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Modelling and satellite observations of air pollution in the Netherlands and Europe

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In our contribution we will describe an air-pollution forecasting system for Europe and the Netherlands. This system is based on the Dutch Lotos-Euros and the French Chimère models, coupled to ECMWF and HIRLAM operational weather forecasts. The work is part of a collaboration between TNO, RIVM and KNMI. Results will be shown of the comparison between the two models, and the verification/validation with surface observations and satellite NO₂ measurements from the OMI satellite spectrometer on EOS-Aura. An assimilation capability for both surface and satellite observations (OMI) has been developed. First results will be discussed.