



Three-month Climate Prediction of Thailand During September – November 2020

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THAI METEOROLOGICAL DEPARTMENT

Issued on 31 August 2020

Thailand climate for September – October - November from 30-year normal (A.D. 1981 - 2010 or B.E. 2524 - 2553 baseline average)

September: Thailand will meet densely abundant rainfall. In fact, most areas will be affected by the most abundant monthly rainfall from the whole year. The reason is that the influential low-pressure trough places on the central portion of Thailand along with the Southwest Monsoon prevails over Thailand. Besides, some tropical cyclones may move to dissipate near or toward Thailand directly, specifically at the northeastern and eastern parts.

October: As being a time of transition from the rainy to the winter seasons, the Upper Thailand will meet less rainfall and reducing temperature; cool weather is to start since the middle of this month onward. The reason is that the prevailing Southwest Monsoon over Thailand begins to transform into the Northeast Monsoon and cold high-pressure air mass areas from China prevails over Thailand from time to time.

Moreover, the low-pressure trough placing over the central and eastern parts will move downward to place around the Southern Thailand and the Gulf of Thailand during the 2nd half of this month. As a result, the Southern Thailand will meet densely abundant rainfall.

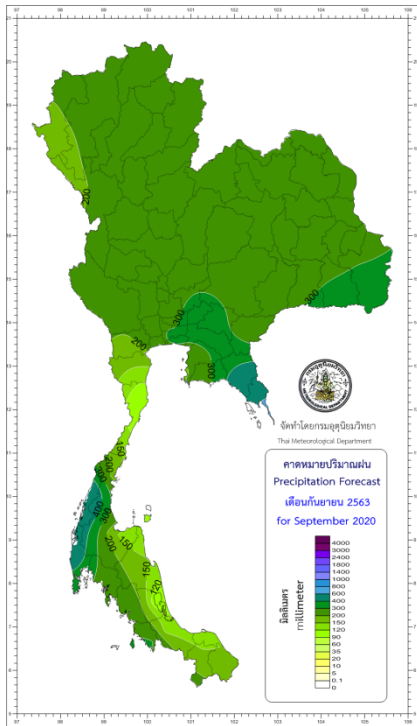
Additionally, some tropical cyclones may move near or toward Thailand around the eastern part, and they would move successively downward to the upper portion of the Gulf of Thailand and the Southern Thailand further.

November: The Upper Thailand will meet much reducing rain with cool weather for this whole month. The reason is that the influential high-pressure air mass areas from China will actively prevail over the Upper Thailand periodically. Thus, temperature will reduce, so cold weather happens at some areas, specifically at the northern & northeastern parts.

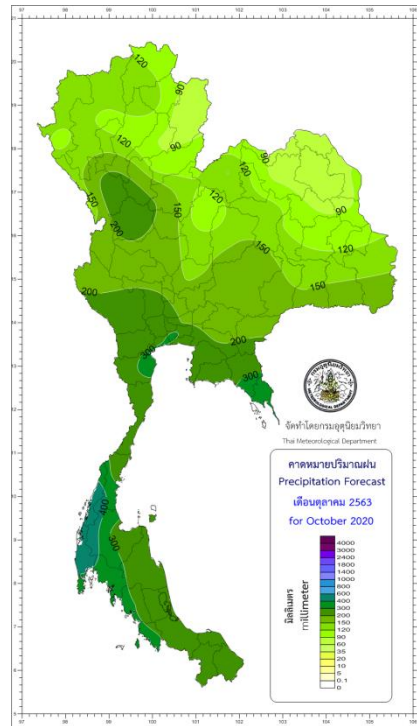
However, the Southern Thailand will still meet abundant rainfall, especially around the east coast. The reason is that the influential Northeastern Monsoon and the low-pressure trough place over the Southern Thailand and the Gulf of Thailand.

