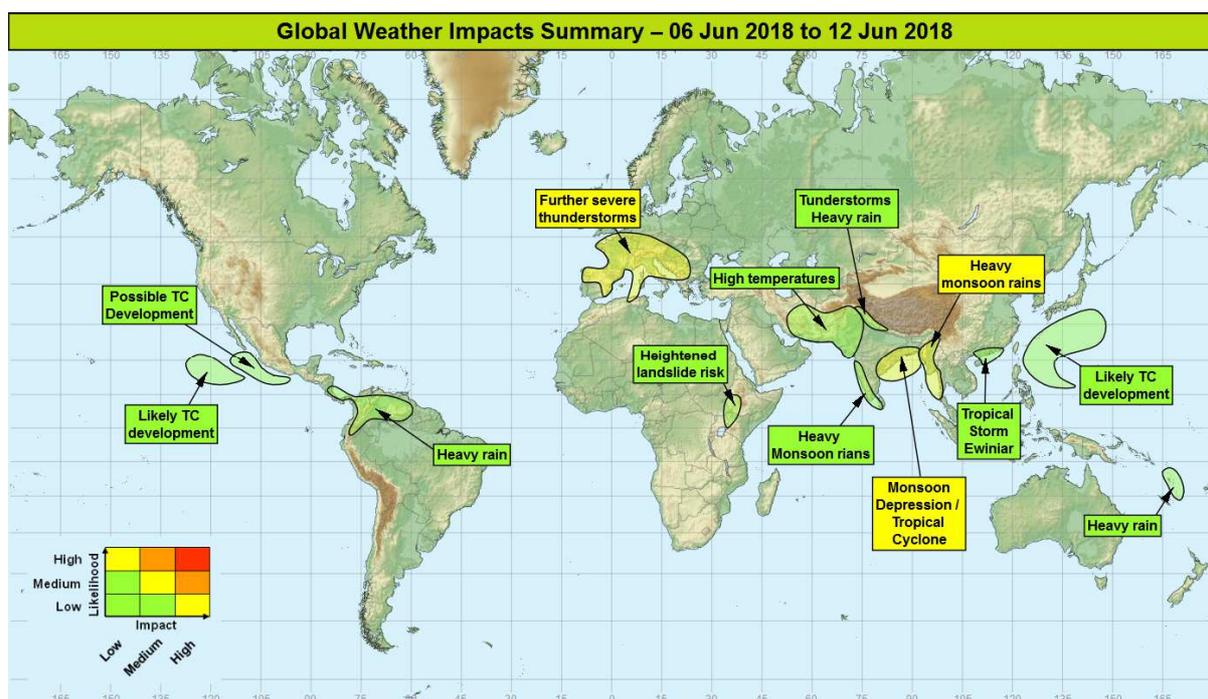


Global Weather Impacts – Wednesday 6th to Tuesday 12th June 2018

Issued on Wednesday 6th June 2018

HEADLINES

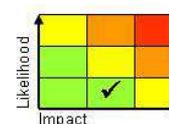
- Severe thunderstorms affecting much of Europe and parts of Northern Africa.
- Heavy monsoon rains for parts of India, Myanmar and southern Bangladesh (including Cox's Bazar).
- Potentially formation of a Tropical Cyclone in the Bay of Bengal this weekend, possibly enhancing rainfall across Cox's Bazar even further.
- A heat wave continues across Pakistan and adjacent countries.



DISCUSSION

Tropical Cyclones

Tropical Storm Ewiniar – The Japan Meteorology Agency named TS Ewiniar at 06/0115 UTC. At that time it was centred at 20.7°N and 110.7°E with the movement indicated as slow. The official track suggests the system will remain almost stationary and of similar intensity for the next 48 hours before weakening into a Tropical Depression in situ. However studying model output shows a huge spread in possibly tracks and intensity changes, ranging from slow moving (as per the official track), to a landfall of the system across southern China to the west of Hong Kong, in addition a significant minority of solutions allowing the system move east in to the South China Sea and re-develop in this region over the weekend.



