



EMS & ECAM 2013

• • • *TIMELINE*

FEBRUARY 2013

- ### ••• Call for papers



13 MARCH 2013

- #### **••• Abstract submission with support applications**

25 APRIL 2013

- #### ••• *Close of abstract submission*

01 July 2013

- ### • • • Letter of schedule

08 August 2013

- #### *... Close of pre-registration*

EMS & ECAM 2013

... OPPORTUNITIES FOR

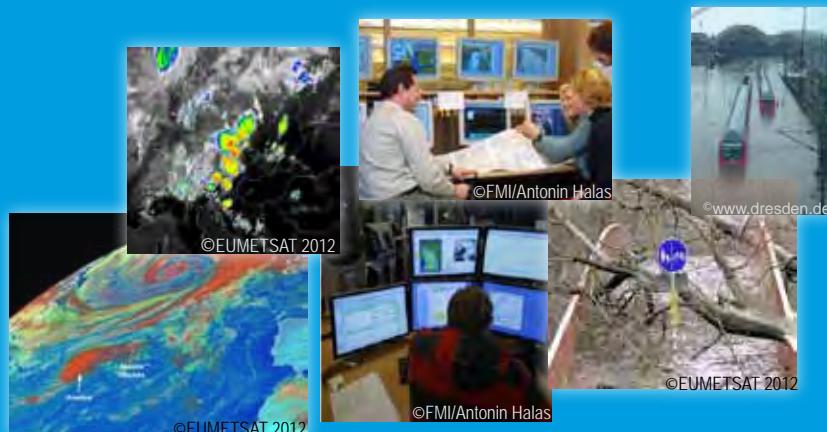
- • • *side meetings*
 - • • *exhibition of instruments and systems manufacturers, service providers, publishers, ...*
 - • • *networking*
 - • • *pre-conference workshops for forecasters*
 - • • *International Forum of Meteorological Societies, RMetS Student Conference, Amateur Conference*

EMS & ECAM 2013

• • • CONTACT

ORGANISATION: *ems2013@copernicus.org*

PROGRAMME & SCIENCE COMMITTEE: ems-sec@emetso.org



HIGH IMPACT WEATHER: WORKING IN PARTNERSHIPS TO REDUCE RISK.



IMPACT-BASED WARNINGS

The ECAM:

Applications of meteorology in warning of high-impact weather

High Impact Weather: Working in Partnerships to Reduce Risk - the theme emphasises the partnership dimension of meteorological services.

Developing and sharing skills, technology and infrastructure across organisations is required to achieve maximum utility from knowledge of the weather, in particular in high impact situations. The ECAM sessions address how to develop multi-hazard partnerships and impact-based warnings.

The ECAM sessions will further address the combination of model and nowcasting data for warning purposes, the assessment of effectiveness of forecasts and warnings, the reduction of weather risks to transport and - in connection with the CE programme - communication aspects during high-impact situations.

NUMERICAL MODELS FOR FORECASTERS AND SPECIFIC USERS

Numerical weather prediction (NWP)

The emphasis of the NWP programme is on the development and operational use of numerical models:

- Studies on efficient and robust numerical schemes in super-computing environments, modelling of processes relevant to weather forecasting, data assimilation, the use of observations, as well as probabilistic techniques.
- Operational interpretation and use of NWP outputs, including automatic interpretation algorithms and interpretation by forecasters.

NWP activities include both research and operational aspects. The operational aspects involve the forecaster and increasingly specific users.



COMMUNICATION AND INTERPRETATION OF UNCERTAINTY

Communication and education (CE)

The CE programme provides a platform for discussions on the provision and dissemination of meteorological and climate information to society. This includes strategic issues such as the development of adaptation strategies, communication within and through all types of media, customer orientation, as well as far-reaching challenges such as the role of meteorology and atmospheric sciences in education and training, and important aspects of career development.

In line with the conference theme, communication and interpretation of uncertainty in risk management, seasonal prediction and climate projections will also be addressed.

UNDERSTANDING, OBSERVING, MODELLING CAPACITIES

The atmospheric system and its interactions (ASI)

The ASI session programme is a platform addressing our understanding, observing and modelling capacities of atmospheric processes and the water cycle, including feedback mechanisms and integrative approaches.

The ASI sessions thus mostly cover scientific activities upstream of those addressed in the NWP, ECAM and CL programmes. The ASI sessions also provide plenty of interfaces for related sciences and applications: hydrology, agrometeorology, air quality, biometeorology, energy meteorology etc.

The programme: themes & topics

DEVELOPING CLIMATE SERVICES IN PARTNERSHIP

Applied climatology (CL)

The CL programme is a forum for exchange and sharing knowledge on the development of climate services. In line with the Global framework of Climate Services (GFCS) these services are increasingly developed in partnership between developers, providers and users, with the aim to support society to cope with and adapt to present day and future climate extremes, in particular those with high impacts.

The programme is organised in three session groups:

- Monitoring climate and climate change;
- Understanding processes and climate change;
- Research and services for socio-economic sectors.

As the development of climate and meteorology services, in particular on early warning systems, is increasingly growing together, many interconnections with the ECAM and related sessions will be coordinated.

GLOBAL CLIMATE REANALYSES

The ERA-CLIM Conference

ERA-CLIM is an EU-funded collaborative research project aimed at preparing and producing global climate reanalyses extending back in time to the early 20th century. The project includes work on recovery and digitisation of early instrumental data, reprocessing and recalibration of satellite observations, and preparation of climate-quality model data for reanalysis. New ERA-CLIM reanalysis products include ERA-20C, an ensemble of 20th-century reanalyses based on perturbed sea-surface temperature inputs, and ERA-SAT, a new high-resolution reanalysis of the satellite era.