

SGR2021_AC: ATMOSPHERIC COMPOSITION

Description

The Atmospheric Composition group (AC) of the Earth Sciences department of the Barcelona Supercomputing Center (BSC) aims at better understanding and predicting the spatio-temporal variations of atmospheric pollutants along with their effects upon air quality, weather and climate. This is addressed through the continuous development and application of numerical models over multiple scales, from weather to climate and from global to urban scales. The fundamental research undertaken in the BSC Atmospheric Composition group further benefits both the scientific community and society through a number of operational forecasting services including global aerosol forecasts provided within the International Cooperative for Aerosol Prediction, the CALIOPE multiscale forecasting system that predicts everyday the air quality for Europe, Spain and Barcelona, and the participation of MONARCH in the regional Copernicus Atmospheric Monitoring Service, and the WMO Barcelona Dust Forecast Center.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

Source URL (retrieved on 13 ago 2024 - 01:20): <https://www.bsc.es/ca/research-and-development/projects/sgr2021ac-atmospheric-composition>