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ECLAT: The European Cluster Assimilation Technology Project

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Abstract

The European Cluster Assimilation Technology project is a collaboration funded by the European Commission through the Seventh Framework Programme (FP7). ECLAT will ingest a variety of contextual datasets into the Cluster Active Archive to complement the existing Cluster data. These datasets will include SuperDARN ionospheric convection measurements, auroral observations, MIRACLE measurements of ionospheric currents in the Scandinavian sector, detailed magnetic field modelling and Cluster footprint tracing, detailed Cluster boundary crossings information, and state-ofphysics-based modelling the-art of the magnetosphere using the GUMICS code. This poster will provide an overview of the ECLAT project, its datasets, and software tools. ECLAT provides extensive information from key regions for Earth's space-weather sciences, i.e. solar wind, magnetosphere, and ionosphere, suitable for studies of local process as well as large-scale response to solar wind drivers.