



Weather Analysis and Forecasting, Second Edition: Applying Satellite Water Vapor Imagery and Potential Vorticity Analysis

Christo Georgiev, Patrick Santurette, Karine Maynard

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Weather Analysis and Forecasting: Applying Satellite Water Vapor Imagery and Potential Vorticity Analysis, Second Edition, is a step-by-step essential training manual for forecasters in meteorological services worldwide, and a valuable text for graduate students in atmospheric physics and satellite meteorology. In this practical guide, P. Santurette, C.G. Georgiev, and K. Maynard show how to interpret water vapor patterns in terms of dynamical processes in the atmosphere and their relation to diagnostics available from weather prediction models. In particular, they concentrate on the close relationship between satellite imagery and the potential vorticity fields in the upper troposphere and lower stratosphere. These applications are illustrated with color images based on real meteorological situations.

- Presents interpretation of the water vapor channels 6.2 and 7.3 μ m as well as advances based on satellite data to improve understanding of atmospheric thermodynamics
- Provides analysis of deep convective and thunderstorm phenomena to better understand the development of thunderstorms and especially the development of strong thunderstorm events
- Includes new operational forecasting methods and numerical weather models
- Offers information on satellite water vapor images and potential vorticity fields to analyse and forecast convective phenomena and thunderstorms

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