

## **REVISIONS RECORD 6.0**

### Global View of Great Earthquakes and Large Volcanic Eruptions Matched to Polar Drift and its Time Derivatives

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Draft 2.4 posted on 15 Dec 2012

*Draft 2.4 to 2.5 Changes:*

1. Section 2 – In sentence 3, replace ‘that’ with ‘which’ for improved grammar.
2. Section 9 – In the section heading, change ‘Jerk’ to “Jounce” for accuracy. Insert after the last sentence: ‘These events are simultaneous on the acceleration trace, but no other shared attribute is implied by superposition of their markers.’
3. Section 10 – Change the last sentence to: ‘Changing rate-of-change of acceleration (or the second time-derivative of acceleration) is called *jounce* and the cyclical TOM acceleration and slow jounce may be astronomically forced.’ for accuracy.
4. Section 23 – Change the second sentence after the Wegener quote to: ‘The greatest quakes occur when drift jounce is near its greatest absolute value—near the turning points on the acceleration trace.’
5. Section 24 – In sentence 3, italicize ‘jerk’ and after it insert ‘(the first time-derivative of acceleration)’ to define the term.
6. Section 25 – In sentence 5, replace ‘jerk’ with ‘jounce’ for accuracy.
7. Section 26 – Change sentence 1 to: ‘In Figures 3 and 4, correlations between the dynamics of polar drift and great quakes and large eruptions hint that mechanisms exist that relate polar drift to crustal strain/stress.’ for improved accuracy and grammar. Change sentence 3 to: ‘In Figure 3, the greatest drift speed and time derivatives appear required to trigger the largest energetic events.’ for accuracy. Delete sentence 4 for concision. Remove the last sentence: reason explained below in (8).
8. Section 27 – Insert as a last sentence a modified form of the last sentence removed from Section 26, ‘An algorithm for location analysis of ellipsoidal demand will be refined and selected studies will be posted on the website as they become available.’ for improved logical flow.
9. Section 29 – Update Helman credentials to ‘M.S. Geology’.

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