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International Network to Encourage the Use of Monitoring and Forecasting Dust Products



COST Action CA16202

Chair: Sara Basart (Spain) **Vice-Chair:** Slobodan Nickovic (Serbia)

Period: 14 Nov 2017 - 14 Nov 2021







Goals

- Sand and Dust Storms (SDS) play a significant role in different aspects of weather, climate and atmospheric chemistry and represent a serious hazard for economy, environment and health
- Understanding, managing and mitigating SDS risks requires cross-disciplinary knowledge
- inDust searches to build a community of researches and users that can start to design the strategy to develop dust services



Tehran, Iran, June 2014





Goals

- To establish a network involving research institutions, service providers and potential end users of information on airborne dust
- To coordinate and harmonise the process of transferring dust observations and predictions to users (including researchers and stakeholders).
- To assist the diverse socio-economic sectors affected by the presence of high concentrations of airborne mineral dust











Health effects of Sand and Dust Storms

Evidence on health effects remains unclear (Hashizume et al. 2010, Karanasiou et al. 2012, Longeville et al. 2013, Zhang et al. 2014)

Main differences on,

- a) Study design and statistical analysis
- b) Health outcomes, age groups and lagged effects
- c) Methods to identify dust events and its contribution to particulate matter
- d) Role of desert dust based on a binary metric or as a continuous exposure





Health effects of Sand and Dust Storms

A recent systematic review commissioned by WHO, with standardized protocol, shows the need to develop an standardize study protocol for epidemiological studies for the short-term health effects of sand and dust storms, with same methodological characteristics, in and near to hot spots







Goals for the meeting

- To discuss the availability of measurements and products to identify dust events and sources for natural and local contributions to particulate matter
- To discuss the main methodological characteristics to help developing a standardized study protocol for the short-term health effects
- To develop a document providing guidelines for future studies





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How

- Identify scientific and technical gaps in "dust" research
- Coordinate and harmonise the process to get user-oriented products.
- Build capacity through the high-level teaching of users to promote the use of the delivered dust products.
- Train staff to properly use the available observational and forecast products to design and implement preparedness and mitigation measures.
- Enhance the cooperation with institutions from nearneighbouring and international partner countries in Northern Africa and the Middle East.

