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Comment

Interactive comment on “Observations of tropical rain with a polarimetric X-band radar: first results from the CHUVA campaign” by M. Schneebeli et al.

M. Schneebeli et al.

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General comments: All the issues raised by reviewer three are addressed in the replies to reviewers 1 and 2.

Specific comments: - The effect of radome attenuation on Zdr will be investigated.

- We will be more detailed in the description of the EKF method and the other methods used to determine Kdp.

- There is such a large difference in the correlation because the EKF method is reducing the noise in Zdr, which is leading to a higher correlation coefficient. This can be seen in Figure 4c, where the two different estimates of Zdr are shown in one plot. Given the fact that there are already a lot of figures in the manuscript, I am not sure

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if the figure recommended by reviewer 3 will enlighten this issue. However, I think it should be clear enough from Figure 4c and some additional explanations.

- Fig 4 a-d: the location of the disdrometer will be indicated.
- P 1720, line 5-10: Will be clarified.
- I agree and will change the units of Figure 2.
- Statistics will be given.
- Figure 6: The time series uses the mean over all the azimuth angles.
- Figure 7: I don't see why I should add the Zh histogram.
- The statistics are already given in the table 4.

Interactive comment on Atmos. Meas. Tech. Discuss., 5, 1717, 2012.

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