MINISTRY OF DIGITAL ECONOMY AND SOCIETY,
THAI METEOROLOGICAL DEPARTMENT

3-month Climate Prediction of Thailand

During July – September 2020

Issued on 29 June 2020

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

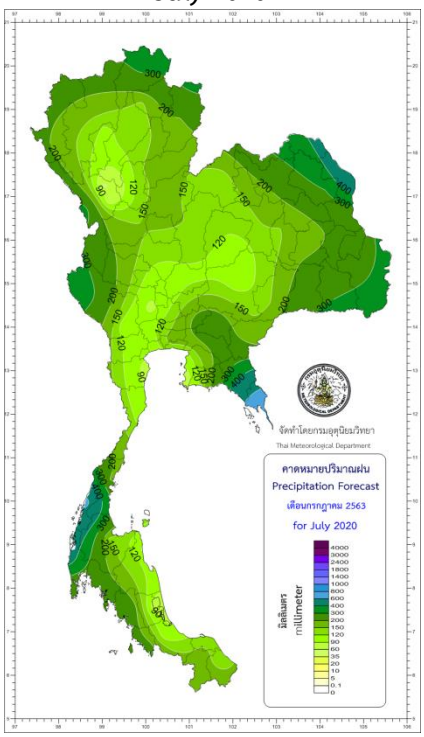
July 2020: During the 1st half of this month, the dry spell will often occur continuously from late June because the low-pressure trough still prevails over the southern portion of China along with the Southwest Monsoon prevailing over Thailand mostly weakens. As a result, many areas will meet little or no rain continuously for many days. Later during the 2nd half of this month, abundant rainfall will happen again because of the coming back low-pressure trough moving downward to place over the Upper Thailand together with the Southwest Monsoon prevailing over Thailand becoming more active periodically. Additionally, some tropical cyclones may move near or toward Thailand along the eastern portion of Thailand.

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 prevails 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.

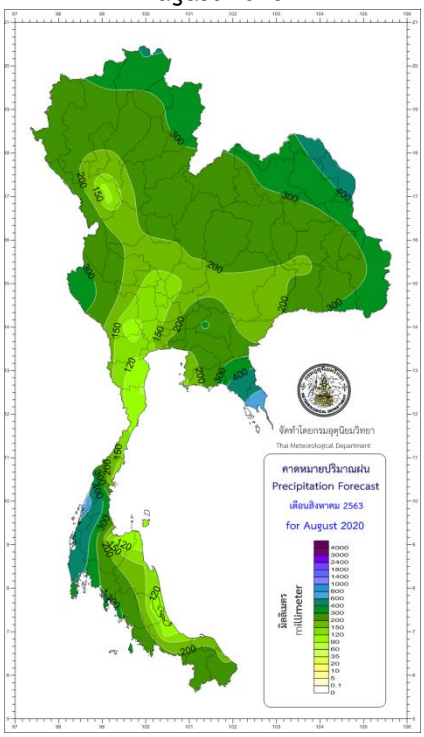
September 2020: Thailand will meet densely abundant rainfall. In fact, most areas will be affected by the most densely abundant monthly rainfall for the whole year. The reason is that the influential low-pressure trough places on the central portion of Thailand along with some tropical cyclones move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

