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Supporting Information 1 for

**In-situ  $V_p/V_s$  ratio reveals fault-zone material variation at the westernmost Gofar transform fault, East Pacific Rise**

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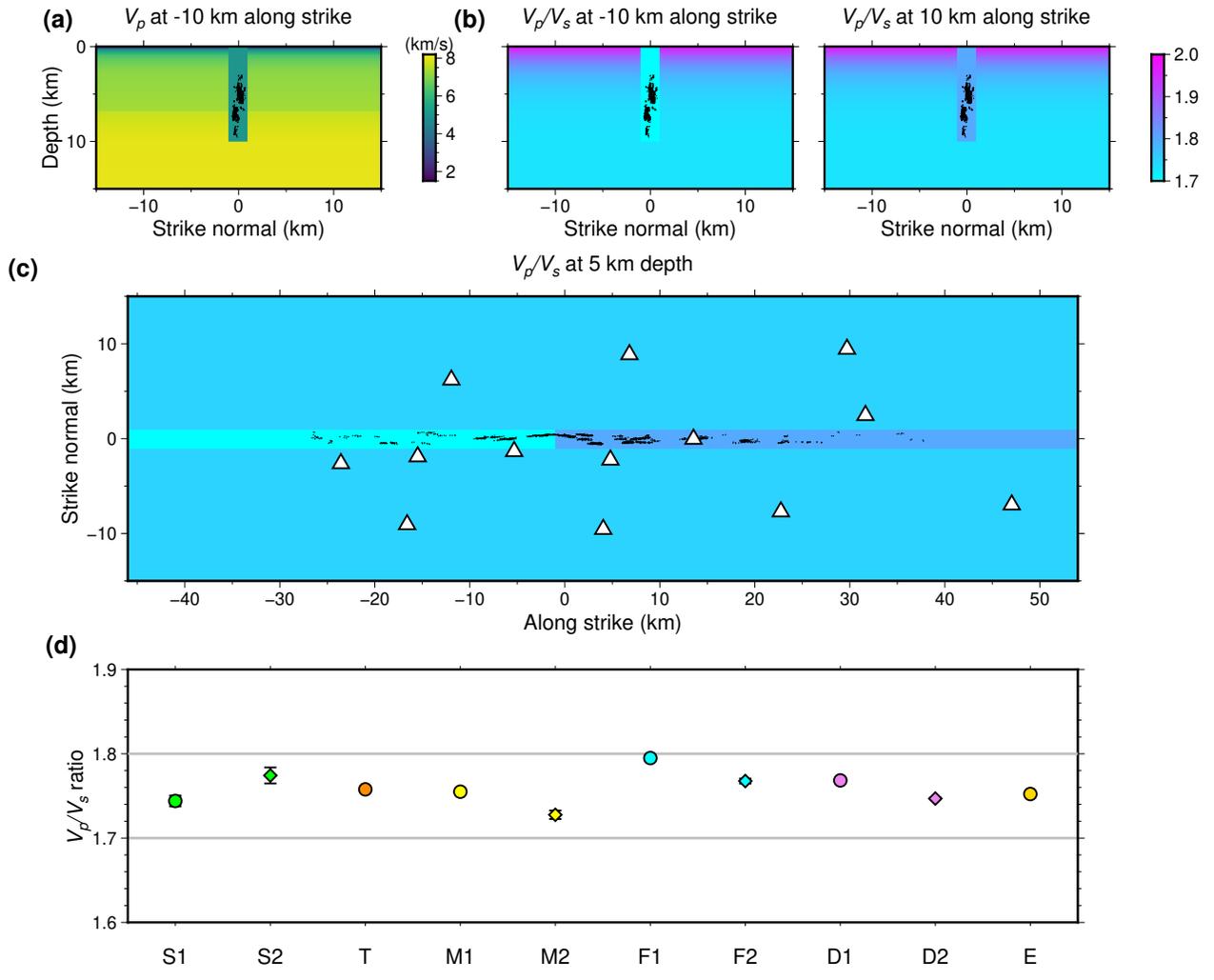
<sup>2</sup> Department of Marine Geosciences, Rosenstiel School of Marine and Atmospheric Science, University of Miami

