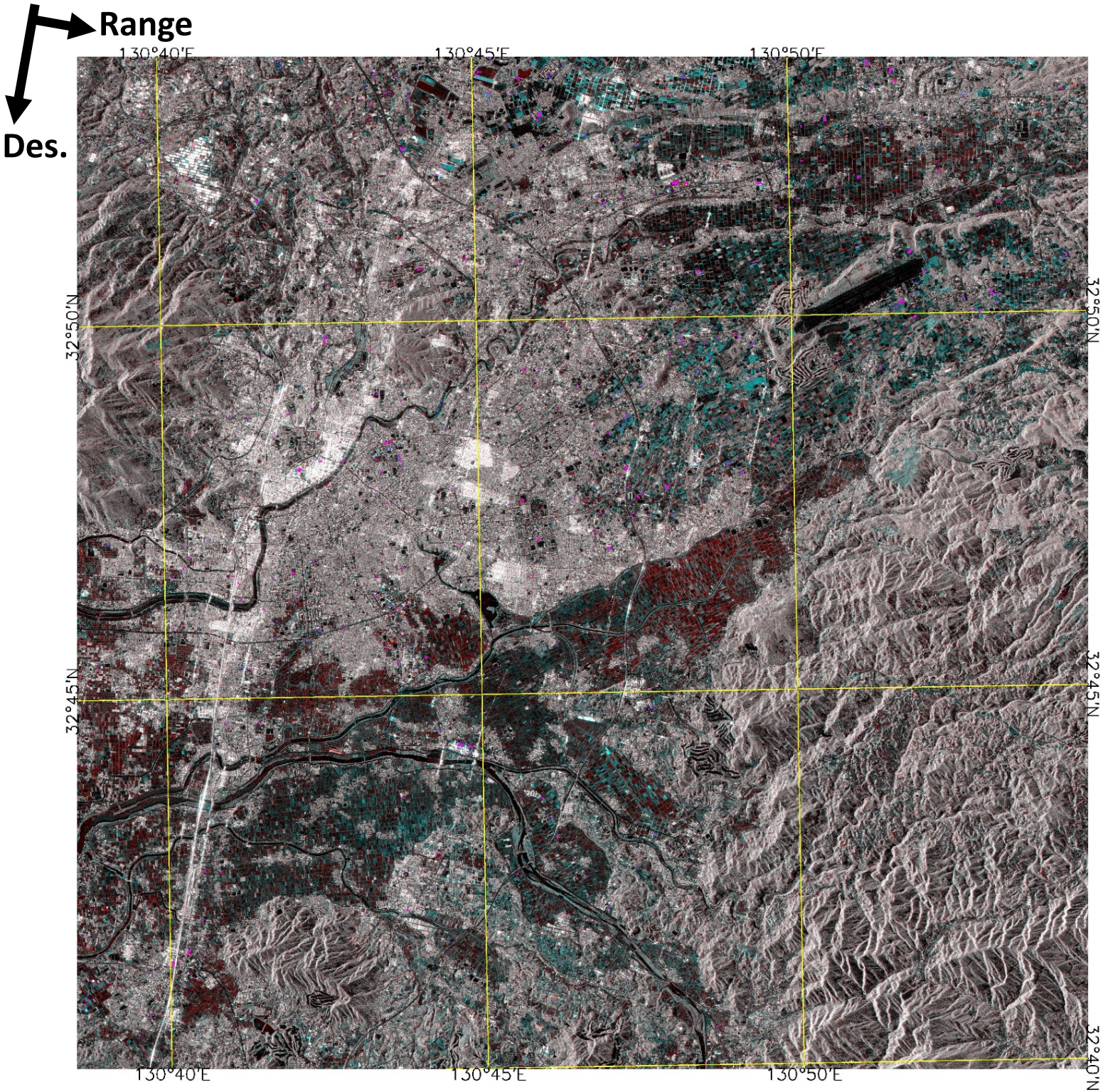

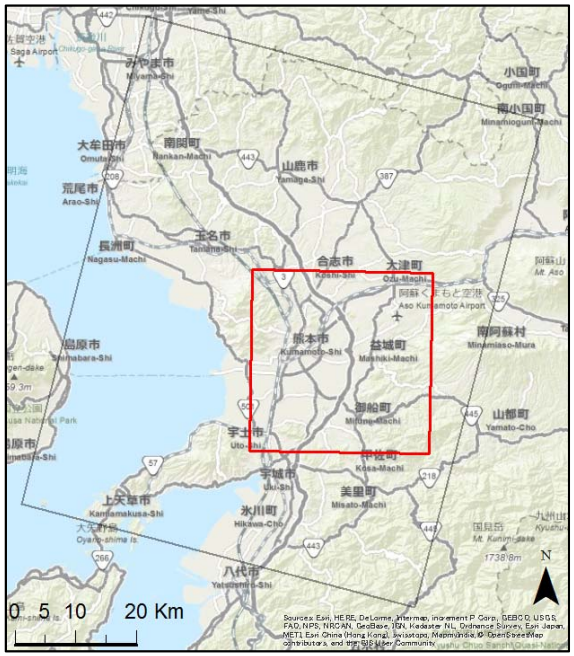

Color campsite of the pre- and post-event PALSAR-2 intensity images for Kumamoto City, Japan
R: 2016/4/15