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

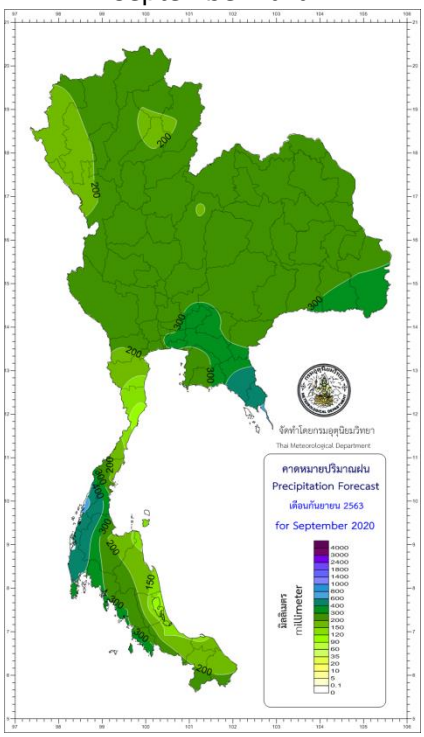
Precipitation forecast for July 2020



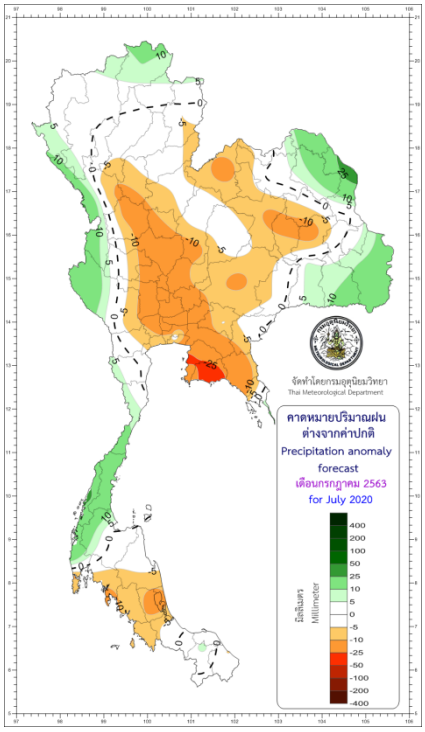
Precipitation forecast for August 2020



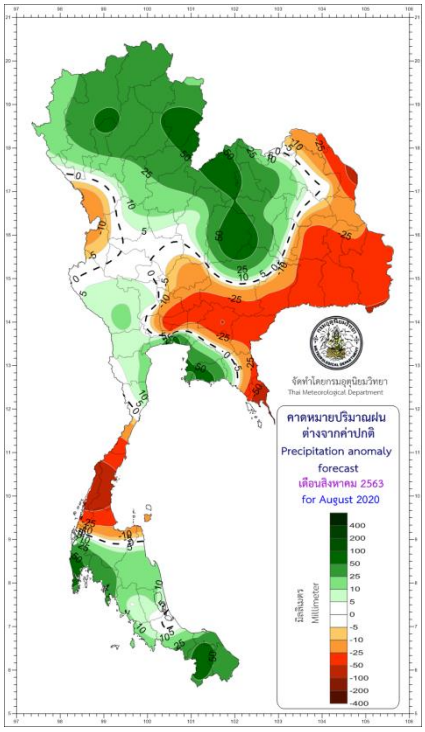
Precipitation forecast for September 2020



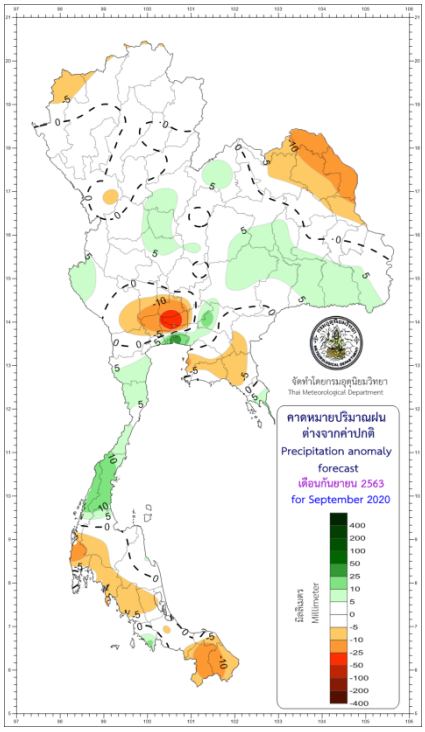
Precipitation anomaly forecast for July 2020



