



ECLAT: The European Cluster Assimilation Technology Project

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Institute, Finland (kirsti.kauristie@fmi.fi, minna.palmroth@fmi.fi), (4) Institutet för rymdfysik, Sweden (opg@irfu.se), (5) St.
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The European Cluster Assimilation Technology project is a collaboration between the University of Leicester, UK, the Institutet för rymdfysik, Sweden, St. Petersburg State University, Russia, the Finnish Meteorological Institute, Finland, and the Oesterreichische Akademie der Wissenschaften, Austria, 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-of-the-art physics-based modelling of the magnetosphere using the GUMICS code. This poster will provide an overview of the ECLAT project, its datasets, and software tools.