



MINISTRY OF DIGITAL ECONOMY AND SOCIETY,
THAI METEOROLOGICAL DEPARTMENT

3-month Climate Prediction of Thailand During September - November 2021

Issued on 30 August 2021

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.

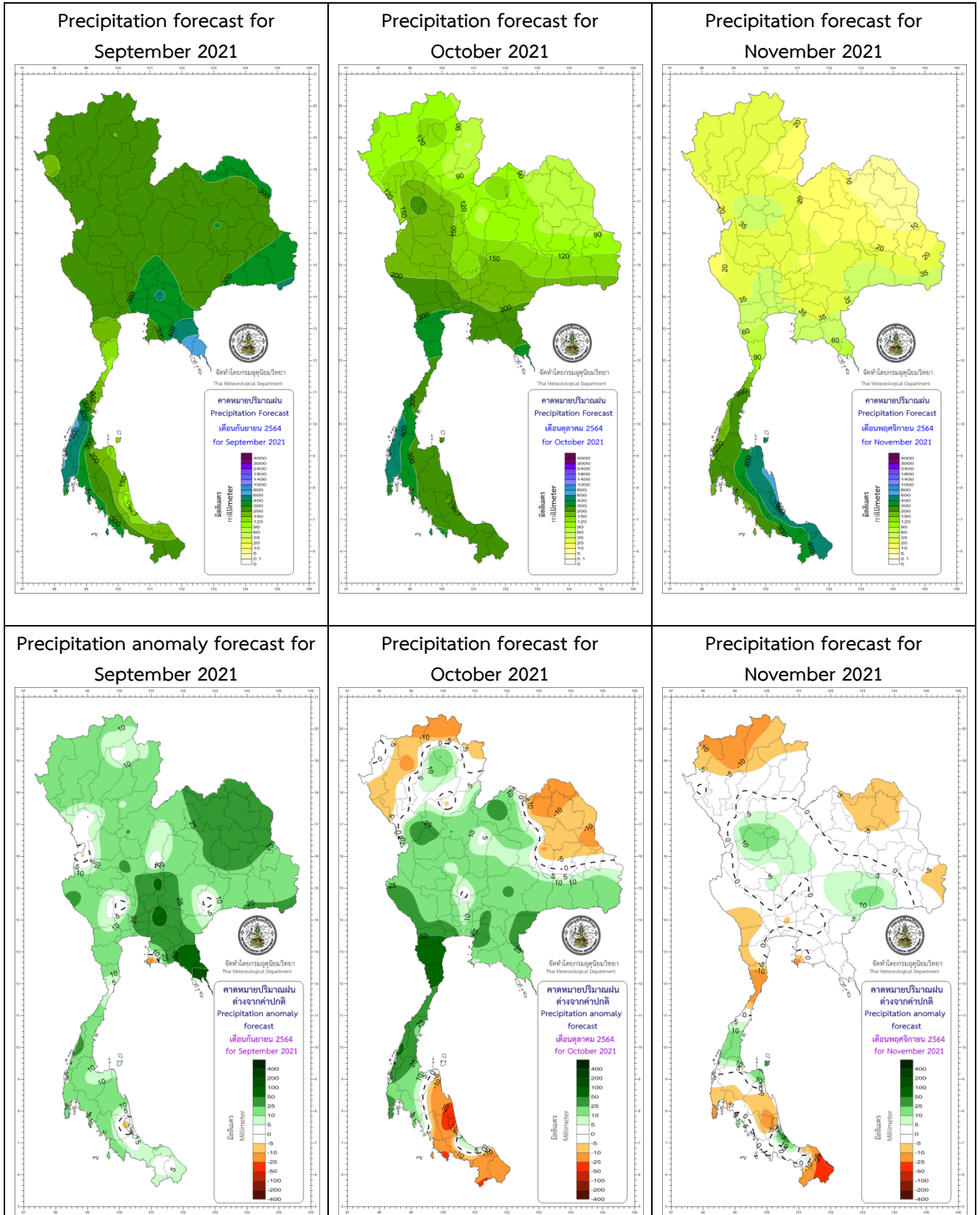
Moreover, the low-pressure trough placing over the central and eastern parts will move downward to place around the Southern Thailand and the Gulf of Thailand during the 2nd half of this month. As a result, the Southern Thailand will meet densely abundant rainfall.

