



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,
THAI METEOROLOGICAL DEPARTMENT

3-month Climate Prediction of Thailand

During August – October 2020

Issued on 30 July 2020

Thailand climate for August – September - October 2020 from baseline: 1981-2010

August 2020: 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.

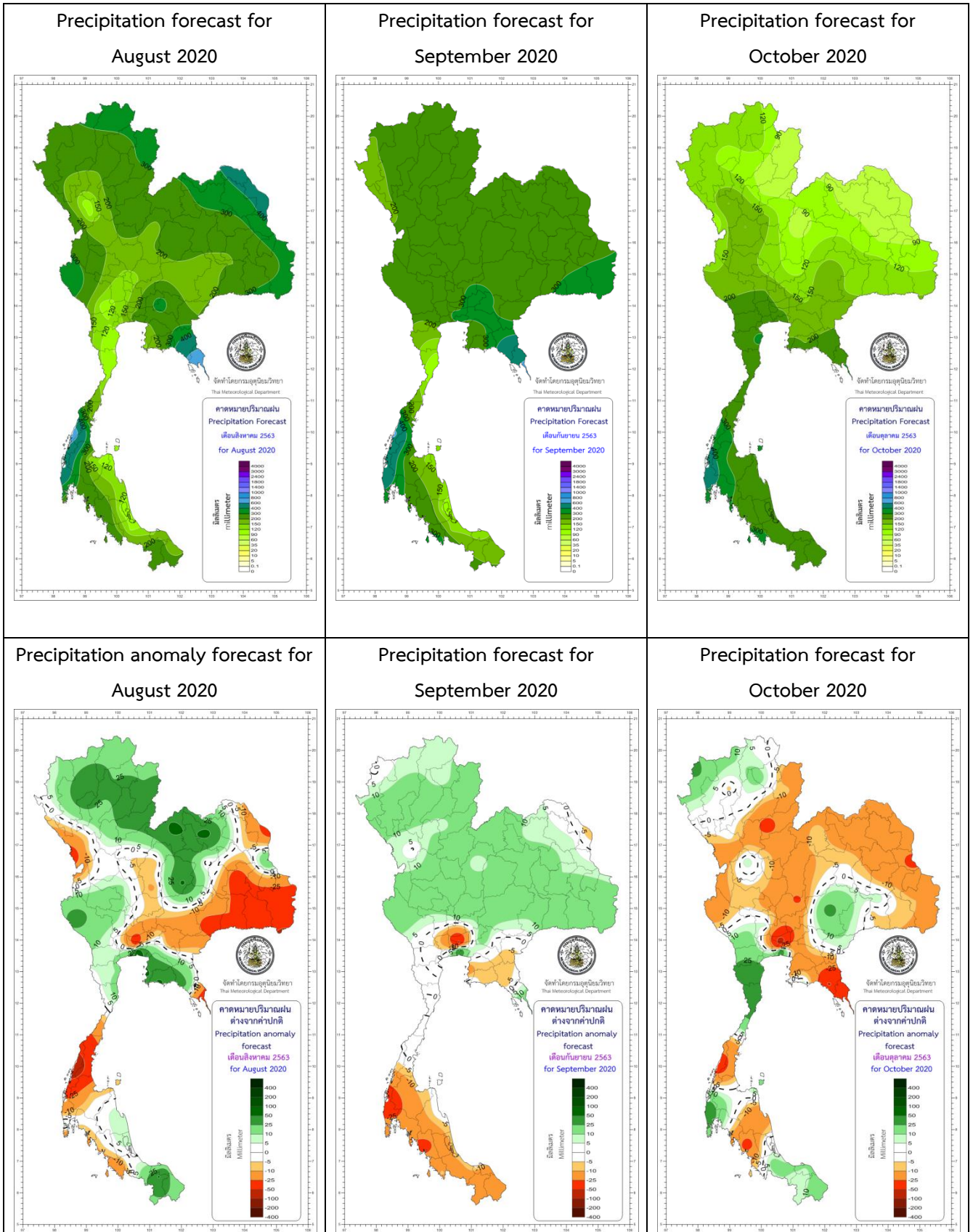
September 2020: Thailand will meet densely abundant rainfall. In fact, most areas will be affected by the most densely abundant monthly rainfall for the whole year. The reason is that the influential low-pressure trough places on the central portion of Thailand along with some tropical cyclones move to dissipate near or toward Thailand directly, specifically at the eastern portion of the country.

