

Interactive comment on “Future accreted terranes: a compilation of island arcs, oceanic plateaus, submarine ridges, seamounts, and continental fragments” by J. L. Tetreault and S. J. H. Buiter

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This paper presents a compilation of parameters including crustal thicknesses as key parameter involved in the processes of terranes accretion. The choice was on the recent and even future accreted morpho-structures; which is I think indeed a good option. Many of the elements presented here are already known or admitted by the geodynamic community; but it is good to have a basic paper to recap some of the elements and the comparison between the crustal thicknesses. I agree with most of the results presented in this paper but I regret a bit that the emphasis was a bit too much on ancient examples (except the Solomon Islands and Taiwan that has been

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just mentioned). The authors could give more attention to the recent examples such as Southeast Asia. I have suggested some examples (which of course are those I know well) for reference; but there are others. I am sorry to have put some references of papers for which I participated but it is just for the sake of discussion. I think some examples of recent tectonics bring elements in this interesting discussion. Also, I think there is the need of precisising if this paper discusses tectonic accretion of magmatic accretion. The link between is only the term “accretion”. Both types are discussed in the paper and well separated for each units, but I keep wondering if they are not 2 different topics. If the authors address the tectonic accretion, the LIP such as the Otong Java Plateau or the Benham Plateau are also good examples since they have been involved in subduction/accretion context after they have been created. May be the ambiguity in the term can be presented in the introduction (?) Most of my comments are otherwise minor and inserted as comments in the PDF version. Some figures (ex Figure 2) will display morphostructures which are too small. Better have a zoom on the interesting parts. On Figure 2 “Lu” seems to refer to the Huatung basin (a Cretaceous old basin). Instead the Benham Plateau; a spectacular feature should be represented (just W of the P of PKR).

Please also note the supplement to this comment:

<http://www.solid-earth-discuss.net/6/C742/2014/sed-6-C742-2014-supplement.pdf>

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