



Legend

Settlement	Agriculture	Water
Infrastructure		Points of Interest
Damage Assessment		
	Destroyed / heavily damaged	
	Less than heavily damaged or status unknown	
	Area not analyzed due to cloud coverage	

Interpretation

On Friday morning November 8 at 4:40 local time typhoon Haiyan (category 5 on the Saffir-Simpson scale) made landfall on the Philippines. From the islands Samar and Leyte the typhoon continued west northwestwards with wind speeds of more than 300 km/h. Typhoon Haiyan triggered severe storm surges contributing to large-scale devastations. Officials estimate more than 10,000 people dead and hundreds of thousands homeless.

The map shows the situation in Bogó City in the north of the island Cebu. Detailed damage assessment has been conducted by visual interpretation based on post-event WorldView-1 satellite data acquired on November 11, 2013 at 2:14 pm (UTC). A RapidEye image of April 23, 2013 serves as backdrop.

Please note that some areas could not be analyzed due to cloud coverage. Extracted buildings and roads might not be fully captured due to data constraints.

Cartographic Information

Local projection: UTM Zone 51N, Datum: WGS 1984
 Geographic projection: Lat/Lon (DMS), Datum: WGS 84
 Scale: 1:10,000 for A1 prints.

Data Sources

WorldView-1 (0.5m) © European Space Imaging 2013
 RapidEye (6.5m) © BlackBridge 2013. www.blackbridge.com
 Vector data © DLR/ZKI 2013
 © OpenStreetMap contributors 2013

Framework

The products elaborated for this Rapid Mapping Activity are realised to the best of our ability, within a very short time frame, optimising the material available.

All geographic information has limitations due to the scale, resolution, date and interpretation of the original source materials. No liability concerning the content or the use thereof is assumed by the producer.

The ZKI crisis maps are constantly updated. Please make sure to visit <http://www.zki.dlr.de> for the latest version of this product.

Map produced November 13, 2013 by ZKI
 © DLR/ZKI 2013
zki@dlr.de
<http://www.zki.dlr.de>



Center for Satellite Based Crisis Information
 – Emergency Mapping & Disaster Monitoring –
 a service of DFD

German Remote Sensing Data Center
 German Aerospace Center