

# Asia: Monthly Climate Outlook March to December

**Issued: June 2025**

[Overview](#)

[Current Status](#)

[Outlooks](#)

[Annex 1 – Supplemental Information](#)

# Overview

[Asia Current Status and Outlook – Temperature](#)

[Asia Current Status and Outlook – Rainfall](#)

[Global Outlook – Temperature](#)

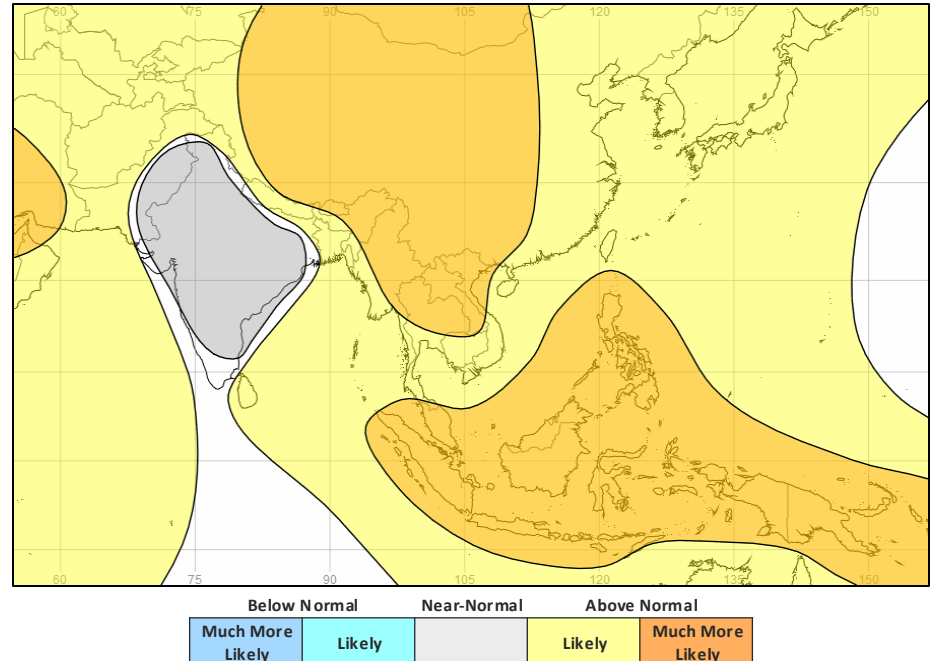
[Global Outlook – Rainfall](#)

# Asia Current Status and Outlook - Temperature

**Current Status:** Southern Vietnam experienced below normal temperatures over the last three months. Temperatures were also below normal across India during May. Otherwise, above normal temperatures were experienced for most other areas.

**Outlook:** Warmer than normal conditions are likely across most the continent. The main exception is across India and Pakistan where there is an increased likelihood of near normal temperatures.

3-Month Outlook July to September - Temperature



# Asia Current Status and Outlook - Rainfall

**Current Status:** Many parts of Indonesia, Papua New Guinea and Timor Leste were wet or very wet over the past three months, while conditions were more mixed over the rest of South and East Asia. Central Asia climatologically has a peak in precipitation during March. Here conditions were mixed although Afghanistan was very dry during April.

