



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,  
THAI METEOROLOGICAL DEPARTMENT

## 3-month Climate Prediction of Thailand

During August – October 2021

Issued on 29 July 2021

### Thailand climate for August – September - October 2021 from baseline: 1981-2010

**August 2021:** Commonly, densely abundant rainfall often occurs in this month with more monthly rain amount than previous months each year. The reason is that the low-pressure trough places over the northern and northeastern parts of Thailand along with the active Southwest Monsoon prevail over Thailand periodically. Additionally, some tropical cyclones may move closer or toward the upper portion of both of the northern and northeastern parts more than other parts.

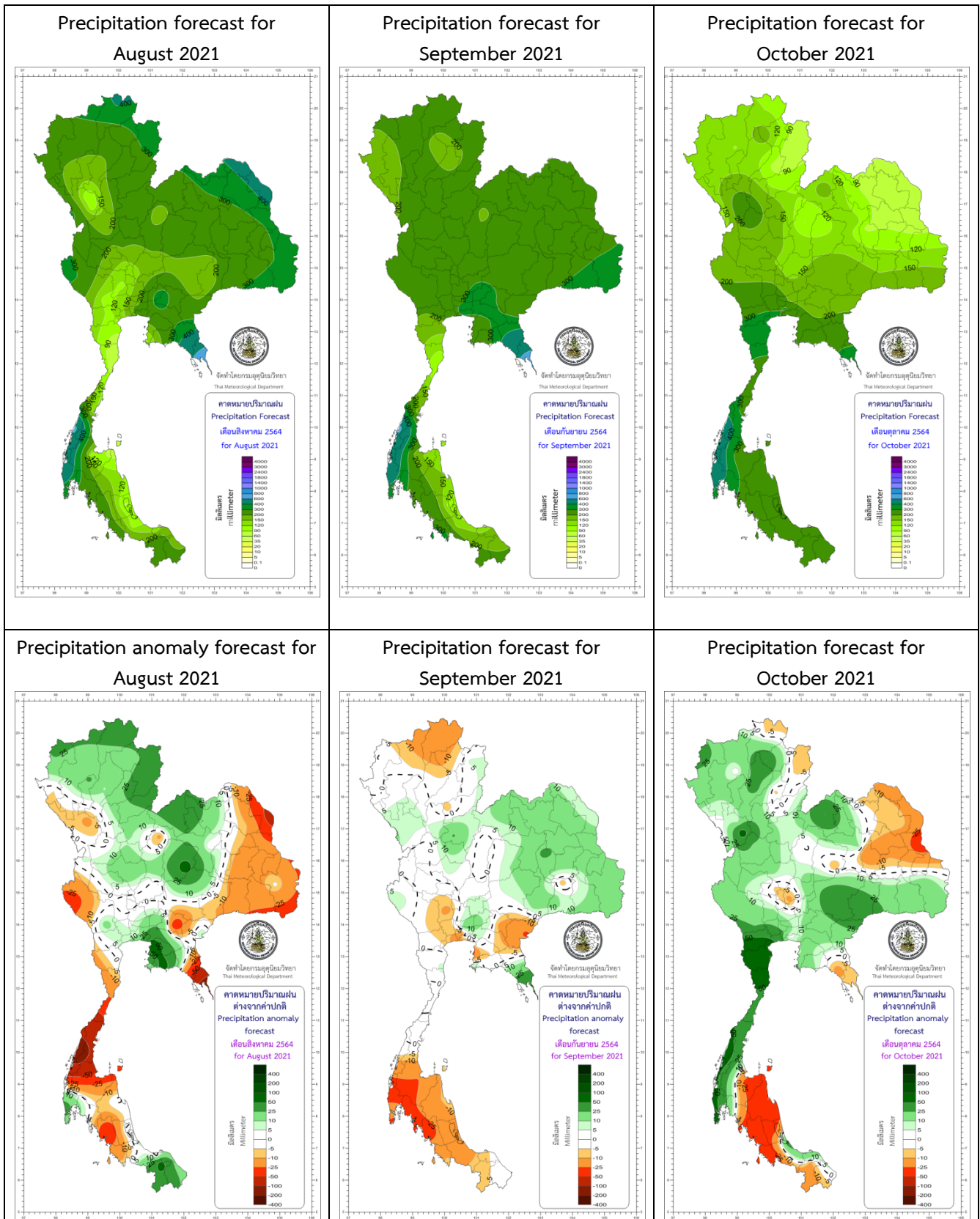
**September 2021:** Thailand will meet densely abundant rainfall. In fact, most areas will be affected by the most densely abundant monthly rainfall for the whole year. The reason is that the influential low-pressure trough places on the central portion of Thailand along with some tropical cyclones move to dissipate near or toward Thailand directly, specifically at the eastern portion of the country.

