

# BSC

## Atmospheric Composition

The Atmospheric Composition group develops research that spans a range of different aspects including:

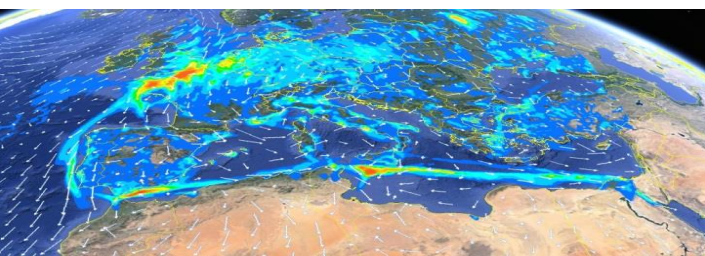
- Understanding missing aerosol species and processes
- Determining the origin of air pollution episodes through source apportionment techniques
- Understanding dust storms and their variability and quantifying their effects upon climate and atmospheric chemistry



We host two WMO Regional Centers for dust prediction and an AXA Chair on Sand and Dust Storms



Our goal is to understand and predict the variations of atmospheric trace gases and aerosols, along with their effects upon air quality, climate and health



- We develop modeling systems to improve atmospheric composition and air quality forecasts from global to local scales
- We deliver global aerosol forecasts, air quality forecasts for Europe and the Iberian Peninsula (CALIOPE [www.bsc.es/caliope](http://www.bsc.es/caliope)) and dust forecasts for Northern Africa, Middle East and Europe (<http://dust.aemet.es>)

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