

Technical corrections:

**Note that line numbers refer to file “egosphere-2022-1183-ATC1.pdf” !**

Line 25: “...with poor seismic imaging” instead of “...with a poor seismic imaging”

Line 41: should be “Ferrer et al., 2014, 2023”

Line 55: “...number of works of” should be “...number of works on”

Line 56: replace “the reader is addressed to” by “see” or “the reader is referred to...”

Line 57/58: should be “Ferrer et al., 2016, 2023”

Line 60: “blocks” instead of “blocs”

Line 70: Wouldn't it be better to replace “reproduces” by “focusses on”

Line 79-82: consider changing sentence “One of the most important points is to understand.....” as follows: “How are salt-related structures affected during the compressional stage and how does salt migrate during this stage”.

Line 82: consider replacing “progress” by “evolve”

Line 99: replace “overlayed” by “overlain”

Line 99: replace “silica” by “-colored quartz”

Line 101-102: “The final pre-kinematic cover sand was sieved on top of the polymer and consisted of alternating 2.5 mm-thick.....”

Line 102: “scrapper” should be “scraper”

Line 106: why “subsequently”? I think it could be left out.

Line 107: consider replacing “...the same parameters to later apply total inversion” by “the same parameters and were subsequently inverted”

Line 124: I think it is better to replace “caused the decrease in...” by “caused an increase in...”

Line 125: add “phase” after “extension”

Line 127: add a space after “5”

Line 136: why “both pairs”.

Line 138: add a space after “3”

Line 142: replace “upper crust rocks” by “upper crustal rocks”

Line 143: replace “as a viscous flow” by “in a viscous manner”

Line 144: I would replace (throughout the manuscript) “silica” by “quartz”

Line 149: please correct the unit for strain rate, it should be 1/s and not Pa.s

Line 157-158: should be “Ferrer et al., 2016, 2022 for more details”

Line 162: add “sections” after “seismic”

Line 166: I think you can remove the “and” in this line

Line 208: do you mean “slightly offset with respect to the basement faults”

In the description of the models, you alternate between past and present tense (e.g. model DOM4 is described in present tense, whereas model DOM5 is mostly described in past tense). Be consistent; I personally prefer present tense whenever possible.

Line 209: shouldn't it be “basement impingement” instead of “basement impinging”?

Line 221 and 229: also here “impingement” instead of “impinging”?

Line 228: see comment at Line 208

Line 231 and 235: “basement impingement” instead of “basement impinging”?

Line 271: add “a” after “When”

Line 272: I think one needs to add “is” after “structural relief”

Line 275: sentence unclear: do you mean: “During this process weld reopening occurs due to the impingement of the ....”

Line 297: should be “This difference in the structural style”

Line 298: “impingement” instead of “impinging”

Line 314-315: Restructure sentence, e.g. Model DOM21 is the inverted equivalent to DOM8. In this extension-inversion pair, salt is exposed at the surface at the end of both the extension and the inversion phase, developing passive diapirs and salt sheets

Line 322: “basement impingement” instead of “basement impinging”?

Line 348: “impact” instead of “impacted”

Line 359: remove “,” after “both” and add “the” in front of “footwall”

Line 360-361: better: “that in turn controls the development....”

Line 363-365: consider shortening, e.g. “Although these processes are discussed in great detail by Ferrer et al. (2023), here we highlight the most important points of this study in order to underline how the inherited extensional configuration conditions the evolution during tectonic inversion”.

Line 371: I think that “can” can be omitted

Line 379: “equivalent at the end of the extension phase” instead of “equivalent at end of the extension”

Line 380: replace “late” by “later” or “subsequent”

Line 385: replace “and or” by “and/or” and leave out the “,” before “and”

Line 413, section title: “conditions” instead of “condition”

Line 414-415 better: “....layer, but can also condition” instead of “layer but also conditioning”

Line 416-417: should be “Ferrer et al., 2016, 2021”

Line 420 remove the “,” after “both”

Line 422: “on” instead of “into”

Line 435: add a space after “40”

Line 436: add a space after “28”

Line 453: should be “linear” instead of “lineal”

Line 454: remove “and”

Line 458: replace “stands out” by “shows”

Line 459: instead of “impacts on the development”: “influences the development”.

Line 457-459: Place the references at the end of the sentence.

Line 460: better: “as reverse faults”

Line 462: replace “effective salt layer” by “viscous polymer layer”

Line 465: replace “at” by “in”

Line 586: remove the “,” after “both”

Line 592: “impingement” instead of “impinging”

Line 601: see Line 592

Line 611: add “a” between “as” and “weld”

Line 614: replace “up to” by “until”

Line 631-634: consider making two sentences out of this long sentence, e.g., after “accentuated”: “In contrast, in models with.....”

Line 635: change “does” into “do”.

Line 644: “and it is worth to consider in future models”, change into: “and is worth to be considered in future models”

Line 654: sentence structure not clear; please clarify

Line 662: sentence structure not clear. Try to make two sentences here.

Line 676: sentence structure not clear "...the two isolated salt volumes by primary welt..."?

Line 689 "is documented" can be omitted

Line 694: add "in" before "orogens"

Line 697: add "by" before "the generation...."

Line 698: add "and" after "Morocco,"

Line 698: leave out "are" after "glaciers"

Line 704: leave out the "," after "both"

Line 718: consider maybe leaving out here "with the syn-extensional sedimentation rate

Line 738: replace "smallest" by "smaller".

Line 739: replace "thinnest" by "thinner" and "highest" by "higher"

Line 744-746. Sentence structure unclear, please improve.

Line 749: unclear what is meant with "reopening the hinterland"; the hinterland of what? Please clarify; do you mean "reopening towards the hinterland"