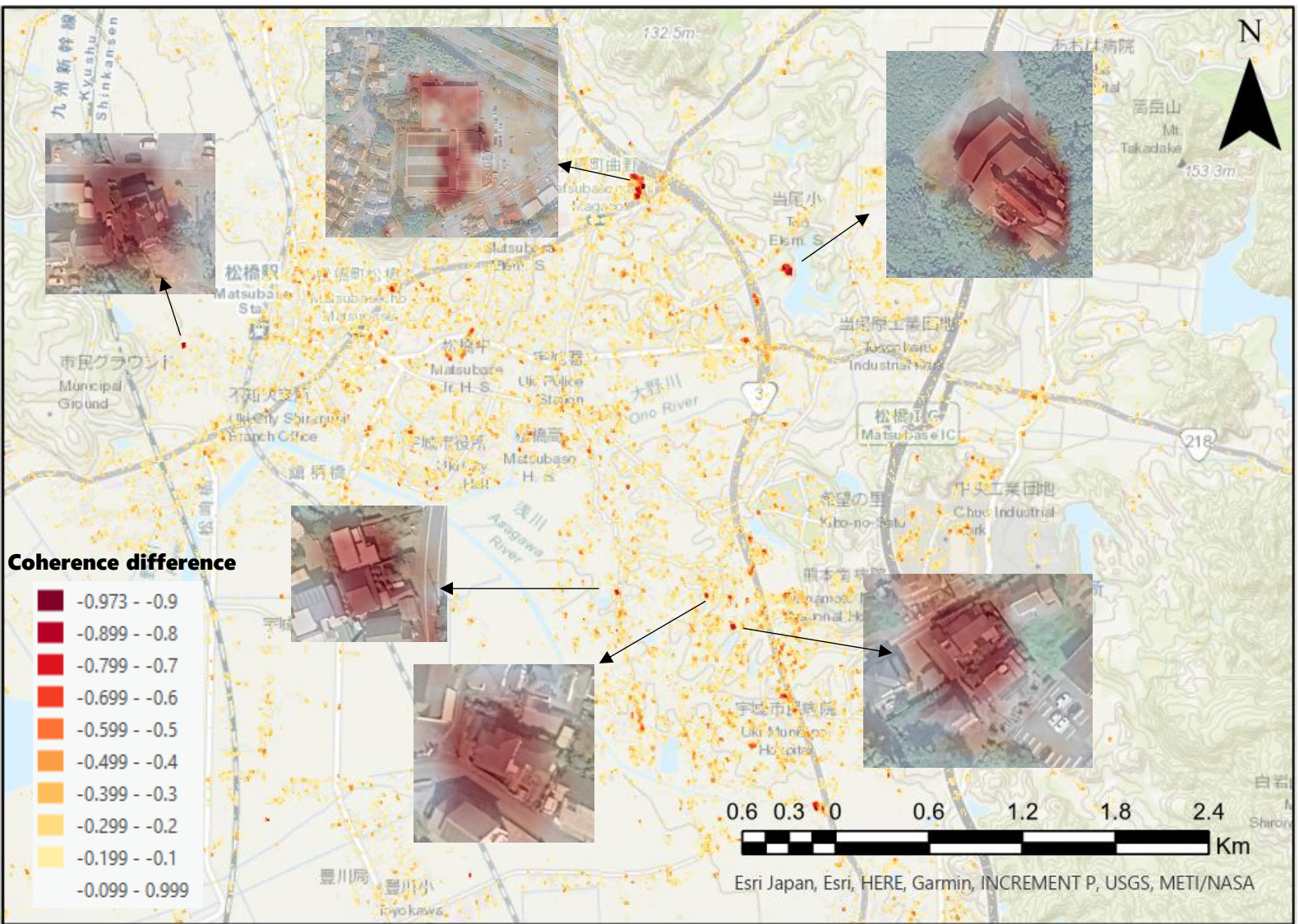




Coherence differences between pre- and co-event InSAR pairs. Red indicates a high probability of damage (e.g., building collapse and liquefaction).



2026 Kumamoto earthquake, Japan

Sensors: ALOS-2 PALSAR-2

Location: Uki City

The coherence was calculated for both a pre-event InSAR pair and a pre-/co-event InSAR pair. The figure shows the difference in coherence, computed as the co-event coherence minus the pre-event coherence. Areas shown in red indicate a higher likelihood of earthquake-induced damage. To reduce false detections, the analysis was restricted to urban areas using the JAXA Land Cover Map. Six locations where buildings are highly likely to have collapsed are enlarged.

ALOS-2 images were owned by JAXA.