

## Proof corrections for EPSL-7906

1. Page 6, Line 307, right panel: Please replace “at” between ‘records’ and ‘Site 1219’ with “of” to read “...records of Site 1219...”.
2. Figure caption of Fig. 2, the last but one sentence: Please replace the sentence “New  $^{187}\text{Os}/^{188}\text{Os}$  data for Site 574 obtained in this study were also plotted.” with “In addition, unpublished  $^{187}\text{Os}/^{188}\text{Os}$  data for Site 574 are also plotted.”
3. Page 9, left panel, Line 470: Delete “a” after ‘pools:’.
4. Page 9, left panel, Line 476: Insert “,” after ‘isotope record’ to read as ‘... isotope record, the total flux...’.
5. Page 9, right panel, Line 483: Insert “,” after ‘for example’.
6. Page 9, right panel, Line 485: Insert “dissolved” before ‘Os contributions’.
7. Page 9, right panel, Line 489: Please add the sentence “Reported  $^{187}\text{Os}/^{188}\text{Os}$  difference between dissolved and suspended/bed loads in rivers [41] also point to the utility of the leachate analysis” before ‘Hydrogen peroxide...’.
8. Page 10, left panel, Line 557: Insert “a” between ‘suggest’ and ‘combination’.
9. Page 11, right panel, Line 715: replace “cosmic dust” with “unradiogenic Os” to read “...the enhanced unradiogenic Os flux...”
10. Page 11, left panel, Line 640: delete “compared” after “disproportionate”.
11. Page 13, right panel, Line 823: insert “the” before “oceans”.
12. Page 13, left panel, Line 788: delete “rapidly” after “dropped”.
13. Page 14, left panel, Line 871: replace “by” after ‘required’ with “for” to read “... conditions required for orbital changes ...”.
14. Page 14, left panel, Line 875: replace “coeval  $\delta^{18}\text{O}$  peaks” with “ $\delta^{18}\text{O}$  maximum”.
15. Page 14, left panel, first sentence of the last paragraph of section 4.4: Please delete “While the validity of the hypothesis proposed above can be assessed by establishing whether the timing of the  $\text{CO}_2$  decline coincides with the Late Eocene  $^{187}\text{Os}/^{188}\text{Os}$  minimum that has now been documented at six separate sites in three ocean basins, it” and replace with “Reported records of higher and variable  $\text{pCO}_2$

levels in the Late Eocene [50] are difficult to correlate with the  $^{187}\text{Os}/^{188}\text{Os}$  records of this study, however, the hypothesis proposed above”. Thus, the first sentence of this paragraph, when corrected, should read as “Reported records of higher and variable  $\text{pCO}_2$  levels in the Late Eocene [50] are difficult to correlate with the  $^{187}\text{Os}/^{188}\text{Os}$  records of this study, however, the hypothesis proposed above draws support from the studies suggestive of cooling and existing glacial condition prior to the Oi-1 glaciation”.

**Author query:**

We cited the reference [41] in appropriate place (see the correction#7 above).