


# ECMWF/MACC participation in the WMO Sand and Dust Storm Warning and Advisory Assessment System (SDS-WAS)

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# What is it?

<http://sds-was.aemet.es/>



Northern Africa-Middle East-Europe (NA-ME-E) Regional Center — WMO SDS-WAS - Mozilla Firefox

HOME - SDS - Mozilla Firefox

WMO Sand and Dust Storm Warning Advisory and Assessment System(WMO SDS-WAS)

ASIA/CENTRAL PACIFIC REGIONAL CENTRE

Home Forecast Observation Model Inter-Comparison News & Event Publications About us

**FORECAST**

**CONCENTRATION**  
 Movies of surface dust concentration distribution over Asia in 3 hours interval for 3 days forecast from the model CURCE/Dust.

**CURCE/DUST OF CNR** see more>> MORE

**INSINGAR OF JHA** To be decided see more>> MORE

**ADAM OF KHA** To be decided see more>> MORE

**NEWS & EVENT**

>>Severe Solar Blast Affects China's Communication

>>Science Steering Committee

**OBSERVATION**

**PM10**

CNR JHA KHA Other

**AOD**

CNR JHA KHA Other

**Satellite Observation**

CNR JHA KHA Other

**LOGIN**

username

password

checking

Login Register

**SDS COLOR INDEX**

No SDS

Suspended dust

Blowing sand

Sand And Dust Storm

Severe SDS

Extreme Severe SDS

**HOT LINKS**

>> cna

>> wmo sds was

>> ca was

>> cans

# Mission

To enhance the ability of countries to deliver timely and quality sand and dust storm forecasts, observations, information and knowledge to users through an international partnership of research and operational communities.

# Objectives

The SDS-WAS, as an international framework linking institutions involved in SDS research, operations and delivery of services, addresses the following objectives:

- Provide user communities access to forecasts, observations and information of the SDS through regional centres connected to the WMO Information System (WIS) and the World Wide Web.
- Identify and improve SDS products through consultation with the operational and user communities
- Enhance operational SDS forecasts through technology transfer from research
- Improve forecasting and observation technology through coordinated international research and assessment
- Build capacity of relevant countries to utilize SDS observations, forecasts and analysis products for meeting societal needs
- Build bridges between SDS-WAS and other communities conducting aerosol related studies (air quality, biomass burning, etc.)

# MACC/ECMWF involvement

- Part of the steering committee of the NA-ME-E Regional Center
- One of the models “linked” to the website (also NAAPS)
- Now part of a more quantitative dust comparison (under **development**, not on a public server)
- MACC is interested in the verification activities – and in the extra data in desert regions as part of an ongoing collaboration between AERONET and WMO SDS-WAS! Plus new MPLNET site in Barcelona.

Courtesy of Francesco Benincasa and  
Enric Terradellas (AEMET)

ICAP Workshop on Ensemble Forecasts and Assimilation

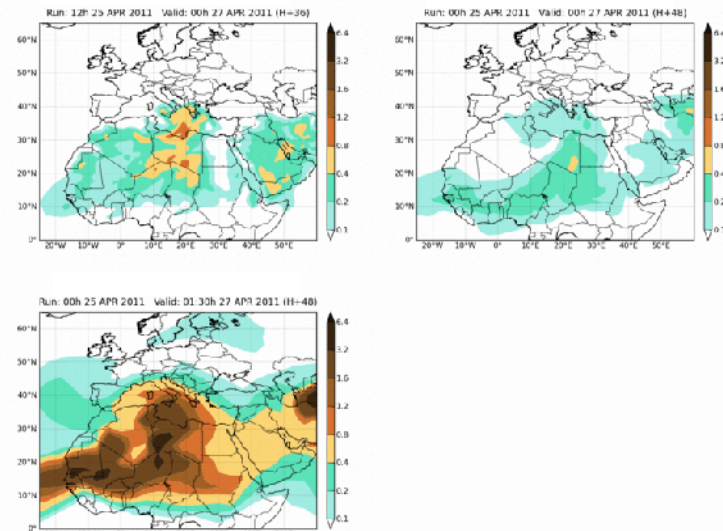
## Compared dust forecasts

by Francesco Benincasa — last modified Apr 28, 2011 03:07 PM

Products from different numerical prediction models are represented at a common geographical domain, which is intended to cover the main source areas, as well as the main transport routes and deposition zones in the region. Products with lead time up to 72 hours are represented using common color palettes.

NOTE: Click on the images to enlarge.

### Dust optical depth:



[Download full image](#)

# Message for ICAP

- Looking for more models for the dust forecast multi-model activities
- Coordination to avoid duplication of work
- Exchange information
- Looking for volunteers to run an other regional centers (America? Australia?)
- Generally interested in the ICAP multi-model activities
- Many common interests!