Precipitation (mm/month) and Anomaly (mm/month) Forecast:

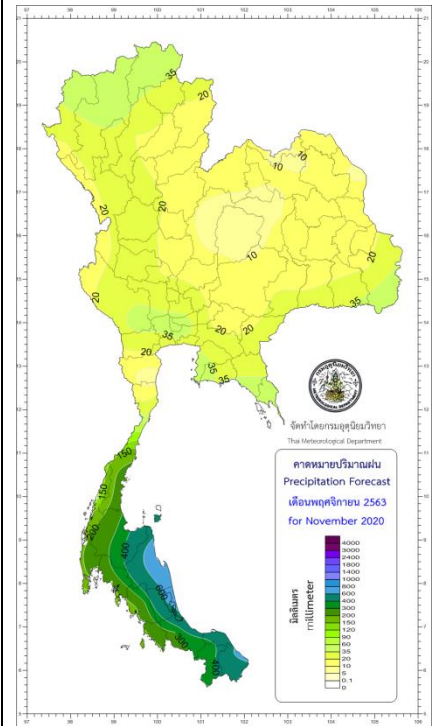
Precipitation forecast for
September 2020



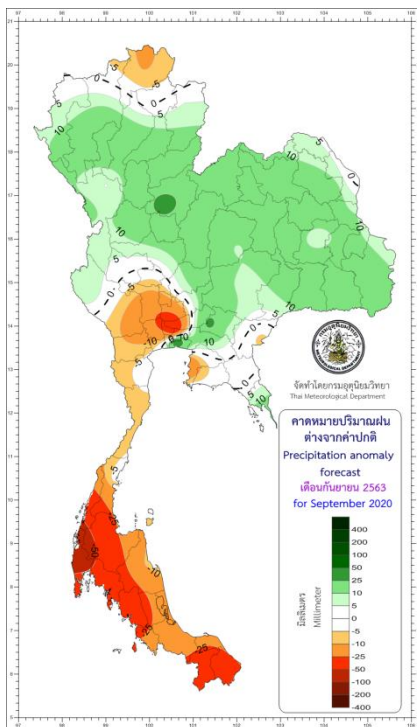
Precipitation forecast for
October 2020



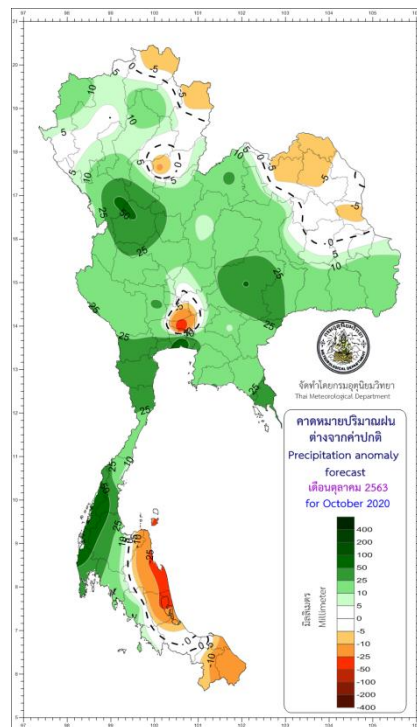
Precipitation forecast for
November 2020



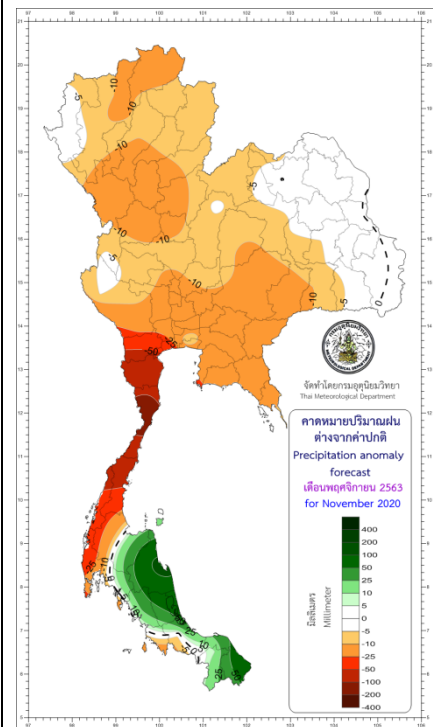
Precipitation anomaly forecast for
September 2020



