



2nd International Training School on

“Convective and volcanic clouds detection, monitoring and modeling”

Tarquinia, Italy, 19 –28 October, 2016

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 Norwegian Institute for Air Research (NILU), the Abdus Salam International Centre for Theoretical Physics (ICTP) and the Oxford University. The school is supported by the European Geosciences Union (EGU), the Marie Curie Alumni Association (MCAA) and the Stratospheric Processes and their Role in Climate (SPARC) Programme.

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>Francesco Cairo (ISAC-CNR, Italy) Roy Gordon Grainger (Univ. of Oxford, UK) Fred Prata (Nicarnica Aviation, Norway) Klaus Sievers (German Air Line Pilots' Association) Dorinel Visoiu (Romanian Air Traffic Services Administration)</p>	<p>Riccardo Biondi (ISAC-CNR, Italy) Tatjana Bolic (Univ. of Trieste, Italy) Hugues Brenot (BIRA, Belgium) Elisa Carboni (Univ. of Oxford, UK) Stefano Corradini (INGV, Italy) Federico Fierli (ISAC-CNR, Italy) Guergana Guerova (Univ. of Sofia, Bulgaria) Nina Kristiansen (NILU, Norway) Lorenzo Labrador (MetOffice, UK) Luca Merucci (INGV, Italy) Marcello Miglietta (ISAC-CNR, Italy) Mario Montopoli (Univ. of Rome, Italy) Simona Scollo (INGV, Italy) Mark Woodhouse (Univ. of Bristol, UK)</p>



Organizing committee

Riccardo Biondi (ISAC-CNR, Italy)
Elisa Carboni (Univ. of Oxford, UK)
Stefano Corradini (INGV, Italy)
Nina Iren Kristiansen (NILU, Norway)
Rita Nogherotto (ICTP, UNESCO)

Local Organization

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Supported by



Applications

The School is open to graduate students, PhD students and early career researchers. More info available at the website <http://www.biondiriccardo.it/training/index.htm>

Dates

Early bird registration deadline 15 May 2016
Registration deadline: 31 August 2016

Contacts

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School fees and accommodation

It is possible to register for the part I (volcanic clouds, 19-23 October) the part II (convective clouds, 24-28 October) or for the whole training course (19-28 October).

- The part I or part II early bird registration fees are 270€ including coffee breaks and teaching material the regular registration fee is 340€.
- The full early bird registration fee (19-28 October) is 500€ including coffee breaks and teaching material, the regular registration fee is 600€.

Excursions and fun-night

- Guided visit to the etruscan necropolis and museum (half day)
- Visit to LACOST (Laboratorio Atmosferico COstiero Saline Tarquinia) experimental site (managed by ISAC-CNR)
- 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 Tyrrenean sea.