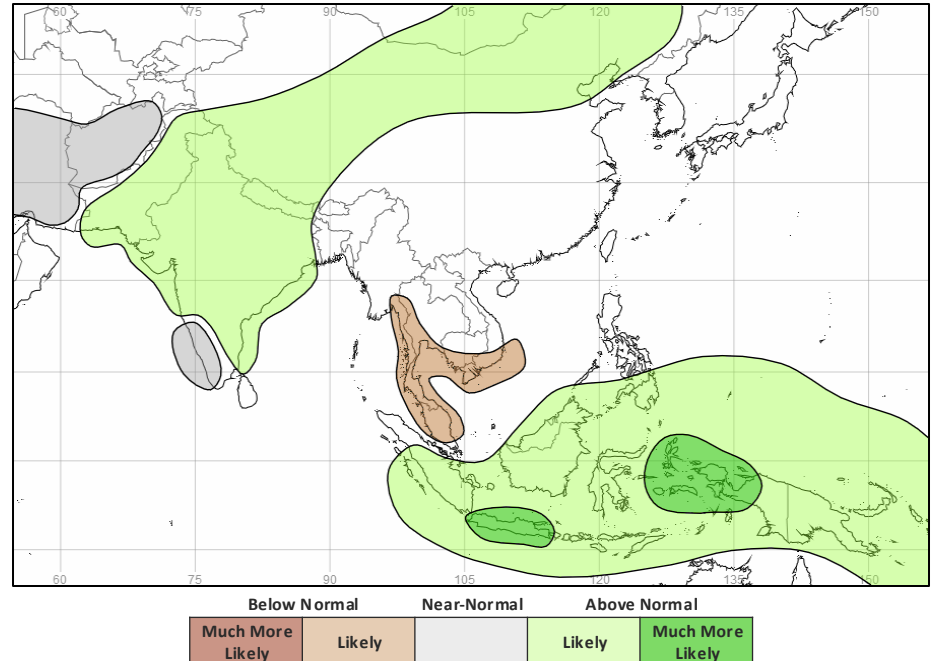
**Outlook:** This is the peak season for heavy rainfall during the South Asian monsoon. For India and Pakistan, wetter than normal conditions are most likely. However, for other regions of the sub-continent predictions are more finely balanced, with even a shift towards drier than normal conditions across parts of Myanmar. Forecasts are more uncertain for the East Asian monsoon, aside from central and northeast China, along with parts of Tibet, where wetter than normal conditions are more likely. Elsewhere, wetter than normal more likely across Indonesia; however, for southern Vietnam, there is an increased likelihood of drier than normal conditions.

## Tropical cyclones

**North Indian Ocean:** Activity tends to peak during May and June before another increase in activity later in the year – associated with the advance and retreat of the South Asian monsoon.

**Northwest Pacific:** Tropical cyclones can form throughout the year in this basin though activity tends to peak between July and October. Latest forecasts suggest near normal activity over the coming months. Storms are more likely to develop in the Philippines and South China Seas than out in the Pacific.

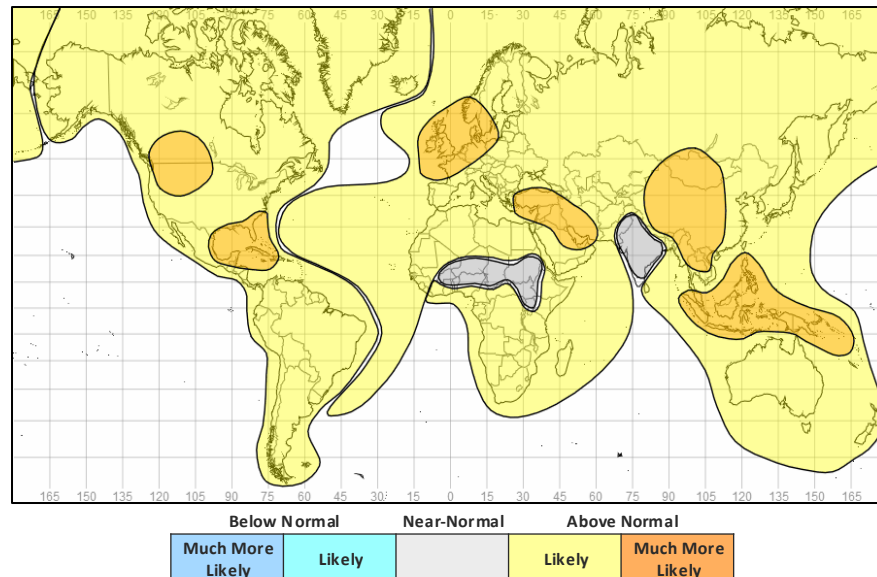
3-Month Outlook July to September - Rainfall



# Global Outlook - Temperature

**Outlook:** Consistent with our warming climate, there is an increase in the likelihood of warmer than normal conditions across many regions of the world. There are a few notable exceptions though, with areas of the Sahel and the Indian sub-continent more likely have temperatures close to normal.

