

MINISTRY OF DIGITAL ECONOMY AND SOCIETY, THAI METEOROLOGICAL DEPARTMENT

3-month Climate Prediction of Thailand During December 2021 – February 2022

Issued on 1 December 2021

<u>Thailand climate for December - January - February from 30-year normal (A.D. 1991 - 2020 or B.E. 2534 - 2563 baseline average)</u>

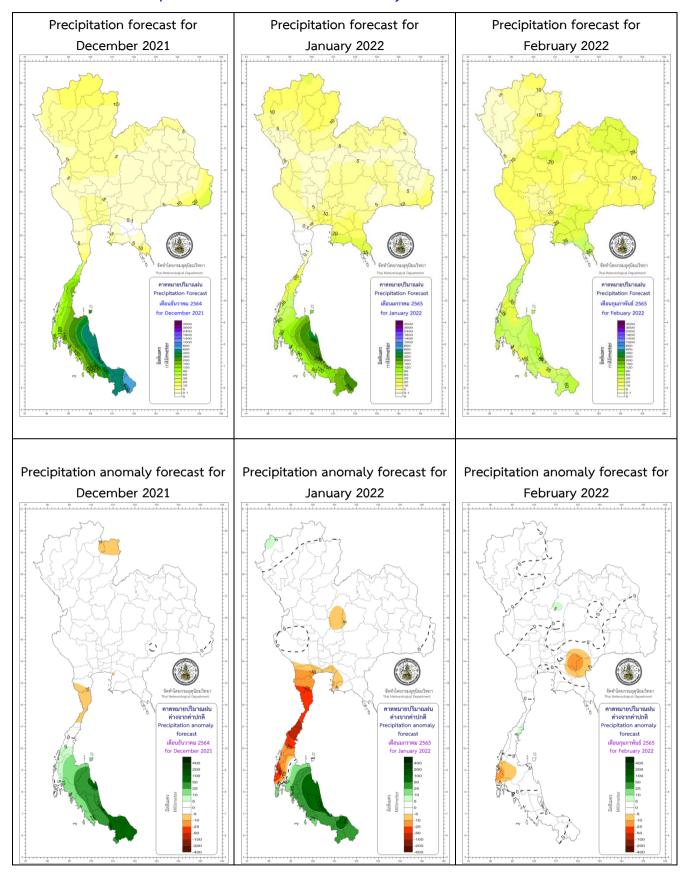
<u>December</u> Usually, the coldly high-pressure air mass areas from China will prevail over Thailand for the whole month actively and periodically. As a result, the temperature of the Upper Thailand will possibly reduce to become commonly chilly, especially around the upper portion of the northern and northeastern parts including with feasibly very cold weather (less than 8.0 C.) at mount tops or mountainous areas.

For the Southern Thailand, abundant rainfall still occurs mostly during the 1st half of this month, specifically at the East Coast due to the influentially northeast monsoon prevailing over the Southern Thailand and the Gulf of Thailand. Nevertheless, there may be some tropical cyclones moving near or toward Thailand further, commonly at the lower portion of the Southern Thailand.

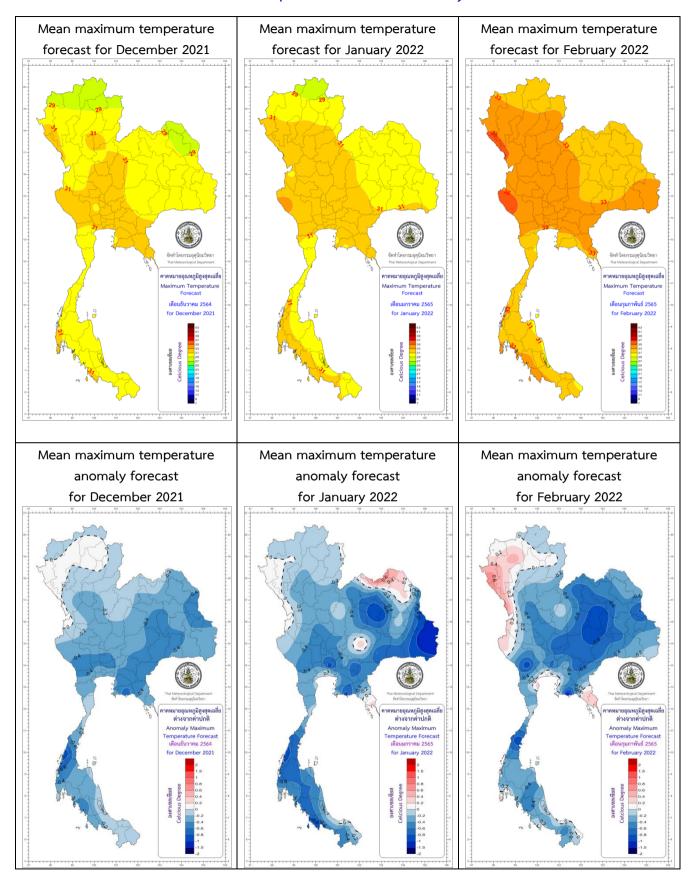
January Cold weather appears because the influentially high-pressure air mass areas prevailing over Thailand for the whole month. In fact, most of Thailand will meet the lowest reducing temperature in this month appearing as commonly chilly weather, specifically at the northern and northeastern parts including with high mount tops. Additionally, morning fog occurs while the central and eastern parts will meet cool weather. Furthermore, the Southern Thailand will not meet much chilly weather except at the upper portion because of surrounding seas at both sides.

