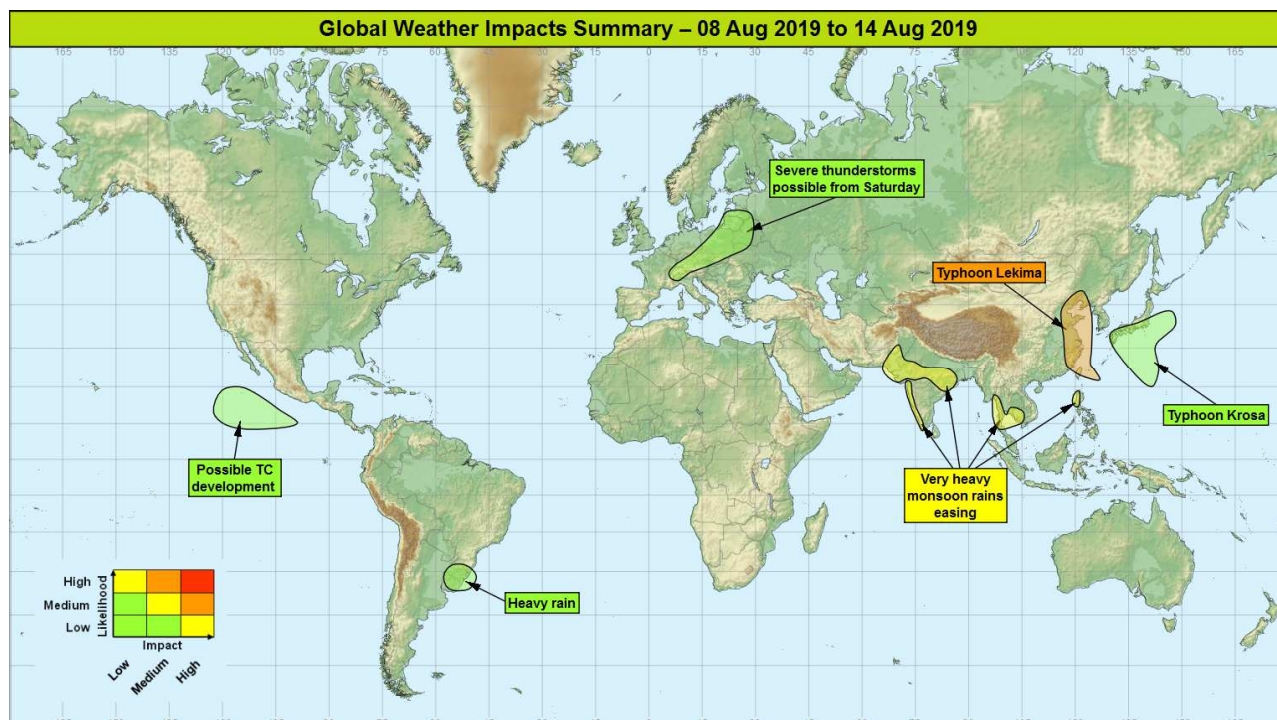


Global Weather Impacts – Thursday 8th to Wednesday 14th August 2019

Issued on Thursday 8th August 2019

HEADLINES

- Typhoon Lekima expected to impact Taiwan and then make landfall over east China.
- Intense monsoon rains across parts of southern Asia slowly easing over the next few days.



DISCUSSION

Tropical Cyclones

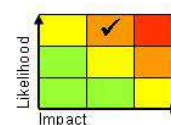
Typhoon Lekima (Western North Pacific)

Weather

Lekima was located around 200 miles east-southeast of Taipei, Taiwan on Thursday morning having strengthened overnight to produce estimated sustained winds of 100-110 mph. Lekima could strengthen further through Thursday as it tracks gradually northwestwards near the north of Taiwan. There is still some certainty in the exact track over the next few days but Lekima is likely to impact Taiwan and the southern Ryukyu Islands on Thursday and into Friday. Lekima is then likely to make landfall over east China during Friday and Saturday, initially south of Shanghai but is then likely to turn north and impact the city over the weekend. Lekima will bring a range of hazards; before landfall sustained winds of 100-110mph with gusts 140-160mph look likely. Parts of east China and Taiwan are likely to see 500-600mm of rainfall. In addition, a storm surge and large waves will impact coastal areas.

Discussion

There is good model agreement for Lekima to track northwestwards around the sub-tropical ridge through the next few days, with increasing confidence for a track just to the north of northern Taiwan. Confidence decreases as Lekima reaches the coast of east China but does look likely to affect Shanghai as it moves northwards through the weekend.



This forecast may be amended at any time

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Expected Impacts

Potential for destructive winds, flash flooding, landslides, coastal flooding and dangerous seas conditions along the typhoon track. The slow movement of this system across highly populated eastern China could result in significant impacts from flooding and landslides.

Typhoon Krosa (Western North Pacific)

Weather

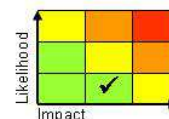
Krosa strengthened into a typhoon during Wednesday night, and was located 800 miles to the south of Tokyo on Thursday morning. The system will continue to strengthen and slowly track northwards through the next few days. Thereafter there is significant uncertainty in the track but there is a threat that this system may impact Japan early next week.