Precipitation anomaly forecast for
October 2020

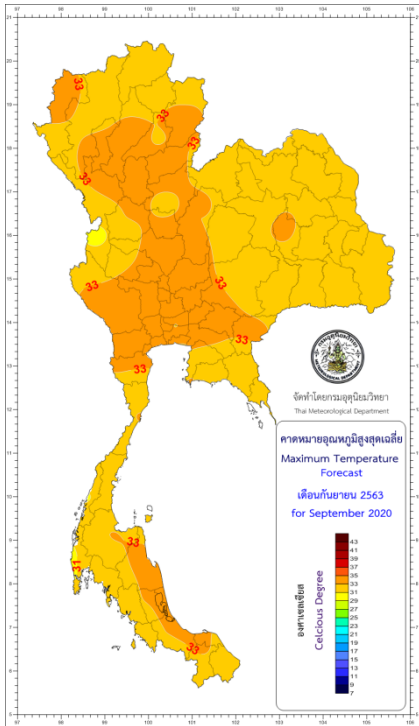


Precipitation anomaly forecast for
November 2020

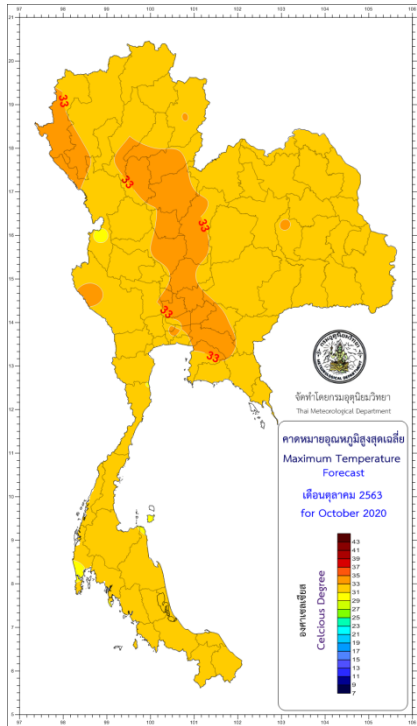


Mean Maximum Temperature (°C) and Anomaly (°C) Forecast:

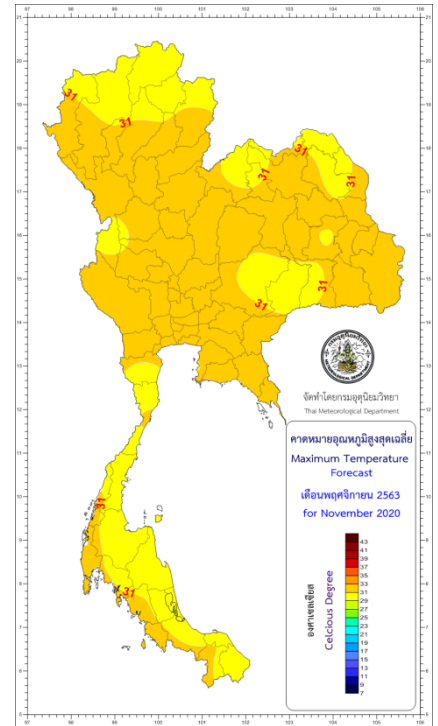
Mean maximum temperature forecast for September 2020



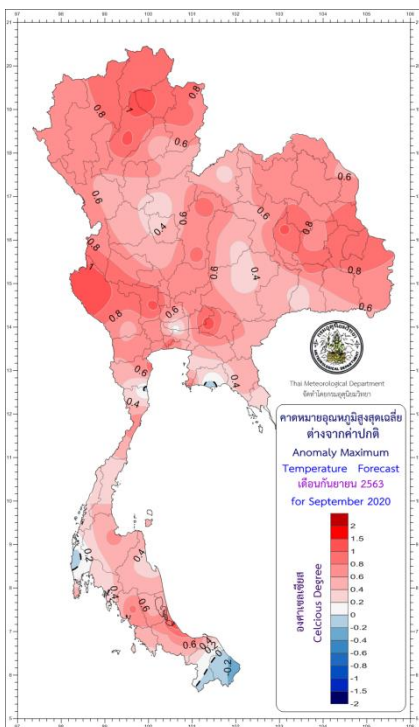
Mean maximum temperature forecast for October 2020



