

Author's Response Outline

Below is a chronicle of all edits made based on reviews from Dr. Murray Wallace, Dr. Cronin, and Dr. Ferranti.

Correctional edits received from Colin Murray Wallace:

- The word in line 21 is 'with'
Completed
- Line 15, perhaps the 'past 60 years' – hopefully they are not the last
Done
- I feel that it would be good to indicate the key findings and general trends that you have noted in the data set towards the end of your abstract
The following sentence has been added to the end of the abstract: “Sea-level proxy studies in Japan rely heavily on chronostratigraphic techniques and are recognized as reliable, though opportunities exist for further constraining through the further use of numerical age dating techniques.”
- Line 37 s instead of c for isostasy and eustasy
Done
- Line 37 These data are
Done
- Line 67 information on marine terrace
Done
- Line 91 Machida (1975) used tephrochronology ... with fission track ages to correlate high sea-level stages
Done
- Line 105 heavily used in
Done
- Line 117 Late Pleistocene?
Capitalization added
- Line 132 not sure what you mean by 'updated tephra'?
Wording changed to “Updated ages of tephra defined marine terraces”
- Line 133 compared with the original
Done
- Line 134 Large uncertainty (an error, strictly speaking is something that is wrong)
Done
- Line 150 and other instances – please avoid the term 'absolute' in geochronology – numeric dating (for rationale, please see Colman 1987 Quaternary Research, 28, 314-319).
Changes made here and in other instances. Insightful edit! Changed to “numerical age dating”
- Line 157 uncertainties instead of errors
Done
- Line 161 for elegant variation, please remove one of the instances of 'techniques' – perhaps 'geochronological methods' could replace the first instance?
Substitution made
- Line 163 perhaps mention in passing the reason for the limited number of OSL-based investigations.
Added the word investigative to underline the use of the technique in Japan is still in its infancy
- Line 213 and all other instances – I would suggest joining 'paleo' with 'sea' to form one word, as paleo (palaeo) of itself is not a word
Changes made
- Line 256 lower case k for ka (upper case K refers to Kelvin)
Changes Made
- Line 284 What does 'proxy elevation' mean? Please clarify
Changed to “Recorded elevations of sea-level proxies”

- Line 298 Peninsula
[Correction made](#)
- Line 304 OSL ages (not dates which are unique calendar events)
[Corrected](#)
- Line 318 word choice – perhaps replace ‘drastically’ with ‘significantly’ ? and in line 350
[Substitutions made](#)
- Line 353 insert ‘I’ stratigraphically
[Change made from stratographic to stratigraphic](#)
- Line 371 Osaka Bay – and for other instances where the word is used as a formal noun
[Correction made](#)
- Line 375 range ‘widely’ rather than ‘very greatly’
[Substitution made](#)
- Lines 378-379 correlation to constrain ages, though
[Edit made](#)
- Line 381 Five terrace layers
[Change made](#)
- Line 382 amino acid racemization
[Edit made](#)
- Line 400 metres – not sure if you prefer to retain American spelling.
[American spelling sustained.](#)
- Line 440 considered reliable at what level – I feel that a qualification is needed here
[“scientifically” added as a qualifier](#)
- Line 458 numeric dating
[Changed to numerical age dating, see edit for line 150](#)
- Line 464 mollusc ?
[Edit made](#)
- Line 472 not included in the database
[Edit made](#)
- Line 474 for the entire Japanese Archipelago
[Changes made](#)
- Line 477 has not been emphasized
[Edit made](#)
- Line 479 numeric dating and in Line 481
[Changed to numerical age dating, see edit for line 150](#)
- Line 484 Numerous studies have ... to correlate with other ...
[Edits made](#)
- Line 489 or interglacial sea levels
[Edit made](#)
- Line 499 molluscs?
[Edit made](#)
- Line 509 numeric dating
[Changed to numerical age dating, see edit for line 150](#)
- Table 1 – in the column Proxy Description ‘accumulation of sediments’
[Correction made](#)
- [Additional section discussing Rates of Uplift in Japan added](#)

Correctional edits Received from Thomas Cronin:

EDITOR’S COMMENTS

- Line 34 Otto-Bliesner

Correction made

- Line 75 mollusks? Mollusca ?
Word changed to Mollusca.
- Line 504 coral-rich
Edit made.
- In Table 3 please double check the Genus name has upper case first letter but species names are lower case.
Corrections have been made.

Correctional edits received from Luigi Ferranti:

EDITOR'S COMMENTS

- Line 67: add “on” before “marine”
Correction made.
- Line 117: Pleistocene upper case
Correction Made.
- Line 133: amend “compared” without the i
Correction made.
- Line 200: here the sentence is truncated
Edit made.
- Line 257-258: could you show the location of these volcanic features on the map?
Volcanoes mentioned in the manuscript have been added to Figure 2.
- Line 259: “sub-categories” – better subregions
Correction made.
- Line 264: “additionally ZP” – insert “by the”
Addition made.
- Line 336: Sagami Through – better Sagami trench subduction
Edit made.
- Line 343: unclear phrasing – maybe truncated sentence
Sentence changed to “did not report elevation values”.
- Line 367: “Elevations on the western side of the Kii peninsula generally increase in elevation”
Sentence modified to “Elevations on the western side of the Kii Peninsula generally increase towards the southern tip...”.
- Line 369-370: “Terraces are described as one of a set of seven (H1–H4 and L1–L3, with L1 representing MIS 5e), and are described as. . .” Please avoid repetition.
Changed to “Seven terrace levels are reported...and are described as...”.
- Tables (bit please check the typing more carefully): Table 1: “sedients” – add “m”
Correction made.
- Table 2: “Amphitegina” – correct: Amphistegina
Correction made.