

Interactive comment on “Brief communication: Antarctic sea ice gain does not compensate for increased solar absorption from Arctic ice loss” by Christian Katlein et al.

W. Eschenbach

willis@surfacetemps.org

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The values given in Figure 1 (b) are not correct. According to the CERES satellite data, from 2001-2014 the amount of sunlight absorbed into the arctic oceans is between 50 and 55 W/m². Antarctic oceans varied between 55 and 58 W/m² over the period.

The authors give values from 150 to 180 W/m² for the Arctic and from 180 to 245 W/m² for the Antarctic.

The Kiehl-Trenberth global energy budget gives a global average value of 167 W/m² from absorption, and the CERES data gives a global average of 162 W/m² ... the authors' claim is larger than the K/T global average.

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There is a separate issue. The CERES data shows a clear peak in Arctic oceanic absorption during the 2012 low in sea ice. There is no indication of this in the APP-x data.

Best regards,

w.

Interactive comment on The Cryosphere Discuss., doi:10.5194/tc-2016-279, 2017.

TCD

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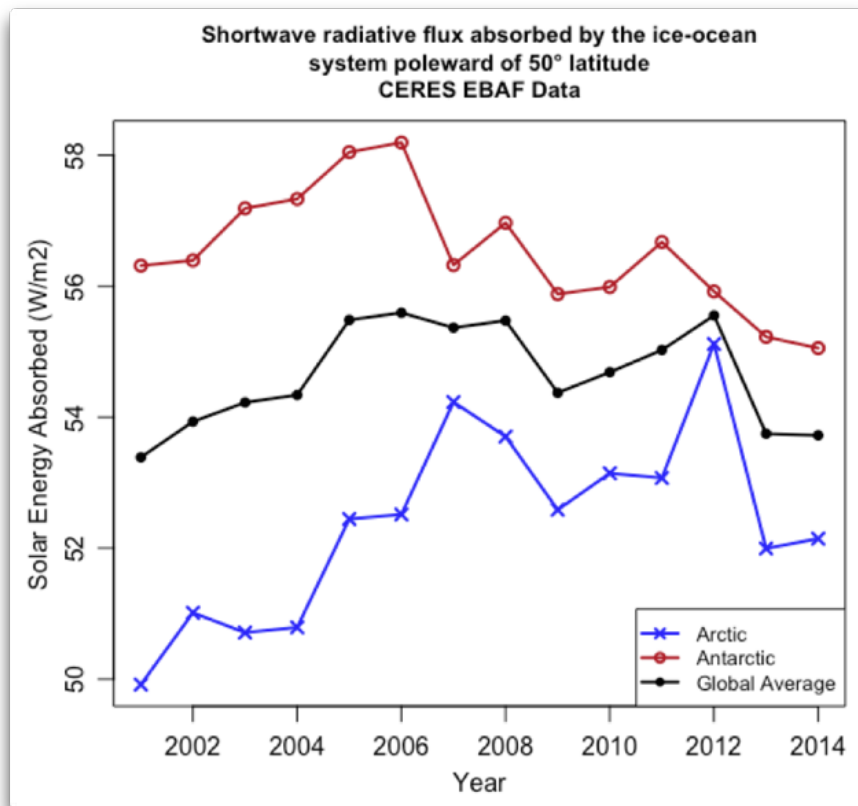


Fig. 1.

