

Monthly Weather Summary in Thailand March 2013

Under the influence of the southeasterly wind and heat low pressure cell covering upper Thailand, the weather in March 2013 was warmer than usual. The mean temperature in all regions was higher than normal especially 1-2 °C above normal in the northeastern part and the west coast of southern part. Moreover, the daily maximum temperature in some areas was breaking record in March 2013. Mainly due to the prolonged hot weather in the middle and late of the month, the highest maximum temperature in March 2013 was 42.0 °C at Amphoe Muang in Kanchanaburi province on March 25. However, mean temperatures were slightly below normal at most station namely Chiang Rai, Mae Hong Son, Phayao, Lamphun, Lampang, Phrae Uttaradit and Tak provinces. The rainfall was occasionally observed in upper Thailand with thunderstorm and hail in some areas whereas southern Thailand experienced a few and unevenly distributed rainfalls, except for scattered to fairly widespread rain and heavy rainfall in some areas during the first week of the month. Monthly rainfall was below normal in all regions i.e. northern part 1.2 mm (4%), northeastern part 10.2 mm (23%), central 0.1 mm (~0 %), eastern part 24.9 mm (40%), southern part (east coast) 51.6 mm (75%) and southern part (west coast) 67.0 mm (75%).

1-10 March: The rather active ridge of high pressure from China extended to cover upper Thailand throughout the period associated with the passage of westerly trough to the upper northern part during March 7-8 and the southeasterly wind prevailing over the lower northern, central and eastern parts almost the whole period. These caused generally cool weather in the northern and upper northeastern parts with cold weather in the upper northern part. The lowest minimum temperature was 14.6 °C at Amphoe Umphang in Tak province on March 10. Daytime temperature was warm up over most of all areas in upper Thailand during early and late period. The highest maximum temperature of 39.7 °C was measured at Amphoe Muang in Mukdahan province on March 2. There was scattered rain and heavy rainfall in some areas of upper Thailand during early period then isolated to widely scattered rain. The maximum daily rainfall of 78.7 mm was measured at Nong Chok, Bangkok on March 3. Thunderstorms occurred at Chiang Mai, Nan, Kalasin, Sakon Nakhon and Surin provinces on March 2 and at Phayao and Chiang Rai provinces on March 3. In southern part, isolated to widely scattered rain was mainly observed except for scattered to fairly widespread rain and heavy rainfall was in some areas along the east coast during mid-period. The highest daily rainfall amount of 60.5 mm was reported at Amphoe Cho-airong in Narathiwat province on March 1.

11-21 March: Under the influence of the passage of westerly trough to the northern and upper northeastern part during early and late period, the rather active ridge of high pressure during mid-period and the southeasterly wind prevailing over the lower northern, central and eastern parts almost the whole period, rainfall in upper Thailand was increasing with the highest daily rainfall amount of 81.7 mm at Amphoe Khlong Yai in Trad province on March 17. Cool and cold weather remained in the upper portion of northern part. The lowest temperature of 10.5 °C was measured at Amphoe Umphang in Tak province on March 12 and also frost was reported at Doi Inthanon, Amphoe Chom Thong in Chiang Mai province on March 20. Daytime temperature relatively increased nearly the whole areas of upper Thailand and very hot in some areas. The highest maximum temperature of 40.5 °C was observed at Sakon Nakhon province on March 21. Thunderstorms were reported in Kalasin, Surin and Sa Kaew provinces on March 14 and Udon Thani province on March 18 and Si Sa Ket on March 18 and 20. In southern part, hot weather was found in many places and

decreasing in rainfall with isolated rain and heavy rainfall in some areas, except for widely scattered rain and heavy rainfall in some areas along the east coast on March 15, 16. The highest daily rainfall was 50.5 mm at Amphoe Cho-airong in Narathiwat province on March 16.

