

6-12 February 2011, Venice, Italy

### Purpose:

The Water Vapour in the Climate System (WAVACS) COST winter school will provide a detailed view of atmospheric water vapour and its role in the climate system. The course will have a practical component focusing on observations models and methods. This one week course is aimed primarily at **PhD students, postdocs and other young scientists** wishing to broaden and deepen their knowledge or to identify new research opportunities.

The winter school is a follow-up of the [Cargese International school](#). The course will include lectures and practical sessions. Practical sessions include group activities on pedagogical exercises addressing open issues in current research. Poster sessions animated by the students and 2 Science Cafés will be held to promote discussion among participants.

Attendance is limited to around **40 trainees** to have efficient practical sessions.

**There is no charge for registering to attend the school and 28 grants to cover shared lodging, meals and local transportation are available.**

### Topics:

#### Lectures

Distribution of Water Vapour in the atmosphere  
Clouds and microphysics  
Observational accuracy  
Satellite observations and Data assimilation  
Radiation  
Water Vapour feedbacks and clouds  
Water Vapour and climate change

#### Practicals

In-situ Observations  
Satellite data analysis and data inversion  
Trends and variability evaluation  
GCM experiments  
Climate models analysis

### Speakers

S. Buehler (Univ. Lulea, Kiruna, Sweden)  
C. Cagnazzo (CMCC, Bologna, Italy)  
C. Carraro (Ca' Foscari Univ., Venice, Italy) \*  
F. Fierli (CNR, Bologna, Italy)  
P. Forster (Univ. Leeds, United Kingdom)  
A. Gettelman (NCAR, Boulder, United States)  
(\* ) To be confirmed

W. Lahoz (NILU, Oslo, Norway)  
B. Legras (LMD/IPSL, France)  
A. Navarra (CMCC-INGV, Bologna, Italy)  
T. Peter (ETH, Zurich, Switzerland) \*  
C. Schiller (FZ, Julich, Germany)  
B. Soden (U. Miami, United States)  
G. Stephens (CIRA/U Colorado, United States)

### Important dates:

October 20 2010: Deadline for applications and travel support request  
End October 2010: Notification of acceptance  
November 15 2010: Deadline for block booking  
February 6-12 2011: School

### Information and Registration:

School website: <http://www.isac.cnr.it/wavacs/school-2011>

### Organizers:

Chiara Cagnazzo  
CMCC (Italy)  
chiara.cagnazzo (at) cmcc.it

Andrew Gettelman  
NCAR-ESL (US)  
andrew (at) ucar.edu

Federico Fierli  
ISAC-CNR  
f.fierli (at) isac.cnr.it

William A. Lahoz  
NILU (Norway)  
wal (at) nilu.no