**3-Month Outlook July to September - Temperature**



# Global Outlook - Rainfall

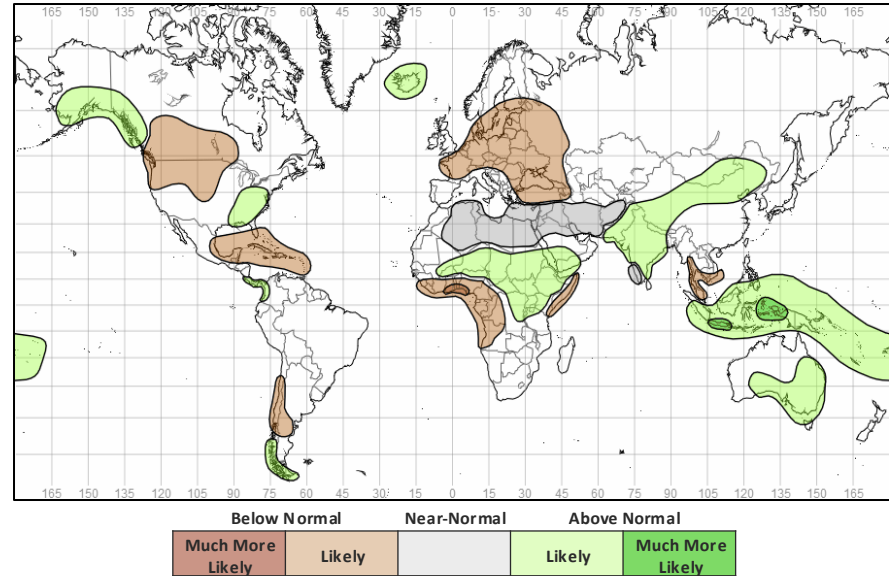
## Outlook:

**El Niño-Southern Oscillation (ENSO)** – Both oceanic and atmospheric indicators are consistent with ENSO-neutral conditions. ENSO-neutral is expected to prevail for at least the next three months. Longer term, the likelihood of La Niña developing increases during the northern hemisphere autumn. However, ENSO-neutral remains the most likely outcome. More information on typical impacts can be found here:

<https://www.metoffice.gov.uk/research/climate/seasonal-to-decadal/gpc-outlooks/el-nino-la-nina/enso-impacts>

**Indian Ocean Dipole (IOD)** – The Indian Ocean Dipole (IOD) is currently neutral and therefore will provide limited predictive value through much of this period. However, towards the end of this period (early autumn in the northern hemisphere) long-range models show a small increase in the likelihood of negative IOD developing. Should a negative event develop, then this would lead to an increase likelihood of drier than normal conditions across East Africa, with a poor performance of the Short Rains. Conversely, the likelihood of wetter than normal increases across Indonesia.

## 3-Month Outlook July to September - Rainfall



# Current Status

[Current Status maps](#)

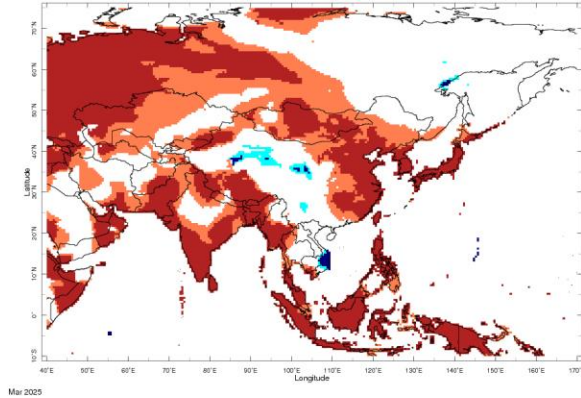
[Central Asia](#)

[Southern Asia](#)

