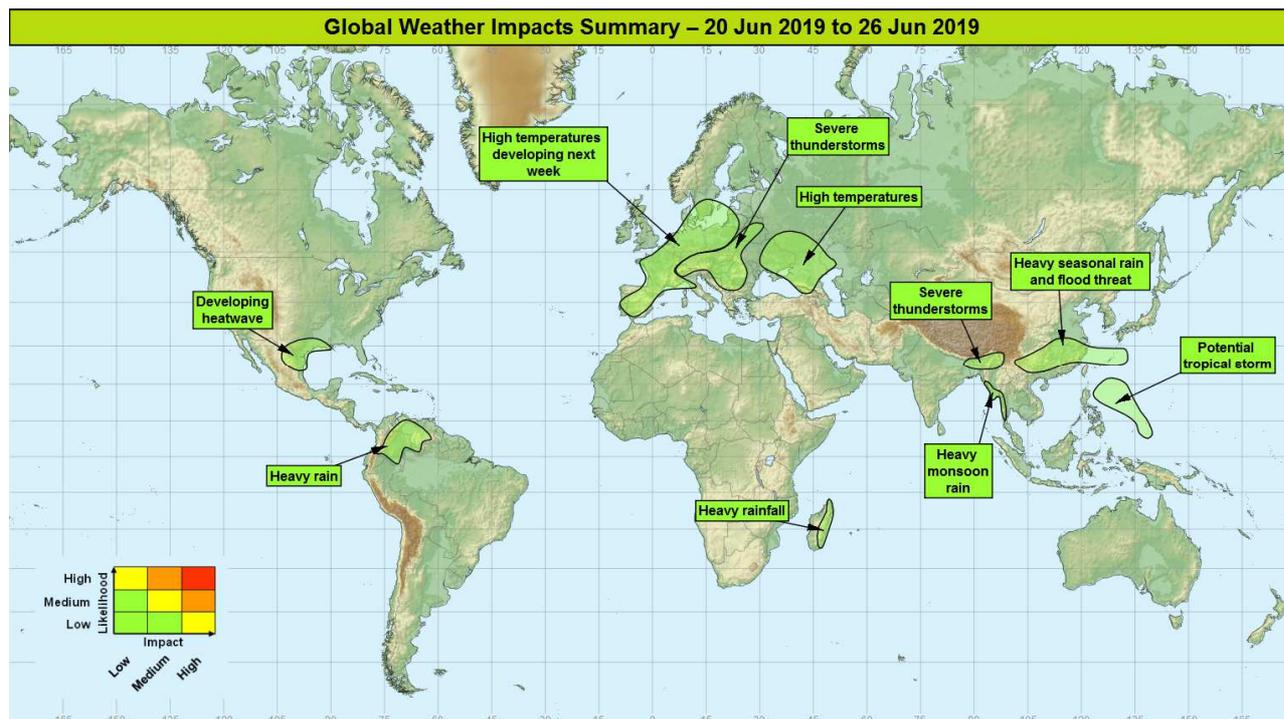


Global Weather Impacts – Thursday 20th to Wednesday 26th June 2019

Issued on Thursday 20th June 2019

HEADLINES

- High temperatures and severe thunderstorms across parts of Europe.
- Heavy monsoon rainfall is expected across western Myanmar and southern China.



DISCUSSION

Tropical Cyclones

No current tropical cyclones.

West Pacific Weather

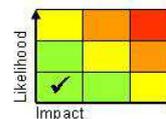
There is a growing signal for a tropical storm to develop in the West Pacific to the east of Palau over the next few days that then moves North-northwestwards. Most forecasts show this staying over open water, but there is a low probability that it could pass close to the N of the Philippines towards the middle of next week.

Discussion

The progression of the MJO into the W Pacific makes tropical storm formation more likely in this basin. In addition, an area of deep convection associated with an equatorial Rossby wave is moving into an environment conducive to tropical storm development with low wind shear and high SST.

Expected Impacts

Nil.



This forecast may be amended at any time

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Europe

Western Europe

Weather

High temperatures may develop across large parts of western Europe next week. Although there is still uncertainty in the forecast, it is looking increasingly likely that heatwaves may develop by Wednesday with some places seeing near record breaking June temperatures. In addition, the far west of the area may see severe thunderstorms developing from Monday onwards.

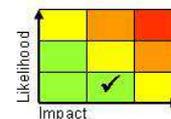
Discussion

Low pressure is expected to be located to the west of the UK which will act to draw high temperatures northwards across western Europe. However, there is uncertainty over the position of the low and the exact west-east position of the hot air. Along the western boundary there is the potential for severe convection with some models showing very high severe convection diagnostics. If this were to develop then some places could see extreme rainfall, large hail and tornadic storms.

Expected Impacts

High temperatures will bring heat health impacts to vulnerable populations and place strain on some utilities and transport networks (e.g. railways). In addition, some places may see strong winds which could lead to an increased threat of wildfires.

If severe convection does develop then extreme rainfall, lightning large hail and tornadic storms are all possible.



Southwest Russia, Ukraine, Georgia and western Kazakhstan

Weather

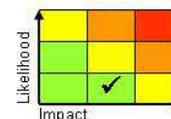
High temperatures are expected across the region over the next 4-5 days. Temperatures will increase to be up to 10C above average for June, and in some places could be close to breaking June records as daytime maxima approach 40°C.

Discussion

A broad northward extension of the hot air over Mesopotamia and Iran is expected to affect the far SE of Europe around the NW shores of the Caspian Sea and Black Sea over the rest of this week. While temperatures may approach June records in some areas, heat waves in July and August tend to be more severe with higher temperatures likely.

