Color campsite of the pre- and post-event PALSAR-2 intensity images for Kumamoto City, Japan
R: 2016/4/15
G&B: 2014/11/14
Polarization: HH
Off-nadir angle: 28.8°
Pixel size: 2.5 m

- Changed urban area (z > 0.3)

Z-factor is calculated by the following equation, which is from -0.5 and 1.5. A high value shows high possibility for changes.

\[ z = \frac{|d|}{\max(|d|)} - 0.5r \]
Building footprints (GSI) are downloaded from http://fgd.gsi.go.jp/download/, provided by GSI.

Difference and correlation coefficient are calculated in a $7 \times 7$ pixels window.
Possible damaged buildings in Mashiki-cho, Kumamoto City, Japan, were extracted the z-factor. Z-factor is from -0.5 and 1.5. A high value shows high possibility for changes.

\[ z = \frac{|d|}{\max(|d|)} - 0.5r \]

The results were calculated from the pre- and post-event PALSAR-2 intensity images of Kumamoto City, Japan.
Pre-event: 2014/11/14
Post-event: 2016/04/15
Polarization: HH
Off-nadir angle: 28.8°
Pixel size: 2.5 m