October 2020: 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.

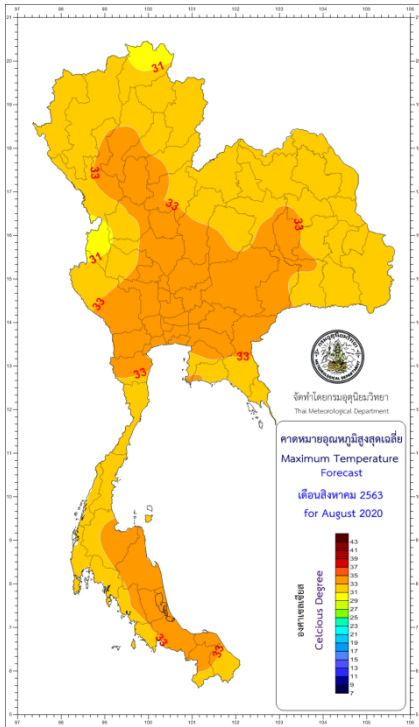
In addition, some tropical cyclones may move near or toward Thailand at the eastern portion of the country; their moving could be successive toward the upper portion of the Gulf of Thailand and the Southern Thailand further.

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

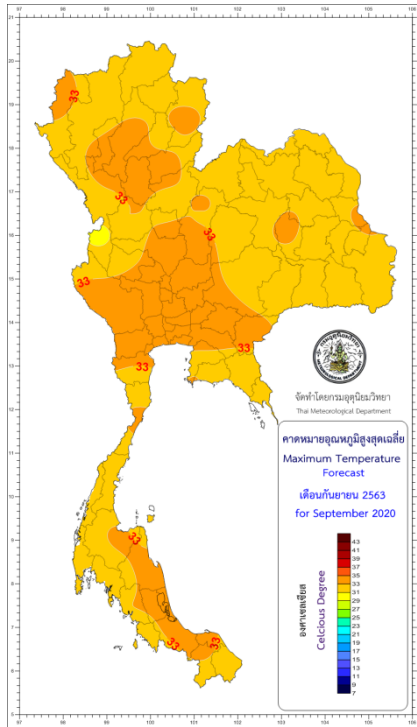


Mean Maximum Temperature (°C) and Anomaly (°C) Forecast:

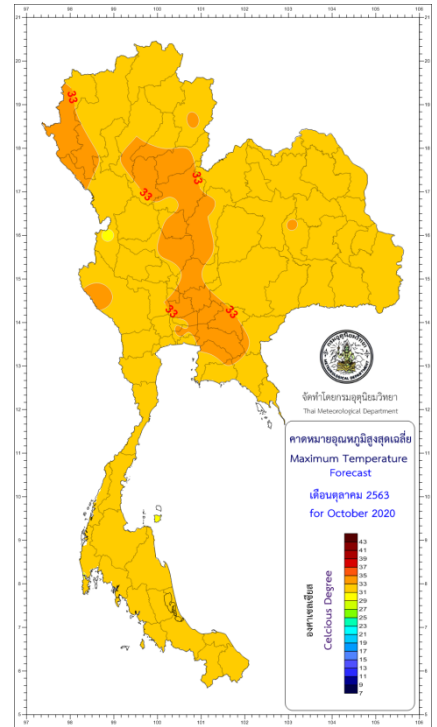
Mean maximum temperature forecast for August 2020