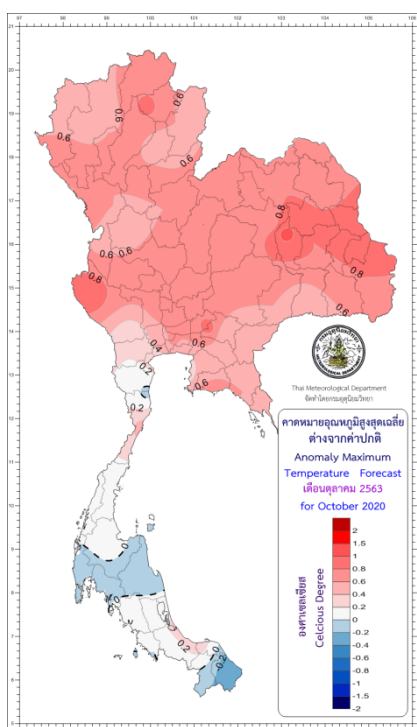
Mean maximum temperature forecast for November 2020



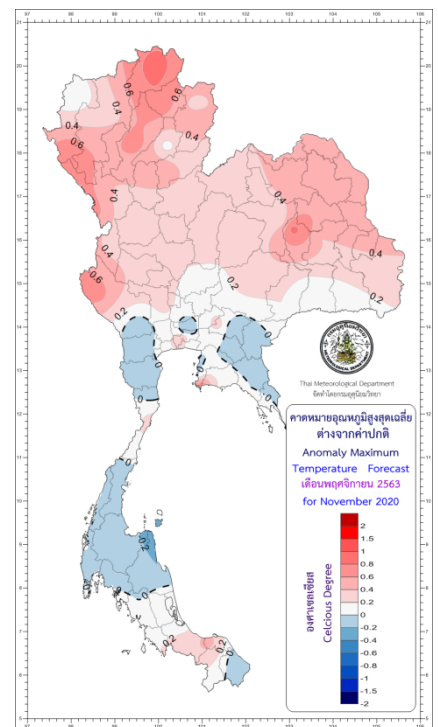
Mean maximum temperature anomaly forecast for September 2020



Mean maximum temperature anomaly forecast for October 2020

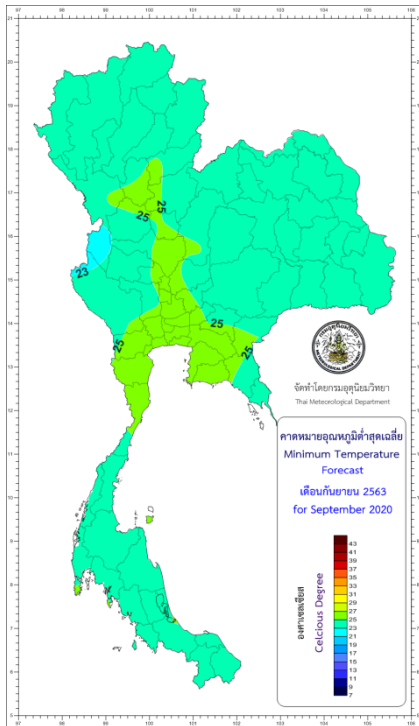


Mean maximum temperature anomaly forecast for November 2020

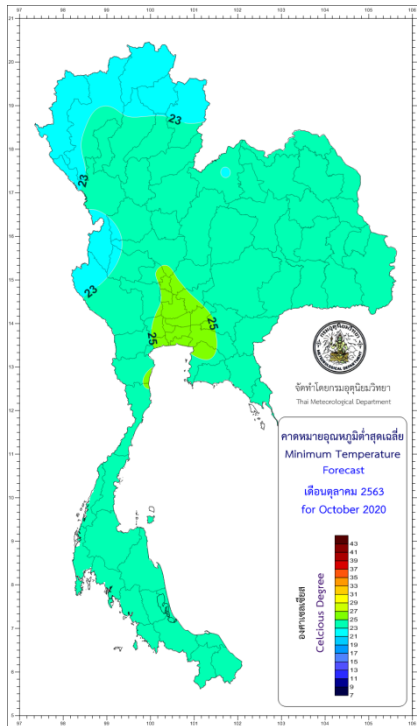


Mean Minimum Temperature (°C) and Anomaly (°C) Forecast:

