

Earth Syst. Sci. Data Discuss., author comment AC2
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Reply on RC2

Andrea Dutton et al.

Author comment on "Compilation of Last Interglacial (Marine Isotope Stage 5e) sea-level indicators in the Bahamas, Turks and Caicos, and the east coast of Florida, USA" by Andrea Dutton et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-391-AC2>, 2022

We would like to thank Blake Dyer for taking the time to provide constructive comments on this manuscript. Below we have responded to the points raised and have made corresponding revisions to the manuscript.

- The discussion of uncertainty in tidal datum comes late in the manuscript

We have called out this section earlier in the manuscript now to alert the reader of these uncertainties before the individual sites are discussed.

- Suggest to include additional references for Cockburn Town U-series dating

Good suggestion. Citations for Chen et al (1991) and Thompson et al (2011) have been added.

- Suggestion to clarify original data source

We have added a citation to the original publication at the appropriate spot in this sentence to make this clarification

- Please make tidal adjustment more clear

Done.

- Typo on Line 210.

Corrected.

- Line 270: include Thompson et al., 2011 citation.

A citation to Thompson et al., 2011 appears earlier in this paragraph. In this line we are describing an interpretation of the age data that was described and interpreted by Skrivanek et al., (2018) so this is the appropriate citation to explain where that interpretation comes from.

- Line 293 – Typo.

Corrected, thank you.

- Section on New Providence Island is missing keystone vugs from Garrett and Gould that were at higher elevations.

The elevations published by Garrett and Gould (1984) were corrected for 3 m of subsidence and measured relative to a different datum. All elevations here are relative to mean sea level as noted at the beginning of Section 3. Once the G&G elevations are corrected, these match the elevations reported and re-surveyed by Jackson (2107). This example highlights the importance of compiling all of these sea level data within the same framework.

- Line 343- why is this erosional surface recorded as a terrestrial limiting point?

In the following sentence, we referred the reader to the analysis in Skrivanek et al. (2018) which explains the sequence in more detail, including a justification for subaerial exposure. To make this connection more clear, we have combined these two sentences together so that the Skrivanek reference can provide the reader with more details on this as needed.

- Line 500 – Suggest to add a citation for Dyer et al. 2021

This citation is now included.

- Line 508 – Not clear why this statement is attributed to Mullins and Lynts.

The citation to Mullins and Lynts was removed.