Precipitation forecast for August 2020

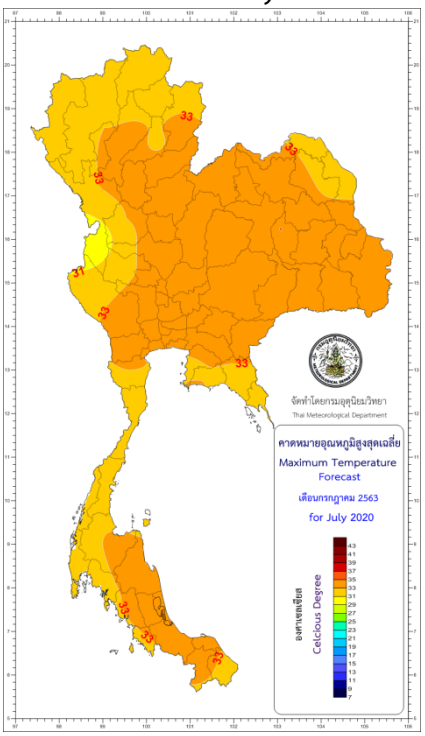


Precipitation forecast for September 2020

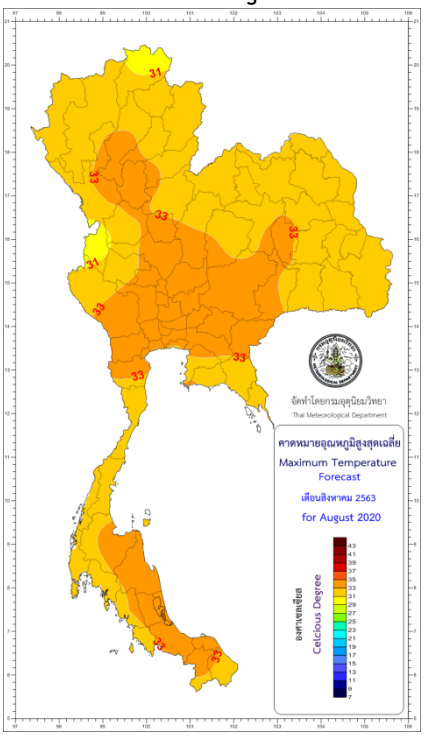


Mean Maximum Temperature (°C) and Anomaly (°C) Forecast:

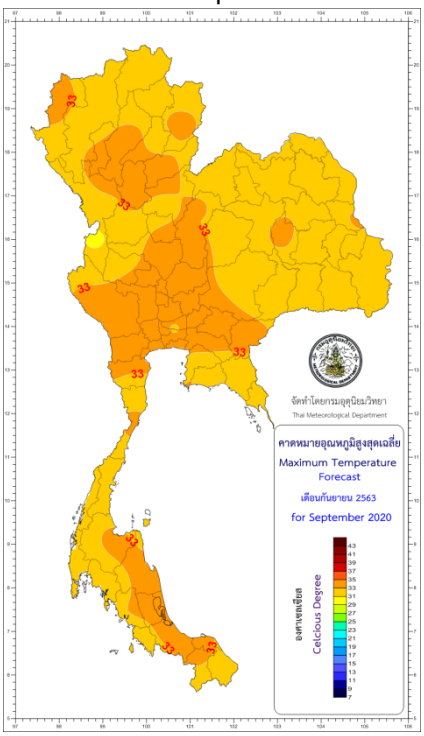
Mean maximum temperature forecast for July 2020



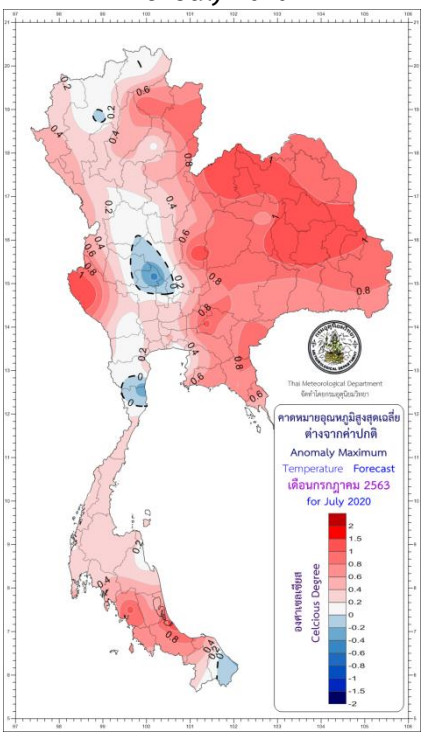
Mean maximum temperature forecast for August 2020