G&B: 2014/11/14
Polarization: HH
Off-nadir angle: 28.8°
Pixel size: 2.5 m

■ 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.

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

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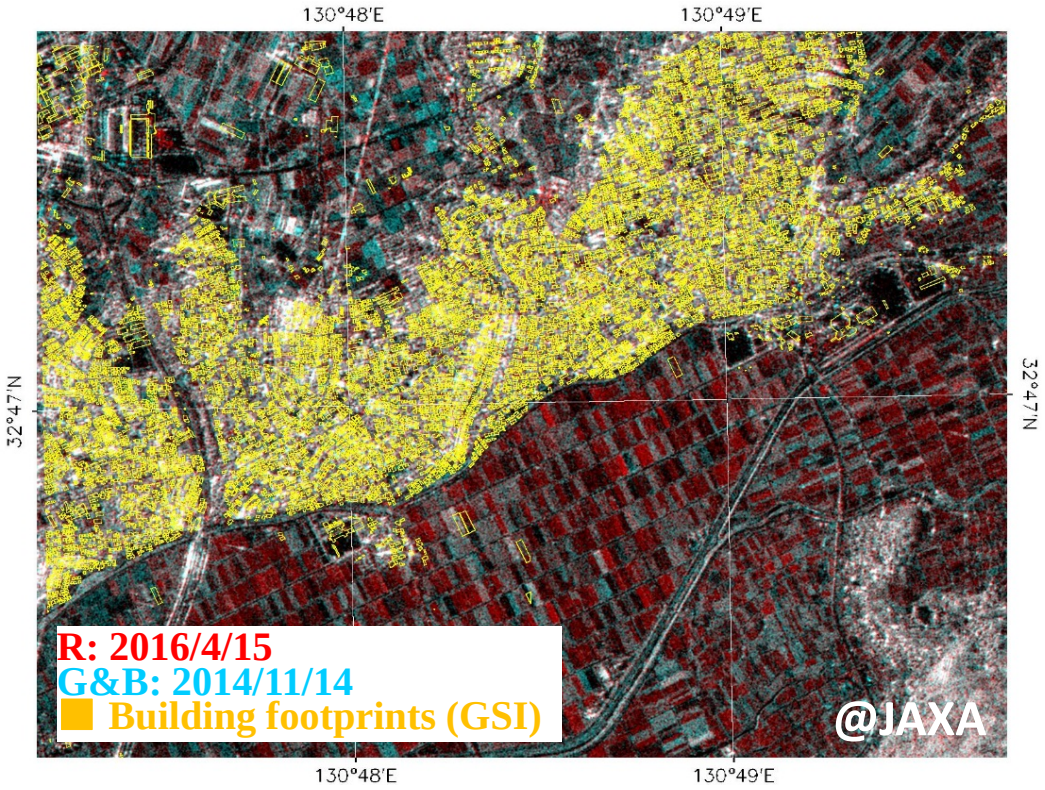
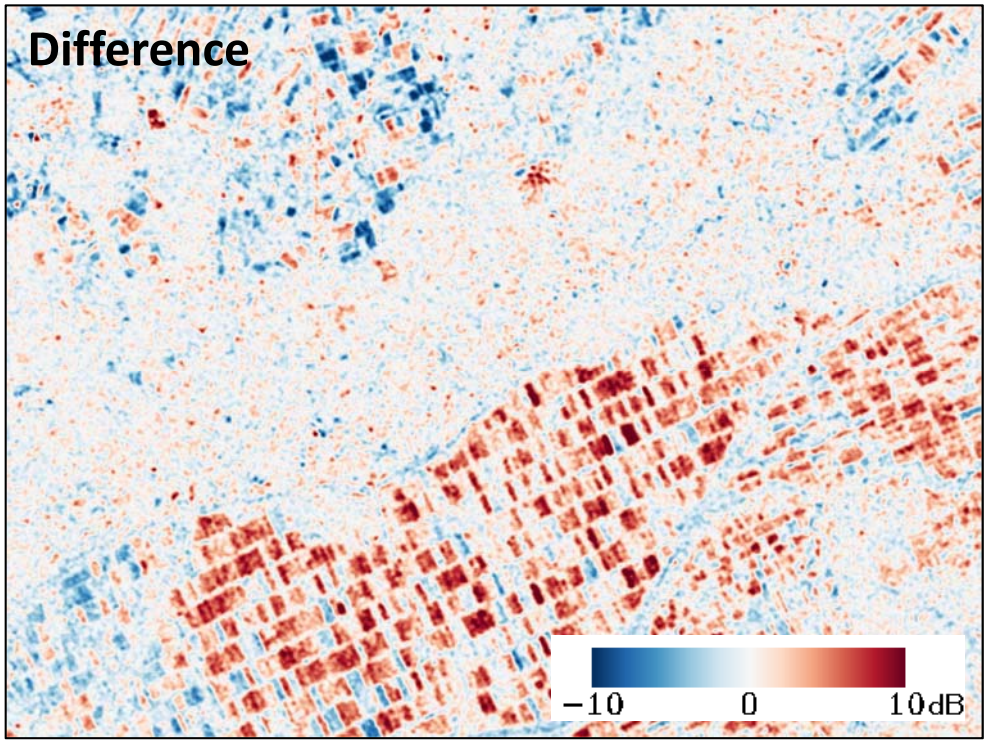
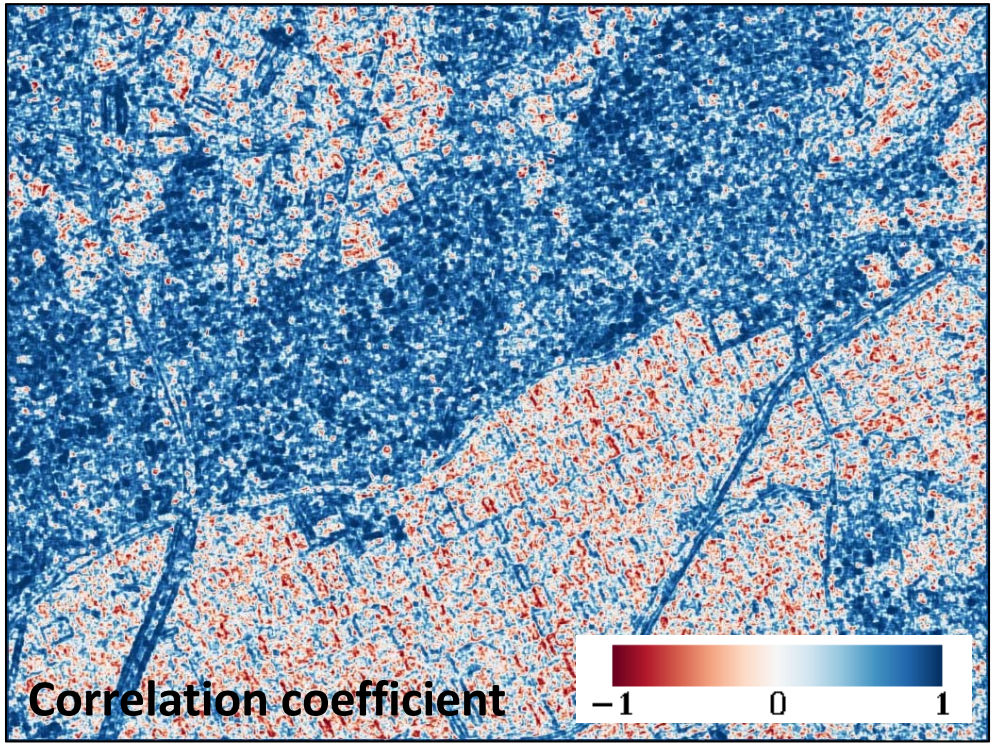