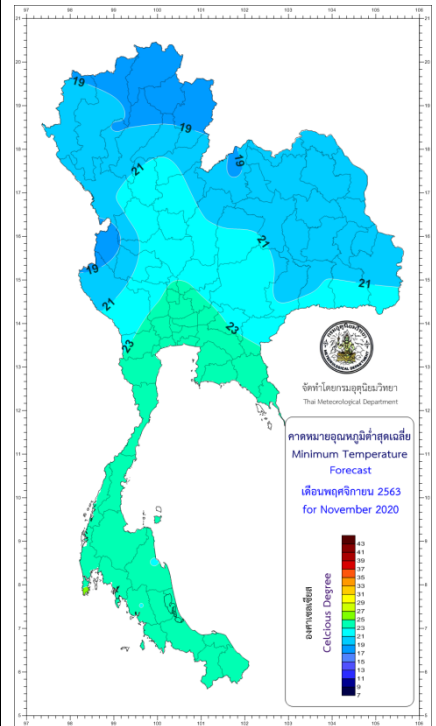
Mean minimum temperature forecast for September 2020



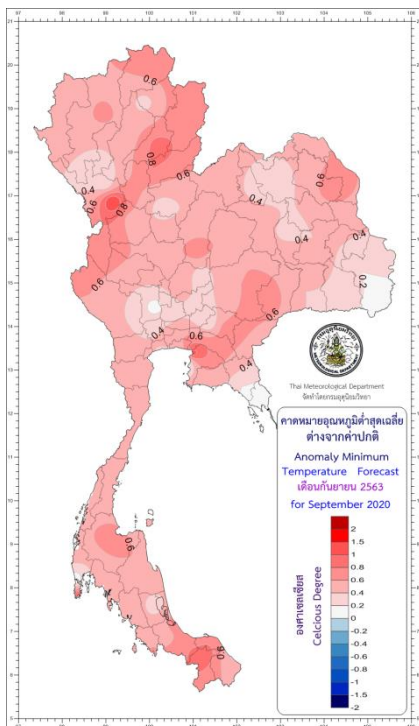
Mean minimum temperature forecast for October 2020



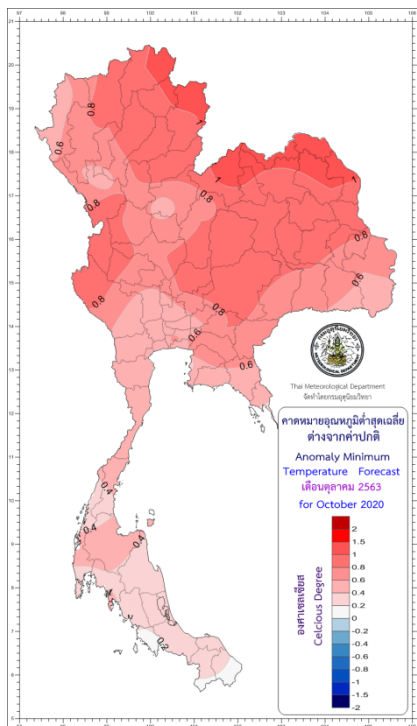
Mean minimum temperature forecast for November 2020



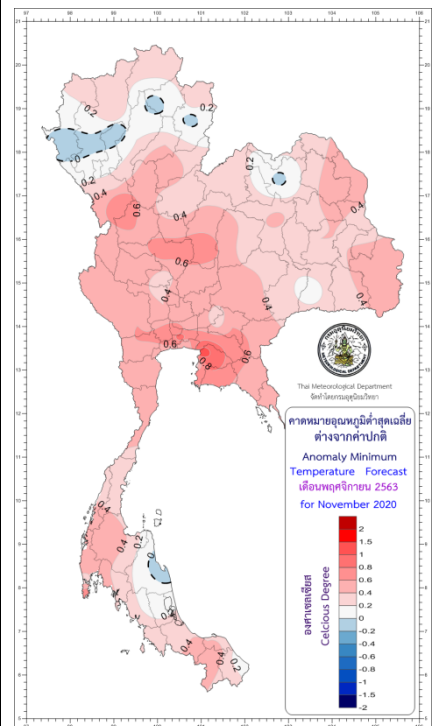
Mean minimum temperature anomaly forecast for September 2020



Mean minimum temperature anomaly forecast for October 2020



Mean minimum temperature anomaly forecast for November 2020



*** Caution: ***

September 2020: Some tropical cyclones often develop at the western side of the northern Pacific Ocean and move northwesterly pass the South China Sea. Consequently, Thailand will meet abundant rainfall with heavy to very heavy rain amount at some areas.

