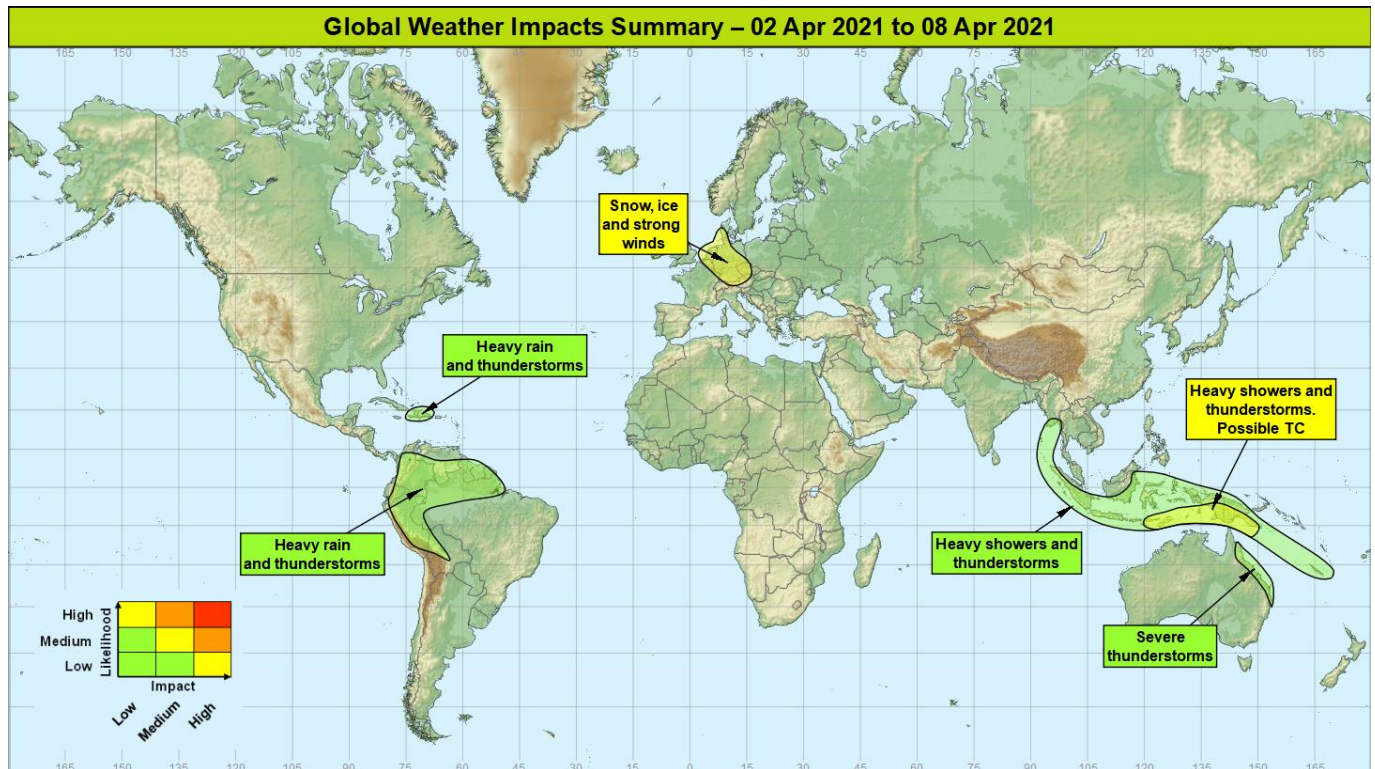


Global Weather Impacts – Friday 2nd April 2021 to Thursday 8th April 2021

Issued on Friday 2nd April 2021

HEADLINES

- Cold plunge affecting many north-west European countries early next week.
- Widespread heavy showers affecting Indonesia and Timor-Leste, possible TC over the weekend.



DISCUSSION

Tropical Cyclones

There are no named storms at present. However, the following area is being monitored for potential development:

Indonesian islands around Flores, Sumba, Roti, and Timor-Leste.

Weather

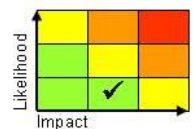
A tropical depression over or just to the south of these islands shows increasing signals of development into a modest tropical cyclone over the weekend. Regardless of development, this area will be associated with enhanced rainfall, which is covered in the Asia section. Models then indicate this system, should it develop, will head southwest over open water early next week.

Discussion

An area of enhanced convection associated with an equatorial Rossby Wave will find itself in increasingly favourable conditions for organisation in the wake of the MJO which is passing across the region. There is a fairly strong signal now in MOGREPS, and some deterministic output, for this system to organise into a tropical cyclone close to Roti/East Timor before heading southwestwards on the northern periphery of a strong sub-tropical ridge.

Expected Impacts

The main impact is likely to be flooding associated with heavy rainfall, although this embedded within a broader region of activity covered in the Asia section.



This forecast may be amended at any time

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**Europe****The Low Countries, France, Germany, Denmark, Austria, Czech Republic****Weather**

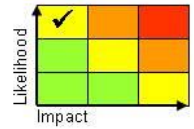
A cold plunge is expected to spread south across a large portion of northwest Europe (including UK, see Met Office forecasts for details) later this weekend, with frequent hail, sleet and snow showers driving inland across the highlighted region from Monday accompanied by a strong to gale force wind. Conditions will slowly moderate through mid-week.