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.

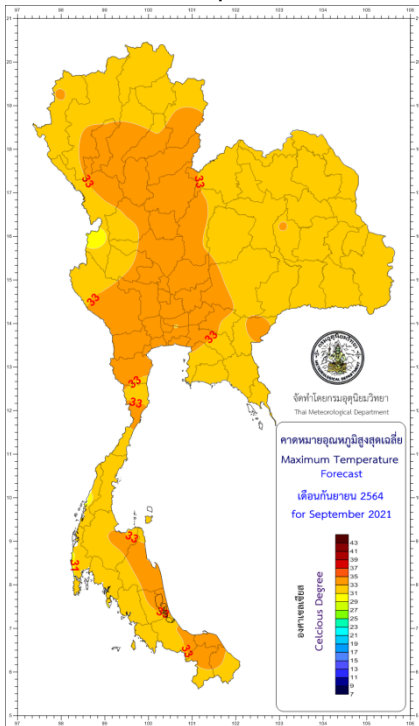
However, the Southern Thailand will still meet abundant rainfall, especially around the east coast. The reason is that the influential Northeastern Monsoon and the low-pressure trough place over the Southern Thailand and the Gulf of Thailand.

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

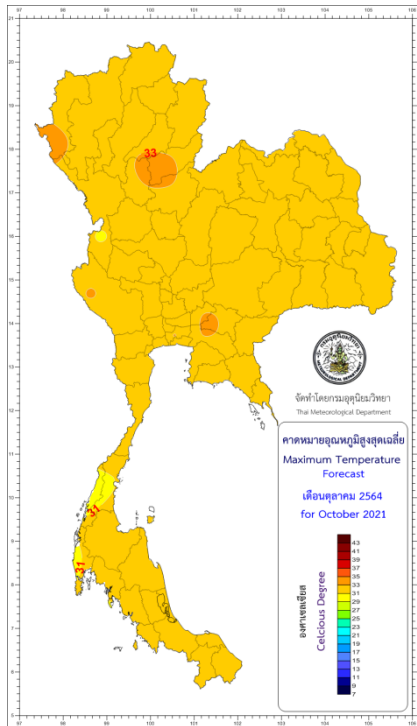


Mean Maximum Temperature (°C) and Anomaly (°C) Forecast:

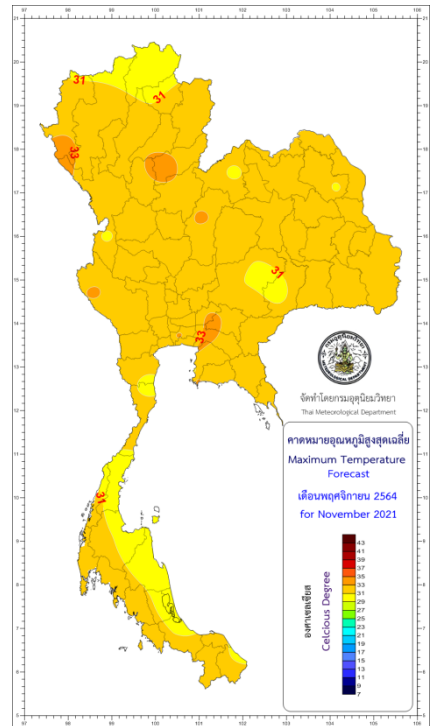
Mean maximum temperature forecast for September 2021