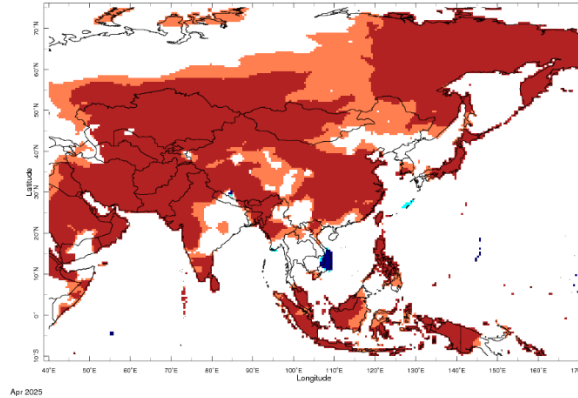
[Southeast Asian Peninsula](#)

[Southeastern Asia / Indonesia](#)

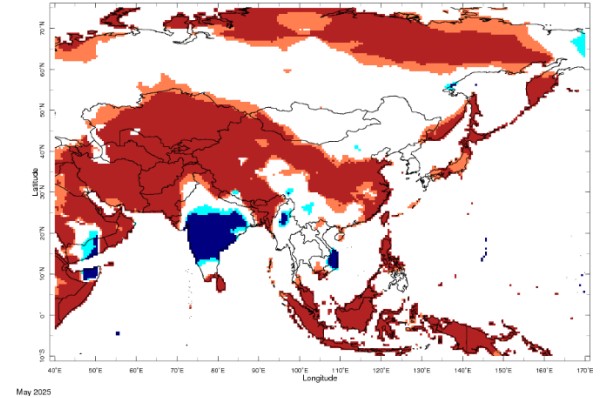
# Current Status – Temperature percentiles



March



April

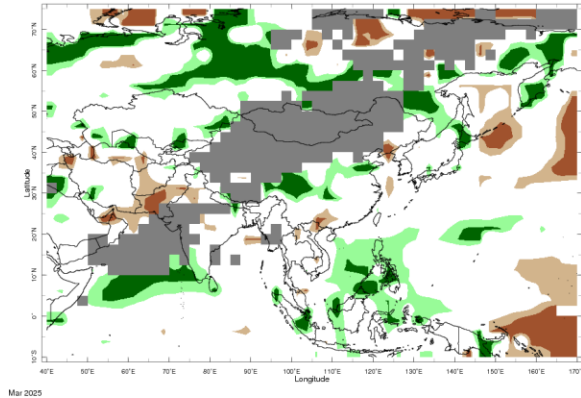


May

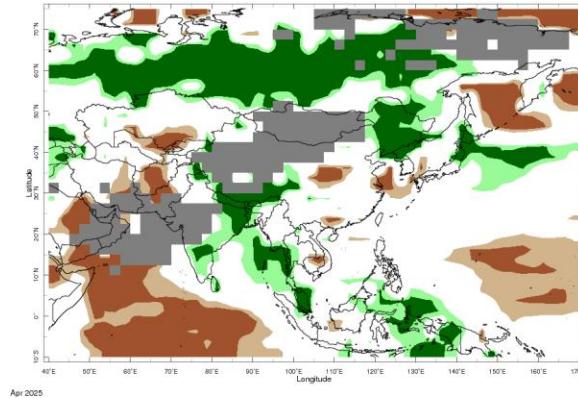


**Notes:** The percentiles shown in the map indicate a ranking of temperature, with the 0th percentile being the coolest and the 100th percentile being the warmest in the 1981-2010 climatology. Orange and red shading represent values above the 80th (Warm) and 90th (Hot) percentile, respectively; regions shaded in light and dark blue indicate values below the 20th (Cool) and 10th (Cold) percentile, with respect to the 1981-2010 climatology. The data used in this map are from the NOAA Climate Prediction Center.

