

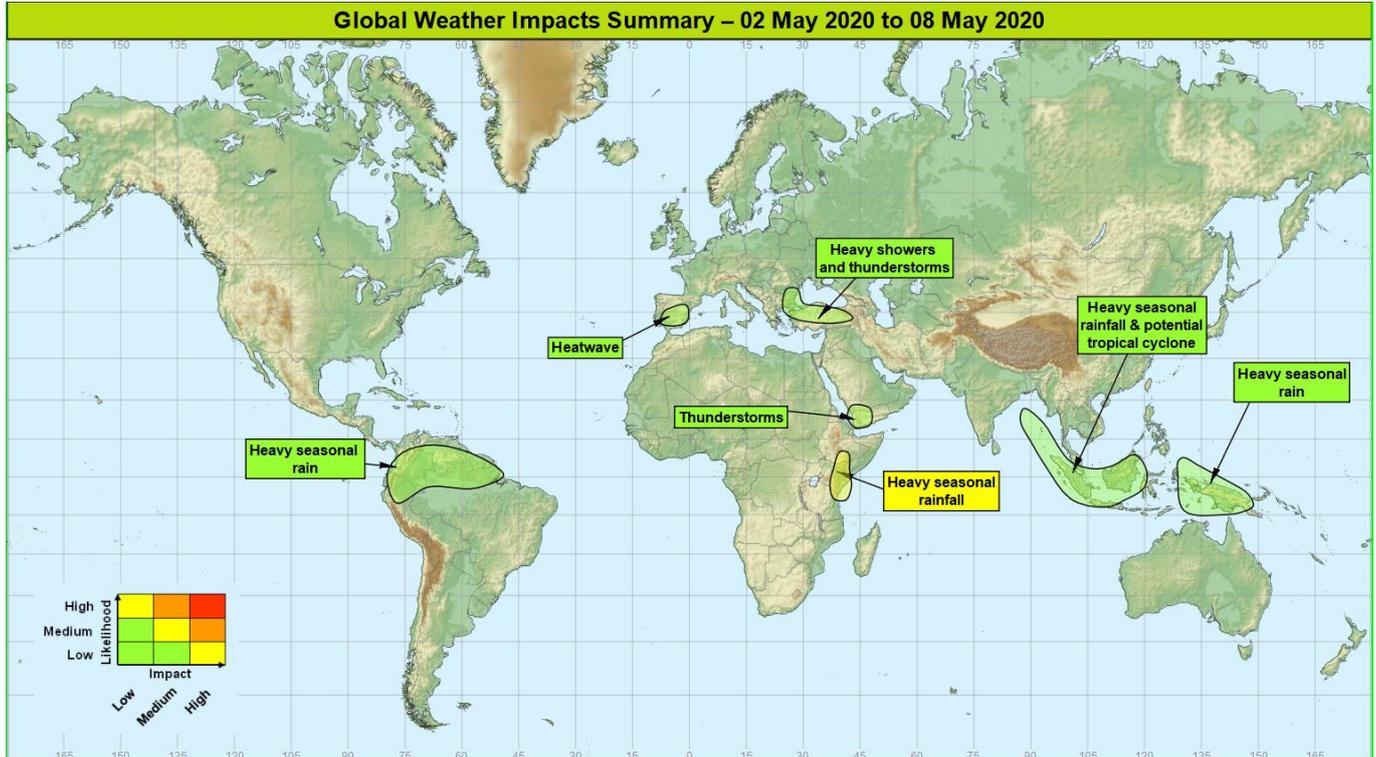
## Global Weather Impacts – Friday 1<sup>st</sup> to Thursday 7<sup>th</sup> May 2020

Issued on Friday 1<sup>st</sup> May 2020

### HEADLINES

- Heavy seasonal rainfall continues across parts of eastern Africa, exacerbating ongoing flooding.
- Low risk of a tropical cyclone developing in the Bay of Bengal later in the period.

### DISCUSSION

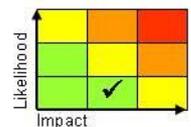


### Tropical Cyclones

There are currently no active tropical cyclones yet. The following area is being monitored for possible development:

#### Bay of Bengal Weather

There is a low (though slightly higher than yesterday) likelihood of tropical cyclone development across the eastern Bay of Bengal. Should a tropical cyclone form the greatest risk is early next week in the vicinity of the Andaman and Nicobar Islands (i.e. mostly over the sea). Irrespective of development, well above average rainfall is expected to affect the highlighted region.



#### Discussion

With the MJO now in the Maritime Continent, there is an increased likelihood that it will spawn a Rossby wave couplet in its wake. The combination of a developing low shear environment and warm SSTs would support tropical cyclone development next week although the signal from NWP for a depression of tropical cyclone strength remains mixed. ECMWF has more of a feature than GM which has little sign, but MOGREPS-G now has a >20% chance so the probability is now upped a little to 30%. The Indian Met Service have issued guidance for: “..formation of a Low Pressure Area over south Andaman Sea & neighbourhood during next 24 hours”

#### Expected Impacts

This forecast may be amended at any time

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Should a tropical cyclone develop, strong winds could cause damage to property and infrastructure, as well as lead to large waves and coastal flooding. Heavy rain would likely cause some surface water and riverine flooding.

