Interactive comment on “Magma storage and plumbing of adakite-type post-ophiolite intrusions in the Sabzevar ophiolitic zone, NE Iran” by K. Jamshidi et al.

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Dear Editor,

The approach used in this study on tertiary magmatism post-ophiolitic is interesting. The purpose of this study is to show, by PT reconstructions using the latest applicable thermo-barometric equations to solid-liquid equilibrium, the different affiliations and levels of differentiation between the different tertiary adakitic type igneous rocks. This study provides new data and interesting interpretations on the differentiation of these magmas at different crustal levels. However, this manuscript can not be published without major revisions.
I fully endorsed the comments of the anonymous reviewer details 1 and I red the rigourous answers of the authors which satisfy me. I have no other comment to make, except to quote for a general geodynamic framework, besides the papers of Dr Rosetti and al., articles and reference to peogeographic maps of Barrier et al (2008) and the paper by Agard et al. (2011) with the general lithospheric cross-sections.

The comment of the second reviewer (Dr Hadi Shafaii Moghadam), concerning the direction of subduction, commits a discussssion beyond the scope of this manuscript. The authors answered that there are many tertiary magmatism north of Sabzevar which cannot exclude the possibility of a northward subduction, correpsonding to the general oceanic subduction polarity in Iran.

In conclusion, if the authors answer to the various comments of reviewers as they did, I would suggest that this article to be published as an additional interesting contribution to the post-ohiolitic magmatism, in complement to already existing geochemistry data and datings.

Interactive comment on Solid Earth Discuss., 6, 2321, 2014.