

Interactive comment on “High-Dynamic-Range Imaging for Cloud Segmentation” by Soumyabrata Dev et al.

Anonymous Referee #3

Received and published: 3 January 2018

In the manuscript a simple yet efficient method of improving a dynamic range of sky camera is described and discussed. The authors use standard bracketing to capture three consequent images at three various exposures and proces them by contrast-limited adaptive histogram equalization algorithm and further fuzzy logic and probabilistic image segmentation, improving quality of the final image. In particular the method substantially reduces number of saturated pixels and benchmark tests show its advantage over other post-processing methods described in the literature. The text is clearly written and contains all the necessary information, however in the presentation there are some elements which should be improved. Thus, the paper can be accepted to AMT after minor revisions.

Specific comments.

C1

- 1) Figures shall be page wide in the final version of the manuscript.
- 2) Figure 5: any ideas why such a range of segmentation errors in various colour channels? A short explanation is necessary, the reviewer has some ideas why C15 is the best choice, but this should be explained in more detail.
- 3) Figure 6. Any ideas why there are dips and tops on presented curves? Explain, please.

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2017-152, 2017.

C2