

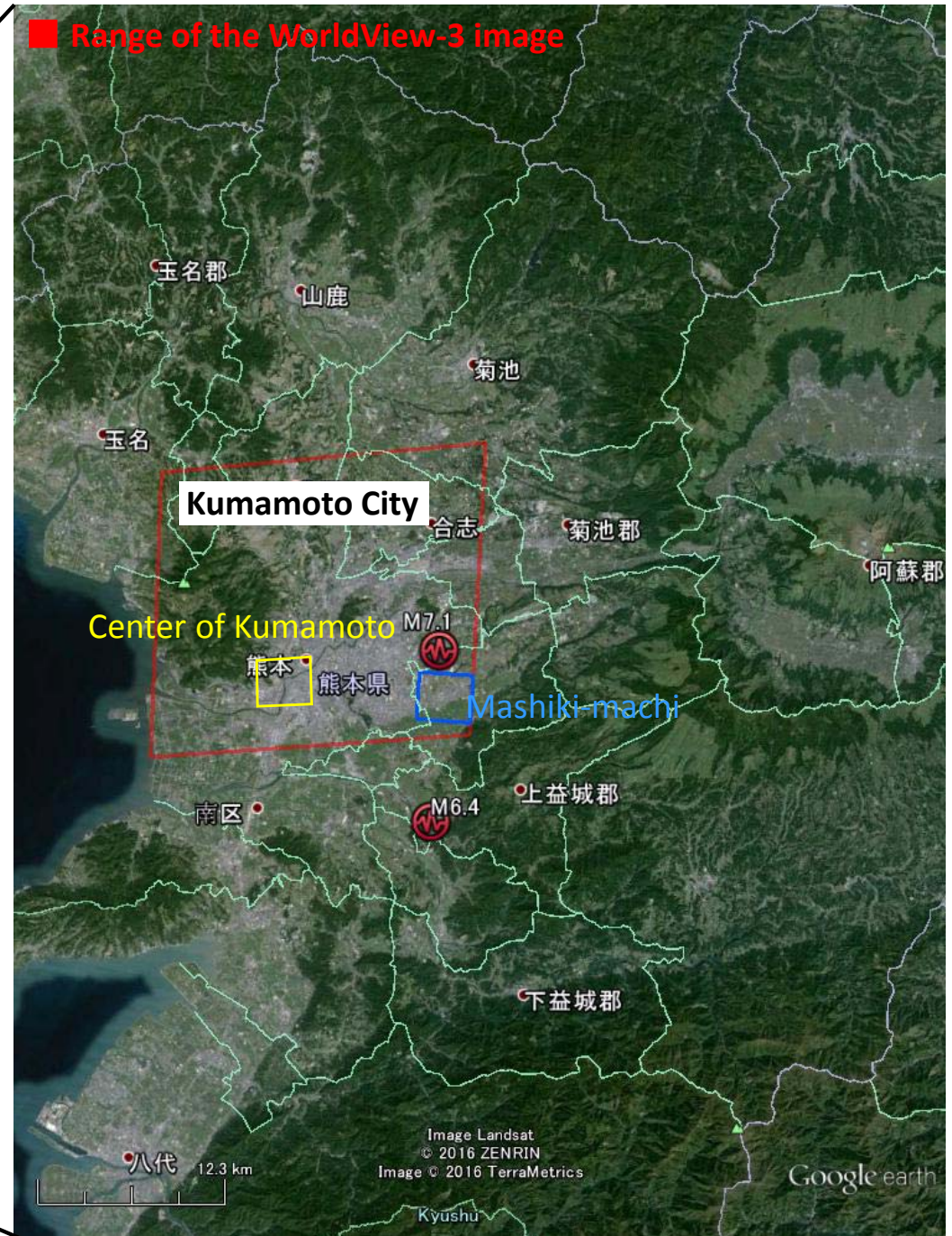
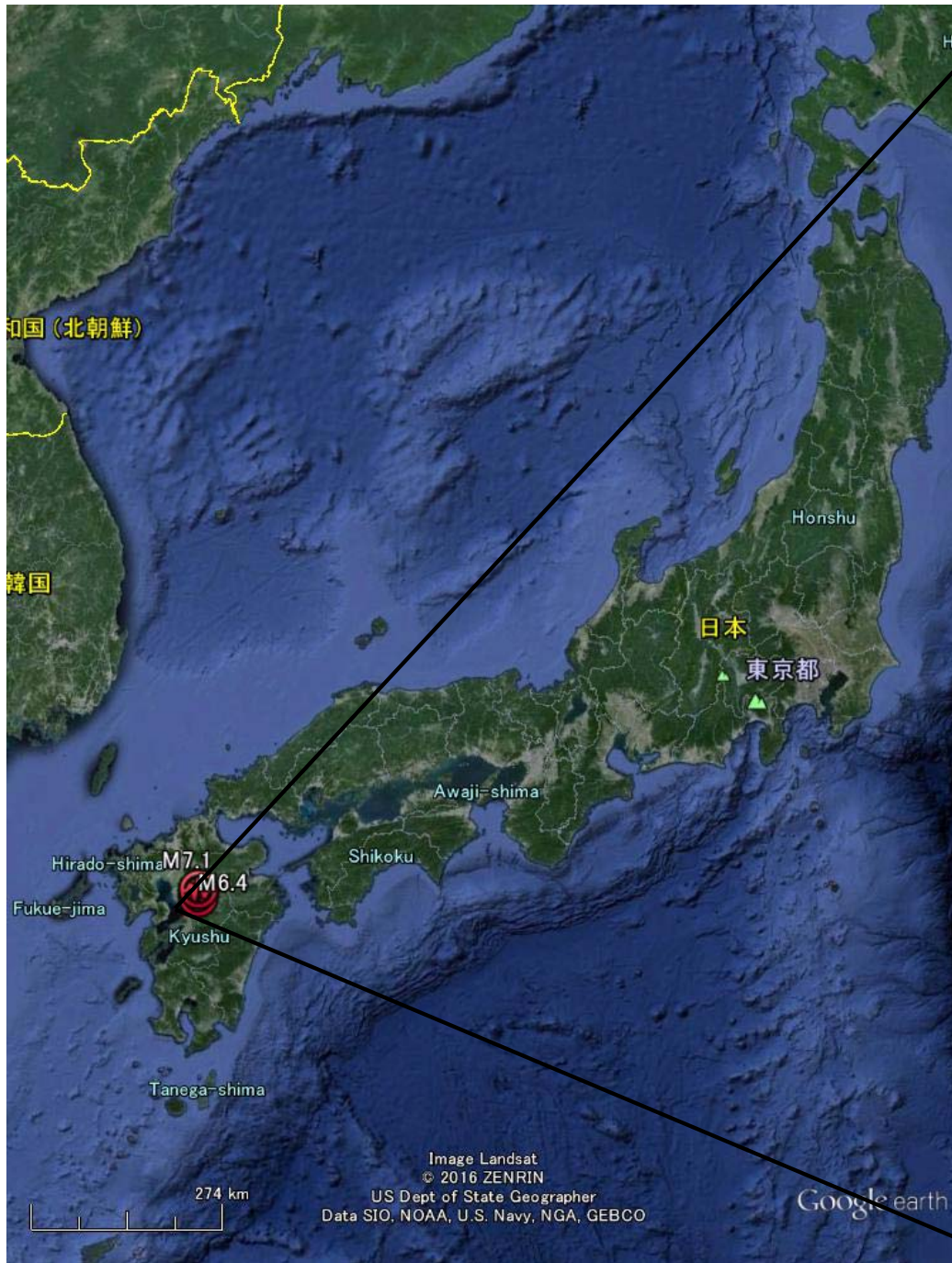
Extraction of damaged areas from optical satellite images

