

REVISIONS RECORD 2.0

Terrestrial Planet Hotspots and Secular Whole-Mantle Shift

Executive Summary

by Douglas W. Zbikowski

Draft 2.0 posted on 30 Oct 2013

Draft 2.0 to 3.0 Changes:

1. Section 1 - In sentence 3, remove comma after 'here'. In sentence 5, before 'approximate' insert 'an' and before 'size' replace 'of' with 'in'.
2. Section 2 - In sentence 1, before 'method' insert 'above'. In sentence 2, after 'pattern' remove comma and after 'with' replace 'the center of the Earth,' with 'Earth's center to comprise three points,'.
3. Section 3 - In sentence 3, replace 'to' with 'with'. In sentence 5, after 'lithosphere' remove comma and add parentheses around 'as averaged by the paleomagnetic sample sites selected in the studies'. Replace sentence 6, with 'The increased shift on the *exterior* layer of the planet and the apparent geometrical regularity of its secular movement hints at a celestial-mechanical cause.' for clarity. Replace sentence 7 with, "Because the spin axis of Earth tilts from a normal to the ecliptic, averaging about 23.32° obliquity (presently 23.44°) over a 41,000-year cycle, a mean of about 66.68° results between the spin axis and ecliptic, over millions of years." for completeness. Replace sentences 8 and 9 with 'Because the mean of 66.68° matches well the loxodromic attribute of 66.5°, the forces driving additional shifting seem to be consistently aligned from within the ecliptic. Therefore, gravitational interactions with other Solar System bodies are suspected to be involved.' for clarity.
4. Section 4 - In sentence 1, after the comma replace remainder with 'including multiple interpretations of physical phenomena to determine accrued time.' for accuracy. In sentence 2, replace 'began' with 'initiated' for precision and before 'participating' remove 'the' for concision.
5. Section 5 - In sentence 4, before 'primarily' replace all with 'This angular correspondence is presumed'. In sentence 5, after '180°' insert "lunar" for clarity. In sentence 9, after 'moon' delete comma. In sentence 10, after 'layers' delete comma.
6. Section 7 - In sentence 1, after 'test' replace 'that model' with 'such models' for inclusiveness.
7. Section 8 - In sentence 1, after 'which' delete comma.
8. Section 9 - Break up sentence 1 with a period after 'record' and add 'Path continuity during such extensive time' before 'seems', all for clarity. In item 2., change 'is' to 'was'. In item 3., change 'are' to 'were'. Both for consistency of verb tense.
9. Section 10 - In sentence 1, insert 'pole' before 'path'. In sentence 3, replace 'this' with 'such fixity'. Both improve clarity.
10. Section 12 - In sentence 1, replace 'from' with ', supported by' and add a comma after 'theory'. In sentence 2, delete 'along'. In sentence 5, after 'today' delete comma. In sentence 6, after 'lithosphere' replace ', but' with ';'.
11. Section 13 - In sentence 2, after 'torques' replace 'applied to' with 'upon the'.

12. Section 14 - In sentence 1, move 'additional' to before 'components'. In item 3., replace 'Interplate shifting' with "Globally systematic shifting of plates" for specificity.

13. Section 16 - In sentence 1, replace 'MS candidate in Geology at CSULB ' with "MS in Geology" for updated accuracy. (This correction should have been noted in Revisions Record 1.0.)

Draft 3.0 posted on 16 Dec 2013

16 Dec 2013 rev. / DWZ