

Quantitative methods for evaluating daily contributions of African dust to ambient PM_x levels over Europe during dust outbreaks

Barcelona, Spain, 27th-28th April 2015

LIFE+ Networking Activity by

AIRUSE, DIAPASON, ACCEPT-AIR & MEDPARTICLES

ENV2011/ES/584, ENV2010/IT/391, ENV2009/GR/289, ENV2010/IT/327 Projects

Conference Hall

Institute of Marine Sciences, CSIC

Passeig Marítim de la Barceloneta, 37-49. E-08003 Barcelona
(Spain)



This scientific meeting aims at bringing together experts on the evaluation of African dust contributions to air quality impairment over Southern Europe. The goal is to discuss the methodologies available to quantitatively report on daily contributions of this natural emission source to ambient PM_x recorded by the air quality monitoring stations. This is of relevance to adequately implement the EU Air Quality Directive (2008/50/CE). Furthermore, and given the results shown by the epidemiology experts, these methodologies are relevant to adequately evaluate the health effects of African dust outbreaks over Europe. Possible protocols to convey to the most vulnerable population specific measures to reduce exposure to PM will be discussed.

Agenda

27/04/2015

- 10:00h Coffee
- 11:00h Welcome to participants and presentation of the event
- 11:10-11:30 X.Querol & J. Pey. African dust over Europe with the percentile method: AIRUSE-LIFE+
- 11:30-11:50 G. Gobbi & F. Barnaba. DIAPASON LIFE+: experience and recommendations for the assessment of Saharan Dust advections
- 11:50-12:10 T. C. Landi. The I-AMICA method
- 12:10-12:30 N. Perez. AIRUSE: 2001-2014 Daily contributions of net African dust to PM10 in Spain
- 12:30-12:50 P. Salvador. Meteorology of African dusts over Europe
- 12:50-14:30 Lunch
- 14:30-14:50 S. Rodriguez. African dust over Canarias
- 14:50-15:10 J. de la Rosa & A.M. Sánchez de la Campa. African dust over Andalucía and chemical composition of dust over Spain
- 15:10-15:30 K. Eleftheriadis. African dust over Greece (ACCEPT-AIR LIFE+) and over AIRUSE LIFE+ cities
- 15:30-15:50 G. di Genaro. African dust over Apulia
- 15:50-16:10 O. Jorba & JM Baldasano. Modelling African dust. Accuracy & quantitative approach: BSC
- 16:10-16:30 Coffee
- 16:30-16:50 G. Kallos. Modelling African dust. Accuracy and quantitative approach: SKIRON
- 16:50-17:10 E. Tarradellas & S. Basart, WMO SDS-WAS Dust model inter-comparison and forecast evaluation
- 17:10-17:30 F. Amato. How efficiently deposited dust can be removed from streets surfaces?
- End of first day

28/04/2015

- 10:00-10:20 A. Alastuey. Composition of PM mineral matter over Europe
- 10:20-10:40 F. Lucarelli. Composition of African dust over Florence (PIXE+stochiometry+PMF)
- 10:40-11:00 A. Tobias. Health Effects of African dust. A review
- 11:00-11:20 Coffee
- 11:20-11:40 M. Pandolfi. African dust and boundary layer
- 11:40-12:00 M. Stafoggia. African dust and forest fires: Impacts on health MED-PARTICLES-LIFE+ project
- 12:00-13:00 Round table on how to elaborate a joint and improved protocol for African dust contributions
- 13:00-14:30 Lunch
- 14:30-16:00 Round table on how to protect population from African dust:
How to produce the forecast and what should be proposed for most vulnerable population? What should be the threshold to alert the vulnerable population?
Shall we suggest cleaning the streets or using dust suppressors to abate resuspension intense after African dust events?

Closure

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The Institute of Marine Sciences is located in Barcelona's Villa Olímpica District between the Hospital del Mar and the Olympic Towers. To reach ICM, you can use:

Metro: The L4 line (yellow line) has a station (Ciutadella-Vila Olímpica) 300 meters from the ICM

Tram: The T4 line has a station (Ciutadella-Vila Olímpica) 350 meters from the ICM (not the same as Metro but close by)

Bus: The end of the lines 59, 45, 92, 71 and V21 are a few meters from the ICM

AIRPORT / Train (RENFE): Get off at Passeig de Gràcia. And take the underground L4 line (yellow line) to Ciutadella-Vila Olímpica station.

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