Range

Des.



Color campsite of the pre- and post-event PALSAR-2 intensity images in Mashiki-cho, Kumamoto City, Japan.
Polarization: HH
Off-nadir angle: 28.8°
Pixel size: 2.5 m

Building footprints are downloaded from http://fgd.gsi.go.jp/download/, provided by GSI.

Difference and correlation coefficient are calculated in a 7×7 pixels window.

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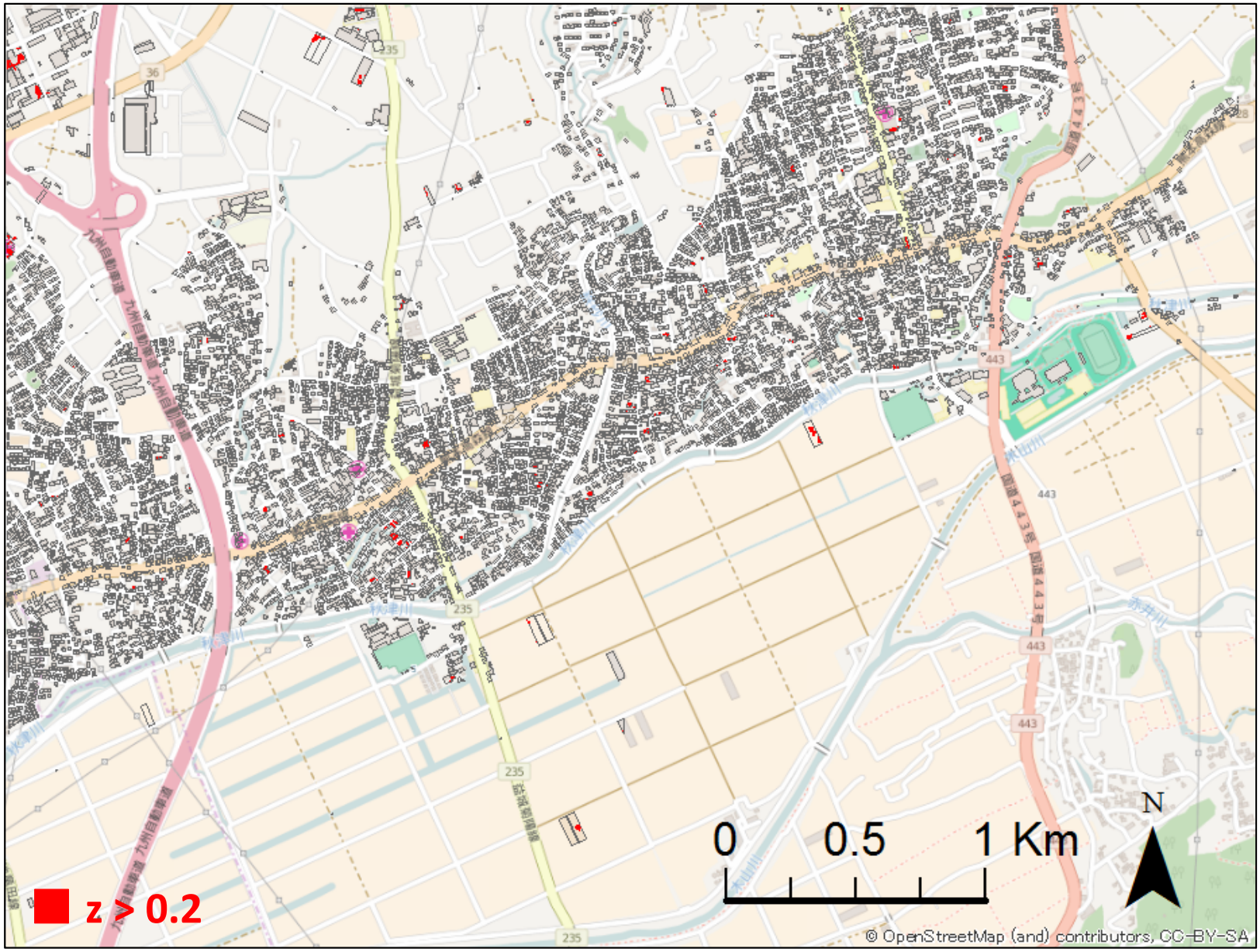

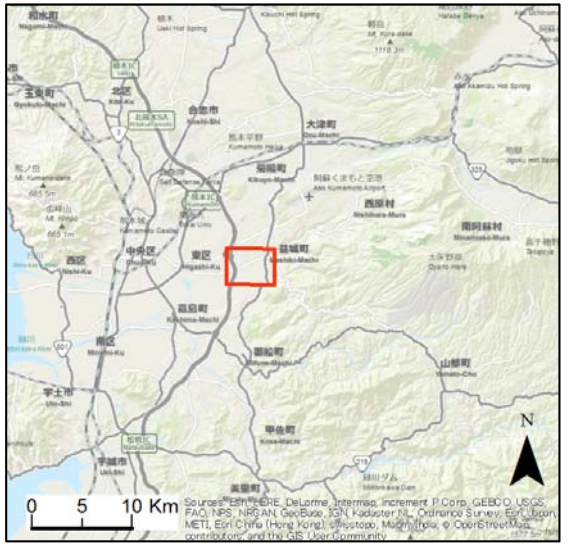

The results were calculated from the pre- and post-event PALSAR-2 intensity images of Kumamoto City, Japan.
Pre-event: 2014/11/14
Post-event: 2016/04/15
Polarization: HH
Off-nadir angle: 28.8°
Pixel size: 2.5 m

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.

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

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