

## ***Interactive comment on “Earth’s surface heat flux” by J. H. Davies and D. R. Davies***

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We very much welcome the constructive comments of J.-C. Mareschal. A specific response to each point is included below.

- 1) We have included reference to the previous work of Williams and von Herzen (1974).
- 2) We have included references to the previous studies of Polyak and Smirnov (1968) and Morgan (1985), and extended the discussion slightly in section 4.1 regarding the fundamental correlation assumed between geology and heat flow.
- 3) We have included reference to Jaupart and Mareschal (2007) and also mentioned the large variation that they have found in heat production.
- 4) We have dropped most of the last paragraph to avoid possible confusion. We thank the reviewer for pointing out this potential complexity.

5) We have replaced the word 'correction' where appropriate.

6) We have added a new Table as Table 7, which presents our preferred results separated out into the oceanic and continental realms, including area and heat flow ( $\text{mW m}^{-2}$ ).

7) We have decided to retain figures 3 to 8 for the benefit of readers not familiar with the technical details of GIS. We also note that the reviewer 2 did not see this as a problem

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Interactive comment on Solid Earth Discuss., 1, 1, 2009.

**SED**

1, C34–C35, 2010

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