**October 2021:** 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 still meets densely abundant rainfall.

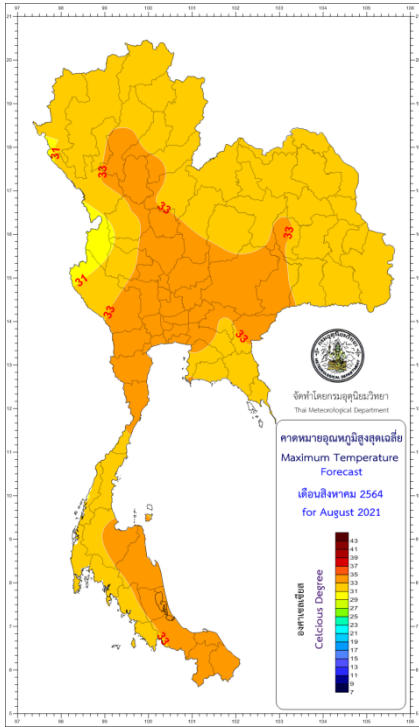
In addition, some tropical cyclones may move near or toward Thailand at the eastern portion of the country; their moving could be successive toward the upper portion of the Gulf of Thailand and the Southern Thailand further.

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

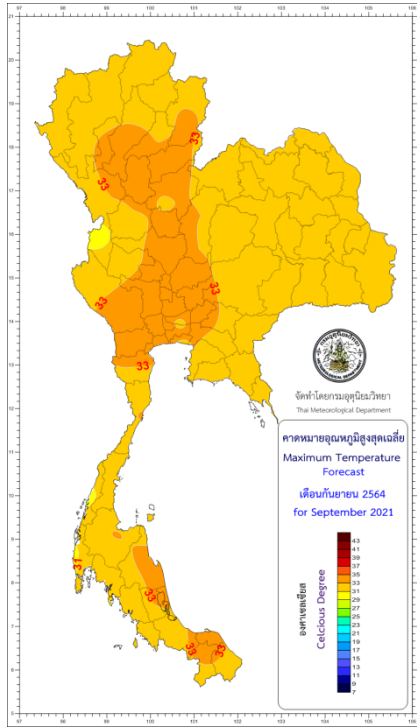


Mean Maximum Temperature (°C) and Anomaly (°C) Forecast:

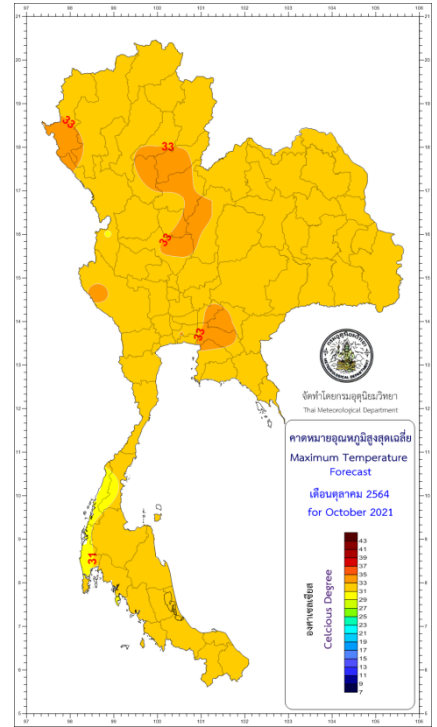
Mean maximum temperature forecast for August 2021