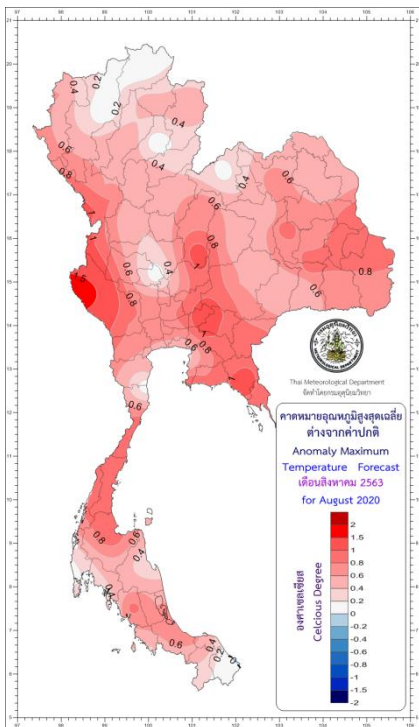
Mean maximum temperature forecast for September 2020



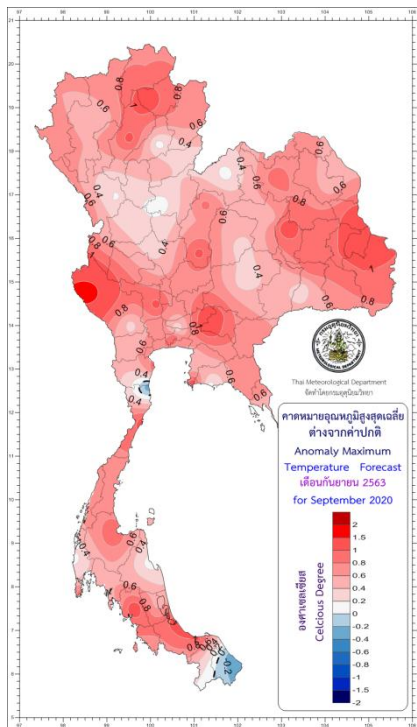
Mean maximum temperature forecast for October 2020



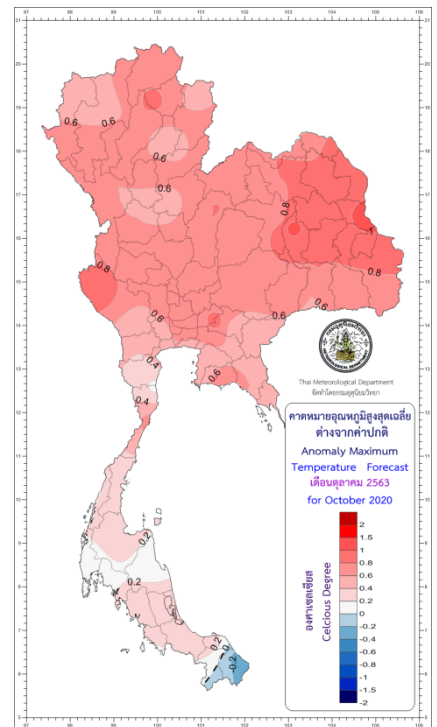
Mean maximum temperature anomaly forecast for August 2020



