### VENUE

ISSAOS 2018 will be held in L'Aquila and is organized by **CETEMPS – Center of Excellence for the Forecast of Severe Weather by Remote Sensing and Numerical Modeling.** 



L'Aquila is a Middle Age town, rich of art, history and wild nature. It is the capital city of Abruzzo and is located at an elevation of 2.341 feet (714 meters), in a valley dominated by the highest mountain of the Appennines, the Gran Sasso d'Italia. L'Aquila is located between the National Park "Parco Nazionale del Gran Sasso e Monti della Laga" and the Regional Park "Parco Naturale Regionale del Sirente-Velino". It is about 100 km East of Rome.



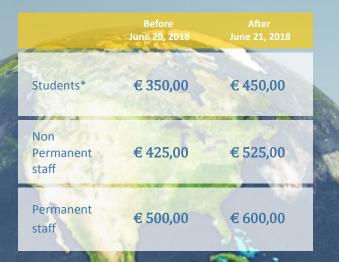
### **ISSAOS 2018**

**CETEMPS** c/o Department of Physics and Chemistry Università degli Studi dell'Aquila, via Vetoio snc (Fraz. Coppito)

Phone: +39 0862433012 +39 0862433073 Fax: +39 0862433089

E-mail: issaos@aquila.infn.it

### **REGISTRATION FEES**



(\*) M.S. or Ph.D students are requested to provide their status before the registration. Registration includes: Lunch and coffee breaks, Social events (including ice breaker, city tour, and social dinner), Teaching materials (the school online content will be accessed by personal account)

### HOW TO APPLY

The application form should be submitted online through the ISSAOS 2018 website:

http://cetemps.aquila.infn.it/issaos



FAB SPACE 2.0





International Summer School on Atmospheric Oceanic Sciences





## 27-31 August 2018 L'Aquila, ITALY

Climate Changes: Regional Modeling, data analysis and uncertainties

DIRECTOR Prof. J. Hesselbjerg Christensen LOCAL ORGANIZING COMMITTEE V. Colaiuda, R. Ferretti, B. Tomassetti, G. Curci, G. Redaelli

Department of Human Studies, Viale Nizza 14, 67100 L Aquila cetemps.aquila.infn.it/issaos The purpose of the summer school is to illustrate the progress that has been made in the scientific ability to generate detailed climate projections at the regional scale.

The main objectives of the school are thus to **provide students with an insight into climate changes and impacts**, as well as to associated uncertainties and their communication.

Assessments on the most recent techniques for climate data analysis, for regional climate modeling techniques, for climate impact on hydrology and for quality assessment and validation of the observations will be provided.

The **theoretical lectures** will be complemented by **practical sessions** on real environmental data analysis, and there will be ample opportunity to exchange ideas and questions among the students and the lecturers.

PURPOSE

**TOPICS** 





### **Climate change impacts**

analysis of the impacts at global and regional scale

# Climate Change uncertainties and their communication

overview of the uncertainties and role of communication

#### Regional Climate Modeling RCM techniques

### Climate impact on hydrology

impacts of the climate changes on hydrology



**Climate data analysis** techniques for climate data analysis

# LECTURERS

Jens Hesselbjerg Christensen University of Copenhagen, Denmark

Martin Drews Technical University of Denmark, Denmark

> Markku Rummukainen University of Lund, Sweden

Erika Coppola International Centre for Theoretical Physics ICTP, Italy

Melissa Bukovsky National Center for Atmospheric Research NCAR , USA

> Tim Carter Finnish Environment Institute SYKE, Finland

Stefan Fronzek Finnish Environment Institute SYKE, Finland

Eleanor Blyth Centre for Ecology & Hydrology, UK

### Join us on: cetemps.aquila.infn.it/issaos