

Supplementary Materials for **Satellite tidal magnetic signals constrain oceanic lithosphere- asthenosphere boundary**

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The PDF file includes:

- Legend for movie S1
- Legend for data file S1

Other Supplementary Material for this manuscript includes the following:
(available at advances.sciencemag.org/cgi/content/full/2/9/e1600798/DC1)

- movie S1 (.mp4 format). Animation of the observed and predicted satellite magnetic tidal signals for Earth's principal lunar semidiurnal tide.
- data file S1 (.txt format). A $1^\circ \times 1^\circ$ map of depth-averaged ocean electric conductivity produced following the method of Fofonoff (25). The salinity and temperature data used are from National Oceanic and Atmospheric Administration's 2009 World Ocean Atlas annual climatology, whereas local pressure was estimated using the method of Saunders (37).

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data file S1. A $1^\circ \times 1^\circ$ degree map of depth-averaged ocean electric conductivity produced following the method of Fotonoff (25). The salinity and temperature data used are from National Oceanic and Atmospheric Administration's 2009 World Ocean Atlas annual climatology, whereas local pressure was estimated using the method of Saunders (37).