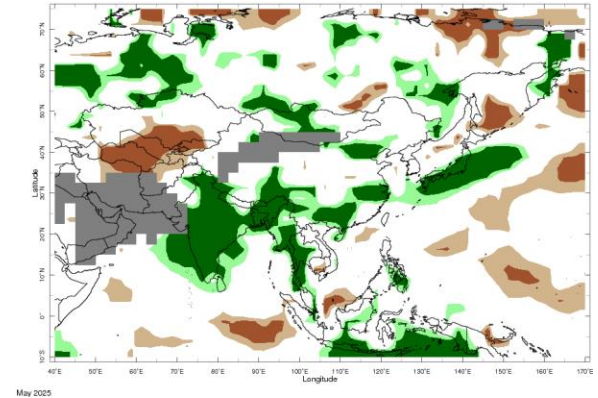
# Current Status – Precipitation percentiles



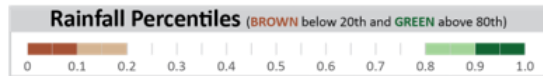
March



April



May



**Notes:** The percentiles shown in the map indicate a ranking of rainfall, with the 0th percentile being the driest and the 100th percentile being the wettest in the 1981-2010 climatology. Green and dark green shading represent values above the 80th (Wet) and 90th (Very Wet) percentile, respectively; regions shaded in light and dark brown indicate rainfall below the 20th (Dry) and 10th (Very Dry) percentile, with respect to the 1981-2010 climatology. Grey areas on the map mask out regions that receive less than 10mm/month of rainfall on normal in the 1981-2010 climatology for the month. The data used in this map are from the NOAA Climate Prediction Center.

# Current Status – Central Asia

|             | Current Status: Temperature |       |     |
|-------------|-----------------------------|-------|-----|
|             | March                       | April | May |
| Afghanistan | Normal (1)                  | Hot   | Hot |
| Tajikistan  | Warm                        | Hot   | Hot |
| Kyrgyzstan  | Warm (2)                    | Hot   | Hot |

|             | Current Status: Rainfall |           |          |
|-------------|--------------------------|-----------|----------|
|             | March                    | April     | May      |
| Afghanistan | Normal                   | Dry       | Dry      |
| Tajikistan  | Normal                   | Mixed (5) | Dry      |
| Kyrgyzstan  | Mixed (4)                | Mixed (6) | Very Dry |

### Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room:

<http://iridl.ldeo.columbia.edu/maproom/>.

\* Region usually experiences less than 10mm/month rainfall during the month (dry season).

### Additional Information:

- (1) Note:** Hot in the far east
- (2) Note:** Hot in the east
- (3) Note:** Wet in the northeast, else normal
- (4) Note:** Very wet in the northwest, else normal
- (5) Note:** Dry in the west, else normal
- (6) Note:** Very dry in the east, else normal

# Current Status – Southern Asia

### Current Status: Temperature

|            | March | April     | May      |
|------------|-------|-----------|----------|
| Pakistan   | Hot   | Hot       | Hot      |
| India      | Warm  | Mixed (1) | Cold (4) |
| Nepal      | Warm  | Normal    | Warm     |
| Bangladesh | Hot   | Hot       | Hot      |
| Sri Lanka  | Hot   | Hot       | Hot      |

### Current Status: Rainfall

|  | March     | April     | May        |
|--|-----------|-----------|------------|
|  | Dry       | Normal    | Normal (5) |
|  | Mixed (2) | Mixed (3) | Very Wet   |
|  | Wet       | Normal    | Normal (6) |
|  | Normal    | Normal    | Very Wet   |
|  | Wet       | Wet       | Wet        |

#### Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room:

<http://iridl.ldeo.columbia.edu/maproom/>.

\* Region usually experiences less than 10mm/month rainfall during the month (dry season).

#### Additional Information:

- (1) Note:** Hot in the west, south and in the far northeast, else normal
- (2) Note:** Wet in parts of the south, dry in parts of the northwest, else normal
- (3) Note:** Dry or very dry in some central parts, wet or very wet in the far north, else normal
- (4) Note:** Hot in the south and far northeast.
- (5) Note:** Wet in the north
- (6) Note:** Very Wet in the west

# Current Status – Southeast Asian Peninsula

## Current Status: Temperature

|         | March     | April     | May       |
|---------|-----------|-----------|-----------|
| China   | Mixed     | Mixed (4) | Mixed (4) |
| Myanmar | Hot       | Mixed (4) | Normal    |
| Vietnam | Mixed (1) | Mixed (1) | Mixed (1) |

## Current Status: Rainfall

|  | March  | April     | May       |
|--|--------|-----------|-----------|
|  | Mixed  | Mixed     | Mixed (5) |
|  | Normal | Mixed (2) | Very Wet  |
|  | Normal | Mixed (3) | Normal    |

### Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room:

<http://iridl.ldeo.columbia.edu/maproom/>.