### **Europe & Turkey**

#### **Romania, Bulgaria and Turkey**

##### **Weather**

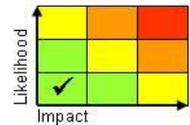
Whilst scattered daily heavy showers and thunderstorms are fairly typical at this time of year, there are signs that thunderstorms could become heavier and more organised, especially around the start/middle of next week. This could result in torrential downpours of rain with 50-75mm falling within a few hours in places, and perhaps in excess of 100mm overall. Lightning and strong gusts of wind are also potential hazards.

##### **Discussion**

A large upper-trough will end up over the area by next week. The amplitude of an upper trough remains uncertain but this brings an increased chance of severe, depth convection developing in response to diabatic heating. Moderate to high vertical wind shear in GM profiles suggests the potential for organisation and upscaling. In addition, tall, skinny CAPE would favour torrential downpours.

##### **Expected Impacts**

Low risk of flash flooding in a few places. Potential impacts on transport.



### **Spain**

##### **Weather**

Temperatures will rise this weekend, becoming very warm for the time of year with temperatures around or a little above the mid-30s Celsius. Peak temperatures are likely on Monday, before returning to more normal values later next week.

##### **Discussion**

Southerly winds will drag some very warm air northwards from northwest Africa later this weekend. Temperatures peaking on Monday, before the wind direction changes, ushering in more seasonal values by the end of next week.

##### **Expected Impacts**

Although not a sustained period of heat, these above average temperature may temporarily further impact on the health of the local population and put a strain on utilities.

### **North America**

Nil.

### **Central America**

Nil.

### **South America**

#### **Northern Brazil, French Guiana, Surinam, Guyana, Venezuela, northern Colombia and Ecuador**

##### **Weather**

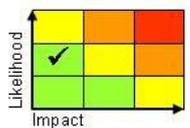
Rainfall will continue to be heavier and more widespread than usual for the time of year across the northern Andes and much of the north of the South American continent. Generally 100-150mm of rain will fall widely, with locally precipitation accumulations exceeding 300-400mm. The highest rainfall accumulations are expected to be west of the Andes where population densities are generally lower.

##### **Discussion**

As has been the case for several months, the ITCZ is expected to remain south-shifted and active over the next week or so, feeding further heavy rainfall into the region.

##### **Expected Impacts**

Further isolated flash flood and landslides likely within the mountainous terrain of the region.



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## Africa

### Kenya, Ethiopia, Uganda and Tanzania

#### **Weather**

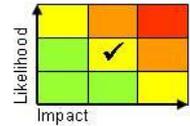
Following a recently exceptionally active period in the Long Rains season, there continues to be a trend for rainfall returning back to nearer normal. However, daily heavy showers and thunderstorms will still develop. Locally 50-100mm of rain may still fall in places each day (often within a few hours). Through the next 5 or 6 days the Kenyan and Ethiopian Highlands along with coastal fringes of both Tanzania and Kenya will be wettest with 100-150 mm building up widely in these areas, and a few locations could see around 200 mm in this period.

#### **Discussion**

Above-average SSTs in the western Indian Ocean will maintain enhanced convection across the region, although this is not expected to be as heavy or as widespread as recently now the MJO has moved further east into phase 3 (Maritime continent), and this downward trend is expected to continue.

#### **Expected Impacts**

An ongoing enhanced risk of both flash flooding and some riverine flooding is likely, with the additional risk of landslides in mountainous terrain, e.g. in the Kenyan Highlands. Due to recent and ongoing flooding these areas will be particularly sensitive to further heavy rainfall.



## Middle East

### Turkey

See Europe section (Turkey)

### Yemen

#### **Weather**

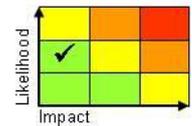
Heavy, thundery showers are not unusual in Yemen at this time of year, especially in the more mountainous regions. However over the next week daily totals of 25-50mm may add up to 100-150mm over the next week or so. Given the flooding that has occurred in this country this spring, this may well lead to further disruption.

#### **Discussion**

High WBPT and PWAT values and strong insolation now will allow daily thunderstorms to develop over the high ground of Yemen especially. Given that these thunderstorms develop daily in similar regions, totals may well build up substantially over the next week or so.

#### **Expected Impacts**

Flash flooding, landslides in the steep terrain, transport disruption.



## Asia

### Southern Myanmar, Malaysia, Singapore, Indonesia, Papua New Guinea and Philippines

#### **Weather**

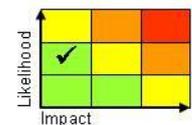
Shower and thunderstorm activity is expected to be more frequent than usual over the next week. The heaviest rainfall is expected to fall along the western Sumatra coast as well as southern Papua New Guinea where between 300-400 mm of rain could fall by the middle of next week.

#### **Discussion**

An active phase of the MJO is expected to transfer from the eastern Indian Ocean and into the Maritime Continent over the next week, driving an increase in deep convection across the region.

#### **Expected Impacts**

Flash flooding causing damage to property and infrastructure, as well as an increased likelihood of landslides in more mountainous areas.



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**Bay of Bengal****Weather**

See Tropical Storm section at top.

**Discussion**

See Tropical Storm section at top.

**Expected Impacts**

See Tropical Storm section at top.

**Australasia**

Nil.

**Additional Information:**

Nil.

**Issued at:** 010800 UTC

**Meteorologists:** Chris Tubbs / Chris Almond

**Global Guidance Unit**

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