

# Mineral Dust Services

“Desert dust and sea salt are the largest contributors to the global aerosol burden”  
IPCC, 2013

## Products

### 1. Mineral dust assessment

Dust models are developed for short to medium-term prediction of mineral dust events worldwide and for regional climate modelling. Our team has developed the NMMB/BSC Dust model in collaboration with the NOAA's National Centers for Environmental Prediction (NCEP).



### 2. Forecast system

Early-warning information about current and future dust concentration and derived parameters critical for specific sectors.

## Applications

- **Solar energy**
  - Power forecasting
  - Mid-term maintenance planning
  - Site planning for new projects
- **Transportation**
  - (air) Visibility assessments for airlines and flight management
  - (ground) Transportation impacts
- **Health**
  - Early-warning system for people with respiratory problems
- **Agriculture/ Insurance**
  - Crop damage