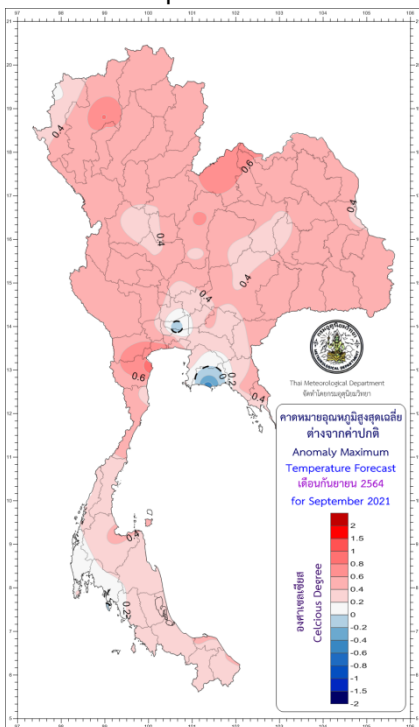
Mean maximum temperature forecast for October 2021



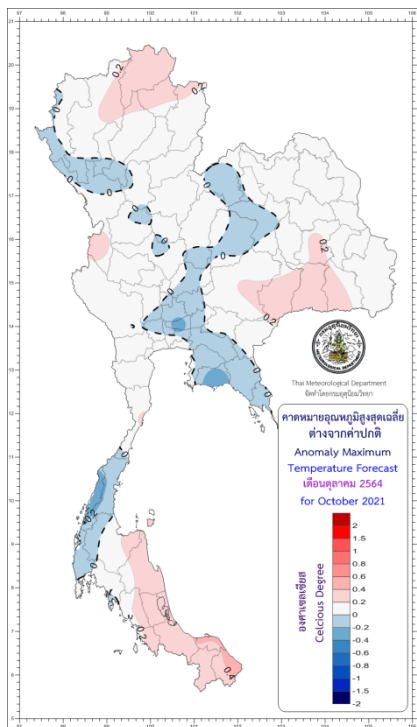
Mean maximum temperature forecast for November 2021



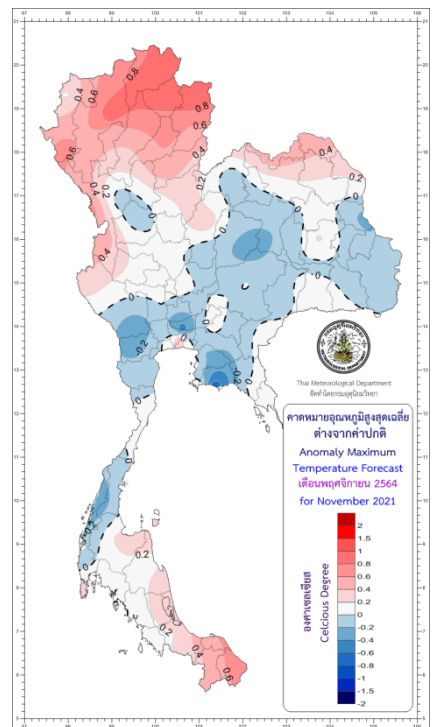
Mean maximum temperature anomaly forecast for September 2021