\* Region usually experiences less than 10mm/month rainfall during the month (dry season).

### Additional Information:

- (1) Note:** Cold in the south, normal elsewhere
- (2) Note:** Dry in the north, wet in the south, else normal
- (3) Note:** Wet or very wet in coastal parts in the south, else normal
- (4) Note:** Mixed, but mainly warm or hot
- (5) Note:** Wet or very wet in the south and northeast, normal elsewhere

# Current Status – Southeastern Asia / Indonesia

|                  | Current Status: Temperature |       |     |
|------------------|-----------------------------|-------|-----|
|                  | March                       | April | May |
| Indonesia        | Hot                         | Hot   | Hot |
| Papua New Guinea | Hot                         | Mixed | Hot |
| Timor-Leste      | Hot                         | Hot   | Hot |

|                  | Current Status: Rainfall |        |           |
|------------------|--------------------------|--------|-----------|
|                  | March                    | April  | May       |
| Indonesia        | Normal                   | Normal | Mixed (1) |
| Papua New Guinea | Wet                      | Normal | Normal    |
| Timor-Leste      | Normal                   | Wet    | Very Wet  |

## Notes:

The table gives an assessment of whether temperature and rainfall across each country have been above normal, normal or below normal over the past three months, using data from the NOAA Climate Prediction Center and the IRI Map Room:

<http://iridl.ldeo.columbia.edu/maproom/>.

\* Region usually experiences less than 10mm/month rainfall during the month (dry season).

## Additional Information:

**(1) Note:** Large regional variation but many areas Wet or Very Wet

# Outlooks

[Outlooks – Notes for use](#)

[Central Asia](#)

[Southern Asia](#)

[Southeast Asian Peninsula](#)

[Southeastern Asia / Indonesia](#)

# Outlooks: Notes for use

## Outlooks for months 4 to 6:

As forecast uncertainty generally increases with longer range **the 4-6-month outlook is less reliable than the 1-3 month outlook**. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range.

Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

## Climatological odds:

A forecast is only provided in the outlooks where there is information in the model data about likely outcomes. Therefore, where the likelihoods for above-, near- and below- normal conditions are evenly balanced the phrase 'climatological odds' will be used. This means the outcome could fall anywhere within the possible climatological range. Near-normal conditions should not necessarily be assumed, and users should update with shorter-term forecasts when available.

# Outlook: July to December – Central Asia

|             |             | Forecast summary                |                                 |                                 |
|-------------|-------------|---------------------------------|---------------------------------|---------------------------------|
|             |             | July                            | July to September               | October to December             |
| Afghanistan | Temperature | Likely to be warmer than normal | Likely to be warmer than normal | Likely to be warmer than normal |
|             | Rainfall    | Likely to be near-normal        | Likely to be near-normal        | Likely to be drier than normal  |
| Tajikistan  | Temperature | Likely to be warmer than normal | Likely to be warmer than normal | Likely to be warmer than normal |
|             | Rainfall    | Likely to be near-normal        | Climatological odds             | Likely to be drier than normal  |
| Kyrgyzstan  | Temperature | Likely to be warmer than normal | Likely to be warmer than normal | Likely to be warmer than normal |
|             | Rainfall    | Likely to be near-normal        | Climatological odds             | Likely to be drier than normal  |

**Outlooks for months 4 to 6:** As forecast uncertainty generally increases with longer range the 4-6-month outlook is less reliable than the 1-3 month outlook. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

