

## ***Interactive comment on “Polyphase evolution of Pelagonia (northern Greece) revealed by geological and fission-track data” by F. L. Schenker et al.***

**M. Zattin (Referee)**

massimiliano.zattin@unipd.it

Received and published: 26 November 2014

The paper by Schenker et al. provides new thermochronological data collected along the eastern margin of the Pelagonian zone. The Authors first give an overview of the literature all across the entire Pelagonian zone and the surrounding units and then discuss their data in the regional framework. Data are of good quality and well described (although there is no clear distinction between their presentation and discussion). Figures illustrate well the content of text. Therefore, I can say that this paper is in principle worthy of publication. However, there are some issues that need some further work. First of all, I find the text a bit confusing on discussion

C1351

and description of relationships between tectonics and sedimentation. Similarly, relationships between age of burial and cooling are not clear. The Discussion section introduces some processes (e.g. thermal subsidence, slab dynamics) that are not supported by data and there is some confusion between the concepts of denudation and erosion. Finally, discussion should take into account not only dataset provides by literature but also different interpretation (e.g. the lack of significant cooling and tectonics during Plio-Pleistocene inferred by Coutand et al., 2014). More details are in the annotated pdf.

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/6/C1351/2014/sed-6-C1351-2014-supplement.pdf>

---

Interactive comment on Solid Earth Discuss., 6, 3075, 2014.

C1352