Discussion

Despite some model differences, there is high confidence for this system to develop into a strong, potentially strong typhoon under near ideal environmental conditions and track generally northward, but with significant uncertainty if there will be any impact on Japan.

Expected Impacts

Over the coming five days impacts from heavy rainfall, strong winds and large waves would be limited to the outlying islands of Japan around Iwo Jima. In around a week's time there are possible flooding and wind impacts for parts of mainland Japan.



The following area is being monitored for potential tropical cyclone development:

Eastern North Pacific

Weather

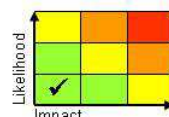
There is potential for a tropical cyclone development next week west of Central America, with the National Hurricane Centre showing a 50% probability over the next 5 days. However, any development will be well offshore.

Discussion

There is a good model signal for a tropical cyclone development west of Mexico next week, probably formed from an African Easterly Wave, and perhaps influenced by an MJO moving through the central Pacific.

Expected Impacts

Only impacts to marine transport due to any development remaining offshore.



Europe

Parts of continental Europe

Weather

Another couple of bouts of heavy showers and thunderstorms look likely across parts of continental Europe over the weekend and early next week. The peak activity is likely across the northern side of the Alps. Up to 50-75 mm of rain could fall in a few hours, with the potential for frequent lightning, large hail and strong winds too.

Discussion

A series of upper troughs are likely to run northeast across continental Europe during this period, engaging a warm plume across the continent, providing enough forcing to produce severe thunderstorms. Reasonable amounts of CAPE and wind shear together with high PWAT values will result in these storms producing frequent lightning, intense rainfall amounts and strong convective gusts.

Expected Impacts

Risk of flash flooding, disruption to transport and potential damage from lightning (e.g. leading to power outages). Disruptive winds may also impact transport and power/utilities.



North America

Nil.

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Central America and Caribbean

Nil.

South America**Uruguay and far south of Brazil****Weather**

Persistent, occasionally heavy rain is expected in this area over the next 36 hours before conditions improve over the weekend. 50-80mm of rain is likely over a large area with 130-150mm possible in the wettest parts.

Discussion

A slow-moving, well marked baroclinic zone already in-situ will be engaged by an upper trough extending across S America over the next 24 hours. This will see a sub-tropical depression forming which will help the longevity of rainfall across the area.

Expected Impacts

Flooding (flash and river) is possible along with an increased threat of landslides in mountainous areas.

**Africa**

Nil.

Middle East

Nil.

Asia

Japan, Korean Peninsula, Taiwan and eastern China – see *Tropical Cyclones* section.

Western and northern India along with southeast Pakistan**Weather**

Periods of widespread, intense showers and thunderstorms will affect this region, producing locally 200 to 300 mm of rain in a 24-hour period. There are some very large cities in this region that could see intense rainfall events. However, through the course of the next week the monsoon rains will tend to weaken across this region as the monsoon enters a 'break period' which will see much less widespread heavy rainfall in the region.

Discussion

The main driver behind the severe monsoon conditions through the last few weeks has been a series of monsoon low pressure systems. Another monsoon low pressure system will tack westwards across central/northern India through the next 3 days, bringing intense rainfall long the track of the system. This low pressure system will also maintain a strong southwesterly flow which will bring deep, moist convection into southwest India and western parts of Myanmar. Forecast profiles show deep skinny CAPE, with high precipitable water allowing these fairly frequent cells to produce large precipitation accumulations. Gujarat is experiencing a severe drought due to poor monsoon rains (76% of normal) in 2018 and a late start to the 2019 season. So the heavy rains from a monsoon low pressure system is likely to be welcomed in this region. There is consistent model evidence that this will be the last monsoon low pressure system for a while, allowing for a break period in the monsoon rains to develop across the region, extending from the east to the west through the next 5 days.

Expected Impacts

High likelihood of flash flooding in places and an increasing threat of river flooding. A significant likelihood of landslides in mountainous regions. Significant disruption to travel is likely, especially road and rail. Densely populated regions of India (including some large cities) are likely to be impacted this coming week.



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Southeast Myanmar, southern Cambodia and Thailand as well as northeast Philippines**Weather**

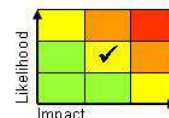
A steady stream of heavy showers/thunderstorms is expected to continue across this region over the 2 or 3 days. Daily rainfall totals of up to 250 mm are possible, with accumulations of up to 600 mm through the next 3 days in places. The rains will then ease from the weekend.

Discussion

Parts of Manila saw over 200 mm of rain in 24 hours last weekend, causing severe flooding in the city, with flooding also being reported in parts of Cambodia. A continued strong southwesterly monsoon flow over, in part due to tropical cyclone activity (Typhoon Lekima) to the north, will continue to bring enhanced showers/thunderstorms to this region through the next few days. Impacts could continue to be felt in Manila should the wind direction line up correctly. The movement away from the Philippines of Lekima will likely back and ease the flow, easing the rainfall across the region.

Expected Impacts

Flash flooding and landslides are probable. Manila will probably miss the worst of the impacts but there is a moderate probability of flooding here too.

**Australasia**

Nil.

Additional information

Nil.

Issued at: 080800 UTC **Meteorologist:** Paul Hutcheon / Chris Bulmer

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