

Additional file for

**Width-dominant rupture of an Mw 7.4 earthquake off Aomori Prefecture, Japan,
on 8 December 2025 and its relationship with fault scaling**

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Introduction

The result of fault modeling without fixing the fault strike angle is shown in Figure S1.

Figure S2 shows a comparison of the plate boundary models around the source region
of the 2025 Aomori earthquake.

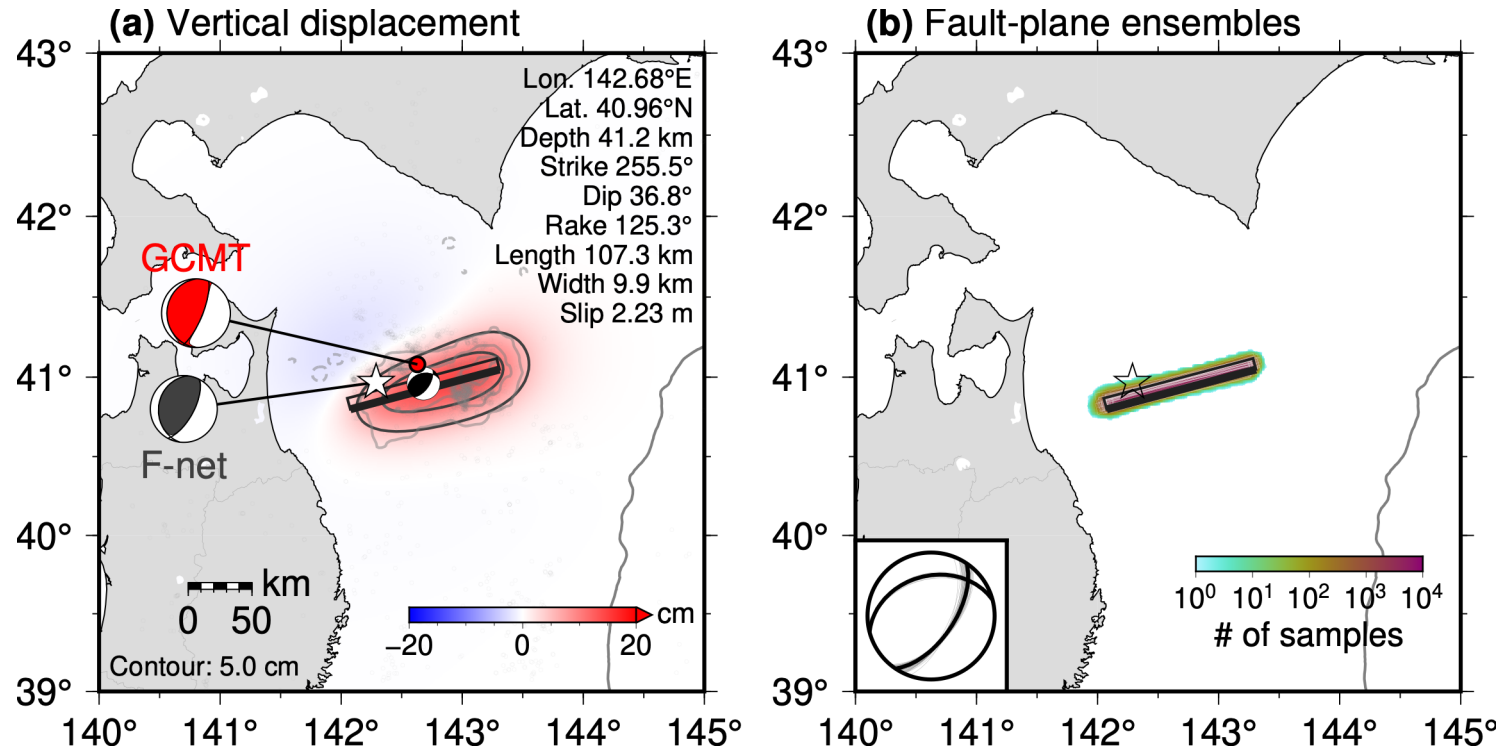


Fig. S1 Results of fault modeling without fixing the strike value. See the figure caption of Figure 3 for a detailed description.

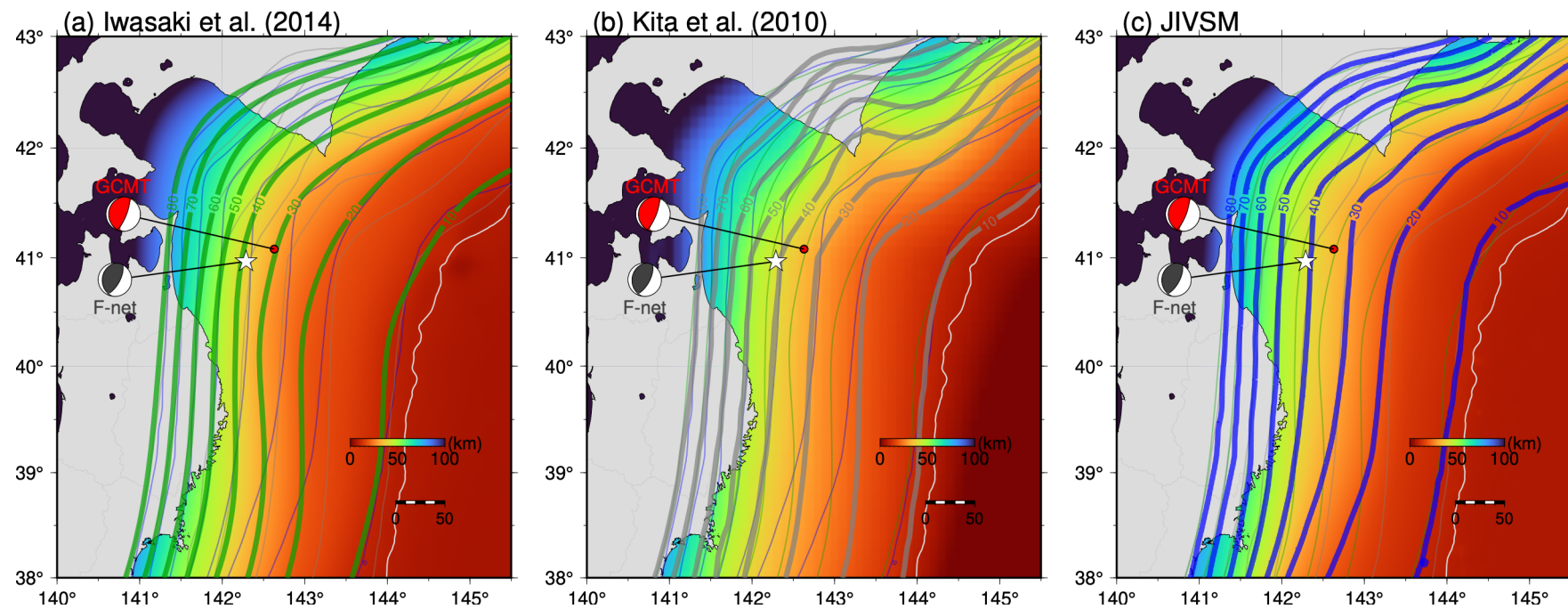


Fig. S2 Comparison of the depths of the plate interface from (a) Iwasaki et al. (2014), (b) Kita et al. (2010), and (c) Japan Integrated Velocity Structure Model (JIVSM, Koketsu et al. 2012).