

Dear Editor,

Thank you very much for provision of the positive decision to accept the manuscript for publication in AMT.

Here, we provide our replies to the final comments raised by Reviewer #1 and by you:

Comments by Reviewer #1:

*The authors have satisfactorily addressed my comments and concerns and I think the manuscript is acceptable for publication.*

*That said, there were a couple of typographical mistakes I did catch while reading through:*

- Line 66: Suggest switching "Alone in 2DVD" to "Just in 2DVD"
- Line 216: Suggest switching "calculated for minutely intervals" to "calculated at one minute intervals"

*I leave it up to the authors' discretion as to whether they wish to implement these suggestions or not.*

Comments by the Editor:

*Dear authors,*

*you have addressed the recommendations of the of referees in a sufficient way and I agree that your manuscript is almost ready for publication. In a further minor, technical correction please take into account the suggestions in Report#1 and please check the manuscript for spelling once more.*

*Also, please provide public access to the LIRAS-ice algorithm code for full traceability.*

*Best regards  
Ulrich*

We addressed the two open points issued by Review #1.

- Line 66: Suggest switching "Alone in 2DVD" to "Just in 2DVD"
  - Done (see line 66)
- Line 216: Suggest switching "calculated for minutely intervals" to "calculated at one minute intervals"
  - Done (see line 216)

In addition, you requested a publication of the LIRAS-ice retrieval code. Currently, the code can only be provided based on personal request. An updated publication describing the latest version of LIRAS-ice is currently in preparation by the main authors of the retrieval Cristofer Jimenez and Johannes Bühl. Making the code available open source is foreseen in the frame of their publication. Until then the code will be made available on request.

We do hope for your understanding in this case. In order to account for this circumstance, we added the following passage to the code availability section (lines 503f, please note that the latex-diff version did not include the codeavailability section so that this modification is not highlighted in the tracked-changes manuscript version):

“The code of the LIRAS-ice retrieval is available upon request from the corresponding author of the article of (Jimenez et al., 2025).“

Sincerely,

Tom Gaudek and co-authors.