October & November 2020: Some tropical cyclones favor a high chance to pass the tip of the Indochina Peninsula and move toward or near the Southern Thailand. For this reason, the nearby passing areas of the tropical cyclones will meet densely abundant rainfall with heavy to very heavy rain amounts at some areas.

Therefore, the public should follow weather forecast news and tropical cyclone warnings from the Thai Meteorological Department further.

Below right Image source:

https://www.researchgate.net/figure/Study-area-the-Indochina-Peninsula-in-Monsoon-Southeast-Asia_fig5_296329477

The below Image illustrates 7 parts of Thailand with seasons and Monsoons or wind:

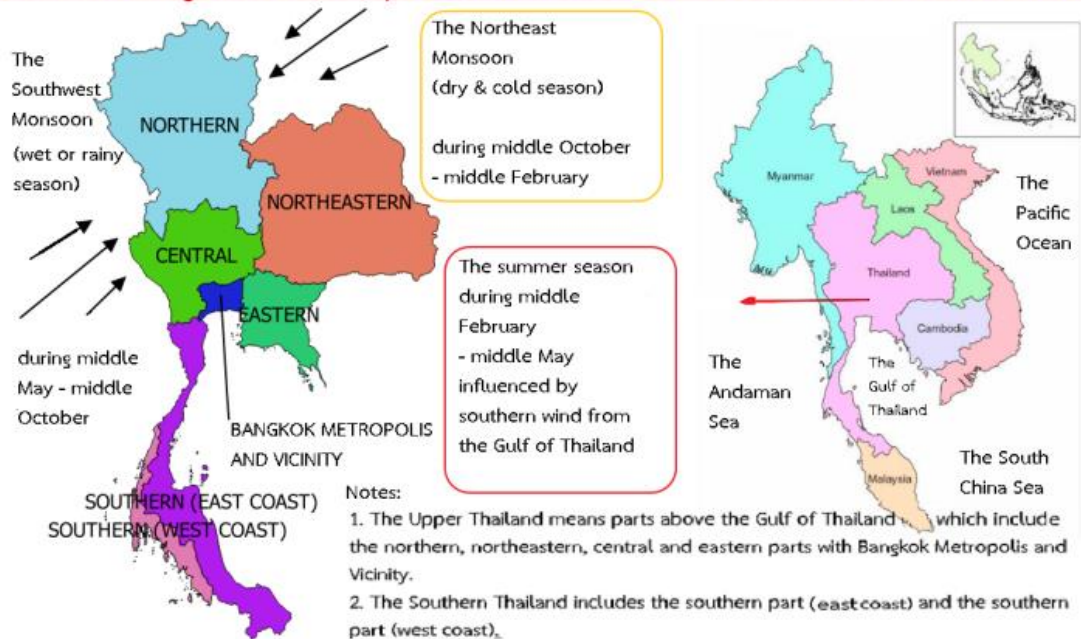


Table 1: Forecast of rain amount (millimeters: mm) comparing with normal, and rainy day (days):

| Part | Forecast | | | | | | | | | Normal (Baseline period: 1981-2010) | | | | | |
|---------------------------------|----------------|------------|-----------------------|--------------|------------|-----------------------|---------------|------------|-----------------------|-------------------------------------|------------|-----------|------------|-----------|------------|
| | September 2020 | | | October 2020 | | | November 2020 | | | September | | October | | November | |
| | Rain (mm) | Rainy days | Comparing with normal | Rain (mm) | Rainy days | Comparing with normal | Rain (mm) | Rainy days | Comparing with normal | Rain (mm) | Rainy days | Rain (mm) | Rainy days | Rain (mm) | Rainy days |
| Northern | 210-260 | 17-20 | 5 % Above normal | 120-160 | 12-14 | 10 % Above normal | 10-30 | 3-5 | 30 % Below normal | 218.3 | 18.3 | 124.1 | 12.0 | 32.9 | 4.1 |
| Northeastern | 230-280 | 17-20 | 5 % Above normal | 100-140 | 10-12 | 10 % Above normal | 10-30 | 2-4 | 30 % Below normal | 244.1 | 17.7 | 114.0 | 10.4 | 18.8 | 2.9 |
| Central | 210-260 | 18-21 | Near normal | 160-200 | 14-16 | 10 % Above normal | 10-30 | 3-5 | 30 % Below normal | 239.5 | 19.2 | 167.1 | 14.4 | 34.4 | 4.1 |
| Eastern | 300-350 | 19-22 | Near normal | 220-270 | 15-18 | 10 % Above normal | 30-50 | 4-6 | 30 % Below normal | 330.1 | 19.9 | 225.1 | 16.5 | 53.3 | 5.6 |
| Southern Thailand (east coast) | 110-150 | 15-18 | 10 % Below normal | 230-280 | 17-20 | Near normal | 320-420 | 15-18 | Near normal | 149.8 | 16.7 | 253.6 | 18.6 | 370.4 | 16.3 |
| Southern Thailand (west coast) | 350-450 | 20-23 | 10 % Below normal | 350-450 | 21-24 | 10 % Above normal | 150-190 | 15-18 | 10 % Below normal | 423.7 | 22.4 | 366.5 | 22.8 | 193.3 | 16.2 |
| Bangkok Metropolis and Vicinity | 300-350 | 20-23 | Near normal | 250-300 | 16-19 | 10 % Above normal | 30-50 | 5-7 | 20 % Below normal | 318.4 | 21.1 | 246.1 | 17.5 | 47.6 | 5.8 |