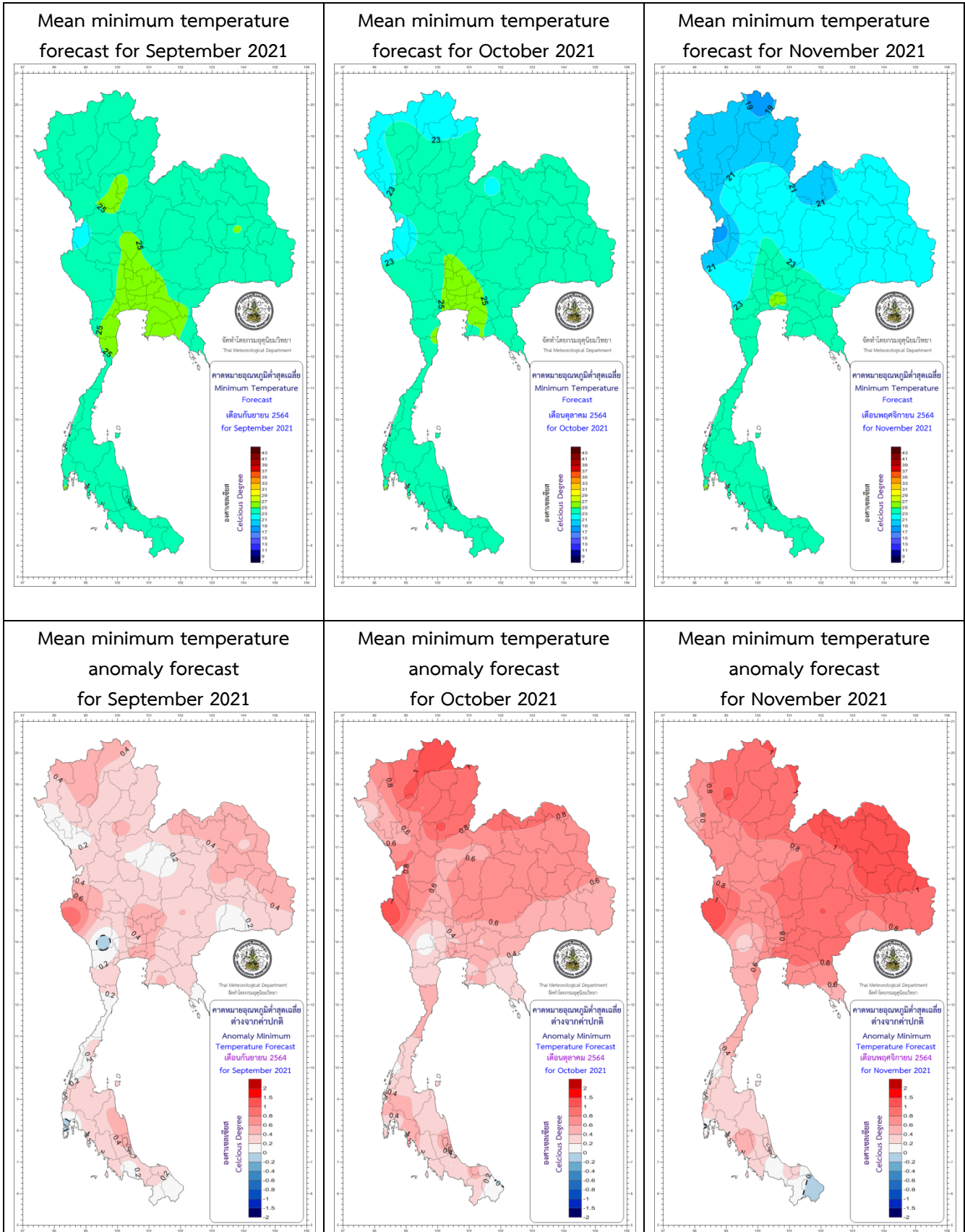
Mean maximum temperature anomaly forecast for October 2021



Mean maximum temperature anomaly forecast for November 2021



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



*** Caution: ***

September 2021: 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 2021: 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:

