- Fun-run in the morning before the school

### School Location

**Tarquinia (Italy)**, located close to Rome, easily reachable from the capital in 1 hour by train. The center of the town is pretty small, in the town there are several hotels, restaurants and bars of all types and categories. Tarquinia is an Etruscan town with one of the most popular necropolis and it is located on the seaside of Tyrrhenian sea.

