

Interactive comment on “Technical Note: Estimation of global loss of freshwater based on sea level changes over geological time” by Gaspar Banfalvi

Trevor McDougall (Editor)

trevor.mcdougall@unsw.edu.au

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This OSD manuscript will not be published in Ocean Science.

The manuscript and its revision falls below the acceptable standard of methodology for a scientific journal. The manuscript assumes a spherical earth with a constant area fraction of land/ocean and a flat ocean floor. However, earth science has advanced remarkably over the past 50 years, and we now have some idea of how the continents have evolved over hundreds of millions of years, how these contents have moved around the planet, we now know that the oceans have mid-ocean ridges, and we know that there is eustatic rebound and uplift of relative sea level at measuring sites

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(e.g. corals). All of these things impact on how observations of relative sea level at a series of sites affect the reconstructed estimation of global ocean volume. A scientific paper that discusses the change in ocean volume over hundreds of millions of years would need to take this knowledge into account in its numerical computations. Hence this OSD preprint is not accepted for publication in Ocean Science.

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