Sydney, 16-nov-2013

The new version of Generator.for incorporates the modification of the array ‘temmax=1823’ to ‘temmax=2073’. ‘temmin=273’ is also changed to ‘temmin=523’ to keep the size of the arrays in the output table.

Be careful in compiling Generator.for since it needs of multiple additional files (.txt, .for-subroutines, and .exe) so copy the entire folder. In particular, ‘Parameters\_cond.txt’ is used to calculate mantle thermal conductivities.

Attention!. If Generator is aborted due to some problem while running then some key file in the folder is corrupted and Generator is not running anymore (unknown cause). The solution is to copy again the non-corrupted Generator folder. Check if this is due to the used compiler!

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25-nov-2013

The Generator.for code is again modified since the only mantle that really needs of a higher T-range is the sublithospheric mantle (PUM) acting as code=99, since all the lithospheric mantle domains are, by definition, at T<1320 ºC. USE option 1 for mantle #99. It is enough to create it once. In option #1 (anomalous sublithospheric mantle’) PREMIN is set to 1500 bar, equivalent to 4.5 km depth within solid Earth.

Be careful in compiling Generator.for since it needs of multiple additional files (.txt, .for-subroutines, and .exe) so copy the entire folder. **CHECK** the version of Generator.for in Generator\_JCA

Codes for tables are as follows:

1. Stixrude 2005 (JGR)

2. Stixrude 2007 (EPSL) inactive

3. Stixrude 2008 (EPSL) -> Folder 03-Stixrude08

4. H&P98 (original)

5. H&P98 modified by Afonso (2010) -> Folder 05-HP98A10

6. H&P98 modified by Klemme et al (2009)

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