

Forecasting atmospheric composition at ECMWF: introduction to the Copernicus Atmosphere monitoring Service (CAMS)

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In 2014, ECMWF signed with the European Commission a contribution agreement on the implementation of the Copernicus Atmosphere Monitoring (CAMS) and Climate Change (C3S) monitoring services. For 10 years, now CAMS has been developed under ECMWF supervision to deliver operational forecasts, analyses, and reanalyses of the chemical composition of the atmosphere at the regional and global scales. Transport and chemical transformation of air pollutants in the troposphere, greenhouse gases fluxes and emissions and evolution of the ozone hole are predicted and analysed by the CAMS tools which result in a unique integrated approach based on Earth observations, in-situ monitoring networks and models. This presentation is a review of available forecast products and data, highlighting current and future stakes and challenges for ECMWF and its user communities.

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