

Dear Editor,

You can find attached two documents: a new version of the paper and a version where the modifications with respect to the old version are marked.

The introduced modifications try to meet the criticisms raised by the referees and what you pointed in your communication.

Specifically

Editor's comments:

* I feel Sections 4 and 5 may need some introductory and concluding remarks to make them better integrate with the rest of the study.

Why these items are discussed and what the implications are for the study may need to be better outlined at the start and end of these sections.

Following the comments of referee #1, we have simplified Section 4. We have explicitly introduced the analogy between KH timescale and the residence time of energy in the planetary atmospheres. Also, we have modified Section 5 to justify the introduction of this Section.

Rev. 2 also commented on the lack of a critical review of possible uncertainties in the input numbers (flux and energy content) you use in your calculations, and their effect on the results, this is something you may want to respond to.

Comparison between the different forms of energy and considerations about their relative magnitudes have been introduced in Table 2 (new) for Earth. Section 3 has been rewritten to include in the text quotes and figures about the uncertainty of energy fluxes. We also discuss some approximations that were made for Titan and Mars in lines 53-56. These uncertainties have been summarized in Table 4.

We look forward to hearing positive news from you

Sincerely

The authors.