<u>February</u> Normally, this month is during the transition period from the winter to the summer. In other words, the high-pressure air mass areas prevailing over Thailand will start to weaken. Still, common weather of Thailand is still to be cool with morning fog whereas that of the northern and northeastern parts is still cold to very cold at some areas, mostly during the 1st half of this month. Afterward, rising temperature occurs due to prevailing hotly southerly wind replacing the northeastern monsoon. Thus, the start of the summer appears since the middle of this month onward. Furthermore, rain at the Southern Thailand will be less than that of the past month, especially at the East Coast.

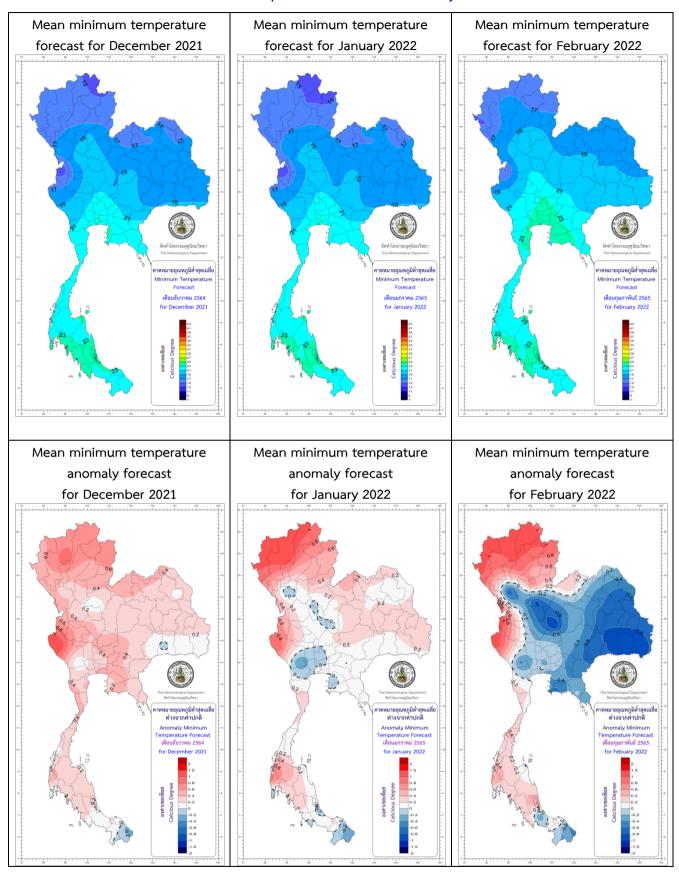
Precipitation (mm/month) and Anomaly (mm/month) Forecast:



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



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



*** Caution: ***

<u>December 2021 & January 2022:</u> Some upper-air westerly wind waves moving easterly from the Myanmar direction may pass the Upper Thailand causing the area to meet thunder rain, gusty wind at some areas and possibly falling hail. The public then should follow weather forecast news from the Thai Meteorological Department closely.

<u>February 2022:</u> Some upper-air westerly wind waves moving easterly from the Myanmar direction may pass the Upper Thailand and the western portion of Thailand causing the area to meet thunder rain, gusty wind at some areas and possibly falling hail. The public then should follow weather forecast news from the Thai Meteorological Department closely further.

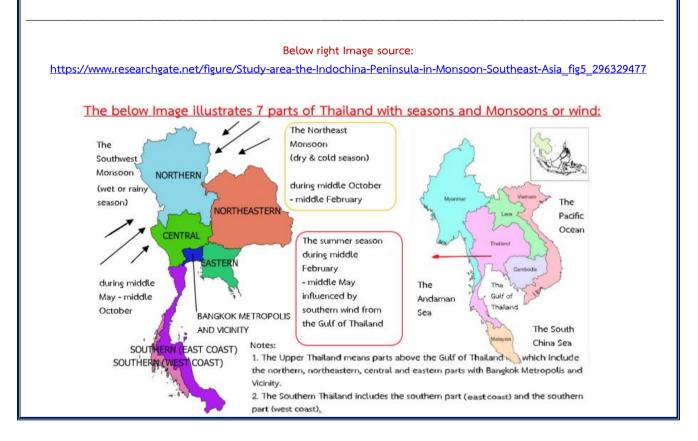


Table 1: Prediction of Rain (mm = millimeters), Rainy Days (days) and comparing with normal