Table 2: Forecast of mean maximum temperature (Tmax) and mean minimum temperature (Tmin) : °C, and comparing (mean temperature : °C) with normal :

| Part | Forecast | | | | | | | | | Normal (Baseline period: 1981-2010) | | | | | |
|---------------------------------|----------------|-----------|-----------------------|--------------|-----------|-----------------------|---------------|-----------|-----------------------|-------------------------------------|-----------|-----------|-----------|-----------|-----------|
| | September 2020 | | | October 2020 | | | November 2020 | | | September | | October | | November | |
| | Mean Tmax | Mean Tmin | Comparing with Normal | Mean Tmax | Mean Tmin | Comparing with Normal | Mean Tmax | Mean Tmin | Comparing with Normal | Mean Tmax | Mean Tmin | Mean Tmax | Mean Tmin | Mean Tmax | Mean Tmin |
| Northern | 32-34 | 23-25 | Above normal | 32-34 | 22-24 | Above normal | 31-33 | 19-21 | Above normal | 32.2 | 23.5 | 31.9 | 22.5 | 31.0 | 19.5 |
| Northeastern | 32-34 | 24-26 | Above normal | 31-33 | 23-25 | Above normal | 30-32 | 19-21 | Above normal | 31.9 | 24.0 | 31.4 | 22.8 | 30.7 | 20.1 |
| Central | 33-35 | 24-26 | Above normal | 32-34 | 24-26 | Above normal | 31-33 | 21-23 | Above normal | 32.9 | 24.5 | 32.4 | 24.0 | 31.9 | 22.2 |
| Eastern | 32-34 | 24-26 | Above normal | 32-34 | 24-26 | Above normal | 31-33 | 23-25 | Above normal | 31.9 | 24.7 | 32.0 | 24.1 | 32.1 | 23.0 |
| Southern Thailand (east coast) | 32-34 | 24-26 | Above normal | 31-33 | 23-25 | Above normal | 29-31 | 23-25 | Above normal | 32.3 | 24.1 | 31.4 | 23.8 | 30.3 | 23.4 |
| Southern Thailand (west coast) | 31-33 | 24-26 | Above normal | 30-32 | 23-25 | Above normal | 30-32 | 23-25 | Above normal | 31.1 | 23.9 | 31.2 | 23.7 | 31.4 | 23.5 |
| Bangkok Metropolis and Vicinity | 33-35 | 25-27 | Above normal | 32-34 | 24-26 | Above normal | 31-33 | 24-26 | Above normal | 32.8 | 25.0 | 32.6 | 24.8 | 32.4 | 23.9 |

Remarks: 1) Normal means average during the 30-year period (A.D. 1981 – 2010 or B.E. 2524 – 2553). 2) This long-range climate forecast is created by applying some climate models and statistical methods, the public then should follow the daily weather forecast news from the Thai Meteorological Department for more accuracy further.

