

Interactive comment on “A database of plagioclase crystal preferred orientations (CPO) and microstructures – implications for CPO origin, strength, symmetry and seismic anisotropy” by T. Satsukawa et al.

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We are grateful to Dr Stunitz for his review and comments.

Typo corrections and suggested vocabulary changes will be done. Below are changes proposed in response to other points highlighted by the referee.

p. 1194, lines 14-15: what is meant by “intrinsic organization resulting from CPO”? This needs clarification or explanation. Our reply: The sentence will be simplified to : “CPOs also induces anisotropic behavior of certain physical properties commonly

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measured in rocks, such as seismic velocity ...”

p. 1207, lines 1, 2: The ODF J-indices seem stronger than the pole figure J-indices. Or does the sentence refer to the comparison between the plastic and magmatic samples? This is unclear. Our reply: Yes, this sentence refers to the comparison between the plastic and magmatic samples. The sentence will be changed to : We will be modified as “Although ODF J-indices have similar ranges in both microstructural types, pole figure J-indices are nearly twice as strong for magmatic samples as for plastic ones.”

P. 1207, lines 8-11: Some of these differences mentioned here are geometrically necessary conditions of the BA indices and how the texture types are defined, so what is the point of this part of the paragraph? Probably this can be omitted. Our reply: We agree. The sentences from lines 8 to 11 are redundant with the beginning of the paragraph. The end of the paragraph (from line 4, “In both microstructural types the individual samples ...”) will be deleted.

Interactive comment on Solid Earth Discuss., 5, 1191, 2013.