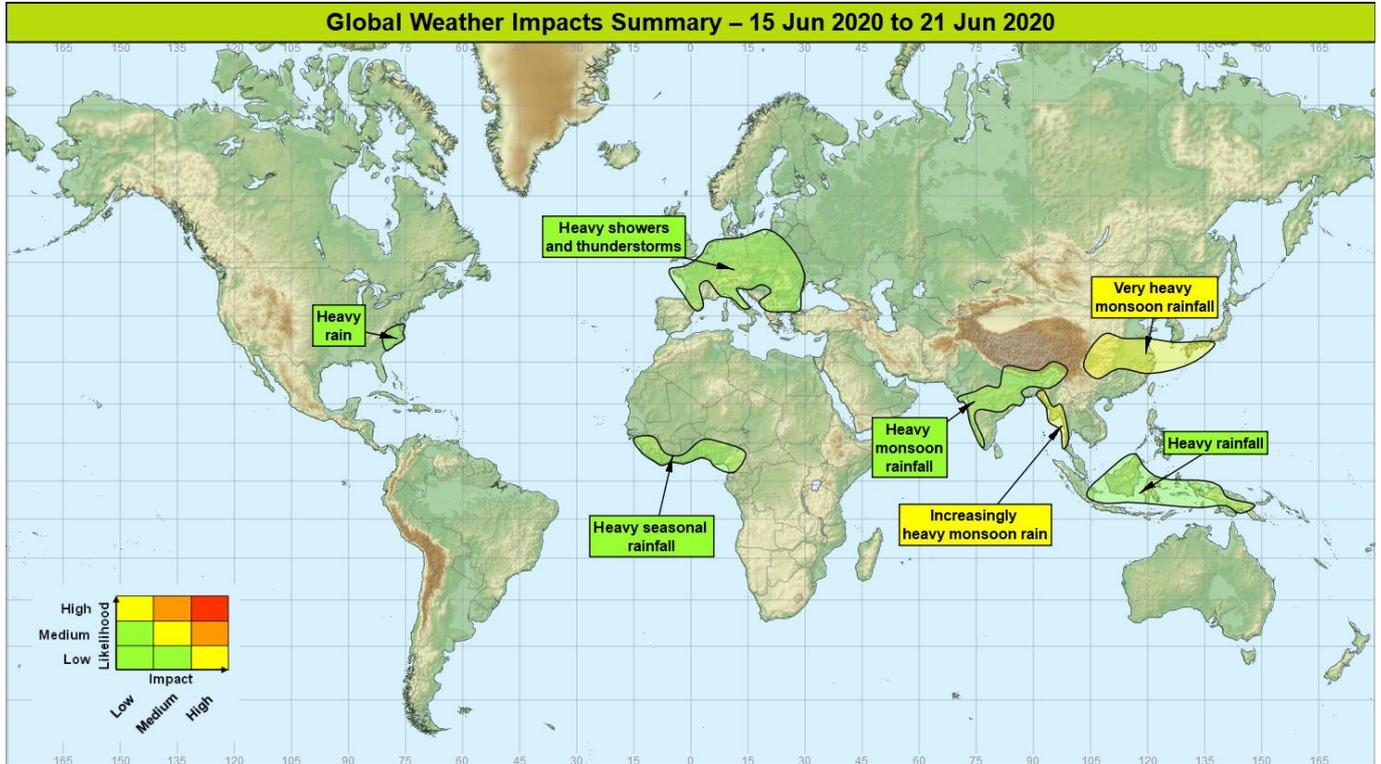


Global Weather Impacts – Monday 15th to Sunday 21st June 2020

Issued on Monday 15th June 2020

HEADLINES

- Very heavy monsoon rainfall for parts of South and East Asia.
- Heavy showers and severe thunderstorms expected over parts of continental Europe.



DISCUSSION

Tropical Cyclones

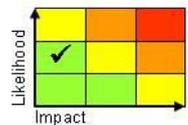
There are currently no active tropical cyclones and no areas are currently being monitored for potential development affecting land within the next seven days.

Europe

Parts of continental Europe Weather

Large parts of continental Europe will see heavy showers and thunderstorms through the next seven days. Some of these thunderstorms will be severe with intense rainfall (up to 50 mm in a few hours), large hail, frequent lightning and strong winds. Through the next week some places could see 150 mm of rain, which is around twice the average June rainfall. Some of the severe thunderstorms are likely to continue overnight, but the most widespread showers and thunderstorms will be during the daytime.

Discussion



This forecast may be amended at any time

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A complex, cyclonic upper pattern with several cut-off vortices will dominate across continental Europe through the next seven days. The areas of upper forcing will overlay some very warm lower-level plumes, producing a large CAPE environment for intense convection. There will also be significant enough vertical wind shear to produce MCS events at times. Due to the complex nature of the upper air evolution there is fairly low confidence in details, but high confidence that there will be some significant storm impacts – hence the low likelihood of a medium impact event.

Expected Impacts

Flash flooding events looks likely, with a risk of some hail and wind damage too. Lightning impacts on transport and power networks are possible.

North America

Eastern USA

Weather

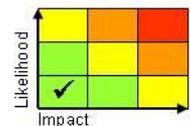
Spells of heavy rain and some thunderstorms are expected to develop for a time early this week, primarily affecting the Carolinas. Around 50-75 mm of rain could fall fairly widely daily, with up to 150 mm falling in total in a few locations by Wednesday.

