

Dear Editor Solid Earth,

Again, we have to thank the reviewer of our paper **Analogue experiments on releasing and restraining bends and their application to the study of the Barents Shear Margin** for a very detailed and concerned review. We are certain that most suggestions have enhanced the readability of the paper. We have therefore generally acknowledged all corrections/rephrasings suggested (splitting of sentences etc).

We have also changed some US spellings with UK-standards.

For the items where we have chosen not to follow the reviewer's recommendations in full, we have the following comments:

- 1) We have kept phrasings and terms, which have established (formal) definitions, or are in common use in structural geology literature.
- 2) Acknowledging the recommendations of the International and Norwegian Stratigraphical Committees, we separate between formal and informal names for stratigraphic units and structures by using recommended codes of spelling, so that formal terms are capitalized (Barents Shear Margin) and informal names are not (Hornsund fault system). We have corrected terms, which have been incorrectly or inconsequently written by mistake (e.g. Barents shear margin).
- 3) We have the understanding that terms "approximately" and "circa" (abbreviation "c.") are of equal meaning and use in English, and have kept both terms where we find that each term fits the actual phrasing the best.
- 4) We do not find that terms boundary and transition are equal, since the former is used in a regional (large-scale, unspecified) context, whereas the latter characterize the nature of the structure: When we use both (e.g. "continent-ocean boundary/transition"), we mean a regional boundary with a transitional geometry. COT and COB are terms for a boundary with a transitional geometry commonly used in the literature.
- 5) In the cases where we feel that the rephrasing suggested by the reviewer will change the meaning of the sentence and have kept the phrasing as it is as it is.
- 6) The reviewer suggests that the presentation of the segments (lines 340ff) is given in the format of "a list" (without re-writing) rather than included as a continuous section. We feel this would add an unnecessary complex layout to the section, and that this is a decision that should be made by the Technical Editor: We have therefore not changed this.
- 7) We have not changed the terms Riedel- and Riedel'-structures to R- and R'-structures as suggested by the reviewer, since we find this decision should be taken by the Technical Editor and harmonized with the standards of Solid Earth,

WE do hope that the manuscript is now in full order for printing in Solid Earth,

Sincerely,

Roy H. Gabrielsen
Professor emeritus