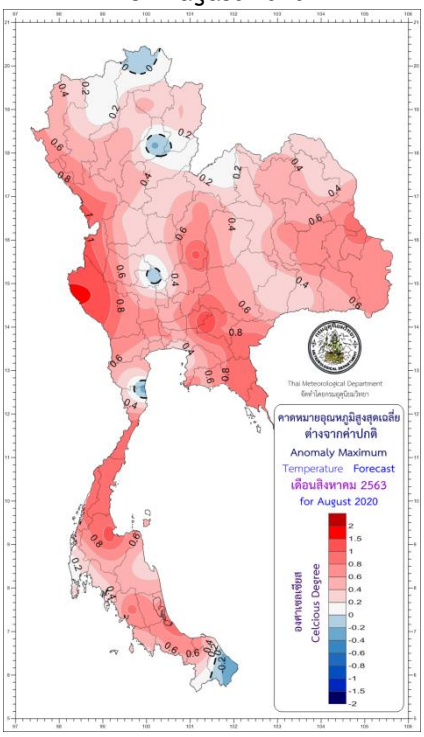
Mean maximum temperature forecast for September 2020



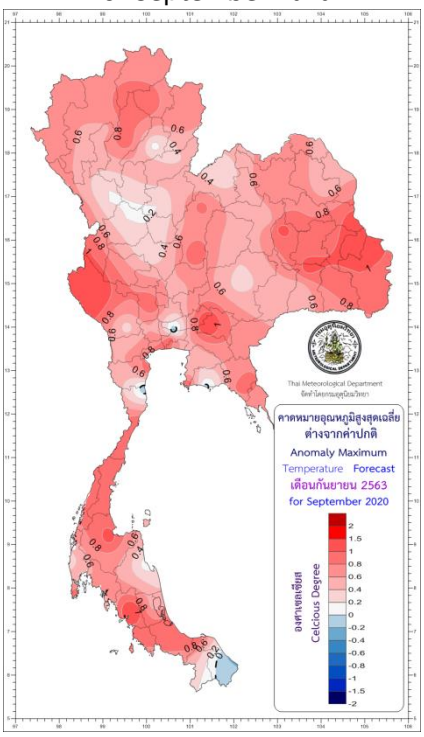
Mean maximum temperature anomaly forecast for July 2020