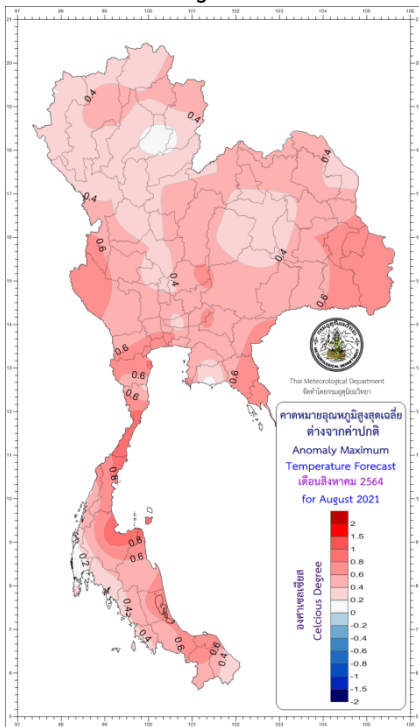
Mean maximum temperature forecast for September 2021



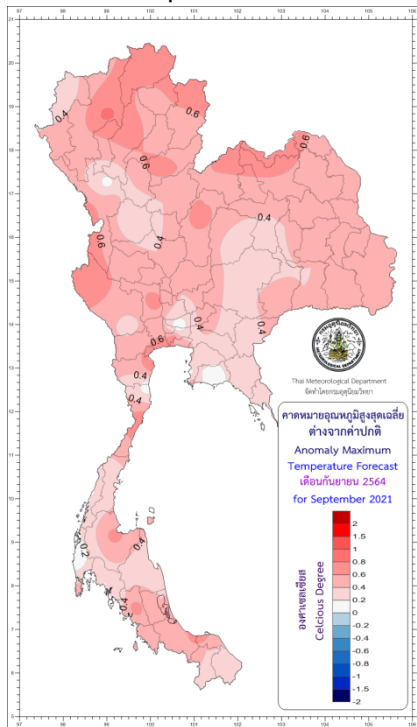
Mean maximum temperature forecast for October 2021



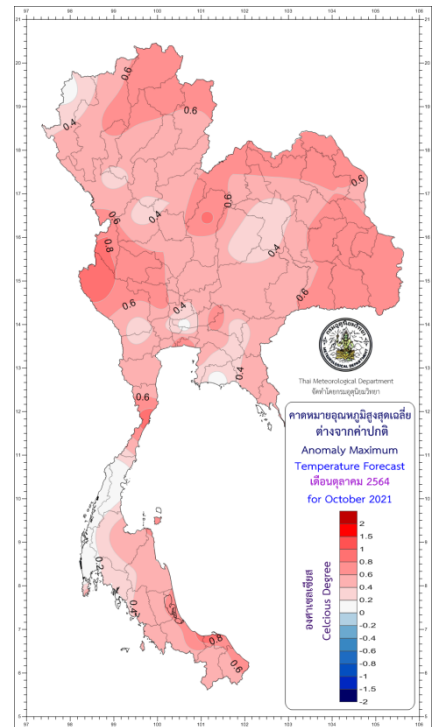
Mean maximum temperature anomaly forecast for August 2021



