

ref_rep

General comments:

In general the figures are very blurry. They need to be redone with higher resolution and larger fontsize and marker size. Somehow I would have liked to have more details in the section 3.1.3 where the difference in the R6 values are small. Other than that I find the depth of the paper sufficient. There are still quite a few spelling and grammar errors to be corrected.

More specific comments:

line 26: here investigated -> investigated here

line 30 from Brewer -> from a Brewer

line 37 Brewer spectrophotometry -> Brewer spectrophotometers

line 66 one sentence paragraph, attach to earlier paragraph?

line 76 as well as -> or

line 108 you cannot use a method as a light source -> rephrase

line 117 unnecessary paragraph change

line 175 unnecessary paragraph change

line 200 unnecessary paragraph change

line 214 will be not adjusted -> will not be adjusted

line 227 The application of the ETC correction is done ->The ETC correction is applied when...

line 228 a certain value -> a predefined value

line 291 remove .TOC. ?

line 316 start a new paragraph from "Two algorithms..."

line 352 We applied the same methodology... -> We applied the methodology...

line 399 minimum larger than maximum?

figure 6 BPS seems to follow the R6 spikes. Why does it not follow the ones in december 2007 and december 2008?

figure 7 was easier to read in the previous version of the manuscript

line 467 subtracting to -> subtracting from ?

line 487 was to 3000 -> was set to 3000?

line 490 R6_smooth is noisier than R6_smooth?

figure 8 Maybe a more detailed figure of summer 2011 -summer 2012 or year 2015 to see what causes the weird difference in R6 BPS and R6smooth. This difference causes a weird wave in the TOC difference plot figure 12.

figure 9 legend: Is blue no correction at all? Or correction using daily mean but without using any filter?

line 535 and figure 11 Would be nice to know on what basis the BPS discards these measurements because most of them are within the minimum-maximum -limits.

figure 11 caption: "where large difference between...". Between what?

line 546 Would all the data not belong to one of the groups above? (1. R6smooth higer than R6bps 2. R6bps higer than R6smooth 3. R6smooth similar to R6bps?)

line 552 which above conditions? When the difference in R6 corrections was small?

line 568 it is unclear to me what periods you mean. The periods when R6_bps is considerably different from R6_smooth?

figure 15 So is R6 the individual standard lamp tests or daily averages or from PBS or O3Brewer? Seems like EUBRWNET creates spikes in the data itself.

line 604 I dont see this. Only place where it deviates more is at Aosta close to 250 DU.

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line 640 confusing sentence, maybe "It is clear from Table 6 that there are no significant differences in the trends among the three codes, when data affected by rapid changes in R6 were removed "

line 657 ... to a higher value, which is useful when a large R6 drift is experienced

line 663 is experienced -> are experienced

line 670 less than 1% or about 1%?

line 676 I understand what you are trying to say but this needs to be rephrased somehow. "different codes, do not seem to be affected when ..."