

Interactive comment on “Central-Pacific surface meteorology from the 2016 El Niño Rapid Response (ENRR) field campaign” by Leslie M. Hartten et al.

Anonymous Referee #1

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1. The dataset is new and useful for future investigation of the El Niño event as well as air-sea interactions. The authors did a good job on describing the instruments and the data processing. The detailed considerations of the data comparison and instrument calibrations are very helpful for future users. The methods for the data processing are standard. The references used are appropriate.

2. The link for obtaining the dataset works. I didn't download any data to check any downloading issues.

After the authors carefully discussed the surface pressure measurement and calibration, I don't see surface pressure listed in the final variable list in Table 5.

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Unfortunate, no eddy-correlation turbulent fluxes are available. However using the sonic anemometers on the ship, the standard deviation of wind speed can be given in the final dataset, which can be very useful for representing turbulence intensity.

3. Data inconsistencies, if there are any, have to be discovered by users when detailed analyses are made.

4. The size of the hourly dataset should be manageable. Some users may want to get the dataset at higher sampling frequencies, such as every 5-min. Of course, they can contact the authors for such a possible dataset.

The article is well written. The good description and the easy access of the dataset will encourage scientists to use the dataset.

Here are some detailed comments and questions.

P.4, L.21. “both sites”, I guess they are the island site and the ship site. Is this correct?
P.6, L.25. So the radiosonde relative humidity is better? P.7, L.1. Was the RH/T sensor on the island aspirated? P.14, L.3. It is better to list variables calculated with the COARE flux algorithm in the final dataset here for those who are not familiar with the algorithm. Figure 4. It will be easy for readers to understand the dataset if the locations of the island and the buoys used in the dataset are marked in the figure. Figure 5. What does the “ground station” include here? Figure 6. Is “surface pressure” here the pressure at the island or on the deck? Soundings were launched on the deck of the ship only, is that correct? Figure 9. Is the “surface temperature” here the surface air temperature at the island?

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