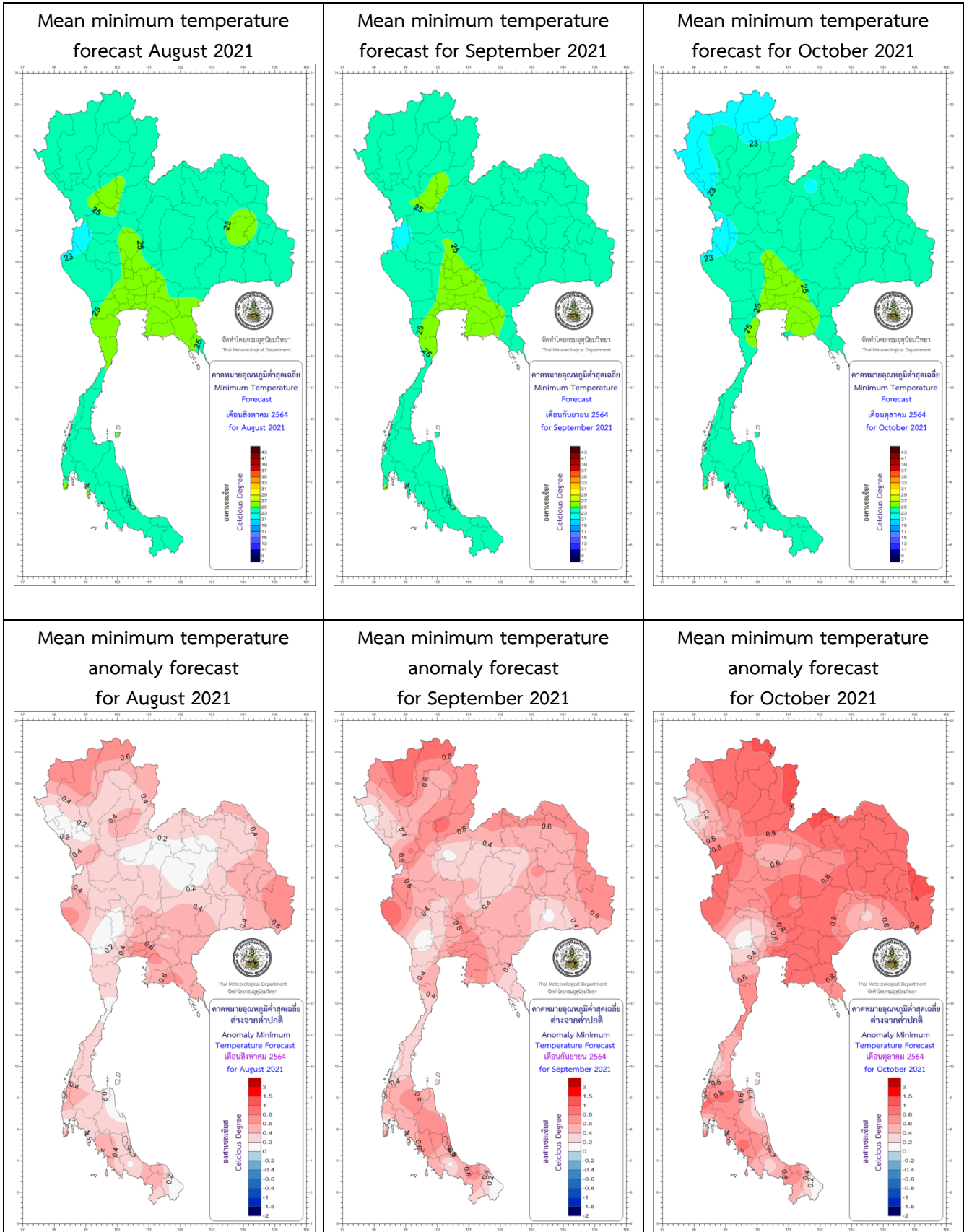
Mean maximum temperature anomaly forecast for September 2021



Mean maximum temperature anomaly forecast for October 2021



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



\*\*\* Caution: \*\*\*

August and September 2021: Some tropical cyclones may develop at the western side of the northern Pacific Ocean and move northwesterly pass the South China Sea. They favor a high chance to pass the Upper Thailand causing Thailand to meet dense rainfall with heavy to very heavy rain amount at many areas, especially around the areas where the tropical cyclones move trough. Consequently, flash and forest flood with overflow will inundate at many areas. Thus, the public should follow the weather forecast news and tropical cyclone warnings from the Thai Meteorological Department further.

October 2021: Some tropical cyclones favor a high chance to pass the tip of the Indochina Peninsula toward or near the Southern Thailand. Thus, the Southern Thailand and nearby areas 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](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:

