Dear Referee,

Thanks for pointing out this issue that we overlooked when reprocessing the data. We have fixed it in a new version of the data files. Please check https://doi.org/10.5281/zenodo.10076227.

Sincerely,
The Authors

**Revision comment**

The author's substantial improvements to dataset readability and accessibility are greatly appreciated. The additional file metadata and clarity around missing values will aid in streamlining the use of this data in future work. Further, the authors have satisfactorily answered my general science questions and fixed the previously listed technical errors. I believe the manuscript is much improved overall, and now tells a very clear narrative surrounding the utility of the G-band radar.

My only comment before fully recommending the paper for publication resides in the revision to the data itself. During editing, it appears as though a time step issue has arisen (perhaps introduced during compression/file deflation?) where time axis values (i.e., time and time_offset) are no longer sets of unique values. I've included an example below for the first 10 time entries in 20230417_200402_Gband_Spectra.nc (however, this appears to be the case for all the cases I looked at):

| | |
|---|---|
| ['2023-04-17T20:04:01.999998208' | '2023-04-17T20:04:01.999998208' |
| '2023-04-17T20:04:01.999998208' | '2023-04-17T20:04:03.000002816' |
| '2023-04-17T20:04:03.000002816' | '2023-04-17T20:04:03.999997696' |
| '2023-04-17T20:04:03.999997696' | '2023-04-17T20:04:03.999997696' |
| '2023-04-17T20:04:05.000002048' | '2023-04-17T20:04:05.000002048'] |

This is likely an easy fix, but an important one, as currently it is impossible to tell which of two values comes first in the series. To see this error clearly, you can try opening one of these datasets in a common NetCDF visualization program like NASA Panoply (it will give you an error).

With this issue fixed, I believe the manuscript and dataset will be ready for publication in ESSD.