

Monthly Weather Summary in Thailand

January 2012

This month, upper Thailand was dominated by the high pressure area almost the month. Besides, the northeast monsoon prevailed over Thailand and the Gulf of Thailand especially in the early month and flowing of northwesterly wind over northern part during middle month. These caused cool and cold weather mainly in the northern and northeastern parts particularly in northern part where experienced cold weather with very cold in some places for the second half of the month. Moreover, upper Thailand received isolated to widely scattered rain mainly during the second half of the month as the southeasterly wind prevailed over Thailand and westerly trough moving through northern and northeastern parts. Southern Thailand obtained intermittent rainfall nearly the whole month with flash flooding along the east coast mainly during early month.

The total rainfall over Thailand in January was 416 % above normal and higher than its previous highest record during 37 years period (1976-2012). Monthly rainfall were higher than normal in every regions i.e. northern part 7.7 mm (131%), northeastern part 30.2 mm (737%), central 13.7 mm (221%), eastern part 31.0 mm (211%), southern part (east coast) 266.4 mm (444%) and southern part (west coast) 135.0 mm (590%). Mean temperatures of January was 1.0 °C above normal.

1–10 January: High pressure area covered upper Thailand throughout the period and another rather active high pressure area from China extended to cover the mentioned area during middle period. In addition the moderate to rather active northeast monsoon prevailed over Thailand and the Gulf of Thailand. The westerly trough moved through the northern part on January 4-5. These conditions brought cool to northern and northeastern parts with cold weather in several areas mainly during the second half of the period. The minimum temperature of the period was 10.6 °C, at Amphoe Umphang in Tak province on January 10. In the Mountainous areas and mountain top, temperature climbed down to 6.5 °C at Amphoe Omkoi in Chiang Mai province on January 4. With the passage of the westerly trough over northern part, upper Thailand turned isolated to widely scattered rain. The heaviest daily rainfall of 36.0 mm was measured at Amphoe Mae Tha in Lampang province on January 4. Affected by the low pressure cell in the lower South China Sea and Malaysia, southern Thailand obtained abundant rainfall with flash floods and landslide at Chumphon, Nakhon Si Thammarat, Pattani, Narathiwat and Pattalung provinces during early period. The heaviest daily rainfall of 405.0 mm was measured at Amphoe Muang in Nakhon Si Thammarat province on January 2.

11–20 January: During this period, temperature was relatively decreased particularly in northern part where experienced cold to very cold weather in some places during the second half of the period. Northeastern part experienced cool weather with cold in some areas while cool weather remained in several areas of central and eastern parts. The minimum temperature of the period was 7.7 °C at Agrometeorological Station in Nan province on January 18 and fell to 1.1 °C in the area of mountain top at Amphoe Omkoi in Chiang Mai province on January 17. For rainfall, upper Thailand received isolated to widely scattered rain with heavy to very heavy rainfall in some areas. The highest daily rainfall was 93.3 mm at Amphoe Wichian Buri in Phetchabun province on February 20. Southern Thailand obtained scattered to fairly widespread rain and heavy to very heavy rainfall in some places mainly along the east coast due to the influence of the low pressure cell located in the lower southern Thailand and Malaysia on January 13-14. The heaviest daily rainfall of 262.1 mm was measured at Amphoe Muang in Nakhon Si Thammarat province on January 14. Flash floods were reported at Nakhon Si Thammarat, Songkhla, Pattalung, and Pattani provinces on January 13-14.

21 – 31 January: With the moderate high pressure area covering the northern and northeastern parts and the prevailing of the southeasterly wind, there was cool weather in upper Thailand especially in the northern part where experienced cold weather nearly the whole period and very cold in some areas. The lowest temperature 7.9 °C was measured at Amphoe Mae Sariang in Mea Hong Son province on January 28 and 1.5 °C at Doi Angkhang, Amphoe Fang in Chiang Mai province on January 23, 24 and 27. For rainfall, upper Thailand received isolated to widely scattered rain with heavy rainfall in some places. The maximum daily rainfall was 70.5 mm at Amphoe Phen in Udon Thani province on January 22. Scattered to fairly widespread rain with heavy rainfall occurred in southern Thailand during January 29-31 caused by the easterly trough moving through the lower portion. The heaviest daily rainfall was 87.6 mm at Amphoe Muang in Krabi province on January 30.

Note : Rainfall, temperatures and natural disasters in this report were updated up to February 14, 2012.

Climatological Center
Meteorological Development Bureau
Meteorological Department

Monthly Current Report
Rainfall and Accumulative Rainfall
January 2012

Northern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Chiang Rai	20.6	1.5	51.7	40.5	51.7	40.5
Mae Hong Son	20.7	0.6	8.7	1.0	8.7	1.0
Phayao	21.2	0.5	1.9	-3.1	1.9	-3.1
Chiang Mai	23.1	2.2	11.0	3.3	11.0	3.3
Tha Wang Pha	22.0	1.4	16.0	6.9	16.0	6.9
Nan	23.1	2.3	6.9	-0.4	6.9	-0.4
Lamphun	22.6	1.0	1.8	-0.6	1.8	-0.6
Lampang	23.5	2.0	16.8	11.2	16.8	11.2
Mae Sariang	21.4	1.1	2.1	-4.9	2.1	-4.9
Phrae	23.7	1.8	8.8	2.5	8.8	2.5
Uttaradit	25.4	1.6	1.1	-6.3	1.1	-6.3
Bhumibol Dam	24.7	1.0	0.0	-4.4	0.0	-4.4
Tak	25.7	2.1	0.0	-4.2	0.0	-4.2
Mae Sot	24.1	2.2	0.6	-1.7	0.6	-1.7
Umphang	22.1	2.1	4.6	-2.9	4.6	-2.9
Phitsanulok	26.1	1.6	3.5	-1.6	3.5	-1.6
Lom Sak	25.7	1.3	4.6	0.2	4.6	0.2
Phetchabun	26.0	2.1	32.7	27.1	32.7	27.1
Wichian Buri	26.3	0.9	96.5	89.6	96.5	89.6
Kamphaeng Phet	26.2	1.6	1.9	0.1	1.9	0.1
Over the area	23.7	1.5	13.6	7.7 131%	13.6	7.7 131%

