

Supplementary materials for

Temporal changes in surface afterslip along the 2016

5 Kumamoto earthquake rupture revealed by repeated field surveys

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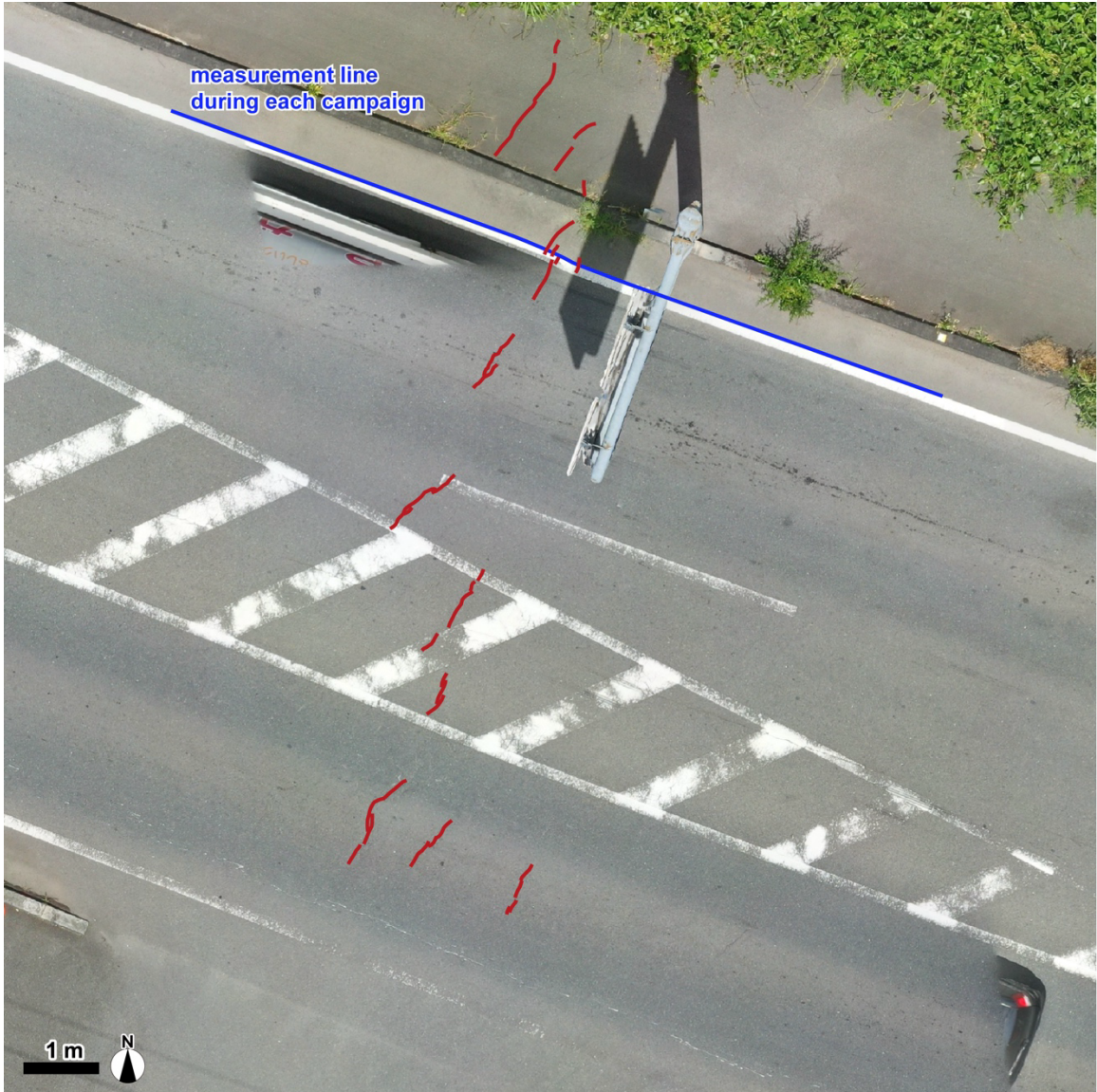
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25 Figure S1. Distribution of the cracks associated with the postseismic surface deformation at Loc. 2 in Oike. Red lines indicate the distribution of the cracks. Basemap is the orthographical image created using a drone image taken on 8 August 2022.



30 Figure S2. Temporal changes in the small graben-like depression at Loc. 3 in Takaki. Basemap is the orthographical image created using a drone image taken on 27 September 2020, 4 September 2021, 8 August 2022, and 18 December 2022, respectively. As time passes, the depression was growing to the northeast within the repaired patch of pavement. When we visited on 26 September 2023, the entire road surface had been completely repaired, and we were unable to observe the depression.



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Figure S3. Photographs of the cumulative displacement of coseismic and postseismic surface deformation along the Hinagu fault. (a) Displacement at 15 m south of Loc. 2. (b) Displacement at 140 m north of Loc. 6. (c) Immediately south of Loc. 7 (White line). Red arrows indicate the location of the surface ruptures associated with the mainshock of the Kumamoto earthquake.

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