2nd Review of the manuscript: ReefTEMPS:

The Pacific Islands Coastal Temperature Network

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The manuscript has significantly improved and most of my comments have been addressed. In my general comments I wrote:

I appreciate the inclusion of examples of key applications in Chapter 6. Since these are processes determined by long-term measurements on various time scales, it would be interesting to relate these changes, especially those in temperature, to ENSO. This topic is already briefly discussed on the website, but it would be an added value to discuss it in the manuscript.

This point has not been fully addressed in the revised manuscript. While I acknowledge the considerable effort the authors have made to improve the manuscript—and I am generally satisfied with the new version—I still believe that including a section emphasizing the importance of basin-scale measurements would significantly enhance the overall contribution of the work.

I leave the decision on whether to incorporate this aspect to the discretion of the editor.

## Minor comments:

**Line 469:** correct abobe with above

## Line 501-502:

In my previous comment, I recommended revising the beginning of the paragraph to emphasize the importance of measurements in resolving processes occurring at different temporal scales. However, the current formulation does not sufficiently convey this significance. I suggest revising the start of the paragraph as follows:

The temperature records from the ReefTEMPS network demonstrate the importance of capturing physical processes operating across multiple temporal scales. These measurements enable the differentiation of high-frequency variability, such as tidal or diurnal fluctuations, from lower-frequency signals associated with seasonal or interannual dynamics, thereby providing a comprehensive understanding of coastal oceanographic processes. Figure 6 shows examples of physical processes affecting temperature at different timescales as captured by the ReefTEMPS network.