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Automated methods for quality control in numerical weather prediction data assimilation

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Our aim is to implement an automated quality control assurance method for meteorological data. The approach is based on a set of different tests that probe the spatial, temporal and physical consistency of our data in a statistical driven method. In order to merge the different outputs, we propose a statistical framework based on accuracy estimation and optimisation of our tests and bayesian multiple evidence merging. Finally we would set the guidelines for an imputation method of the detected outliers based on the optimisation of the likelihood yielded by our tests.

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Field of study

Computational Physics

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