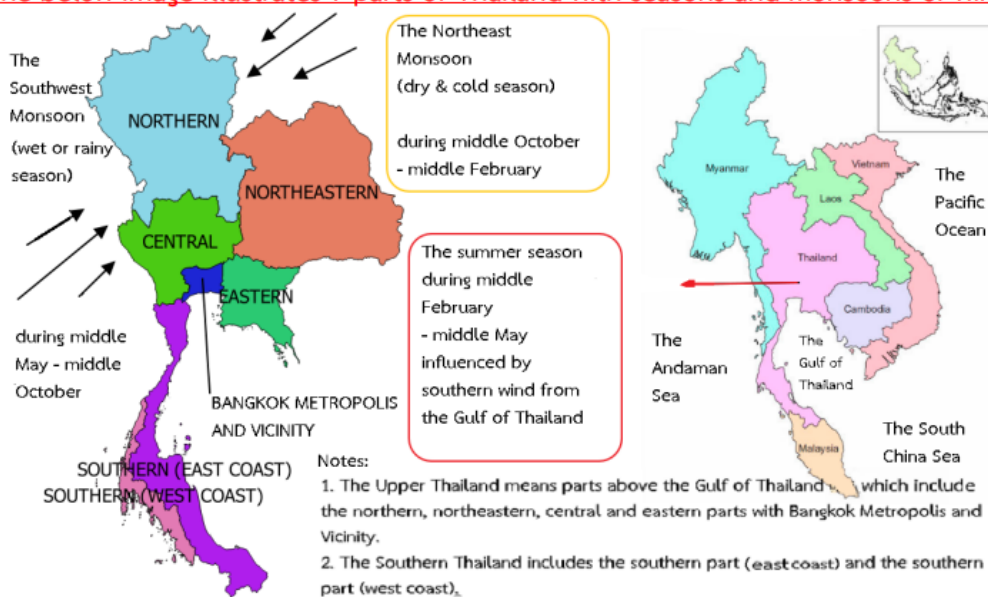


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1981-2010)					
	August 2021			September 2021			October 2021			August		September		October	
	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	200-250	20-20	5 % Above normal	200-250	17-19	Near normal	120-160	12-14	10 % Above normal	223.0	21.0	218.3	18.3	124.1	12.0
Northeastern	240-300	19-21	Near normal	230-290	17-19	5 % Above normal	100-140	10-12	5 % Above normal	266.2	19.4	242.0	17.7	117.1	10.4
Central	150-190	18-20	Near normal	220-280	18-20	Near normal	150-210	14-16	5 % Above normal	181.1	18.2	257.3	19.2	167.1	14.4
Eastern	270-330	18-20	Near normal	290-360	19-21	Near normal	210-270	16-18	5 % Above normal	302.5	18.4	330.1	19.9	225.1	16.5
Southern Thailand (East Coast)	100-140	14-16	5 % Below normal	120-160	15-17	5 % Below normal	240-300	18-20	5 % Above normal	124.1	15.4	149.8	16.7	255.3	18.6
Southern Thailand (West Coast)	340-420	19-21	5 % Below normal	360-440	21-23	5 % Below normal	340-420	22-24	5 % Above normal	398.5	20.5	423.7	22.4	366.5	22.8
Bangkok Metropolis and Vicinity	190-240	18-20	5 % Above normal	290-350	20-22	Near normal	230-290	17-19	5 % Above normal	219.3	19.1	334.3	21.1	246.1	17.5

Table 2 : Prediction of Mean Maximum Temperature (Tmax) and Mean Minimum Temperature (Tmin) (°C) comparing with normal:

Part	Prediction									Normal (Baseline period: 1981-2010)					
	August 2021			September 2021			October 2021			August		September		October	
	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	31-33	23-25	Above normal	32-34	23-25	Above normal	32-34	23-25	Above normal	31.8	23.8	32.2	23.5	31.9	22.5
Northeastern	32-34	24-26	Above normal	31-33	24-26	Above normal	31-33	23-25	Above normal	32.2	24.4	31.9	24.0	31.4	22.8
Central	33-35	24-26	Above normal	32-34	24-26	Above normal	32-34	24-26	Above normal	33.1	24.8	32.9	24.7	32.4	24.2
Eastern	32-34	25-27	Above normal	31-33	24-26	Above normal	31-33	24-26	Above normal	32.0	25.3	31.9	24.7	32.0	24.1
Southern (East Coast)	33-35	24-26	Above normal	32-34	24-26	Above normal	31-33	24-26	Above normal	32.8	24.2	32.3	24.1	31.4	23.8
Southern (West Coast)	31-33	24-26	Above normal	31-33	23-25	Above normal	30-32	23-25	Above normal	31.5	24.4	31.1	23.9	31.2	23.7
Bangkok and Vicinity	33-35	25-27	Above normal	32-34	25-27	Above normal	32-34	25-27	Above normal	33.0	25.5	32.8	25.0	32.6	24.8

