



### Legend

	Settlement		Agriculture		Cloud/Shadow
<b>Infrastructure</b>		<b>Hydrology</b>		<b>Topography</b>	
	Settlement		Streams		Water body
	Primary road		Coastline		Contourlines
	Secondary road		10 m		50 m
	Industrial Area		Harbour		
<b>Damage Assessment</b>					
	> 13 (max. 108)	Number of damaged buildings per 250m x 250m grid cell			
	6 - 13				
	1 - 5				
	Road possibly blocked				

### Interpretation

On November 8, the typhoon Haiyan made landfall on the Philippines. Triggering a severe storm surge, the typhoon caused thousands of deaths, almost two million homeless people and widespread destruction in the central Philippines. Detailed damage assessment has been conducted by visual interpretation of post-event Pléiades satellite data acquired on November 14, 2013 at 2:10 am (UTC). Counts of damaged buildings are aggregated on a 250m grid. In areas with cloud coverage damage values are likely underestimated. Buildings and roads might not be fully captured due to data constraints. This map is the result of shared mapping between SERTIT and DLR/ZKI emergency response teams.

### Cartographic Information

Local projection: UTM Zone 51N, Datum: WGS 1984  
 Geographic projection: Lat/Lon (DMS), Datum: WGS 84  
 Scale: 1:25,000 for A1 prints.

### Data Sources

Pléiades (0.5m) © CNES 2013, Distribution Astrium Services / SPOT Image S.A., all rights reserved  
 Vector data © DLR/ZKI 2013  
 © SERTIT 2013  
 © OpenStreetMap contributors 2013  
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### Framework

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Map produced November 17, 2013 by ZKI  
 Map updated November 18, 2013 by ZKI  
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**Center for Satellite Based Crisis Information**  
 – Emergency Mapping & Disaster Monitoring –  
 a service of DFD

German Remote Sensing Data Center  
 German Aerospace Center