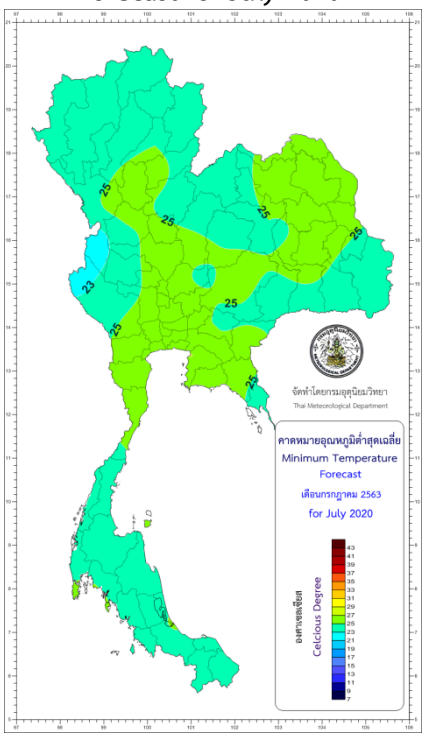
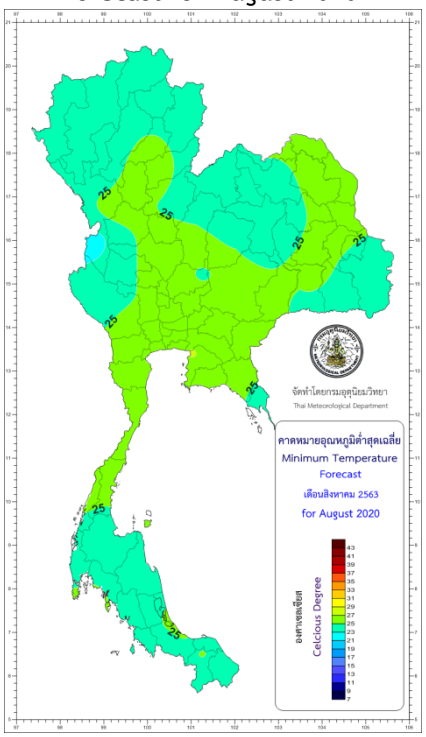
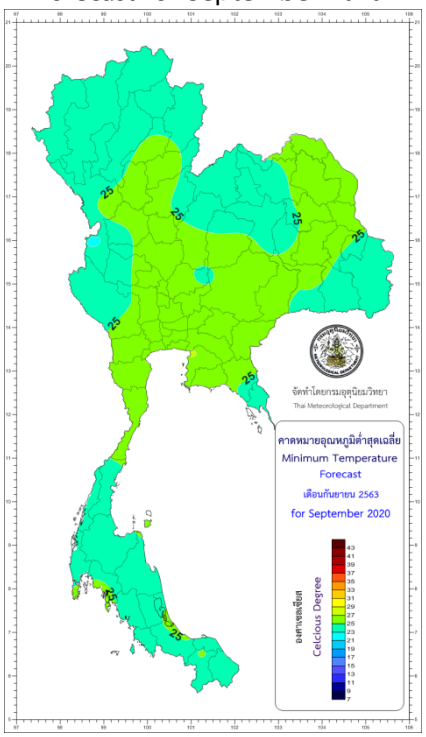
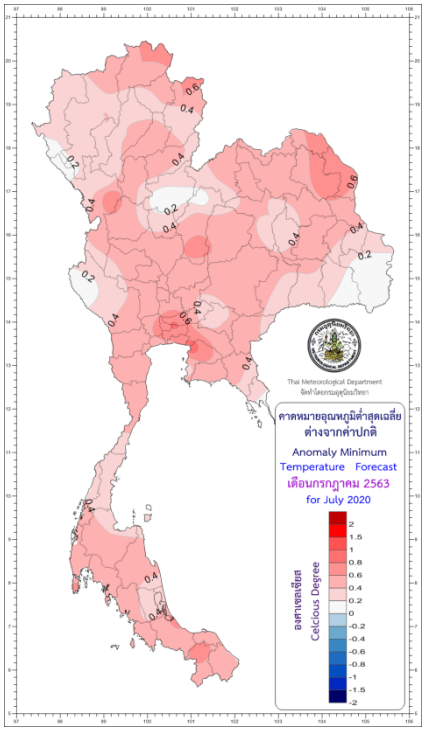
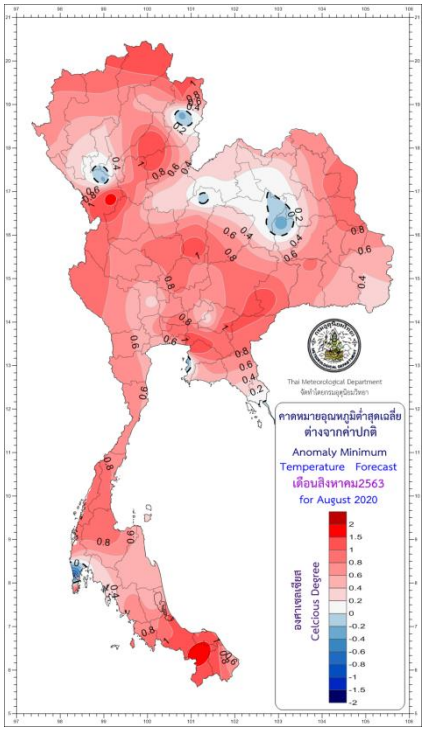
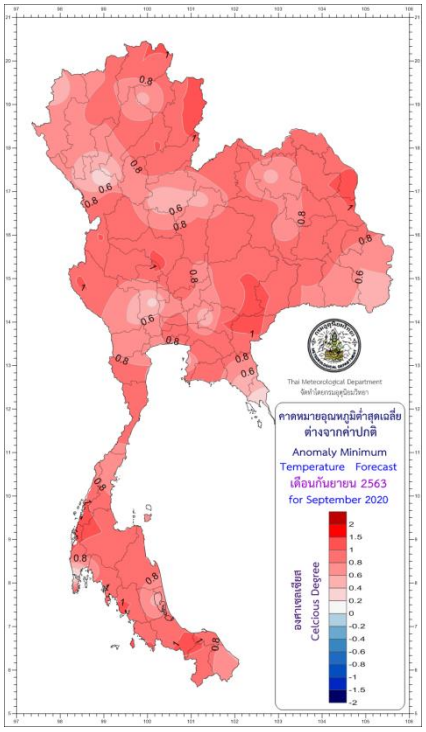
Mean maximum temperature anomaly forecast for August 2020