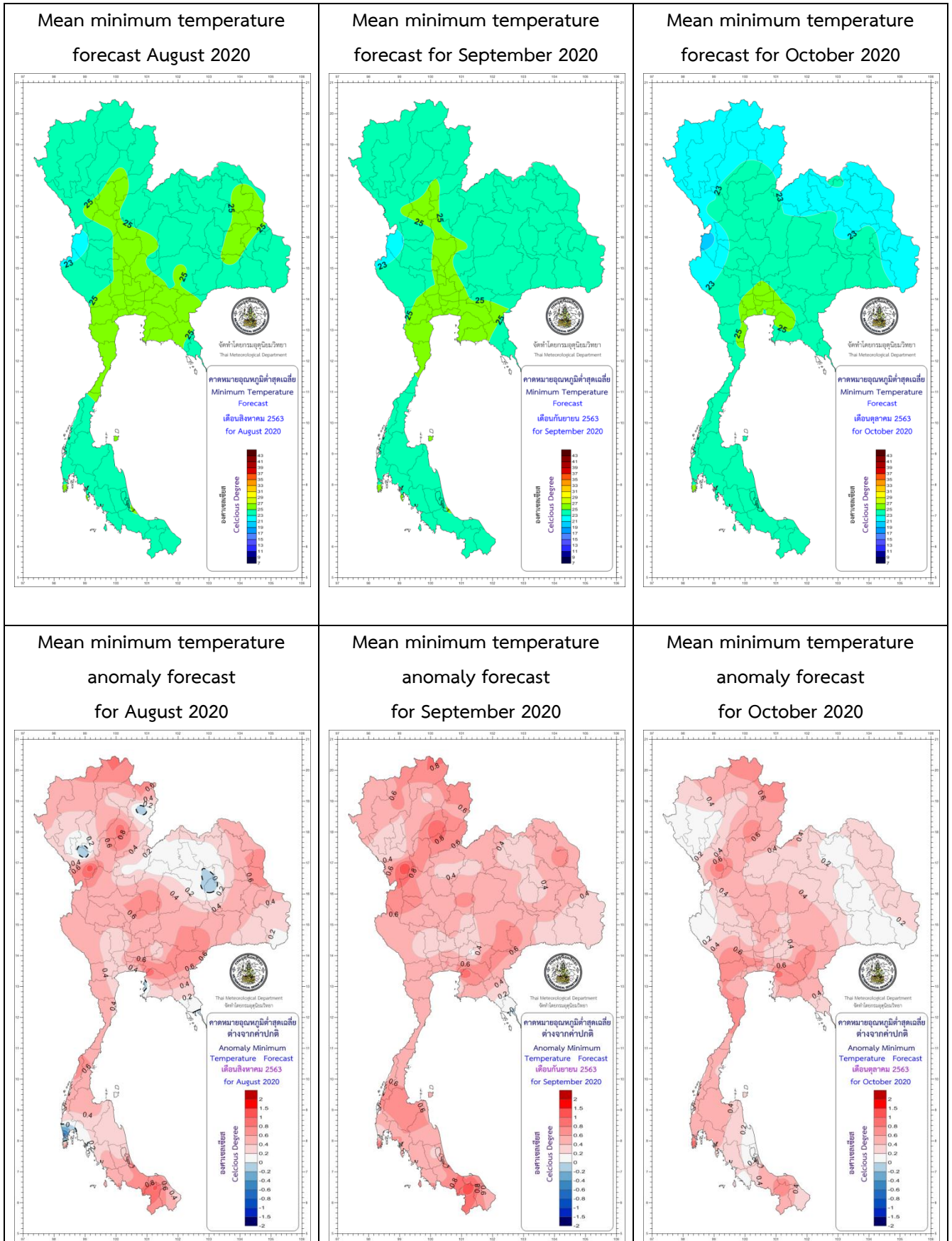
Mean maximum temperature anomaly forecast for September 2020



Mean maximum temperature anomaly forecast for October 2020



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



*** Caution: ***

August and September 2020: 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 2020: 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