	Prediction											Normal (Baseline period: 1991-2020)*					
Part	December 2021			January 2022			February 2022			December		January		February			
	Rain	Rainy	Comparing	Rain	Rainy	Comparing	Rain	Rainy	Comparing	Rain	Rainy	Rain	Rainy	Rain	Rainy		
	(mm)	Days	with normal	(mm)	Days	with normal	(mm)	Days	with normal	(mm)	Days	(mm)	Days	(mm)	Days		
Northern	Less than 10	0-2	30% Below Normal	Less than 10	0-2	20% Below Normal	Less than 10	0-2	Near normal	10.6	1.2	10.6	1.0	9.8	1.4		
Northeastern	Less than 10	0-2	30% Below Normal	Less than 10	0-2	20% Below Normal	10-20	1-3	Near normal	4.9	0.8	6.5	1.1	15.6	2.5		
Central	Less than 10	0-2	30% Below Normal	Less than 10	0-2	20% Below Normal	Less than 10	0-2	Near normal	6.6	1.0	7.1	1.1	10.5	1.6		
Eastern	Less than 10	0-2	30% Below Normal	10-30	0-2	20% Below Normal	20-40	2-4	Near normal	9.8	1.4	26.1	1.8	32.0	3.1		
Southern Thailand (East Coast)	280-340	12-14	10% Above normal	110-150	7-9	20% Above normal	30-60	3-5	Near normal	295.7	12.1	111.0	7.2	43.8	3.7		
Southern Thailand (West Coast)	80-120	9-11	10% Above normal	50-80	4-6	10% Above normal	30-60	3-5	Near normal	90.0	9.1	59.1	4.2	39.1	3.6		
Bangkok Metropolis and Vicinity	Less than 10	0-2	30% Below Normal	10-30	1-3	20% Below Normal	10-30	1-3	Near normal	12.1	1.2	21.9	1.7	17.8	2.5		

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

	Prediction										Normal (Baseline period: 1991-2020)*						
Part	December 2021			January 2022			February 2022			December		January		February			
	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	29-31	17-19	Above normal	30-32	16-18	Near normal	33-35	17-19	Near normal	30.3	16.9	31.2	16.2	33.8	17.4		
Northeastern	28-30	17-19	Near normal	29-31	17-19	Near normal	32-34	18-20	Below normal	30.0	17.9	30.7	17.6	33.0	19.5		
Central	30-32	19-21	Near normal	31-33	19-21	Near normal	33-35	21-23	Near normal	31.8	19.8	32.7	19.8	34.8	21.7		
Eastern	30-32	21-23	Near normal	31-33	21-23	Near normal	32-34	22-24	Near normal	31.9	22.0	32.2	22.0	33.0	23.4		
Southern (East Coast)	29-31	21-23	Near normal	29-31	22-24	Near normal	30-32	22-24	Near normal	30.0	23.0	30.5	22.7	31.6	22.9		
Southern (West Coast)	30-32	22-24	Near normal	31-33	22-24	Near normal	32-34	23-25	Near normal	31.6	23.4	32.6	23.2	33.7	23.3		
Bangkok and Vicinity	30-32	22-24	Near normal	31-33	22-24	Near normal	32-34	23-25	Near normal	31.8	22.8	32.3	22.8	33.5	24.3		

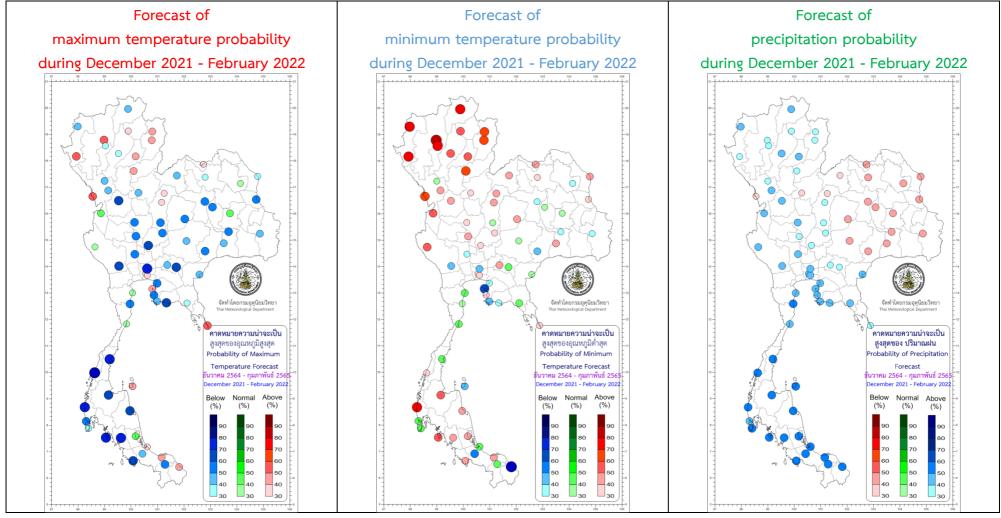
Remarks: - * Normal means average during the 30-year period (A.D. 1991 – 2020 or B.E. 2534 – 2563).

- The next 3-month climate forecast will be published online before the end of December 2021.
- 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

⁻ 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.

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.