NEWS RELEASE



September 4th, 2015

2015 Myanmar Torrential Rains and Floods

Damage Assessment at Irrawaddy River Banks

Special Weather Content and Disaster Area Reports for Myanmar Available Online

Weathernews Inc. extends our heartfelt sympathy to all affected by the floods in Myanmar.

Monsoonal rains starting from July in Myanmar and the effects of a tropical cyclone that made landfall over neighboring Bangladesh have caused Myanmar's Irrawaddy River to overflow, and cause widespread flooding and landslides in the country. Weathernews has worked under the corporate principle of wanting assisting people in times of emergency, so with this spirit, we made an assessment of the damage in affected areas, and have released a special Myanmar Rain Disaster Information website to help people the of Myanmar minimize secondary disasters and support recovery operations.

Myanmar Rain Disaster	Information
The special information can be accessed from the URL below:	To access from Smart Phones, please download the Sunnycomb application. Special content on
http://g.sunnycomb.com/mm/	the disaster area can be found under
This URL can be viewed on PC and Smart Phones	Notifications.

Long-term Rainfall and Flooding Around the Irrawaddy River

Monsoonal rains since July and torrential rains caused by Tropical Cyclone Komen making landfall over Bangladesh on July 30th have caused mountainous areas in western Myanmar to receive up to 500 millimeters of rain in one month based on Weathernews analysis of satellite data. The estimated rainfall events show that compared to August 2015, there was an area of rainfall over 500 millimeters (represented by the red area on the map in Fig. A) in western Myanmar in July 2015. Three major cities in Myanmar (Mandalay, Sittwe and Yangon) also showed that July 2015 yielded 1.6 to 2.0 times more rain than normal.

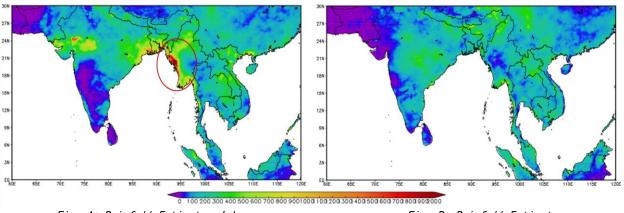


Fig. A: Rainfall Estimates July

Fig. B: Rainfall Estimates

Data: JAXA, Weathernews



city	Precipitation (July 2015)	Average (July)	Ratio of Monthly Average Precipitation (July 2015)
Mandalay	101mm	62mm	163%
Sittwe	1745mm	879mm	199%
Yangon	766mm	460mm	167%

Rainfall amounts and deviations (%) from average

Track of Tropical Cyclone Komen

The rainfall produced by the monsoon and cyclone flowed into the Irrawaddy River caused widespread flooding and landslides downstream. NASA satellite images show much land is underwater in August 2015 as compared to August 2013.



Downstream Irrawaddy River on Aug 29, 2013



Downstream Irrawaddy River on Aug 3, 2015

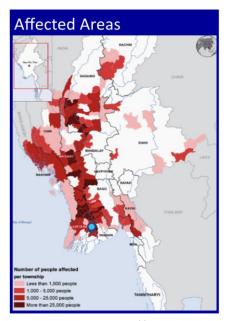
Data: NASA

Damage Assessment Visit on August 27

In order to assess the damage, Weathernews staff visited the coastal area of the Irrawaddy River near Nyaungdon, which is situated three hours northwest by car and boat from the city of Yangon. Most of the water has receded, but there are some places still inundated, and littered with driftwood. Full recovery of the area and daily life is expected to take a long time.

Watermarks on outer walls of houses shows the water reached up to one meter. Land collapses in some areas show widespread dangerous situations. A coastal elementary school also collapsed. Children are taking classes in a temporary classroom in an unaffected building nearby.

As of August 27th, the Irrawaddy River water levels are slowly decreasing, but they are still high and needs careful monitoring based on weather. To minimize further impacts, sandbags are placed around the area.



Source: Generated by OCHA (13 August2015) based on data from RRD and MIMU.

Myanmar is affected by monsoonal rains every year from July to September. The constant rainfall since July has caused a gradual increase in water levels, and people and livestock have become stranded. Houses in coastal Nyaungdon have elevated floors to deal with increase of water level but this case it was not sufficient to deal with the extreme rainfall. There is only ten meters difference in elevation between the Irrawaddy River in Myanmar compared with typical rivers in Japan. When they overflow, rapidly moving streams are often caused by upstream rainfall or dam discharge, leading to landslides. Weathernews has been forecasting torrential rains and supporting flood disasters in Japan for many years, and wants to use our experience here to help mitigate secondary disasters in Myanmar.



Some areas are still under water



Water marks up to 1m above ground



Temporary classroom for a collapsed school



Land has collapsed in some areas



Driftwood from upstream and a damaged building



Sandbags are prominent in many areas



Water level is high and the flow is fast on the Irrawaddy River

• Weathernews Special Content Available – Myanmar Rain Disaster Information

In order to provide support for mitigating secondary disasters and safe evacuation of the local citizens during the peak of the rainy season, Weathernews has released a special **Myanmar Rain Disaster Information** website and mobile content. This site consists of weather analysis and forecast by the *Weathernews Global Forecast Center*, and is available in English and Burmese through the Weathernews smartphone application, **Sunnycomb**.

Myanmar rain disaster information

Serious flood and landslide damages have occurred in northern regions of Myanmar due to the continuous rain that has lasted since July. Many people have evacuated from their homes.

Local weather and precaution points



Rainfall conditions

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12PM Mon Aug 31	32°C	Fair	
3PM Mon Aug 31	30°C	Scattered Rain Showers	I
6PM Mon Aug 31	27°C	Scattered Rain Showers	I
9PM Mon Aug 31	27°C	Partly Cloudy	I
12AM Tue Sep 1	26°C	Scattered Rain Showers	I
3AM Tue Sep 1	25°C	Scattered Rain Showers	I
6AM Tue Sep 1	25°C	Scattered Rain Showers	I
9AM Tue Sep 1	25°C	Scattered Rain Showers	I
12PM Tue Sep 1	29°C	Mostly Cloudy	I
3PM Tue Sep 1 Tue Sep 1	30°C snows	Scattered Thunderstorms	



Local Weather Forecasts

Local Damage Reports

Reports from flooded areas can be viewed and submitted through the Weathernews *Sunnycomb* app. (http://g.sunnycomb.com/mm/)

Weathernews is committed to providing useful weather information to people all the over the globe, and will continue to provide information on the flooding in Myanmar in order to assist the local people and mitigate secondary disasters.