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

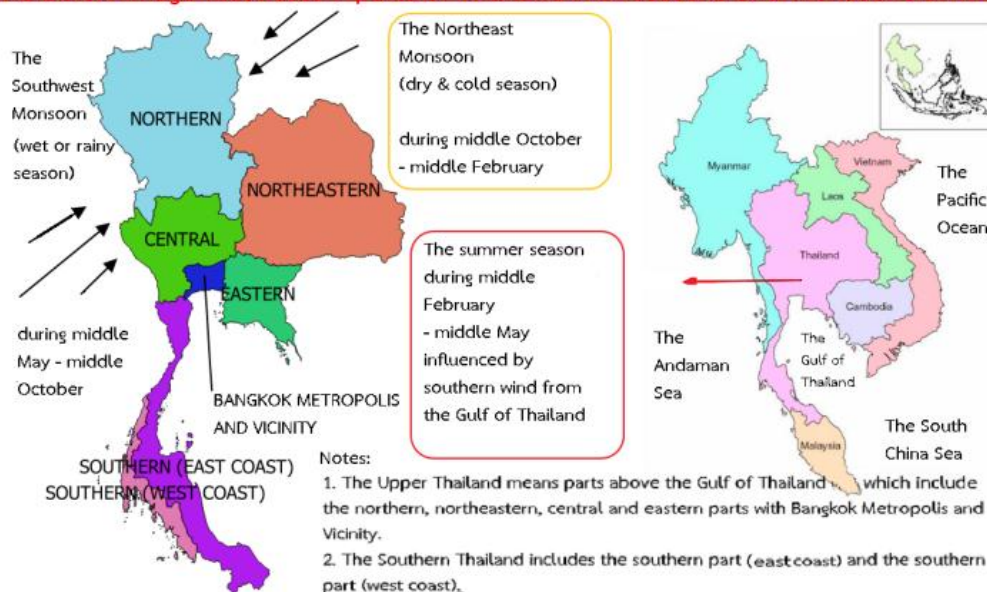


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1981-2010)					
	August 2020			September 2020			October 2020			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	19-22	5 % Above normal	200-250	17-20	5 % Above normal	90-120	11-13	5 % Below normal	223.0	21.0	218.3	18.3	124.1	12.0
Northeastern	230-280	18-21	Near normal	230-280	17-20	5 % Above normal	90-120	9-11	5 % Below normal	266.2	19.4	242.0	17.7	117.1	10.4
Central	170-210	17-20	5 % Above normal	240-290	18-21	5 % Above normal	150-190	13-15	5 % Below normal	181.1	18.2	257.3	19.2	187.1	14.4
Eastern	290-340	17-20	5 % Above normal	300-350	19-22	Near normal	190-230	15-18	5 % Below normal	302.5	18.4	330.1	19.9	225.1	16.5
Southern Thailand (East Coast)	100-150	14-16	5 % Above normal	120-160	15-18	5 % Below normal	250-300	17-20	5 % Above normal	124.1	15.4	149.8	16.7	255.3	18.6
Southern Thailand (West Coast)	350-450	18-21	5 % Below normal	350-450	20-23	5 % Below normal	300-400	21-24	Near normal	398.5	20.5	423.7	22.4	366.5	22.8
Bangkok Metropolis and Vicinity	200-250	18-21	5 % Above normal	300-350	21-24	Near normal	240-290	16-19	5 % Below normal	219.3	19.1	334.3	21.1	292.1	17.5