Mean maximum temperature anomaly forecast for September 2020



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

Mean minimum temperature forecast for July 2020	Mean minimum temperature forecast for August 2020	Mean minimum temperature forecast for September 2020
		
Mean minimum temperature anomaly forecast for July 2020	Mean minimum temperature anomaly forecast for August 2020	Mean minimum temperature anomaly forecast for September 2020
		

*** Caution: ***

July 2020: Some tropical cyclones may develop at the western side of the northern Pacific Ocean and move pass the Philippines toward the South China Sea. Then, they may move northwesterly pass the Gulf of Tonkin and influence the Southwest Monsoon prevailing over Thailand and the Gulf of Thailand to strengthen. Consequently, Thailand will meet more rainfall, especially at the eastern part and the Southern Thailand (west coast).

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.

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:

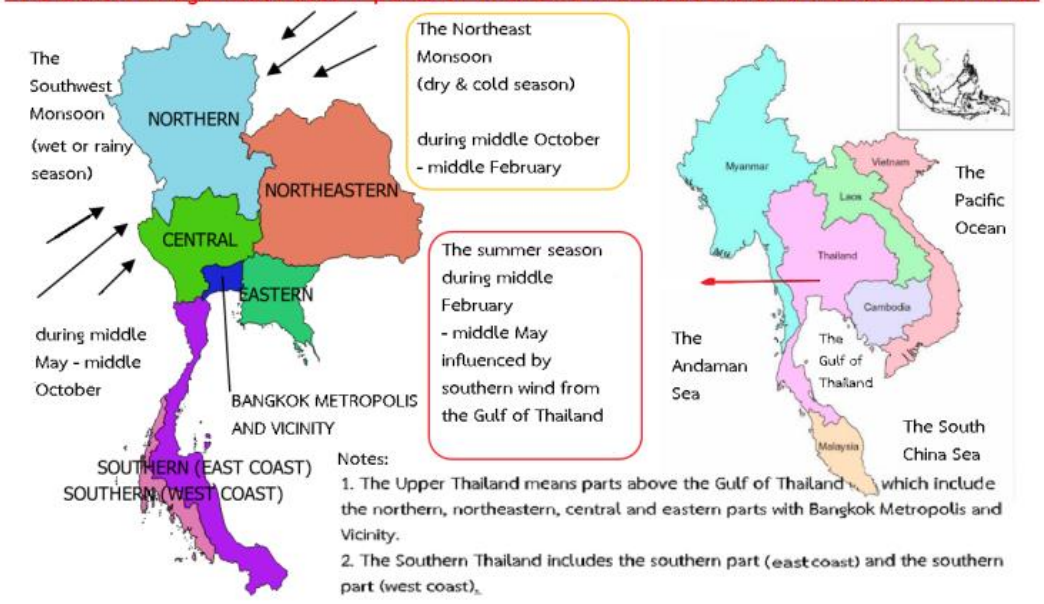


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal (Baseline period: 1981-2010)					
	July 2020			August 2020			September 2020			July		August		September	
	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	160-200	18-21	Near normal	210-260	20-22	10 % Above normal	200-240	17-20	Near normal	176.0	19.4	223.0	21.0	218.3	18.3
Northeastern	190-230	16-19	Near normal	240-290	18-21	Near normal	220-270	17-20	Near normal	211.4	17.4	266.2	19.4	242.0	17.7
Central	120-160	15-18	5 % Below normal	160-200	17-20	Near normal	230-280	18-21	Near normal	155.5	16.4	181.1	18.2	257.3	19.2
