

## ***Interactive comment on “Ground-based observations for the validation of contrails and cirrus detection in satellite imagery” by H. Mannstein et al.***

### **Anonymous Referee #3**

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#### General comments:

The paper covers the important topic of how to improve the observation of contrails and cirrus. By comparing satellite-based retrievals with ground-based observations, it makes an important contribution to the further understanding of the strengths and weaknesses of each method.

I therefore recommend that the paper should be accepted for publication. However, I also recommend that the paper should be revised for language difficulties as well as to reformulate some sentences for better understanding.

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#### Specific comments:

p. 3188: reason for image compression to 512x512 pixels? does this lower resolution affect the further retrieval in any way?

p. 3188: please describe how the Wolkam camera images have been deskewed.

p. 3192: please describe how AVHRR images have been deskewed (or rectified).

p. 3193: please describe how SEVIRI images have been deskewed (or rectified).

p. 3201: last sentence 'In both graphics ...' → move this sentence to figure caption.

Fig. 1: the six images are difficult to understand with the current short figure caption. Please use (a) ..., (b) ..., (c) ..., etc. to describe each image shortly. Furthermore, the small numbers in the images are hardly readable, and the numbering should be explained as well.

Fig. 3: please add 'overall' title to this figure, before 'Left: ...', see for example Fig. 2.

Fig. 6: same comment as for Fig. 3.

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Interactive comment on Atmos. Meas. Tech. Discuss., 2, 3183, 2009.

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