**Contents of this file**

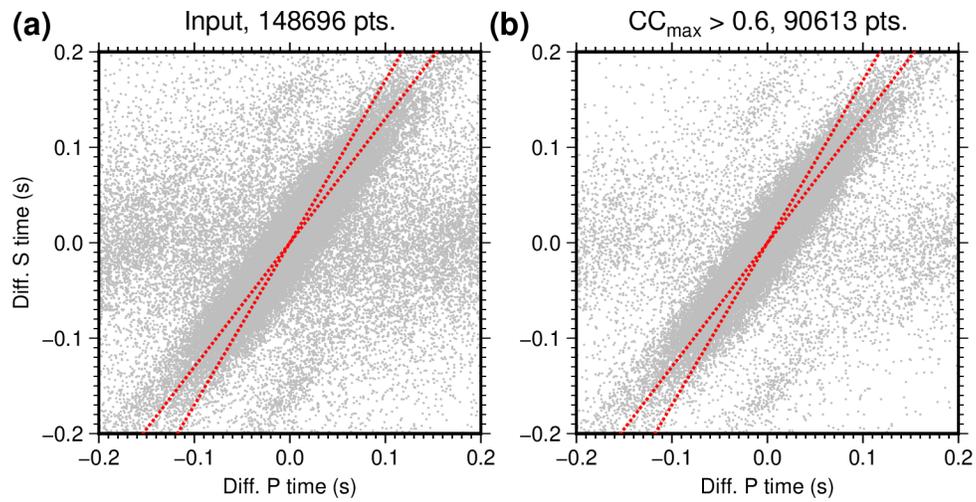
- Figures S1–5

**Introduction**

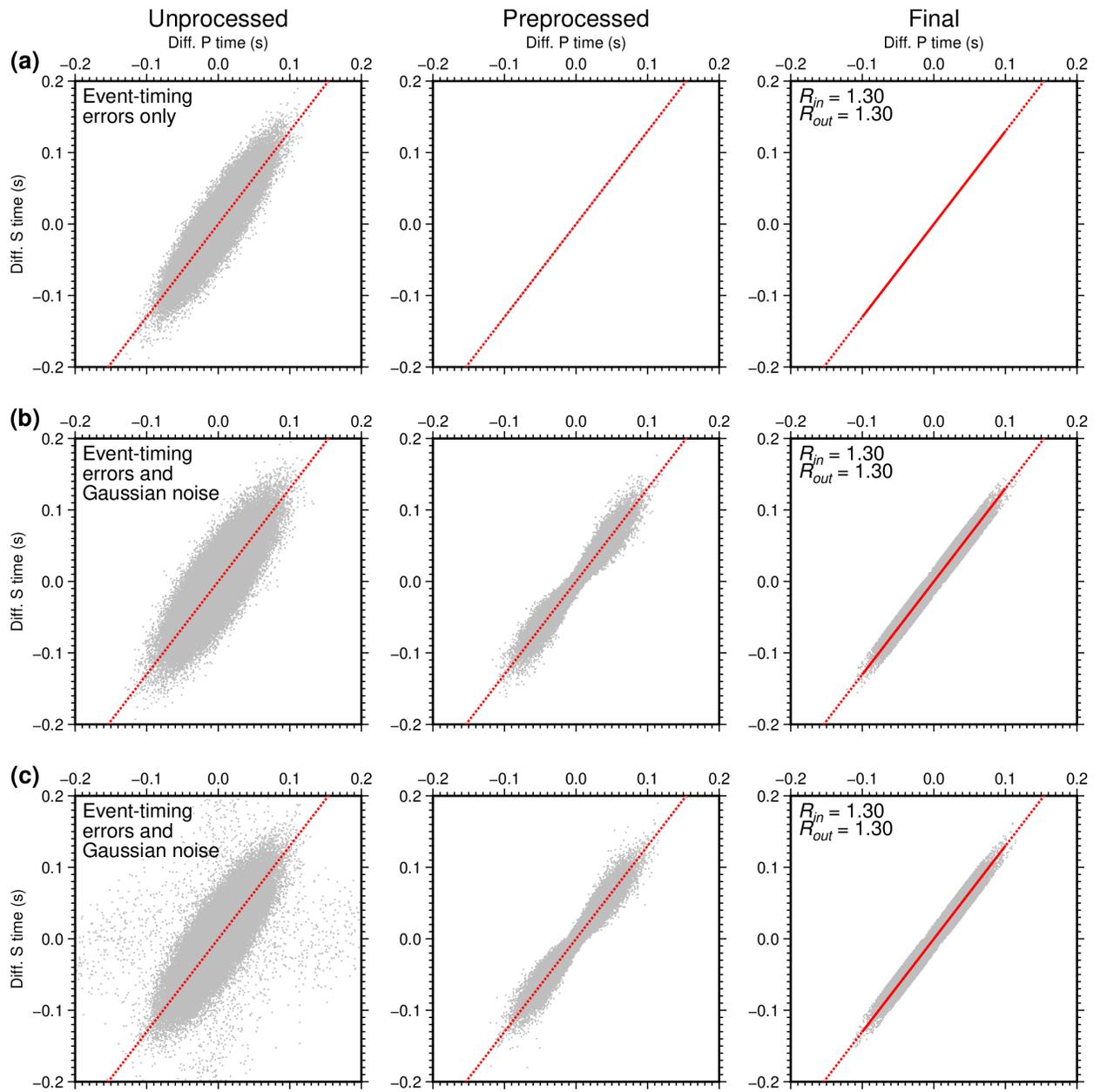
This supplementary information contains Supplementary Figures 1–5.



