

Graz, February 5, 2018

Dear Editor,

On behalf of all co-authors, we thank you for the acceptance of our cp-2017-134 manuscript entitled "Variations of Mediterranean-Atlantic exchange across the late Pliocene climate transition".

In accordance to your latest indications, we upload the revised manuscript which integrates the suggestions and comments from both referees.

The major issue about the biostratigraphic events has been incorporated in the main text of the revised manuscript (Section 3.3). Due to the problematic datum by the LO of *D. surculus* (see Referee 1's report and Author's response to referee 1), we have not considered this datum for ODP Hole 978A, in which appeared to be reworked and synchronous to *D. pentaradiatus*. The revised version includes the complete information about biostratigraphic events as well as the clarification about the resulting visual correlation (Section 4.1).

Supplementary tables 1 and 2 have been modified following the suggestion from referee 1 to complete them with full sample identifications (Expedition, Site, Hole, Core-sections, Intervals and Depth). Please consider that both tables are in different sheets within the same excel file.

As referee 2 requested, a new table (Table 1) has been created including biostratigraphic events for both ODP 978A and Rossello section.

Clarifications in the methodology have been added following minor comments from referee 2 in the annotated manuscript.

In relation to the request from both reviewers to refrain from using a 4-letter abbreviation for *Globigerinoides*, we have used *Gs.* according to my response in order to distinguish it from the abbreviation used for *Globigerina* (*G.*)

Following minor remarks from both reviewers throughout the annotated manuscript, parts of the text have been modified, rephrased, clarified, deleted/added and corrected. New citations, missing references and spelling mistakes have been resolved.

Corresponding changes can be observed in the marked-up version (uploaded as a .docx document).

Please note that a new affiliation has been added for Prof. Dr. Patrick Grunert.

Thank you very much for the consideration of our manuscript.

Dr. Ángela García Gallardo.