Discussion

A significant pattern amplification expected to take place over the northern Atlantic this weekend will result in a marked trough extension across this region, and the rapid southward translation of a cold Am air mass with 1000-500hPa thickness below 515dam at times. This is expected to bring frequent snow showers to low levels, mainly coastal areas and some distance inland overnight, but more widely during the day with widespread diurnal convection developing. Accumulating snow is likely overnight, whilst any partially melted snow/sleet/hail may turn to ice, especially higher ground but also in areas significantly sheltered from the wind. The wind is likely to cause rough seas and locally dangerous coastal conditions.

Expected Impacts

Some disruption to road, rail, and particularly maritime transportation is likely. Major hub airports such as Schiphol could be affected by snow. Significant wind chill is likely to pose a risk to agriculture, both animals and crops, and vulnerable human demographics.

**North America**

Nil.

Central America and Caribbean**Dominican Republic and Haiti****Weather**

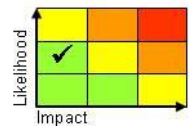
Outbreaks of heavy rain will affect these islands from Saturday until Monday or Tuesday next week. Daily rainfall totals of 20-40mm are possible, potentially with 50-80mm at some sites on higher ground. Through the course of the weekend totals could reach 100-150mm in a few places – the average monthly rainfall in April is 100-120mm.

Discussion

A cold front moving southeastwards from the USA in the coming days will reach this part of the Caribbean by the weekend. A ridge building to the north and a push of tropical air from the south will cause the front to become slow moving across the area before it weakens early next week.

Expected Impacts

Increased likelihood of flash flooding, and isolated landslides in areas of steeper terrain.

**South America****Colombia, Ecuador, Peru, Bolivia, Guyana, Suriname, French Guiana, northwest Brazil and southern Venezuela****Weather**

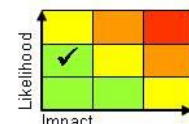
Very wet weather across this region over the past week will continue over the next seven days. Rainfall will vary from location to location, although some places could see 100-150mm in just a 24 hour period. Average rainfall for April is typically around 150-250mm.

Discussion

Recent rainfall across much of the highlighted region has been above average. An enhanced northeasterly flow through the southern Caribbean over warmer SSTs compared to average is bringing a warm and moist flow across the area. This is fuelling the ITCZ and SAMS, with a favourable upper pattern and orographic forcing all helping to drive enhanced convective activity. An uptick in activity along the Atlantic ITCZ is also signalled.

Expected Impacts

Flash flooding and landslides.



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Africa

Nil.

Middle East

Nil.

Asia

Indonesia, Myanmar, Timor-Leste, Papua New Guinea, New Caledonia

Weather

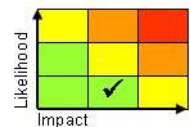
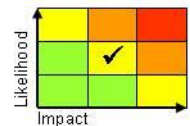
Enhanced shower and thunderstorm activity is expected quite widely across this region through the coming week. Whilst rainfall amounts will vary considerably from place to place, there is the potential for localised accumulations of 100-150mm to develop within a 24 hour period. Average rainfall for the whole of March is typically 200-300mm across this region (very broadly). Within the Yellow area there is the potential for 400-500mm in this period, with increased impacts possible as a result. The area potentially associated with tropical cyclogenesis (see Tropical Cyclone section) could see in excess of 1000mm, although this most likely to fall over the sea, with only a small prob of these totals being achieved over land.

Discussion

A train of equatorial Rossby Waves are leading to an enhancement of the usual convective activity in this part of the world with an active ITCZ also in situ. One such feature, close to Timor-Leste, may develop into a tropical cyclone over the weekend. The MJO, now on the cusp of Phase 5, is also helping to drive the widespread nature of the enhanced convection.

Expected Impacts

Flash flooding and landslides, more likely in the yellow area



Taiwan - See additional comments section.

Australasia

Northeast Australia

Weather

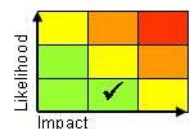
Heavy showers and thunderstorms are expected to develop along the coastal regions of Northern Queensland during the course of this week, fairly well scattered at first and generally confined to the far northeast. By the weekend, these will become heavier and more frequent and will slowly spread south down the coast early next week. 50-100mm of rain is possible per day, often in a short period of time, with 150-250mm accumulating in some places by the end of the period. This will predominately be to the north of area affected by heavy rain and flooding last week although southern Queensland could be at risk next week.

Discussion

An upper cold pool becomes slow-moving over Queensland over the weekend, combined with enhanced southeasterly surface wind, this will help to strengthen the South Pacific tropical convergence zone, bringing a much increased frequency of showers and thunderstorms across this area.

Expected Impacts

Flash and riverine flooding.



Papua New Guinea and New Caledonia - See Asia Section.

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Additional Information**Taiwan**

Taiwan is experiencing its worst drought for over 50 years with reports that reservoirs in the central region are dropping to dangerously low levels. This is impacting industry, including semiconductor manufacturing. Showers over the coming week are possible but will not be enough to ease the problems. Seasonal rains are due to return to the region in May.

Issued at: 020830UTC**Meteorologist:** D J Harris / Chris Almond**Global Guidance Unit**

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