April 20, 2016

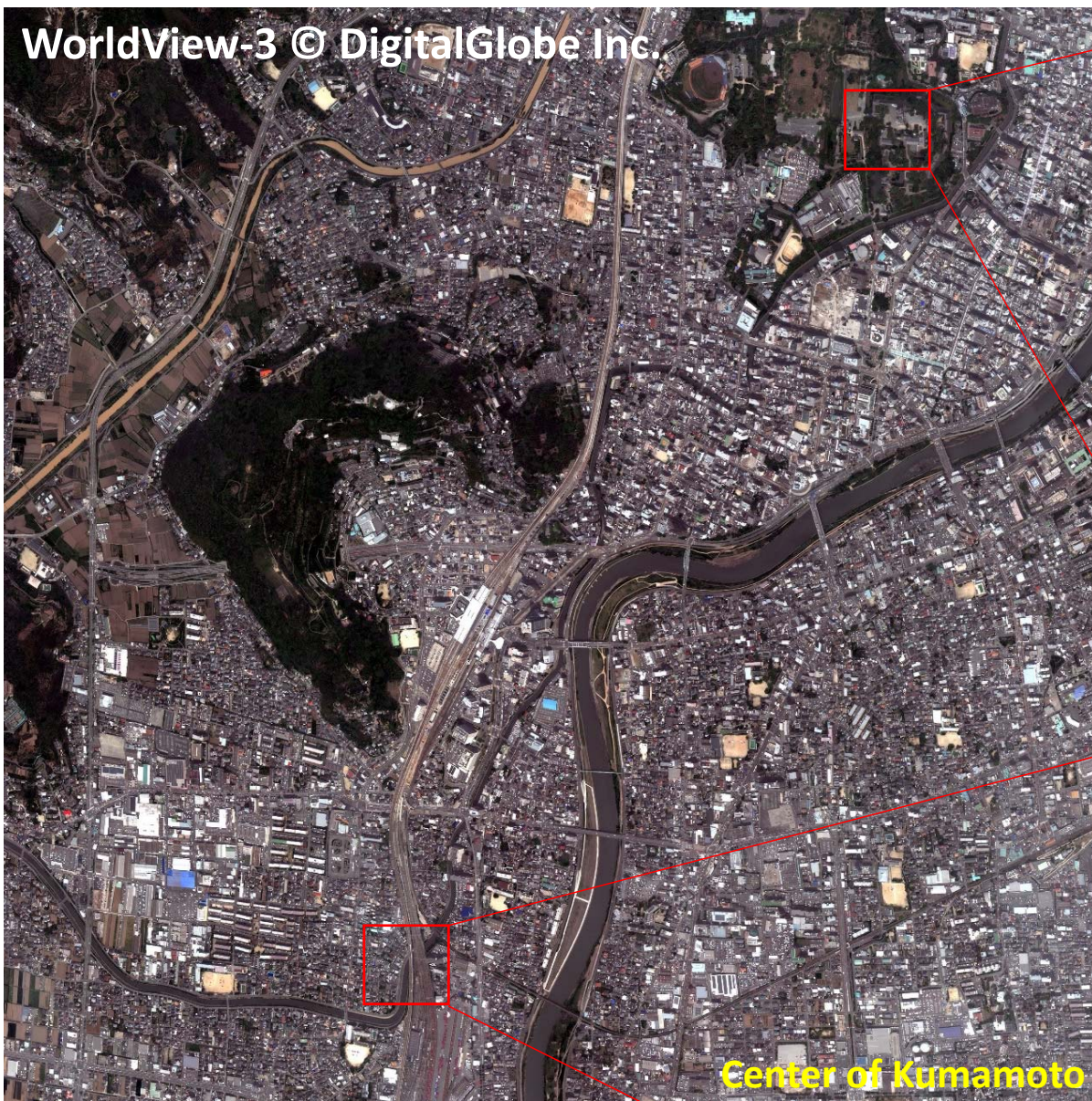
Wen LIU and Fumio Yamazaki

Chiba University





WorldView-3 © DigitalGlobe Inc.



Center of Kumamoto



Kumamoto castle



Derailed Shinkansen

Pansharpended WorldView-3 image
2016/4/15T11:08:13 (JST)
Resolution: 0.4-m





Pansharpened WorldView-3 image with 0.5-m resolution.

2016/4/15T11:08:13 (JST)

Mashiki-machi, Kumamoto, Japan.



WorldView-3 © DigitalGlobe Inc.

Damaged area A



■ Damaged buildings

Damaged buildings by the visual interpretation from the pansharpened pre- and post-event optical images.

Pre-event: WorldView-2

2013/05/26

11:42:00 (JST)

Post-event: WorldView-3

2016/4/15

11:08:13 (JST)

Resolution: 0.5-m

Damaged area B



WV2 and WV3 images are owned by Digital Globe and provided by USGS.



Damaged area C



■ Damaged buildings

Damaged buildings by the visual interpretation from the pansharpened pre- and post-event optical images.

Pre-event: WorldView-2
2013/05/26
11:42:00 (JST)

Post-event: WorldView-3
2016/4/15
11:08:13 (JST)

Resolution: 0.5-m

Damaged area D



WV2 and WV3 images are owned by Digital Globe and provided by USGS.

