



Three-Month Climate Characteristic Expectations of Thailand

During December 2014 - February 2015

Issued on 25 November 2014

Thai Meteorological Department

General Climate Characteristics

Upper Thailand (Northern, Northeastern, Central and Eastern parts of Thailand):

December until January: Continuously active high pressure air masses from China still prevail over Upper Thailand periodically causing northern and northeastern parts to be generally cool and partially cold especially at the upper portion. While mountain tops and mountainous areas will be cold to very cold with frost happening on some days, whereas central and eastern parts will be cool generally and cold in some areas on some days.

Then in February: The prevailing high pressure air masses from China over the Upper Thailand will weaken discontinuously causing the area to be warmer with thick fog appearing in many areas, and also hot air occurs during day time especially during the second half of this month. However, many areas in the northern and northeastern parts are still cool or cold in the morning.

The total rainfall will be near normal while mean temperature will be above normal.

Southern Thailand

December: Active northeastern monsoon still prevails over the Gulf of Thailand and Southern Thailand periodically. Additionally, a monsoon trough places over the lower portion of the Southern Thailand influencing densely heavy to very heavy rains to appear in many areas, especially along the eastern coast from Surat Thani province downward. Thus, flash floods and overflows inundate in some areas. Moreover, Wind waves in the Gulf of Thailand are still rough as 2 – 4 meters high in some periods while those in the Andaman Sea are 1 – 2 meters high.

Then in January until February: The prevailing northeastern monsoon over the Gulf of Thailand and the Southern Thailand will weaken and change to be from the eastern direction to be prevailing from the southeastern direction. Consequently, some rain occurs on both coasts of the Southern Thailand to be as isolated to widely scattered, mostly at the lower portion of the part. Wind waves in the Gulf of Thailand will weaken to be as 1 – 2 meters high while those in the Andaman Sea will be about 1 meter high.

The total rainfall will be mostly near normal while mean temperature will be above normal.

*** Cautions: ***

During December: Often, some active low pressure air masses develop in the lower portion of the South China Sea and then strengthen to be tropical cyclones (depressions, tropical storms or typhoons). Furthermore, they favor a high chance to move pass the Gulf of Thailand toward the lower portion of the Southern Thailand. As a result, rainfall occurs vastly and heavy to very heavy rains happen in many areas. Moreover, Wind waves in the Gulf of Thailand will be rough as 2 – 4 meters high. Possibly, some storm surges may occur along the eastern portion of the Southern Thailand. The public should follow weather news from the Thai Meteorological Department attentively.

During January and February: Some westerly winds from Myanmar move toward the Upper Thailand causing the area to have thunder rains and gusts occur in some areas with possible hails. The public should follow the weather news from the Thai Meteorological Department closely.

Remarks: - Normal mean averages of the 30-year period during B.E. 2524 – 2553 or A.D. 1971 – 2010.

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| - Daily rainfall distribution (% area) criteria: | Isolated: | > 0 until < 20 % | |
| Widely scattered: | >=20 until < 40% | Scattered: >= 40 until < 60 % | |
| Almost widespread: | >=60 until < 80% | Widespread: >= 80% | |
| - Daily rainfall amount (millimeters) criteria: | Light: | > 0 until 9.9, | |
| Moderate: | >=10 until <= 34.9, | Heavy: >= 35 until <= 90, | Very Heavy: >= 90.1 |

Climatological Center, Meteorological Development Bureau,
Thai Meteorological Department

Approximations & Normal of average Maximum & average minimum temperatures
& rainfall amount / rainy days:

Part	Approximations and normal of temperatures/rains/rainy days	December 2014	January 2015	February 2015
Northern	Maximum temperature (°C.) Normal	29-31 29.8	31-33 31.1	33-35 33.7
	Minimum temperature (°C.) Normal	16-18 15.9	16-18 15.6	18-20 17.2
	Rainfall (mm.) / Rainy days Normal	น้อยกว่า 10 / 1-2 8.2 / 1.2	น้อยกว่า 10 / 1-2 4.6 / 1.0	10 - 20 / 1-2 10.4 / 1.4
Northeastern	Maximum temperature (°C.) Normal	29-31 29.5	30-32 30.6	33-35 33.0
	Minimum temperature (°C.) Normal	17-19 17.1	17-19 17.1	19-21 19.7
	Rainfall (mm.) / Rainy days Normal	น้อยกว่า 10 / 1-2 3.5 / 0.8	น้อยกว่า 10 / 1-2 4.8 / 1.1	10 - 20 / 2-3 18.5 / 2.5
Central	Maximum temperature (°C.) Normal	31-33 31.4	32-34 32.7	34-36 34.6
	Minimum temperature (°C.) Normal	19-21 19.7	20-22 20.1	22-24 22.2
	Rainfall (mm.) / Rainy days Normal	น้อยกว่า 10 / 1-2 5.2 / 1.0	น้อยกว่า 10 / 1-2 6.7 / 1.1	10 - 20 / 1-2 12.3 / 1.6
Eastern (including coastal areas)	Maximum temperature (°C.) Normal	31-33 31.6	32-34 32.1	32-34 32.9
	Minimum temperature (°C.) Normal	21-23 21.2	21-23 21.4	23-25 23.4
	Rainfall (mm.) / Rainy days Normal	น้อยกว่า 10 / 1-2 8.1 / 1.4	10-20 / 1-2 16.1 / 1.8	20-40 / 3-4 29.4 / 3.1
Southern (east coast)	Maximum temperature (°C.) Normal	29-31 29.7	30-32 30.3	31-33 31.4
	Minimum temperature (°C.) Normal	22-24 22.5	22-24 22.2	22-24 22.7
	Rainfall (mm.) / Rainy days Normal	200-250 / 11-13 236.5 / 12.1	50-70 / 6-8 59.7 / 7.2	20-40 / 3-4 34.5 / 3.7
Southern (west coast)	Maximum temperature (°C.) Normal	31-33 31.5	32-34 32.6	33-35 33.8
	Minimum temperature (°C.) Normal	23-25 23.0	23-25 22.8	23-25 23.0
	Rainfall (mm.) / Rainy days Normal	60-90 / 8-10 74.9 / 9.1	15-30 / 3-5 26.4 / 4.2	20-40 / 3-4 27.5 / 3.6
Bangkok Metropolis and vicinity	Maximum temperature (°C.) Normal	31-33 31.7	32-34 32.5	33-35 33.3
	Minimum temperature (°C.) Normal	22-24 22.0	22-24 22.6	24-26 24.4
	Rainfall (mm.) / Rainy days Normal	น้อยกว่า 10 / 1-2 6.3 / 1.2	10-20 / 1-2 13.3 / 1.7	15-30 / 2-3 20.0 / 2.5

