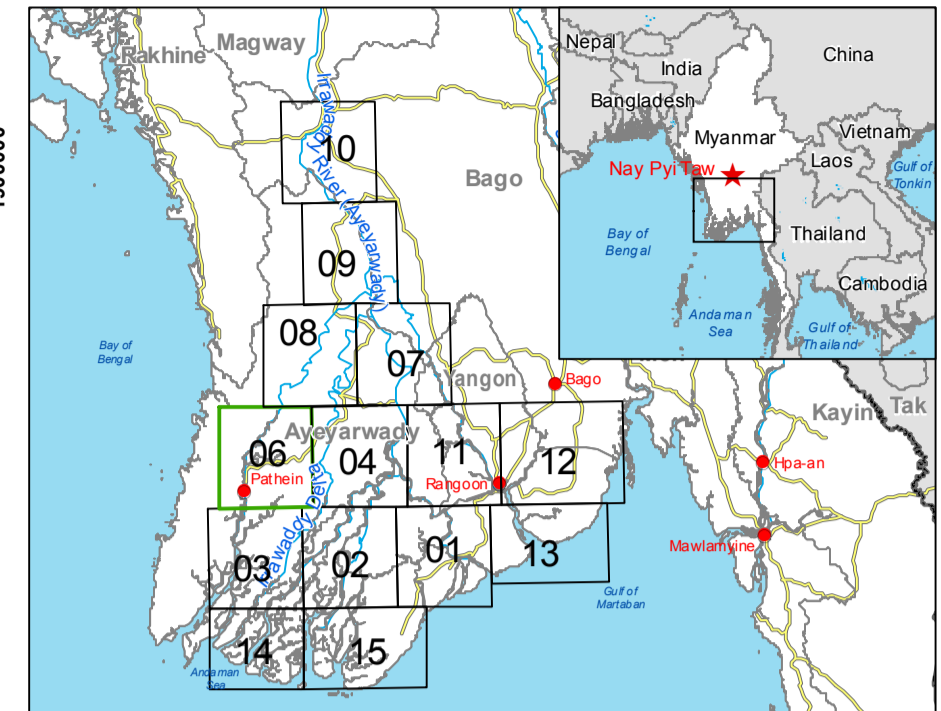


## Patheingyi - Myanmar Flood - 01/08/2015 Delineation Map - Monit02



### Cartographic Information

1:110000 Full color ISO A1, low resolution (100 dpi)

0 2.5 5 10 km

Grid: WGS 1984 UTM Zone 46N map coordinate system  
 Tick marks: WGS 84 geographical coordinate system

### Legend

<b>Crisis Information</b>	<b>Settlements</b>
<span style="color: blue;">■</span> Flooded Area (04/09/2015 11:46 UTC)	<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">○</span> Populated Place
<span style="border: 2px solid green;">□</span> Area of Interest	<span style="border: 1px solid brown; padding: 2px;">□</span> Built-Up Area
<span style="border: 1px solid black; width: 10px; height: 10px; display: inline-block;"></span> Sensor Footprint	<span style="border: 1px solid blue; padding: 2px;">□</span> Lake
<span style="background-color: gray; width: 10px; height: 10px; display: inline-block;"></span> Missing data	<span style="border: 1px solid blue; padding: 2px;">□</span> Reservoir
<span style="border-bottom: 1px dashed gray; width: 20px; display: inline-block;"></span> Province	<span style="border: 1px solid blue; padding: 2px;">□</span> River
<span style="border-bottom: 1px dashed gray; width: 20px; display: inline-block;"></span> Administrative boundaries	<span style="border: 1px solid blue; padding: 2px;">□</span> Transportation
<span style="border-bottom: 1px dashed gray; width: 20px; display: inline-block;"></span> Province	<span style="border: 1px solid blue; padding: 2px;">□</span> Aerodrome
	<span style="border: 1px solid blue; padding: 2px;">□</span> Railway
	<span style="border: 1px solid blue; padding: 2px;">□</span> Secondary Road
	<span style="border: 1px solid blue; padding: 2px;">□</span> Local Road

Consequences within the AOI on 04/09/2015			
		Affected	Total in
Flooded area	ha	1538	264219
Estimated population	Inhabitants	1538	869884
Settlements	Built-up area	ha	467
	No.	0	1
Transportation	Aerodrome	No.	0
	No.	0	7
	Railway	km	0
	Secondary road	km	14.4
	Local road	km	0
		km	309

### Map Information

Unusual heavy monsoon rains have been affecting Myanmar since 16 July causing river overflows and floods. In the past few days, torrential rains damaged farmland, roads, rail tracks, bridges and houses. Reservoirs are seasonal inundated areas and water bodies probably due to agricultural practices (paddy fields).  
 The core users of the map is Emergency Response Coordination Centre (ERCC).

Relevant date and time records (UTC)			
Event	Date	Status	Time
Event	01/08/2015 00:00	Last crisis status	04/09/2015 11:46
Activation	07/08/2015 10:00	Map production	05/09/2015

### Data Sources

Sentinel-1 A (acquired on 04/09/2015 11:46, GSD 20 m) provided by the European Space Agency.  
 Landsat-8 © U.S. Geological Survey (acquired on 21/03/2015, GSD 15 m, < 1 % cloud coverage)  
 Base vector layers based on OpenStreetMap © OpenStreetMap contributors, Wikimapia.org, GeoNames (approx. 1:10000, extracted on 08/08/2015), refined by SIRS. Source information is included in vector data.  
 Elevation data: SRTM (90 m posting). Height in meters above mean sea level.  
 Population data: Landsat 2010 © UT BATTELLE, LLC.  
 All data sources are complete and with no gaps.  
 Inset maps based on: Administrative boundaries (JRC 2013), Hydrology, Transportation (Natural Earth, 2012), Settlements (Geonames, 2013).

### Dissemination/Publication

Delivery formats are GeoTIFF, GeoPDF, GeoJPEG and vectors (shapefile and KML formats).  
 Map products available in the Copernicus EMS Portal at the following URL:  
<http://emergency.copernicus.eu/mapping/list-of-components/EMSR130>  
 All products are © of the European Union.

### Disclaimer

The products elaborated in the framework of current mapping in rush mode activation are realized to the best of our ability, within a very short time frame during a crisis, optimising the available data and information. All geographic information has limitations due to scale, resolution, date and interpretation of the original data sources. The products are compliant with Copernicus EMS Rapid Mapping Product Portfolio specifications.

### Map Production

The present map shows the flood delineation in the area of Patheingyi (MYANMAR). The basic topographic features are derived from public datasets, refined by means of visual interpretation of pre-event image Landsat-8.  
 Thematic layers, assessing the delineation of the event have been derived from post-event image Sentinel-1A.  
 All satellite images have been radiometrically enhanced, orthorectified with RPC approach (using SRTM elevation data).  
 The estimated geometric accuracy of this product is 50 m CE90 or better, from native positional accuracy of the background satellite image.  
 The estimated thematic accuracy of this product is 85 % or better, based on previous experience in using high-resolution SAR for flood extent delineation. Please be aware that the thematic accuracy might be lower in urban and forested areas due to known limitations of the analysis technique.  
 Only the area enclosed by the Area of Interest has been analyzed.

### Contact

Map produced by GAF AG under contract 259736 with the European Union.  
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