

CORRECTION

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Correction to: High-fidelity elastic Green's functions for subduction zone models consistent with the global standard geodetic reference system

Takane Hori^{1*}, Ryoichiro Agata^{1†}, Tsuyoshi Ichimura^{2,3,4}, Kohei Fujita^{2,4}, Takuma Yamaguchi² and Takeshi Iinuma¹

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After the publication (Hori et al. 2021), we found a mistake in calculation of the Green's functions for the Nankai Trough region: the plate convergence direction was incorrectly set. Revised Figs. 5a and 6 shows the results based on the correct simulation setting. Figure 5b does not change from the original publication. Because the norm of the estimated slip deficit rate (SDR) is independent of the choice of coordinate of the fault slip in

the inversion formulation used in our study, we only see apparent change in the arrows denoting the direction of SDR in Fig. 6. The change of the results does not affect the discussion in the main text.

The original article has been updated.

The original article can be found online at <https://doi.org/10.1186/s40623-021-01370-y>.

*Correspondence: horit@jamstec.go.jp

†Takane Hori and Ryoichiro Agata contributed equally to this study

¹ Research Institute of Marine Geodynamics, Japan Agency for Marine Earth Science and Technology, Yokohama, Kanagawa, Japan
Full list of author information is available at the end of the article



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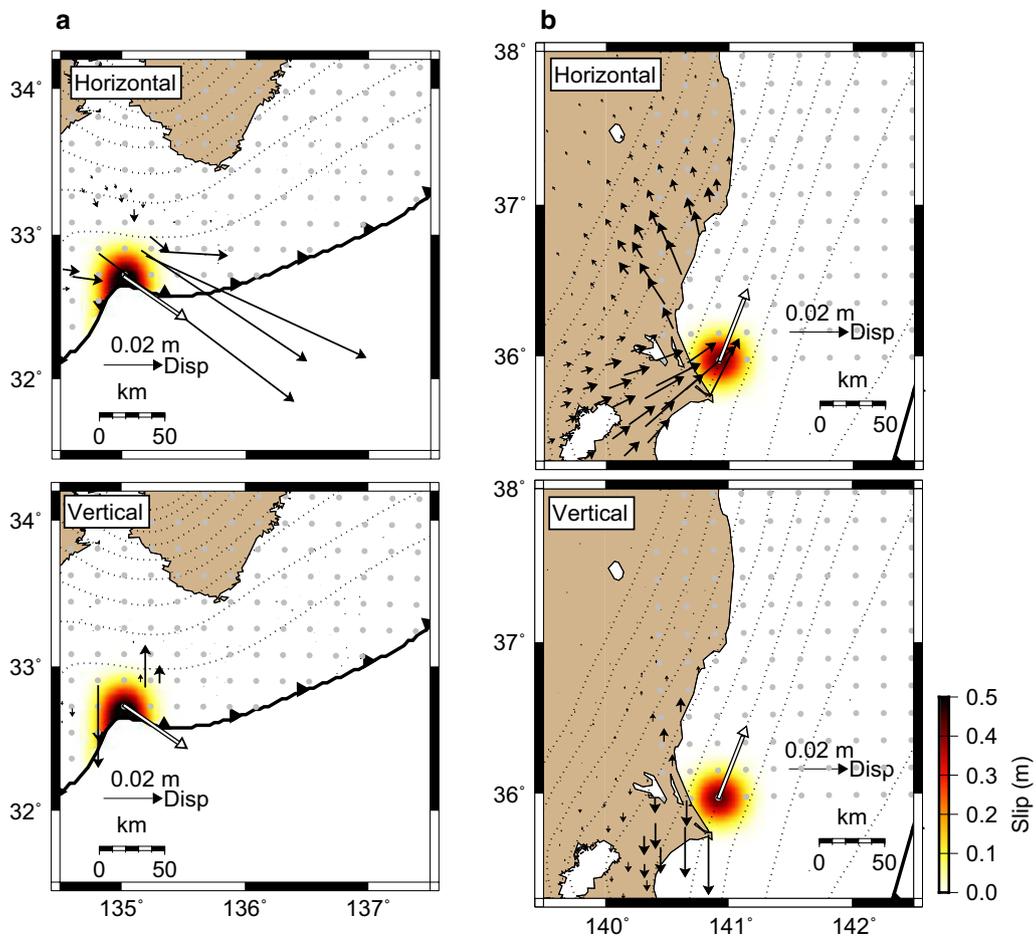