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

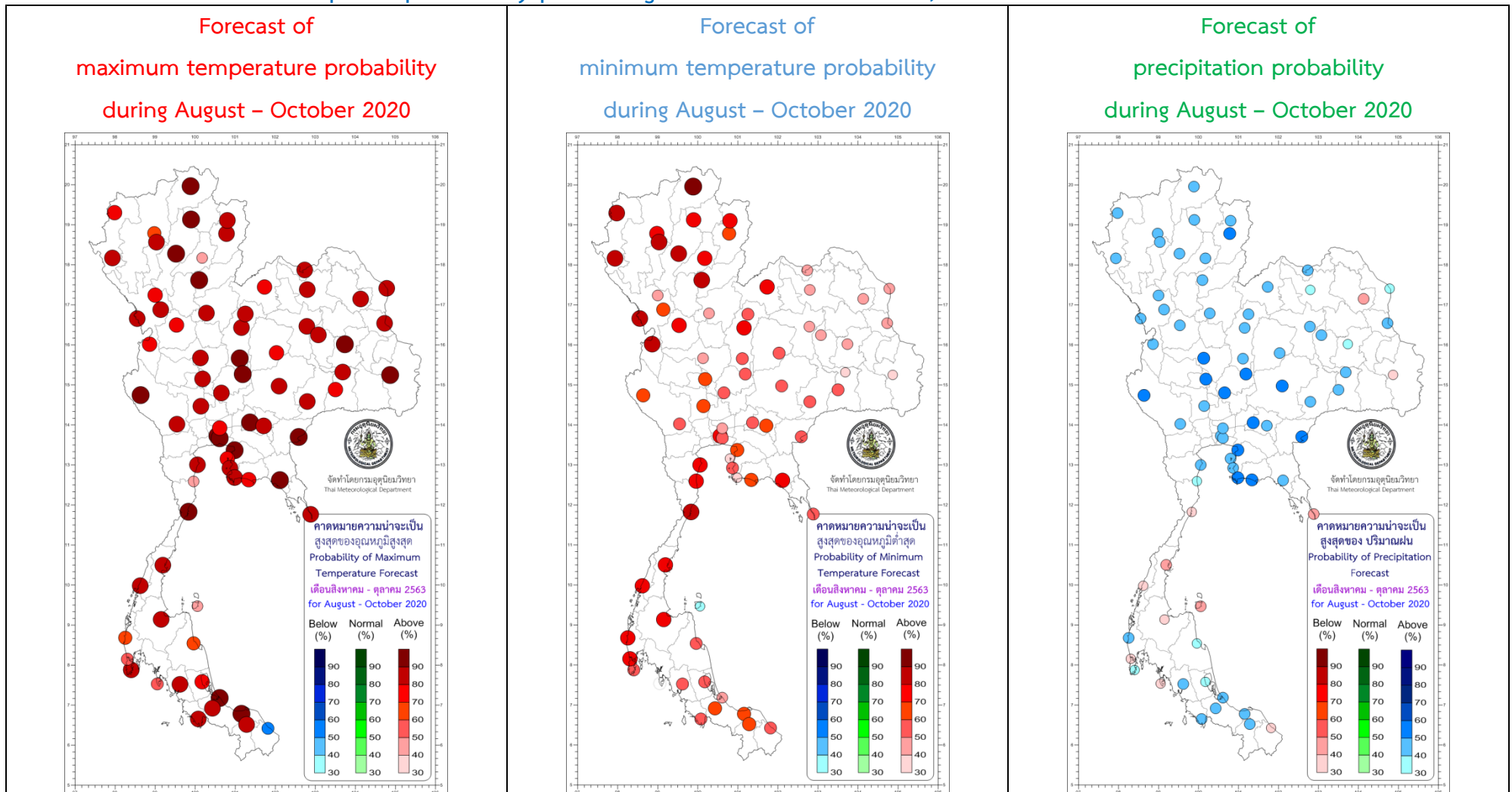
Part	Prediction									Normal (Baseline period: 1981-2010)					
	August 2020			September 2020			October 2020			August		September		October	
	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Mean Tmax	Mean Tmin	Mean Tmax	Mean Tmin
Northern	32-34	23-25	Above normal	32-34	23-25	Above normal	32-34	22-24	Above normal	31.8	23.8	32.2	23.5	31.9	22.5
Northeastern	32-34	24-26	Above normal	32-34	24-26	Above normal	31-33	22-24	Above normal	32.2	24.4	31.9	24.0	31.4	22.8
Central	33-35	24-26	Above normal	33-35	24-26	Above normal	32-34	23-25	Above normal	33.1	24.8	32.9	24.7	32.4	24.2
Eastern	32-34	24-26	Above normal	32-34	24-26	Above normal	32-34	24-26	Above normal	32.0	25.3	31.9	24.7	32.0	24.1
Southern (East Coast)	32-34	24-26	Above normal	32-34	24-26	Above normal	31-33	23-25	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	24-26	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	33-35	25-27	Above normal	32-34	24-26	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.