Atmospheric Chemistry and Physics Discussions

Interactive
Comment

Interactive comment on "All weather IASI single field-of-view retrievals: case study – validation with JAIVEx data" *by* D. K. Zhou et al.

Anonymous Referee #2

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The authors present a validation of their state or the art retrieval methods from hyperspectral sounders (IASI) using Jaivex campaign data. Their method presents the novelty of retrieving single field of view profiles of temperature and water vapour under clear and cloudy conditions, over land and water, also retrieving cloud properties as well as surface emissivities.

The paper provides the usual validation statistics and comparisons in these type of exercises. It is greatly appreciated that they present their results showing them explicitly. In particular, the profile differences plots between retrievals and RAOBs in Fig. 11. Also the authentic retrieval statistics shown in Fig. 12 is nice to see. In it, they show a relatively big bias difference between RAOBs and IASI retrievals typical of these kind of experiments.

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It is also worth mentioning their Fig. 15 where they show the typical big variability in atmospheric water vapour content which adds addtional complexity to these validation exercises.

Interactive comment on Atmos. Chem. Phys. Discuss., 8, 21001, 2008.