

General reply:

We thank the reviewer for his kind assessment of the revised paper and corrected the points listed below.

Comment from Referee 2:

Comment:

Only one very minor technical correction. Lines 187-188 of the annotated manuscript note that in Figure 5 the scaling of the y-axis of the modeled perturbations has been changed from 4 to 2.8, while the included figure still shows the original factor of 4 scaling. The updated factor 2.8 scaling does apply to Figure A1, however.

Reply:

We uploaded the revised Figure.

Comment:

Comment related to the review of the previous manuscript version by Referee 3 and your response:

"The noctilucent cloud activity was shown in several conferences, but not yet published and, thus, we are not aware of a good reference.": you could cite the corresponding presentation(s)/abstracts if available

Reply:

The source of the NLC statement is related to the abstract. However, this is beyond what is citable in the Journal, as no dates or other specifics are mentioned.

https://www.space.irfu.se/workshops/LPMR-EISCAT/EISCAT_LPMR_abstracts_220810.pdf

Comment:

Please include a data availability statement.

Reply:

Added.

Comment:

lines 496 and 533 : please correct the url

Reply:

Both DOI links are working from the pdf.

Other typos

Comment:

l 64: Thikonov -> Tikhonov

I 120: \$D0\$ -> \$D_0\$

In figure 3, Eastward->Northward and Westward->Southward

Reply:

Corrected.