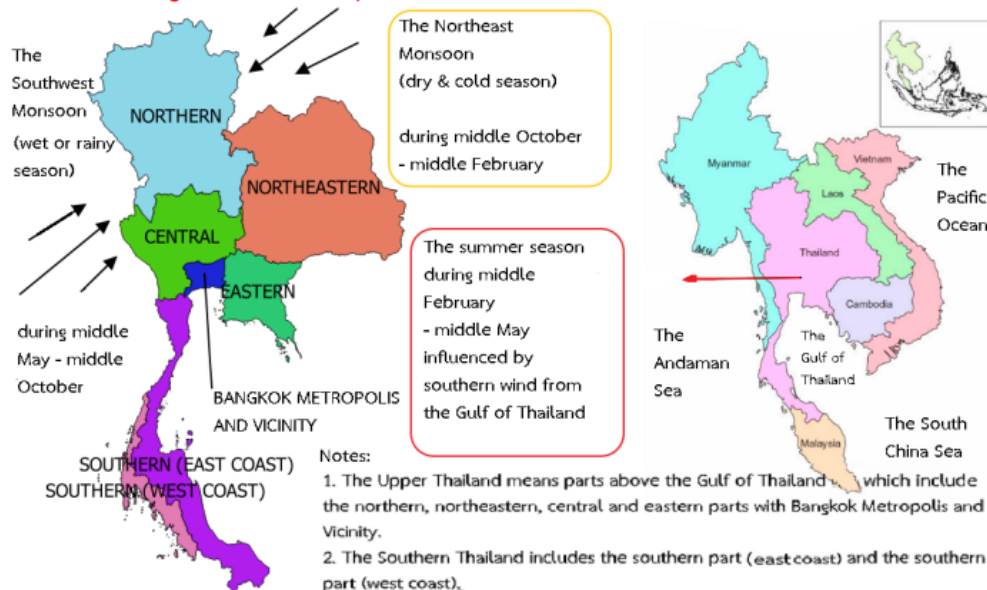


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

Part	Prediction									Normal*					
	September 2021			October 2021			November 2021			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	200-250	17-19	5 % Above normal	100-140	11-13	5 % Above normal	20-40	3-5	Near normal	221.7	18.3	116.6	12.0	26.9	4.1
Northeastern	240-290	17-19	10 % Above normal	100-140	10-12	5 % Above normal	15-30	2-4	Near normal	255.8	17.7	101.5	10.4	18.0	2.9
Central	260-310	19-21	10 % Above normal	180-220	14-16	10 % Above normal	20-40	3-5	Near normal	237.7	19.2	159.5	14.4	28.7	4.1
Eastern	340-390	18-20	10 % Above normal	220-270	16-18	10 % Above normal	40-60	5-7	Near normal	353.3	19.9	218.5	16.5	48.0	5.6
Southern Thailand (East Coast)	140-180	16-18	5 % Above normal	240-290	18-20	5 % Above normal	330-380	16-18	Near normal	147.3	16.7	254.5	18.6	364.5	16.3
Southern Thailand (West Coast)	400-500	21-23	5 % Above normal	360-410	22-24	5 % Above normal	170-210	15-17	Near normal	426.4	22.4	369.8	22.8	192.5	16.2
Bangkok Metropolis and Vicinity	340-390	21-23	10 % Above normal	280-330	17-19	5 % Above normal	30-50	5-7	Near normal	325.6	21.1	244.2	17.5	43.5	5.8