Fig. 5 Examples of GF calculated based on FE modeling. **a** A unit slip and its response displacement in the direction opposite to the plate convergence in Nankai Trough and **b** one in the direction perpendicular to the plate convergence in the Japan Trench subduction zone. Note that unit slip in the location beyond the trench or trough axis is set forcibly zero in **a**. Gray dots denote the central point of B-spline function shaped slip applied in a subfault. The color map shows slip distribution. The black arrows denote the horizontal (top) and vertical (bottom) surface displacements due to the fault slip. The white arrows denote fault slip directions

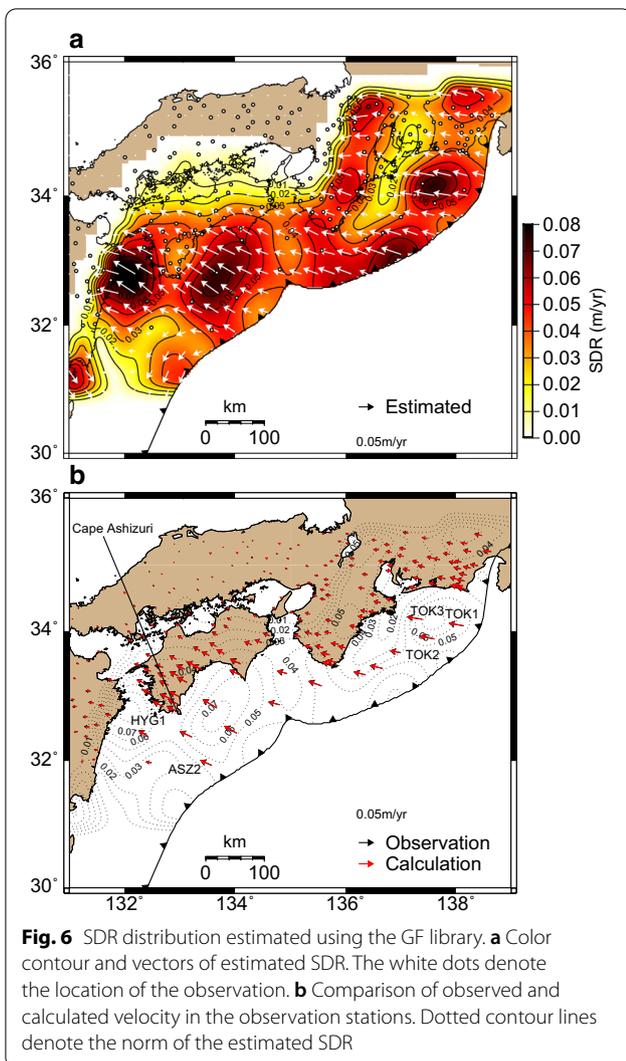


Fig. 6 SDR distribution estimated using the GF library. **a** Color contour and vectors of estimated SDR. The white dots denote the location of the observation. **b** Comparison of observed and calculated velocity in the observation stations. Dotted contour lines denote the norm of the estimated SDR

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Author details

¹ Research Institute of Marine Geodynamics, Japan Agency for Marine Earth Science and Technology, Yokohama, Kanagawa, Japan. ² Earthquake Research Institute & Department of Civil Engineering, The University of Tokyo, Bunkyo-ku, Tokyo, Japan. ³ Center for Advanced Intelligence Project, RIKEN, Chuo-ku, Tokyo, Japan. ⁴ Center for Computational Science, RIKEN, Kobe, Hyogo, Japan.

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 Smith W, Wessel P (1990) Gridding with continuous curvature splines in tension. *Geophysics* 55(3):293–305

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