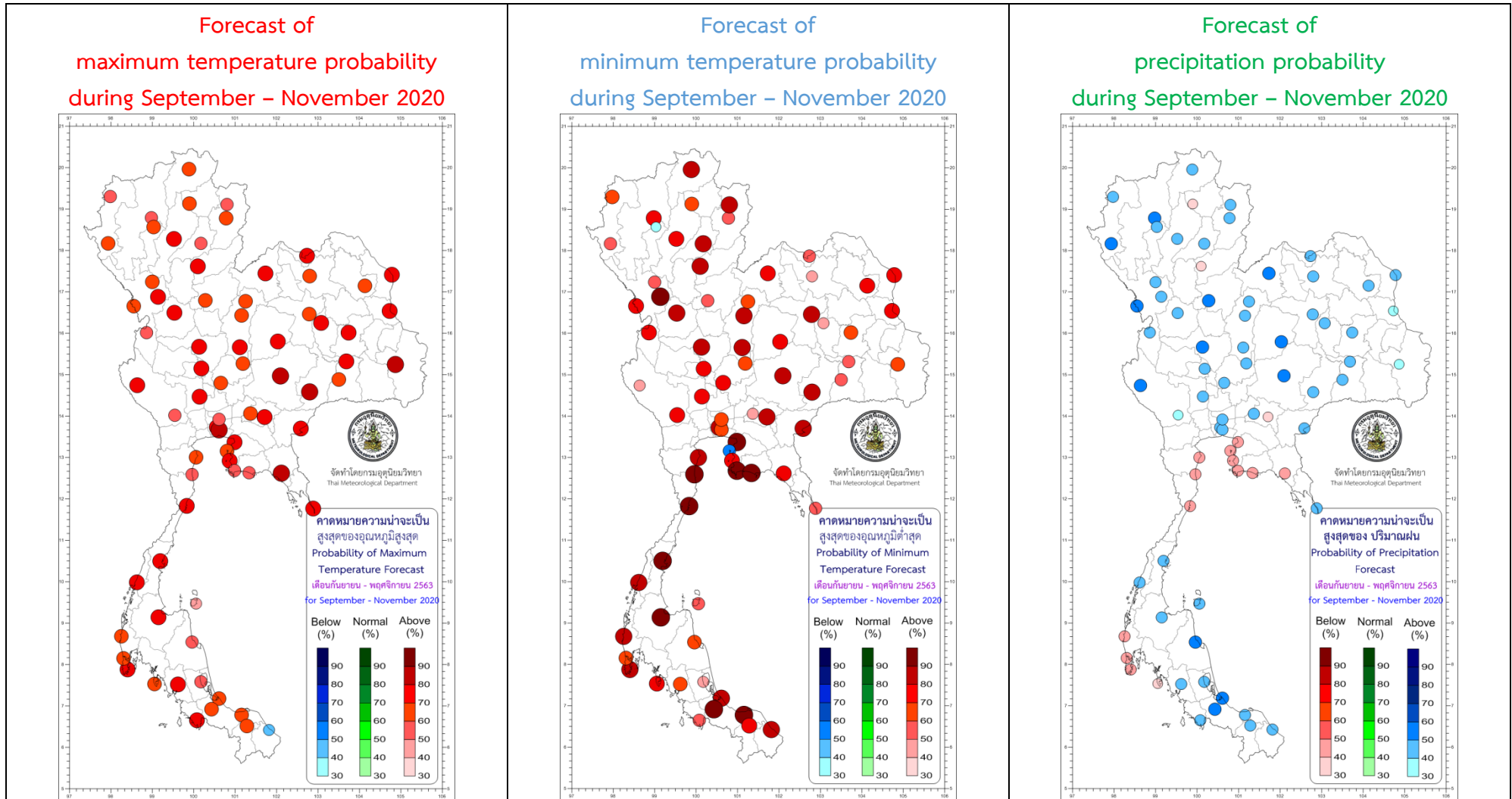
3) The next 3-month climate forecast will be published online before the end of next month.

4) Further enquiry of monthly climate, 3-month climate and seasonal forecasts can be preceded at Tel: (662)-398-9929 or Fax: (662)-383-8827.

5) Also, please follow monthly climate, 3-month climate and seasonal forecasts at www.tmd.go.th/en at the climate tab.

Climate Center, Meteorological Development Division,
Thai Meteorological Department,
Ministry of Digital Economy and Society

Point probability forecast maps of **maximum** and **minimum** temperature, and **precipitation**
 (Point maps for probability percentage (%) of : below normal, near normal or above normal)



Note: These maps are mean model forecasts for being included in this three-month climate forecast.