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

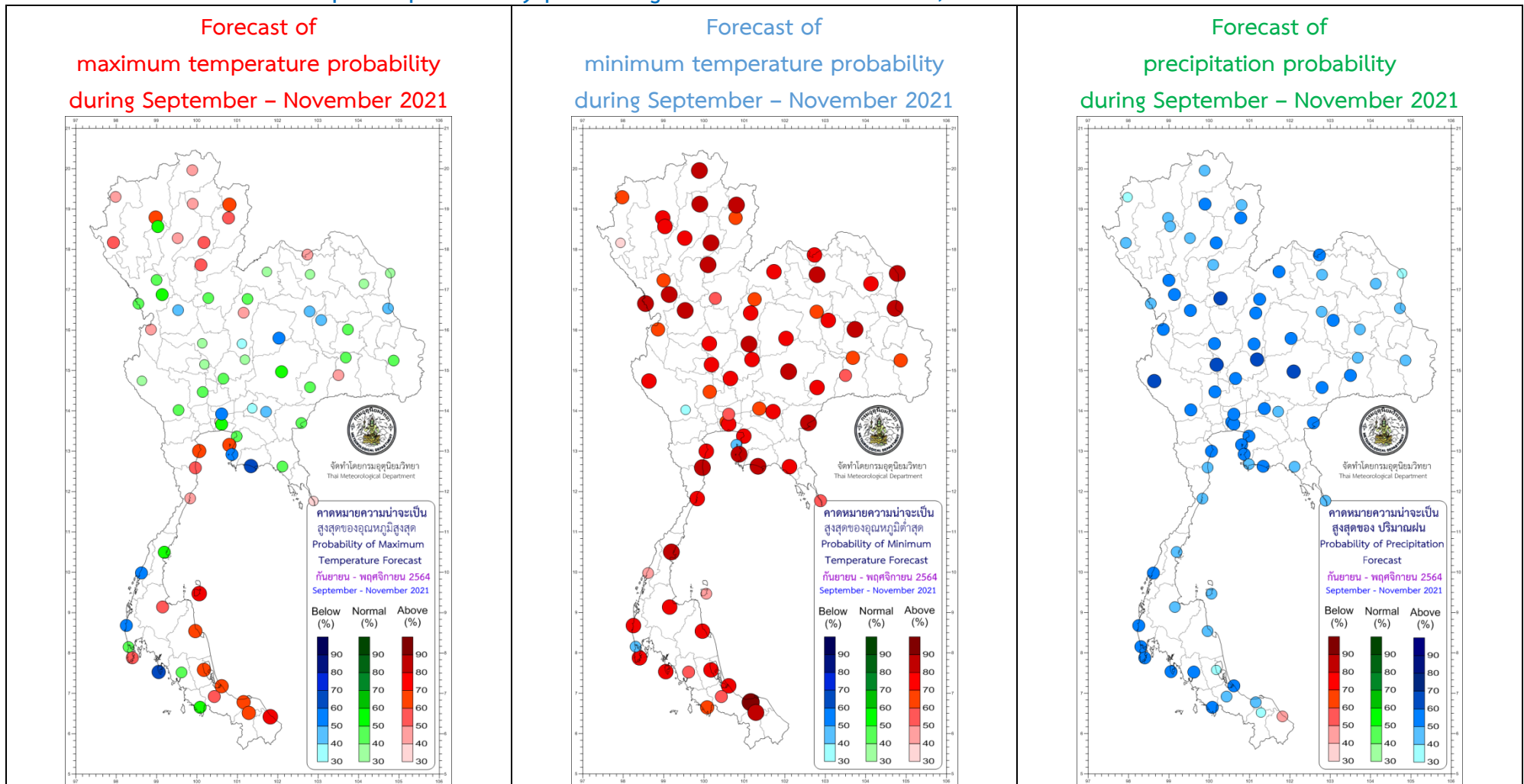
Part	Prediction									Normal*					
	September 2021			October 2021			November 2021			September		October		November	
	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Comparing with Normal	Mean Tmax	Mean Tmin	Mean Tmax	Mean Tmin	Mean Tmax	Mean Tmin
Northern	32-34	23-25	Above normal	31-33	22-24	Above normal	31-33	20-22	Above normal	32.4	24.1	32.3	23.4	31.7	20.7
Northeastern	32-34	24-26	Above normal	31-33	23-25	Above normal	31-33	21-23	Above normal	32.1	24.6	31.8	23.6	31.4	21.5
Central	33-35	24-26	Above normal	32-34	24-26	Above normal	32-34	22-24	Above normal	33.1	24.8	32.7	24.5	32.5	22.5
Eastern	31-33	24-26	Near normal	31-33	24-26	Above normal	32-34	23-25	Above normal	32.0	25.2	32.3	24.7	32.4	24.2
Southern (East Coast)	32-34	24-26	Above normal	31-33	23-25	Near normal	30-32	23-25	Near normal	32.6	24.4	31.6	24.3	30.6	23.9
Southern (West Coast)	31-33	24-26	Near normal	31-33	23-25	Near normal	31-33	23-25	Near normal	31.3	24.3	31.3	24.2	31.6	24.1
Bangkok and Vicinity	32-34	25-27	Above normal	32-34	25-27	Above normal	32-34	24-26	Above normal	33.1	25.9	32.7	25.7	32.6	25.3

Remarks: - *Normal means average during the 30-year period (A.D. 1991 – 2020 or B.E. 2534 – 2563). Updated: 27th August 2021.

- 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.

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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.