REVIEWER COMMENTS

Paper: V. M. Hamza and F. P. Vieira Global distribution of the lithosphere-asthenosphere boundary: a new look

GENERAL:

It is a good paper. It is suggested to publish it in the SE after minor technical corrections.

DETAILS:

Aspects:

1. Does the paper address relevant scientific questions within the scope of SE?	
YES	
2. Does the paper present novel concepts, ideas, tools, or data? YES	
3. Are substantial conclusions reached? YES	
4. Are the scientific methods and assumptions valid and clearly outlined?	YES
- · · ·	YES
6. Is the description of experiments and calculations sufficiently complete and precis	se to
allow their reproduction by fellow scientists (traceability of results)?	
YES	
7. Do the authors give proper credit to related work and clearly indicate their own	
new/original contribution?	
YES	
8. Does the title clearly reflect the contents of the paper?	YES
9. Does the abstract provide a concise and complete summary?	
YES	
10. Is the overall presentation well structured and clear?	
YES	
11. Is the language fluent and precise?	YES
12. Are mathematical formulae, symbols, abbreviations, and units correctly defined a used?	Ind
	YES
13. Should any parts of the paper (text, formulae, figures, tables) be clarified, reduced combined, or eliminated?	1,
See Item 16	
	YES
	YES

16 Other Comments:

Fig 3, Page 306: It is proposed to use a bigger font for words "FHS Model", "GDH Model - HSC", "GDH Model - Plate" they to be better readable. Fonts used along vertical and horizontal axes for the upper and lower plates should be equal.

4.3 Thermal model of continental crust, Page 293: Lines 11 - 12: ... For a medium with depth dependent thermal conductivity ...

Proposed changing the word "dependant" for "dependent".

4.4 Mantle heat flow, Page 294: Lines 4-5 ..." the vertical distribution of thermal parameters (thermal 5 conductivity and heat production),....

"Proposed ..." the vertical distribution of thermal conductivity and heat production"

5 Global distribution of LAB depths? Page 296: Line 11 "...and the Sao Francisco Craton" in South America."

Proposed: "..." and the San Francisco Craton in South America."

References, Page 301: Line 5 "...in: Terrestrial Heat Flow Stydies and..."

Proposed: "...in: Terrestrial Heat Flow Studies and ..."

Line 11 "..."Sclater, J. G., Lawver, L. A.,...."

Probably should be ..." Sclater, J. G., Lawyer, L. A., ?"

Line 19: ..." ... Earth Planet. Sci. Len ... "

Proposed..." ... Earth Planet. Sci. Let....".

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