The main impacts are likely to come from heavy rainfall, with some places likely to see 250-500mm of rain across this area through the next few days, this could lead to flash floods, including across Hong Kong. The storm is likely to disrupt flight routing in the busy aviation corridor, including traffic between Europe and Hong Kong.

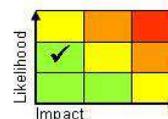
There are currently no further Tropical Cyclones, however the following locations are being monitored for possible development:

Philippine Sea – What was previously diagnosed as are two potential areas of tropical storm genesis in the West Pacific, have now been merged into one labelled invest 90W

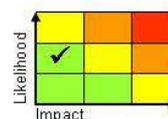
This forecast may be amended at any time

(just to the east of the Philippines). This area will move northwards towards the far south of Japan and likely develop into a Typhoon over the next few days, before curling away to the northeast (into the open Pacific) as it meets the westerly mid-latitude flow.

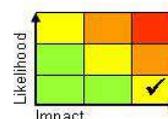
The corridor of heaviest precipitation will remain mostly over the open ocean; however enhanced precipitation from the system will likely affect the eastern Philippines, and eventually the extreme southeast coastline of Japan over the coming weekend.



E Pacific – There is the potential for two tropical storms to develop in this region over the next 5 days. The National Hurricane Center gives the westernmost system a 100% chance of developing into a named storm over the next 5 days, and they give the eastern system a 60% chance of developing into a named storm over the next 5 days. If tropical storms do develop, they will remain offshore and move west-northwestwards with little impact.



E India, S Bangladesh and NW Myanmar – A monsoon trough or depression that is currently forming over Eastern India is forecast to move eastwards and emerge over the Bay of Bengal on Friday. This system will emerge into an area where conditions are favourable for development (sea surface temperatures >30°C, low vertical wind shear, horizontal cyclonic vorticity at mid levels), and as it tracks slowly NE towards the Bangladesh Coastline some development of this system is likely to occur, with a low risk of a named cyclone developing.

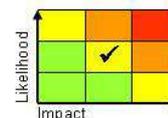


Regardless of development heavy rainfall is likely across portions of E India, and then heavy rainfall occurring in the strong south-westerly low level winds that will reach NW Myanmar and S Bangladesh over the coming weekend. This could be the first taste of heavy monsoon like rainfall reaching the huge Cox's Bazar refugee camp in SE Bangladesh this year.

If development does occur the slow moving nature of the storm is likely to bring rough seas to the northern portion of the Bay of Bengal, with strong winds on the storms southern flank possibly causing some coastal flooding in low lying parts of Myanmar and Bangladesh.

Europe

Much of continental Europe plus Northern Algeria and Tunisia – Further severe thunderstorms and MCS developments are expected throughout the next week within the high WBPT plumes. The first plume, which has been responsible for huge MCS storms, flash flooding and large hail with the focus likely to be across France on Wednesday. 40-60mm of rain could fall in a few hours with a risk of further flash flooding if this occurs over urban areas. Impacts are also likely at airports and across the airspace due to the longevity and slow moving nature of these storms.

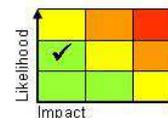


North America

Nil

Central America and Caribbean

Nicaragua, Costa Rica, Panama – See South America section.



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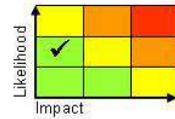
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South America

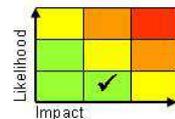
Ecuador, Colombia, Venezuela, Guyana, N Brazil and parts of Central America – The South American Monsoon rainfall remains active (up to 200mm in the next 7 days) from the Amazon northwards through much of next week, enhanced by African Easterly Waves.

This follows a spell of above average rainfall in the last few months, and as such further heavy rain make severe flash flooding and landslides more likely.



Africa

Ethiopia and NW Kenya – Over 30 people in the Oromia region of Ethiopia died in a landslide that was triggered by heavy rainfall around a week ago, after a very wet past few months. The outlook for the coming week is for more heavy showers and thunderstorms across central and western Ethiopia along with NW Kenya, and so the flood / landslide risk continues to be heightened compared to normal.