# Outlook: July to December – Southern Asia (1)

|          |             | Forecast summary  |  |                                 |
|----------|-------------|---|--|---------------------------------|
|          |             | July  | July to September  | October to December             |
| Pakistan | Temperature | Climatological odds   | Likely to be near-normal in the east, <b>Likely to be warmer than normal</b> elsewhere                           | Climatological odds             |
|          | Rainfall    | <b>Likely to be wetter than normal</b>  | <b>Likely to be wetter than normal</b>   | Climatological odds             |
| India    | Temperature | <b>Much more likely to be warmer than normal</b> in the far northeast, <b>Likely to be colder than normal</b> elsewhere | <b>Much more likely to be warmer than normal</b> in the far northeast, <b>Likely to be near-normal</b> elsewhere | Climatological odds             |
|          | Rainfall    | <b>Likely to be wetter than normal</b>  | Likely to be near-normal in the far southwest, <b>Likely to be wetter than normal</b> elsewhere                  | Climatological odds             |
| Nepal    | Temperature | Climatological odds   | <b>Likely to be warmer than normal</b>   | Likely to be warmer than normal |
|          | Rainfall    | <b>Likely to be wetter than normal</b>  | <b>Likely to be wetter than normal</b>   | Climatological odds             |

**Outlooks for months 4 to 6:** As forecast uncertainty generally increases with longer range the 4-6-month outlook is less reliable than the 1-3 month outlook. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

## Outlook: July to December – Southern Asia (2)

|            |             | Forecast summary                |                                 |                                 |
|------------|-------------|---------------------------------|---------------------------------|---------------------------------|
|            |             | July                            | July to September               | October to December             |
| Bangladesh | Temperature | Likely to be warmer than normal | Likely to be warmer than normal | Likely to be warmer than normal |
|            | Rainfall    | Climatological odds             | Climatological odds             | Climatological odds             |
| Sri Lanka  | Temperature | Likely to be warmer than normal | Likely to be warmer than normal | Likely to be warmer than normal |
|            | Rainfall    | Climatological odds             | Climatological odds             | Climatological odds             |

**Outlooks for months 4 to 6:** As forecast uncertainty generally increases with longer range the 4-6-month outlook is less reliable than the 1-3 month outlook. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

# Outlook: July to December – SE Asian Peninsula

|         |             | Forecast summary  |   |                     |
|---------|-------------|---|---|---------------------|
|         |             | July  | July to September   | October to December |
| China   | Temperature | Likely to be warmer than normal   | Much more likely to be warmer than normal   | Climatological odds |
|         | Rainfall    | Likely to be wetter than normal in Tibet and the north, Climatological odds elsewhere | Likely to be wetter than normal in Tibet and the north, Climatological odds elsewhere             | Climatological odds |
| Myanmar | Temperature | Likely to be warmer than normal   | Much more likely to be warmer than normal   | Climatological odds |
|         | Rainfall    | Climatological odds   | Likely to be drier than normal in the south and west, Climatological odds elsewhere               | Climatological odds |
| Vietnam | Temperature | Likely to be warmer than normal   | Much more likely to be warmer than normal in the north, Likely to be warmer than normal elsewhere | Climatological odds |
|         | Rainfall    | Likely to be drier than normal in the south, Climatological odds in the north         | Likely to be drier than normal in the south, Climatological odds in the north                     | Climatological odds |

**Outlooks for months 4 to 6:** As forecast uncertainty generally increases with longer range the 4-6-month outlook is less reliable than the 1-3 month outlook. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

# Outlook: July to December – SE Asia / Indonesia

|                  |             | Forecast summary                          |  |                                 |
|------------------|-------------|---|--|---------------------------------|
|                  |             | July                                      | July to September  | October to December             |
| Indonesia        | Temperature | Much more likely to be warmer than normal | Much more likely to be warmer than normal  | Likely to be warmer than normal |
|                  | Rainfall    | Much more likely to be wetter than normal | Likely to be wetter than normal but Much more likely to be wetter than normal in Java and the east | Likely to be wetter than normal |
| Papua New Guinea | Temperature | Much more likely to be warmer than normal | Much more likely to be warmer than normal  | Likely to be warmer than normal |
|                  | Rainfall    | Much more likely to be wetter than normal | Likely to be wetter than normal  | Likely to be wetter than normal |
| Timor-Leste      | Temperature | Much more likely to be warmer than normal | Much more likely to be warmer than normal  | Likely to be warmer than normal |
|                  | Rainfall    | Much more likely to be wetter than normal | Likely to be wetter than normal  | Likely to be wetter than normal |

**Outlooks for months 4 to 6:** As forecast uncertainty generally increases with longer range the 4-6-month outlook is less reliable than the 1-3 month outlook. Outlook information will only be provided when the model data signals likely outcomes. Additionally, the longer range outlook utilises fewer models because not all seasonal models are available for the extended range. Information provided in this presentation should be used to raise early awareness of potential hazards only and should be updated with the 3-month outlook when available.

