

# ***Interactive comment on “Perceived temperature in the course of climate change: an analysis of global heat index from 1979–2013” by D. Lee and T. Brenner***

## **Anonymous Referee #2**

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General comments: This study evaluate global changes in present climate by using the heat index computed from temperature and relative humidity. The index is calculated from the ERA-interim reanalysis, even if the data and the methods are not new, the data produced by the authors show strong potential to be used in future studies. The methods and materials are well described and the references look appropriate. I recommend to accept this manuscript after a minor revision.

Specific comments:

- Section 2, line 20, why do not split in two periods with similar length? e.g. 1979–

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1995 and 1996-2013

- section 3.1 I could not follow the discussion in Fig1 and Fig.2 I would suggest to mask the ocean and remake the figures by using a more appropriate range for colorbar. This should also help to better understand the text in section 3.1.
- section 3.1 page327 line 14. I would suggest to replace individual cells by single grid points.
- Conclusions line 13 please rephrase the sentence: "both for entire year as for each month". I would suggest to replace by "yearly and monthly"

## ESSDD

8, C154–C155, 2015

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