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AMTD 8, C1654–C1655, 2015

> Interactive Comment

Interactive comment on "A novel approach for the extraction of cloud motion vectors using airglow imager measurements" by S. Satheesh Kumar et al.

Anonymous Referee #2

Received and published: 23 June 2015

1) 7 days out of a year's worth of measurements? 2) 256x256 carved out of 512x512 CCD - is largely a wastage of CCD space. Did you consider alternative domes or location perhaps. 3) There was no discussion of unwarping the image. If you unwarp, pixels at different distance away from center will have different sizes. Are you assuming that all pixels within the 90 degree cone have the same size? Why? How much error in estimation of the cloud motion does that cause? 4) The 'search window' needs to be better defined. Is it a time window or spatial window or both? How exactly do you set it ("using information discussed in sec 3.." needs more elaboration). 5) While discussing 'temporal resolution between images', you mention several studies/reports,





but cite only one. 6) Why is 5 min (or 4 min in your case) acceptable time resolution is not made clear. Based on the wind climatology, can you put in words something like "..in 4-5 minutes, cloud of size xx would move yy distance in the all-sky camera field-of-view." 7) Apart from the CBH, the property of the cloud to not change shape is equally important. That also likely limits the type of clouds that you want to track. A discussion on this seems warranted.

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 2657, 2015.

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Interactive Comment

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Interactive Discussion

Discussion Paper