# Annex 1 – Supplemental Information

## For further information

WMO Lead Centre for Long-Range Forecast Multi-Model Ensemble (LC-LRFMME)

<https://www.wmolc.org/>

International Research Institute for Climate and Society (IRI)

<http://iridl.ldeo.columbia.edu/maproom/>

NOAA El Niño technical info

<https://www.ncei.noaa.gov/access/monitoring/enso/>

Met Office

<https://www.metoffice.gov.uk/services/government/international-development>

Climate Outlook Fora ([WMO Factsheet](#)), including:

The South Asian Climate Outlook Forum (SASCOF) [http://www.imdpune.gov.in/Clim\\_RCC\\_LRF/Index.html](http://www.imdpune.gov.in/Clim_RCC_LRF/Index.html)

Latest Output (May 2025) - <https://rimes.int/SASCOF-31>

# Technical notes

The [WMO lead centre for long-range forecast multi-model ensemble \(LC-LRFMME\)](#) produce a probabilistic multi-model mean forecast product in which the multi-model mean is based on uncalibrated model output with a model weighting system that accounts for errors in both the forecast probability and ensemble mean. The method used by LC-LRFMME separately computes a probabilistic forecast and calculates tercile probabilities with respect to climatology for each individual model, before creating the weighted multi-model mean. In seasonal prediction, shifts in the tercile probabilities are always closely associated with the shifts in the probability of extremes, and we can use the probability of terciles to provide information on the likelihood of a above- or below- normal conditions. The thresholds used in the forecast summaries are defined below.

Seasonal forecasts rely on the aspects of the global weather and climate system that are more predictable, such as tropical sea-surface temperatures or the El Niño–Southern Oscillation (ENSO). However, whilst such forecasts may be able to show what is more or less likely to occur, they acknowledge that other outcomes are possible.

In addition, forecast uncertainty generally increases with longer range so the 6-month outlook is less reliable. It is also based on less information, because not all models are available to this range. Therefore the information presented here should be used to raise early awareness of potential hazards, and should be updated with the 3-month outlook when available.

In the report and tables precipitation is referred to as rainfall but in fact encompasses any form of water, liquid or solid, falling from the sky. Temperatures are the (2 metre) near-surface temperature.

| Description                         | Definition  |
|-------------------------------------|---|
| Much more likely to be below normal | When probability of lower tercile > 70%               |
| More likely to be below normal      | When probability of lower tercile is 40-70%           |
| Likely to be near-normal            | When probability of middle tercile is 40-70%          |
| Much more likely to be near-normal  | When probability of middle tercile > 70%              |
| Likely to be above normal           | When probability of upper tercile is 40-70%           |
| Much more likely to be above normal | When probability of upper tercile > 70%               |
| Climatological odds                 | When probabilities for all categories are roughly 33% |

## Global Producing Centres (GPC) forecasts used by WMO LC-LRFMME:

- GPC CPTec (INPE),
- GPC ECMWF,
- GPC Exeter (Met Office),
- GPC Melbourne (BOM),
- GPC Montreal (CMC),
- GPC Moscow (Hydromet Centre of Russia),
- GPC Offenbach (DWD),
- GPC Pretoria (SAWS),
- GPC Seoul (KMA),
- GPC Tokyo (JMA),
- GPC Toulouse (Meteo France),
- GPC Washington (NCEP)

# Enquiries

Email: [internationaldevelopment@metoffice.gov.uk](mailto:internationaldevelopment@metoffice.gov.uk)

Web: <https://www.metoffice.gov.uk/services/government/international-development>