Expected Impacts

High temperatures are likely to impact vulnerable populations such as infants and the elderly. In addition, high temperatures can strain utilities such as water and power through increased demand.



Parts of central and southeastern Europe

Weather

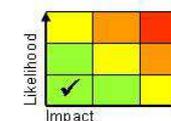
Although many parts of Europe will experience thunderstorms at times over the next 5-6 days, the area identified will see the most frequent severe thunderstorms. Although many places will only see 15-30mm of precipitation, some spot locations could see in excess of 75mm, with most of this likely to fall in a short space of time.

Discussion

With high WBPT air in place across much of central and southeast Europe, and various elements of upper forcing running across these regions, outbreaks of heavy, locally severe thunderstorms are likely through this region over the coming week. Given the combination of high precipitable water, and large CAPE, there is scope for significant rain/large hail.

Expected Impacts

Localised flash flooding along with power outages and disruption to the transport networks (especially aviation) is possible. Strong wind gusts and large hail are likely to cause localised disruption to transport and damage to crops, some buildings and vehicles.



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North America

Texas, Louisiana and northeast Mexico

Weather

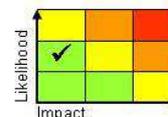
High temperatures will persist across this region for the next 4-5 days. Parts of Texas and northeast Mexico could see temperatures reach the mid-40s°C, threatening some locations maximum June temperature records.

Discussion

An upper ridge amplifies over this region over the next few days, with a marked heat low forming over the southern Rockies in response to strong insolation. Trajectories show warm advection bringing air northwards from central Mexico, but also air descending from 400hPa to the boundary layer over the coming few days. This method of adiabatic heating of the descending air has been shown to be a major source of heat in several record breaking heat waves in recent years.

Expected Impacts

Heat stress is likely to adversely affect vulnerable and exposed people with no access to air conditioning. Additional impacts are likely for livestock and crops in the region.



Central America and Caribbean

Northeast Mexico: See North America section.

South America

Colombia and Venezuela

Weather

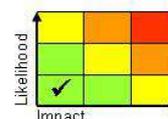
Heavy rainfall is expected across central Colombia and Venezuela over the next 4 days, with the highest rainfall totals most likely over east facing slopes of the Andes mountains in Colombia where 80-100mm per day is possible.

Discussion

The ITCZ remains active with a series of African Easterly Waves helping to maintain activity along it over the next 4 days before a decrease in activity is expected. The Andes will likely aid lift, resulting in orographically focused rain totals.

Expected Impacts

Further flash flooding and landslides are likely in this region. There is also the potential for river flooding along tributaries of the Rio Negra and Orinoco.



Africa

Eastern Madagascar

Weather

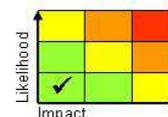
Heavy rainfall will affect parts of eastern and southeastern Madagascar for the next 2 or 3 days. 50-100mm of precipitation is likely to fall widely, with in excess of 250mm falling in the mountains.

Discussion

A slow moving cut-off upper vortex will engage the high WBPT plume across the island leading to outbreaks of heavy rain and severe thunderstorms over the next few days before clearing away eastwards.

Expected Impacts

Localised flash flooding is possible along with an increased risk of landslides in mountainous areas.



Middle East

Nil.

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Asia

North Bangladesh, far north-east India.

Weather

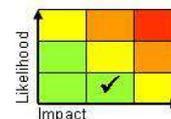
Thunderstorms with torrential rain and strong gusty winds will affect the region over the next several days, before activity slowly eases down to less severe levels. Many areas will see around 50mm per day, but up to 150 mm is possible in the heaviest rain. Localised accumulations of 250-300 mm are possible in total.

Discussion

Regular diurnal destabilisation of the very warm, moist and unstable air mass over this region will produce severe thunderstorms, organised at times by cyclonicity aloft and upscale growth. Very large precipitable water and very tall, skinny CAPE will result in torrential downpours; low level shear evident in forecast profiles also favours the risk of tornadoes with potential for wind damage associated with this.

Expected Impacts

Flash flooding and localised damage of property/infrastructure and transport links are possible.



Southern China, and outlying southern Japanese Islands

Weather

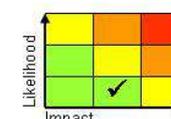
Further torrential rain and severe thunderstorms will affect parts of southern China over the next 4-5 days. 300-400 mm of rain could fall in places within a few days and there is also the potential for severe thunderstorms that could produce hail and strong winds.

Discussion

Strong convergence along the Mei-yu front and heating of the high terrain in the moist air to its south will continue to produce heavy rain in the form of showers and thunderstorms. Although shear is fairly modest for mid-latitudes, in the tropics this is sufficient for MCS development.

Expected Impacts

Both fluvial and flash flooding is possible within the central and lower Yangtze River basin, with an additional risk of landslides in mountainous areas. Disruption to transport and infrastructure is also likely in what is a densely populated area.



Western Myanmar

Weather

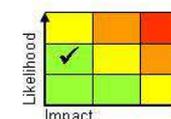
Further frequent intense showers and thunderstorms are expected over the next 24hrs, followed by a break in the southwest monsoon rains. Around 50-75mm is possible across the region today.

Discussion

Heavy rain associated with the SW monsoon may decrease over the weekend and into next week as the MJO continues E leading to a break period in the monsoon.

Expected Impacts

Flash flooding along with an increased risk of landslides.



Australasia

Nil.

Additional information

Nil.

Issued at: 200715 UTC **Meteorologists** Neil Armstrong / Chris Tubbs

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