



Some aspects of assimilation of satellite observations

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Assimilation of observations defines a general and systematic approach for combining together, in an estimation process, information originating from different sources (such as, e. g., observations performed by different satellite-borne instruments). The basic principles of assimilation are described, and illustrated by examples drawn from assimilation of satellite observations.

An important aspect is the quantification of the relative amount of information contained in the different information sources. The theoretical definition of that relative amount of information, and its practical numerical computation, are discussed.