

## ***Interactive comment on “Syn-kinematic hydration reactions, dissolution-precipitation creep and grain boundary sliding in experimentally deformed plagioclase-pyroxene mixtures” by Sina Marti et al.***

**Sina Marti et al.**

sina.marti@unibas.ch

Received and published: 11 July 2018

Dear Editor,

We've modified the manuscript in response to the reviewers comments (text changes in the revised manuscript are marked in blue) and hope that it is now in an acceptable form for the publication in Solid Earth. Detailed responses to each reviewer will be submitted but find below a short summary of the more important changes.

With best regards,

Sina Marti (on behalf of the authors)

C1

### **Changes to the manuscript**

Changed title to:

*“Syn-kinematic hydration reactions, **grain size reduction** and dissolution-precipitation creep in experimentally deformed plagioclase - pyroxene mixtures”*

(originally: *“Syn-kinematic hydration reactions, dissolution-precipitation creep and grain boundary sliding in experimentally deformed plagioclase - pyroxene mixtures”*)

Major changes have been made to subsection *“3.4.3 Albite crystallographic preferred orientation”* and *“4.5 Albite crystallographic preferred orientation”* as Figure 12 was changed to include inverse pole figures (upon request from Reviewer 2, Andrew Cross).

Figure 12 has been changed to include inverse pole figures and the previously presented pole figures have been replaced.

Changed order of subsections in the discussion:

Subsection *“Dissolution-precipitation creep and grain boundary sliding”* was moved up to subsection 4.3 (was originally subsection 4.5)

Subsection *“Albite crystallographic preferred orientation”* was moved down to subsection 4.5 (was originally subsection 4.3)

---

Interactive comment on Solid Earth Discuss., <https://doi.org/10.5194/se-2018-39>, 2018.

C2