Eastern	240-290	16-18	5 % Below normal	280-330	17-20	Near normal	300-360	19-22	Near normal	277.5	17.2	302.5	18.4	330.1	19.9
Southern Thailand (East Coast)	100-140	13-15	Near normal	110-150	14-16	5 % Above normal	130-170	15-18	Near normal	118.9	14.5	124.1	15.4	149.8	16.7
Southern Thailand (West Coast)	310-360	18-21	Near normal	360-460	19-22	5 % Above normal	370-470	21-24	Near normal	336.5	19.8	398.5	20.5	423.7	22.4
Bangkok Metropolis and Vicinity	150-190	16-19	5 % Below normal	200-240	18-21	Near normal	310-360	20-23	Near normal	175.1	17.1	219.3	19.1	334.3	21.1

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

Part	Prediction									Normal (Baseline period: 1981-2010)					
	July 2020			August 2020			September 2020			July		August		September	
	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	31-33	23-25	Above normal	32-34	23-25	Above normal	32.1	24.0	31.8	23.8	32.2	23.5
Northeastern	33-35	24-26	Above normal	32-34	24-26	Above normal	31-33	24-26	Above normal	32.8	24.6	32.2	24.4	31.9	24.0
Central	33-35	24-26	Above normal	33-35	24-26	Above normal	33-35	24-26	Above normal	33.4	25.1	33.1	24.8	32.9	24.7
Eastern	32-34	25-27	Above normal	32-34	25-27	Above normal	32-34	24-26	Above normal	32.2	25.3	32.0	25.3	31.9	24.7
Southern (East Coast)	32-34	24-26	Above normal	32-34	24-26	Above normal	32-34	24-26	Above normal	32.8	24.4	32.8	24.2	32.3	24.1
Southern (West Coast)	31-33	24-26	Above normal	31-33	24-26	Above normal	31-33	24-26	Above normal	31.7	24.3	31.5	24.4	31.1	23.9
Bangkok and Vicinity	33-35	25-27	Above normal	32-34	25-27	Above normal	32-34	25-27	Above normal	33.2	25.7	33.0	25.5	32.8	25.0

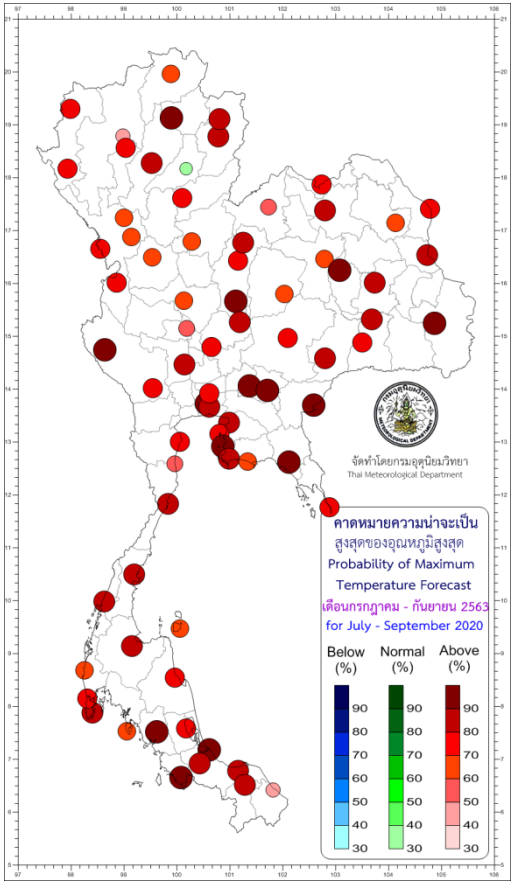
Remarks: - Normal means average during the 30-year period (A.D. 1981 – 2010 or B.E. 2524 – 2553).