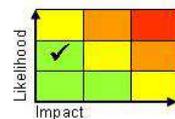
Northern Algeria and Tunisia – See Europe section.

Middle East

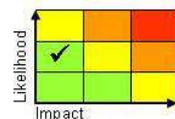
Iran – see Asia section.

Asia

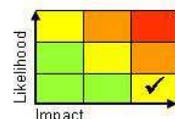
Much of Pakistan, Afghanistan, NW India and Iran – High temperatures will continue across this region during the next week, with temperatures around 5-10 Celsius above average. On Tuesday, Sibi in Central Pakistan recorded a maximum temperature of 50.1°C, with many other locations across Pakistan and Northwest India exceeding 48°C. While the pre-monsoon is expected to continue across much of this region, NW India may see some respite over the weekend.



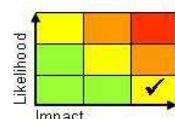
Northern Pakistan, western Nepal and northern India – There is the potential for further severe thunderstorms to develop in this region over the next 5-6 days as very warm air ascends over the foothills of the Himalayas. Up to 100mm of rain could fall in a short time, increasing the risk of flash flooding, along with landslides. Large hail is possible, as are strong winds which could lift dense dust storms such as the one which resulted in 17 people dead in Uttar Pradesh on Friday.



Myanmar, eastern Bangladesh (including Cox's Bazar) and NE India – The monsoon has recently been declared by Indian Meteorological Department (IMD) across the far south of Bangladesh. As mentioned in the Tropical Cyclones section later this week there is the potential for a monsoon depression (or perhaps a tropical storm) to develop in the northern Bay of Bengal. The main impact will be to strengthen the monsoon flow across this region which leads to the potential for a spell of intense rainfall across Myanmar and the far south of Bangladesh over the weekend, with up to 300mm possible. Cox's Bazar humanitarian camp is especially vulnerable to fairly modest amounts of rainfall, with a risk of heavy monsoon rains starting the process of increasing the landslide risk in this hilly area, with the potential for loss of life.



NE India, S Bangladesh and NW Myanmar – See Tropical Cyclones section

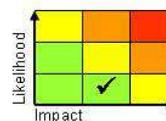


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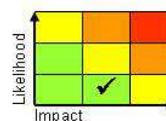
SW India, SW Sri Lanka – The Indian Summer Monsoon has been officially declared in Kerala and Karnataka a few days before climatological onset date, with a very active commencement. Further heavy rainfall is expected to affect southern India and SW Sri Lanka over the coming week. Up to 1000mm of rain is likely in parts of SW India, with Sri Lanka (already badly affected by pre-monsoonal storms and landslides) likely to see a further 250mm rainfall.



Southern China and the Philippines – See Tropical cyclones section.

Australasia

Vanuatu & Fiji – An upper trough is expected to engage a cold front over these islands from Wednesday and is likely to result in heavy rainfall, although there remains some uncertainty in the exact location of the heaviest accumulations. It is possible that some parts of Vanuatu could see 200-300mm over 3-4 days. This will enhance the risk of flooding in an area still recovering from TC Hola in March this year.



Additional Information

Fuego Volcano, Guatemala – Following the recent eruption of the volcano there are currently ongoing international search & rescue and recovery operations in the region. Ash and debris falls from the eruption will potentially form deadly “mud type” flows if mobilised by heavy precipitation and pose a further threat to life. Over the coming week heavy showers and thunderstorms are likely to impact the region, with 10-25mm of precipitation falling in a short space of time and possibly 100-200mm of precipitation falling over the following week (this is fairly typical for the region).

Formula 1, Montreal Grand Prix, Canada Thursday 7th to Sunday 10th June – Conditions look excellent throughout the practice, qualifying and race days with good spells of sunshine, dry conditions, light winds and maximum temperatures reaching around 21°C.

Issued at: 060505 Z **Meteorologist:** Nick Silkstone

Global Guidance Unit