



Interactive
Comment

Interactive comment on “Global patterns of lightning properties derived by OTD and LIS” by S. Beirle et al.

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I think this is an interesting paper dealing with lightning properties of the OTD/LIS data sets. The authors find significant differences between land and ocean properties of lightning, even though lightning is much more frequent of land areas. I have some minor comments:

title: "derived by OTD...."

line 5: have been

line 36: where is reference to Boccippio et al., 2000a? This should appear before 2000b.

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line 38: I think the first measurements were from the DMSP satellite by Orville and Henderson.... They should be referenced

line 112: a large impact

Tables 2 and 3: How do you explain the large difference in multiplicity (groups per flash) between OTD and LIS? LIS has a mean multiplicity of 12?

Fig.3: The key for the LIS and OTD in 3f) is in black and white, and should be color.

Fig.3: All plots show the mean of many measurements. What about the standard deviation or "error bars" around the mean. I know this may make the plots messy, but how do we know that the difference between the OTD and LIS, and the latitudinal differences are REAL? Maybe they all not significantly different from each other? This should be at least discussed in the text.

line 252: delete radiance (it appears twice)

Section 4.5: Please note that Fullekrug et al (2002, Ann. Geophys.) also showed higher intensity flashes over the oceans than the land. They should be referenced as well.

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