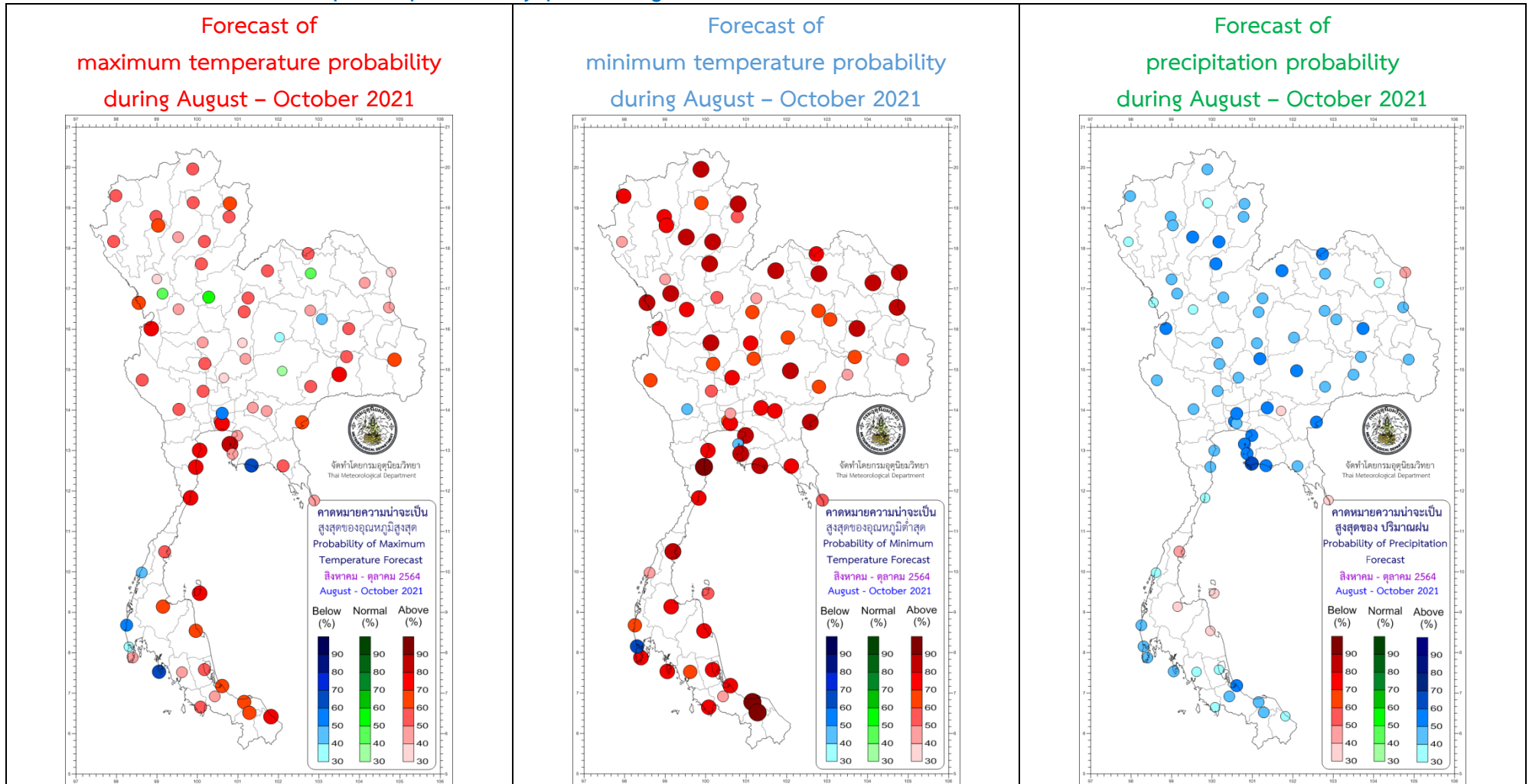
**Remarks:** - Normal means average during the 30-year period (A.D. 1981 – 2010 or B.E. 2524 – 2553).

- 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.
- The next 3-month climate forecast will be published online before the end of May 2020.
- Further enquiry of monthly climate, 3-month climate and seasonal forecasts can be preceded at Tel: (662)-398-9929 or Fax: (662)-383-8827.

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.