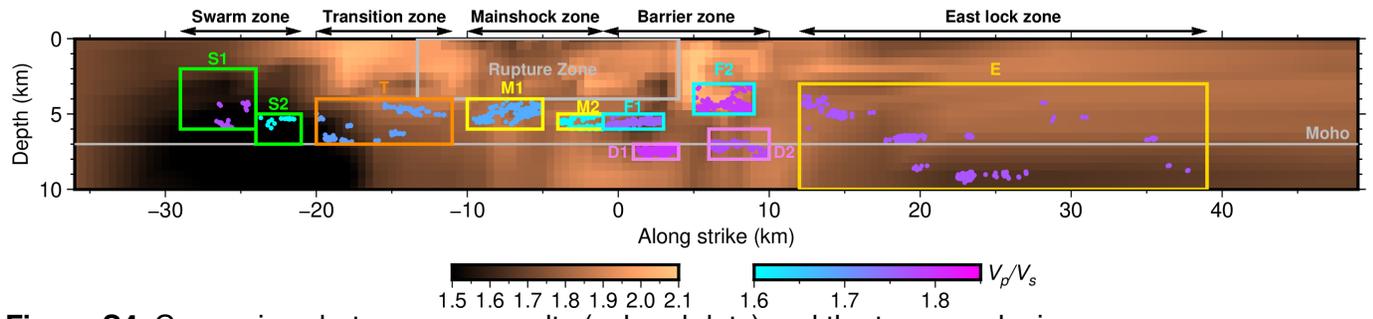
**Figure S1.** Similar to Fig. 9, but for a fault zone width of 2 km (Model 3).



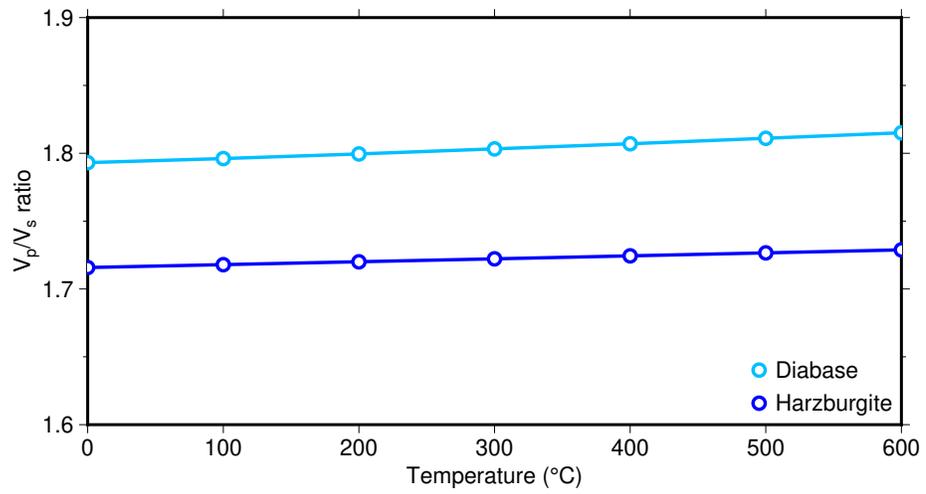
**Figure S2.** Comparison between (a) all differential P and S arrival times of D1 and (b) the differential arrival times of D1 with a cross-correlation value > 0.6. Dashed red lines: Lines with slope = 1.3 and 1.7.



**Figure S3.** Similar to Fig. 12, but for an input  $V_p/V_s$  ratio of 1.30.



**Figure S4.** Comparison between our results (colored dots) and the tomography image (background image) from Guo et al. (2018).



**Figure S5.**  $V_p/V_s$  ratios of diabase and harzburgite as functions of temperature in 0–600 °C at 150 MPa.