Expected rainfall, above – below normal

Parts	December 2014	January 2015	February 2015
Northern (Approximations/Normal)	Nearly normal (Less than 10 / 8)	Nearly normal (Less than 10 / 5)	Nearly normal (10-20 / 10)
Northeastern (Approximations/Normal)	Nearly normal (Less than 10 / 4)	Nearly normal (Less than 10 / 5)	Nearly normal (10-20 / 19)
Central (Approximations/Normal)	Nearly normal (Less than 10 / 5)	Nearly normal (Less than 10 / 7)	Nearly normal (10-20 / 12)
Eastern (Approximations/Normal)	Nearly normal (Less than 10 / 8)	Nearly normal (10-20 / 16)	Nearly normal (20-40 / 29)
Southern Part (East Coast) (Approximations/Normal)	Nearly normal (200-250 / 237)	Nearly normal (50-70 / 60)	Nearly normal (20-40 / 35)
Southern Part (West Coast) (Approximations/Normal)	Nearly normal (60-90 / 75)	Nearly normal (15-30 / 26)	Nearly normal (20-40 / 28)
Bangkok Metropolis and vicinity (Approximations/Normal)	Nearly normal (Less than 10 / 6)	Nearly normal (10-20 / 13)	Nearly normal (15-30 / 20)

Expected Temperature, above – below normal

Parts	December 2014	January 2015	February 2015
Northern Approximations of Max./Min.): (Normal of Max./Min.)	Slightly Above Normal 30 / 17 : (29.8 / 15.9)	Slightly Above Normal 32 / 17 : (31.1 / 15.6)	Slightly Above Normal 34 / 18 : (33.7 / 17.2)
Northeastern Approximations of Max./Min.): (Normal of Max./Min.)	Slightly Above Normal 30 / 18 : (29.5 / 17.1)	Slightly Above Normal 31 / 18 : (30.6 / 17.1)	Slightly Above Normal 34 / 20 : (33.0 / 19.7)
Central Approximations of Max./Min.): (Normal of Max./Min.)	Slightly Above Normal 32 / 20 : (31.4 / 19.7)	Slightly Above Normal 33 / 21 : (32.7 / 20.1)	Slightly Above Normal 35 / 23 : (34.6 / 22.2)
Eastern Approximations of Max./Min.): (Normal of Max./Min.)	Slightly Above Normal 32 / 22 : (31.6 / 21.2)	Slightly Above Normal 33 / 22 : (32.1 / 21.4)	Slightly Above Normal 33 / 24 : (32.9 / 23.4)
Southern Part (East Coast) Approximations of Max./Min.): (Normal of Max./Min.)	Slightly Above Normal 30 / 23 : (29.7 / 22.5)	Slightly Above Normal 31 / 23 : (30.3 / 22.2)	Slightly Above Normal 32 / 23 : (31.4 / 22.7)
Southern Part (West Coast) Approximations of Max./Min.): (Normal of Max./Min.)	Slightly Above Normal 32 / 24 : (31.5 / 23.0)	Slightly Above Normal 33 / 24 : (32.6 / 22.8)	Slightly Above Normal 34 / 24 : (33.8 / 23.0)
Bangkok Metropolis and vicinity Approximations of Max./Min.): (Normal of Max./Min.)	Slightly Above Normal 32 / 23 : (31.7 / 22.0)	Slightly Above Normal 33 / 23 : (32.5 / 22.6)	Slightly Above Normal 34 / 25 : (33.3 / 22.4)

Explanations: Nearly normal means $\pm 10\%$ of normal. Slightly above/below normal means $\pm 10 - 25\%$ of normal. And above/below normal means \pm more than 25% of normal.