Northeastern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Nong Khai	23.8	1.6	3.4	-3.5	3.4	-3.5
Loei	23.3	1.8	18.2	12.3	18.2	12.3
Udon Thani	23.8	1.2	8.7	3.5	8.7	3.5
Nakhon Phanom	22.6	0.7	14.9	11.4	14.9	11.4
Sakon Nakhon	22.6	0.5	30.4	26.3	30.4	26.3
Mukdahan	22.9	0.5	6.2	1.6	6.2	1.6
Khon Kaen	24.4	1.3	38.7	36.6	38.7	36.6
Kosum Phisai	24.6	0.9	73.9	71.9	73.9	71.9
Roi Et	24.0	1.0	69.3	64.8	69.3	64.8
Chaiyaphum	25.7	1.7	11.7	8.4	11.7	8.4
Ubon Ratchathani	25.0	1.2	14.7	13.5	14.7	13.5
Tha Tum	24.5	0.3	80.3	78.7	80.3	78.7
Surin	25.2	1.2	16.6	11.8	16.6	11.8
Nakhon Ratchasima	25.6	1.7	49.8	43.9	49.8	43.9
Chok Chai	25.7	1.2	106.7	102.8	106.7	102.8
Nang Rong	25.3	0.8	5.8	-0.6	5.8	-0.6
Over the area	24.3	1.1	34.3	30.2 737%	34.3	30.2 737%

- NOTES : 1) Mean temperature is the average of daily dry-bulb temperature
2) "T" is trace, rainfall amount less than 0.1 mm.
3) "blank" is incomplete data.
4) Temperature and rainfall are preliminary data.

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Central Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Nakhon Sawan	26.8	1.3	23.0	17.6	23.0	17.6
Bua Chum	26.4	1.2	28.1	23.3	28.1	23.3
Lop Buri	27.8	1.6	0.4	-4.3	0.4	-4.3
Suphan Buri	27.4	2.0	1.1	-5.4	1.1	-5.4
Thong Pha Phum	26.4	1.6	28.4	23.1	28.4	23.1
Kanchanaburi	27.8	2.2	14.3	9.1	14.3	9.1
Bangkok Airport						
Bangkok Metropolis	28.2	1.8	44.2	35.1	44.2	35.1
Over the area	27.3	1.6	19.9	13.7 221%	19.9	13.7 221%

Eastern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Prachin Buri	27.9	1.3	13.8	6.1	13.8	6.1
Kabin Buri	26.7	0.2	21.6	14.7	21.6	14.7
Aranyaprathet	27.4	1.8	11.0	4.4	11.0	4.4
Chon Buri	27.8	1.5	38.0	27.1	38.0	27.1
Ko Sichang	27.2	0.9	51.1	42.7	51.1	42.7
Pattaya	26.8	0.6	3.2	-10.7	3.2	-10.7
Sattahip	26.7	0.8	33.2	10.9	33.2	10.9
Rayong	26.7	0.6	82.8	63.2	82.8	63.2
Chanthaburi	27.3	1.4	61.2	48.8	61.2	48.8
Khlong Yai	27.4	1.0	141.1	102.8	141.1	102.8
Over the area	27.2	1.0	45.7	31.0 211%	45.7	31.0 211%

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Southern Thailand, east coas

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Phetchaburi	27.1	1.4	63.6	54.9	63.6	54.9
Hua Hin	27.0	1.4	39.4	29.9	39.4	29.9
Prachuap Khiri Khan	26.5	1.6	75.6	48.6	75.6	48.6
Chumphon	26.2	0.8	327.0	252.3	327.0	252.3
Surat Thani	25.9	-0.1	286.6	252.9	286.6	252.9
Ko Samui	26.8	0.2	316.6	186.0	316.6	186.0
Nakhon Si Thammarat	25.9	0.2	1067.1	920.2	1067.1	920.2
Songkhla	26.7	-0.5	379.2	324.6	379.2	324.6
Hat Yai Airport	25.8	0.0	327.5	279.3	327.5	279.3
Pattani Airport	26.3	0.5	311.7	263.8	311.7	263.8
Narathiwat	26.1	0.0	396.6	318.2	396.6	318.2
Over the area	26.4	0.5	326.4	266.4 444%	326.4	266.4 444%

Southern Thailand, west coas

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Ranong	26.4	0.2	240.5	228.3	240.5	228.3
Takua Pa	26.8	0.5	209.8	174.6	209.8	174.6
Phuket	28.3	0.4	52.0	30.3	52.0	30.3
Phuket Airport	27.3	0.6	176.5	140.6	176.5	140.6
Ko Lanta	27.2	-0.4	91.0	83.7	91.0	83.7
Trang Airport	26.4	-0.1	112.7	76.8	112.7	76.8
Satun	27.2	-0.2	222.7	210.4	222.7	210.4
Over the area	27.1	0.2	157.9	135.0 590%	157.9	135.0 590%

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