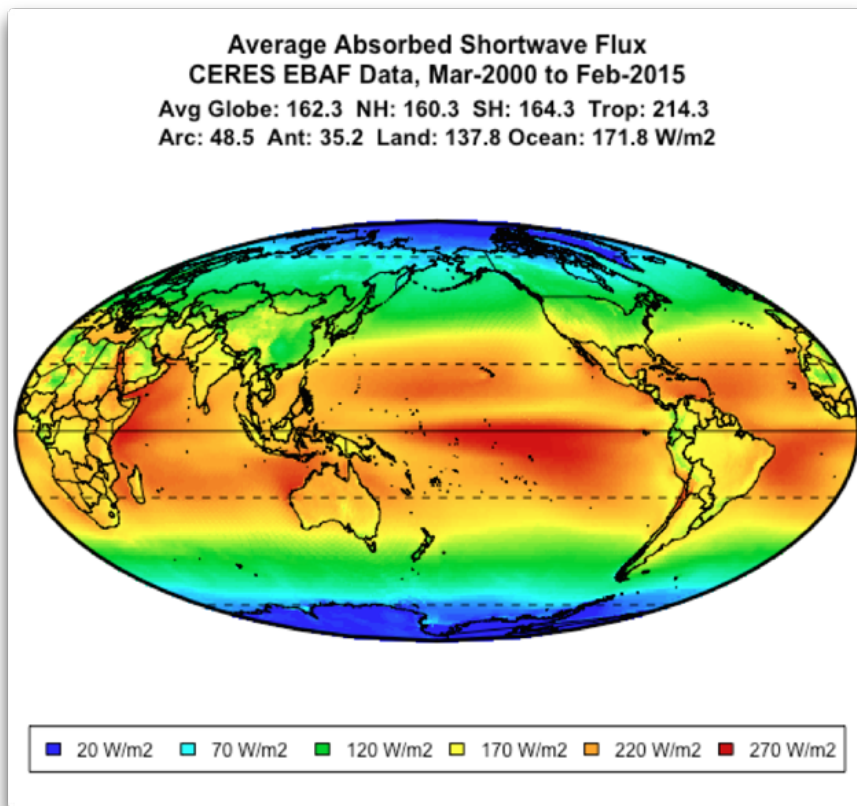


Fig. 2.

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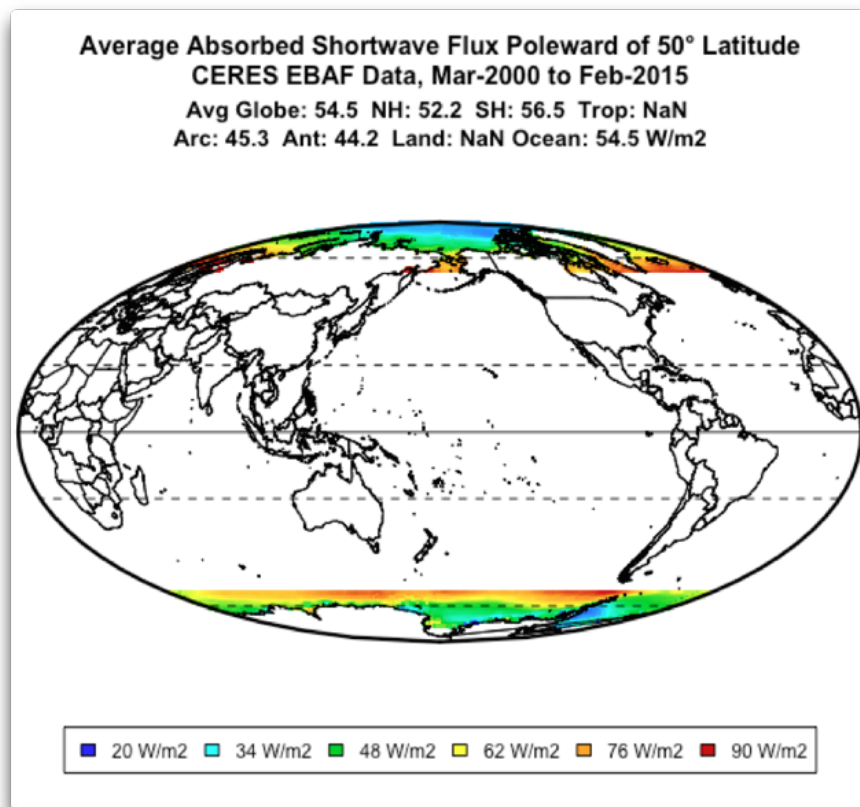


Fig. 3.

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