Discussion

An upper trough is expected to extend southeast down the eastern seaboard, before disrupting and forming a cut-off upper vortex near the Appalachians. The vortex will interact with a stalled cold front and associated WBPT plume, generating pulses of heavy rain and some embedded thunderstorms. Deep layer moisture and skinny CAPE will promote high precipitation efficiency and some intense downpours (30-40 mm/hr) are likely.

Expected Impacts

Flash flooding increasingly likely into next week, possibly affecting the capital region.



Central America and Caribbean

Nil.

South America

Nil.

Africa

Southern parts of West Africa

Weather

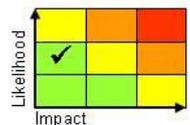
Heavy showers and thunderstorms are expected at times through the next week, likely coming in bursts of one to two day events. Each event could produce 50-75mm of rain, with total accumulations of up to 150mm possible through the next seven days. To the north of this area dense dust storms are likely at times from dry thunderstorms. Through June this coastal region usually sees 250-500mm of precipitation.

Discussion

A succession of Africa Easterly Waves are expected to affect this region through the next week, bringing periods of organised deep convection with much less widespread convection in between. Just to the north of the highlighted region, the convection is likely to produce strong dry downdraughts that will result in dense Haboob dust storms.

Expected Impacts

Flash flooding is likely, with an increased threat of landslides where terrain is steep.



Middle East

Nil.

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Asia

West, central and northeast India, northern Bangladesh, northern Myanmar and Bhutan

Weather

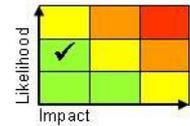
Another active pulse in the monsoon is signalled, with heavy rain and thunderstorms spreading more widely across this region as the monsoon progresses northwards. Rainfall across eastern and central India will be enhanced by a monsoon depression as it transfers from the Bay of Bengal westwards. Each day, there will be the potential for 100-150 mm of rain to fall in places. Up to 400mm of rain could fall in the next seven days, which could result in the average June rainfall falling in just a week in some places.

Discussion

The monsoon is expected to continue to progress northwards through the coming week, mainly due to the development of the first monsoon low pressure system, which will track west from the Bay of Bengal across central parts of India in the coming days.

Expected Impacts

Flash flooding and an increased threat of river flooding and landslides.



Western Myanmar and the far southeast of Bangladesh (including Cox's Bazar)

Weather

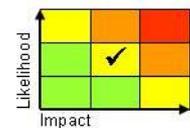
The monsoon heavy showers and thunderstorms are expected to become more frequent across this region early this week. Rainfall totals of locally up to 300 mm are possible by the middle of the week, which is around or slightly above the average weekly rainfall total at this time of year.

Discussion

A veering low-level flow is expected to generate more widespread deep convection and drive it onto the coastal fringe of Myanmar and southeastern Bangladesh during this week. The likelihood of impacts from this event has now been increased due to it extending into the Cox's Bazar area (more vulnerable) during this next week.

Expected Impacts

Increasing threat of flash flooding and landslides.



Southern and central China, western Japan and southern South Korea

Weather

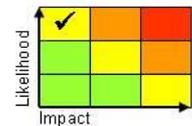
Heavy monsoon rainfall is expected across the region over the next seven days. Some places are likely to see 100-150mm per day in association with heavy and persistent rain across quite a wide area of this region. 300-500mm of rainfall is most likely in total across the wettest areas, which is above the average June rainfall in this region. There is also the potential for intense short period rainfall from thunderstorms.

Discussion

Ongoing monsoon southerly flow into this area will continue to enhance moisture and wind convergence associated with the seasonal Mei-yu/Baiu front, leading to episodes of heavy rain and thunderstorms. Whilst the upper flow is not especially conducive to large-scale development, a number of shortwaves embedded within the flow will continue to trigger rainfall across a similar area along the quasi-stationary front, leading to large rainfall accumulations. Over two million people are already severely impacted by flooding in parts of China.

Expected Impacts

Increased threat of further flash and fluvial flooding as well as landslides.



Indonesia, Malaysia and Papua New Guinea

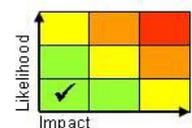
Weather

Above average rainfall will continue across this region in the form of heavy showers and thunderstorms. These will be capable of locally bringing 50 mm of precipitation in a short duration, with some locations likely to see 100-200 mm through the coming week. Average precipitation accumulations in June across this region are around 250 mm

Discussion

At least two Kelvin Waves that are currently active will cross this region through the coming days bringing eastward moving zones of enhanced shower and thunderstorm activity.

Expected Impacts



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An increased risk of flash flooding and landslides in regions where terrain is steep.

Australasia

Nil.

Additional Information

Cox's Bazar, southeast Bangladesh

See the *Western Myanmar and the far southeast of Bangladesh* section.

Western Yemen

Isolated showers and thunderstorms should be confined to the Western Highlands or the western part of the Gulf of Aden coastline through the next seven days, with these showers posing a very low likelihood of an isolated flash flood event.

Issued at: 150730 UTC **Meteorologist:** Laura Ellam / Matthew Lehnert

Global Guidance Unit

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