

The manuscript has been evaluated by two reviewers, both of whom recommend publication subject to minor revisions. I agree with the reviewers' assessments and find that the manuscript represents a scientifically important contribution within the scope of Atmospheric Measurement Techniques. The study is methodologically sound, the results are discussed in an appropriate and balanced manner, and the manuscript is clear, well structured, and written to a high standard.

The authors have provided a detailed point-by-point response to all reviewer comments and have revised the manuscript accordingly. Overall, I consider that the reviewers' concerns have been satisfactorily addressed and that the manuscript is suitable for publication.

Before publication, I ask the authors to consider the following very minor revisions:

Thank you for providing valuable comments. Please find our answers to the comments below.

1. Line 39: consider revising to: ... the first of the GOES-R series of Geostationary Operational Environmental Satellites ...

Changed the sentence as suggested.

2. Figure 1 mentions GOES-East although there is no mention of it in the text. I suggest adding satellite names in Figure 1: GOES-East (GOES-16, GOES-19).

The figure caption was improved: "*Field of view of GLM on GOES-East (GOES-16 and GOES-19)...*"

In line 42 a reference to Image 1 could be made.

This reference doesn't fully fit here as lines 41-42 mention the full combined field-of-view of GLM-West and GLM-East while Figure 1 shows only GLM-East field-of-view (GLM-West is out of the scope of this article). Therefore, it could be confusing to the reader as the text mentions New Zealand while Figure 1 ends in the eastern part of the Pacific.

3. Lines 60-61: The text in the revised manuscript differs from the wording proposed in the response to the reviewer. The current placement of parentheses changes the meaning of the sentence. Please revise the text to match the version given in the author response:

"...(derived using the Global Lightning Detection network GLD360 (Said and Murphy,

2016) and applying a two-system Bayesian detection efficiency approach described by Bitzer et al. (2016))...."

Done.

4. Line 90: One reviewer suggested expanding the acronym SEVIRI at its first occurrence in the manuscript. Although the current wording does not affect the scientific clarity, it would be beneficial to use MSG-SEVIRI, consistent with the format adopted for MTG-LI, and preferably provide the full instrument name at first mention.

Changed to "...MSG-SEVIRI (*Spinning Enhanced Visible and Infrared Imager*)..."

5. Line 108: of the MTG-LI field of view Figure 1. – it seems that a word is missing – e.g. in Figure 1., or shown in Figure 1., or (Figure 1). ...

Fixed, "...(*Figure 1*) ..."

6. Line 293: On the contrary....

Fixed.

Subject to these very minor revisions, I recommend publication of the manuscript in the special issue "Unlocking the potential of MTG imager data in applications" of the Atmospheric Measurement Techniques journal.

Thank you again for your valuable feedback.