- 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.

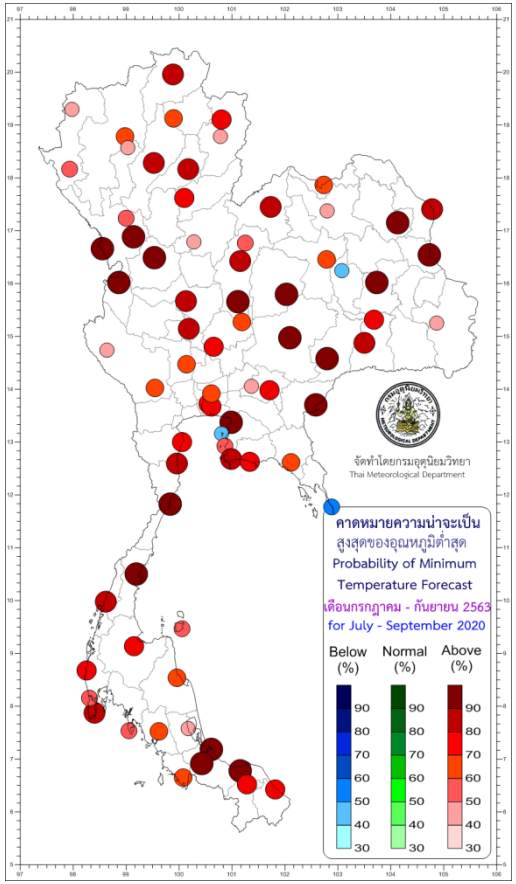
Climate Center, Meteorological Development Division,
Thai Meteorological Department,
Ministry of Digital Economy and Society

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

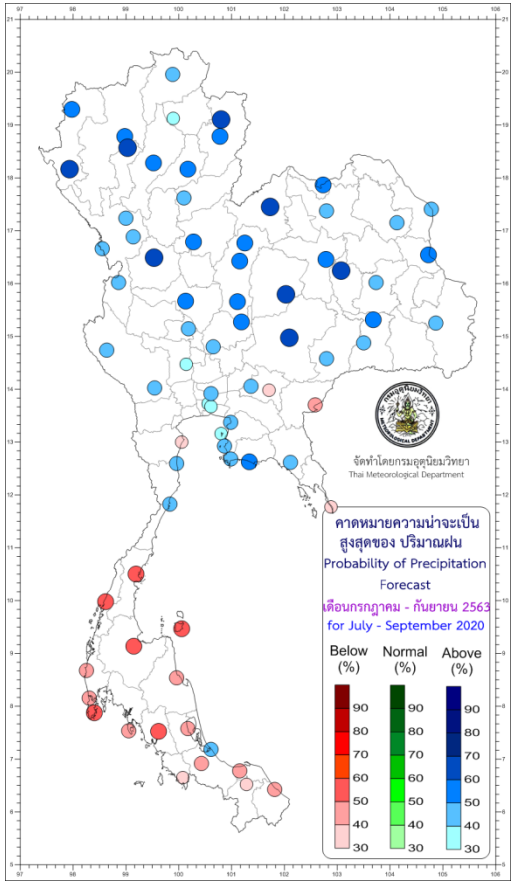
Forecast of
maximum temperature probability
during July – September 2020



Forecast of
minimum temperature probability
during July – September 2020



Forecast of
precipitation probability
during July – September 2020



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

Climate Center, Meteorological Development Division, Thai Meteorological Department www.climate.tmd.go.th