22-31 March: The heat low pressure cell covered upper Thailand throughout the period associated with the southeasterly wind prevailed over the lower northeastern and eastern parts almost the period. Resulted in hot weather over upper Thailand throughout the period and very hot weather in many areas mainly in the northeastern part. The highest maximum temperature of 42.0 °C was measured at Amphoe Muang in Kanchanaburi province on March 25. With the effect of the moderate high pressure area from China extended its ridge to cover upper Thailand during late period, isolated rain and heavy rainfall in some areas was observed in upper Thailand with the highest daily rainfall of 89.4 mm at Amphoe Muang, Mukdahan province on March 22 and thunderstorms with gust were reported in Nakhon Ratchasima, Kalasin, Nakhon Sawan, Uthai Thani and Chainat provinces on March 22, Surin province on March 23, Lampang and Phayao provinces on March 30, Chiang Rai and Chiang Mai provinces on March 31. Moreover, thunderstorm with hail occurred at Mukdahan and Yasothon provinces on March 22, Chiang Rai province on March 30 and Nakhon Phanom province on March 31. In southern Thailand, rainfall was observed in some areas during early and mid-period with the maximum daily rainfall was 60.0 mm at Amphoe Phrasaeng, Surat Thani on March 27.

Breaking record of daily maximum temperature of Thailand in March 2013

Station	New Record 2013		Previous Record		Start Year
	Temperature(°C)	Date	Temperature(°C)	Date / Year	
Sakon Nakhon (Agromet.Stn.)	41.0	29	40.9	21 / 1996	1983
Buriram	41.2	29	40.3	31/2007	2003
Ayutthaya (Agromet.Stn.)	39.1	27	39.0	16,22/1998	1994
Pathumthani (Agromet Stn.)	39.6	25	38.8	16 / 2007	1998
Bangkok Metropolis	40.1	26	39.8	25/ 1960	1951
Bangkok (Bangna Agromet.Stn)	38.8	26	38.5	4 / 2003	1969
Sa Kaew	40.0	28	39.9	25/2010	1998
Sa Kaew (Aranyaprathet)	40.3	31	40.3	30 / 2007	1952
Prachuap Khiri Khan (Nong Phlup Agromet.Stn.)	40.8	25	40.0	30/2004	1974
Prachuap Khiri Khan	39.4	25	38.8	6 / 2003	1951

Note : Rainfall, temperatures and natural disasters available in this report are preliminary data.

Climatological Center
Meteorological Development Bureau
Meteorological Department

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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	24.2	-0.4	59.1	30.9	91.3	41.8
Mae Hong Son	26.6	-0.1	5.1	-11.7	44.6	15.4
Phayao	25.6	-0.8	13.5	-16.7	63.7	18.6
Chiang Mai	27.6	0.5	17.1	-0.7	73.7	42.8
Tha Wang Pha	25.9	0.0	24.7	-8.8	85.2	35.7
Nan	26.8	0.0	12.6	-20.1	56.7	7.7
Lamphun	27.3	-0.4	12.9	-0.2	22.1	1.3
Lampang	27.7	-0.3	19.0	-3.8	56.5	22.1
Mae Sariang	26.6	0.6	18.5	4.3	22.9	0.7
Phrae	27.2	-0.7	4.0	-23.6	115.9	73.7
Uttaradit	28.6	-0.1	3.9	-19.5	11.9	-31.5
Bhumibol Dam	29.6	-0.1	15.9	-5.2	32.8	2.2
Tak	29.9	-0.3	26.6	14.5	92.1	69.2
Mae Sot	27.7	0.5	6.6	-8.9	11.8	-13.6
Umphang	24.0	-0.4	109.4	61.5	195.6	131.8
Phitsanulok	29.2	0.0	31.8	5.1	59.5	15.4
Lom Sak	28.5	0.5	15.3	-28.5	43.0	-22.7
Phetchabun	29.1	0.4	67.7	19.8	99.2	29.6
Wichian Buri	29.7	0.2	49.3	-1.4	178.3	107.3
Kamphaeng Phet	29.2	0.5	24.8	-11.9	32.8	-19.3
Over the area	27.6	0.0	26.9	-1.2 -4%	69.5	26.4 61%

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	28.7	1.1	38.5	-1.3	69.4	4.0
Loei	28.0	1.1	6.0	-33.3	17.0	-44.6
Udon Thani	29.0	1.0	27.8	-21.9	30.4	-47.6
Nakhon Phanom	28.7	1.7	86.9	26.8	87.4	-6.7
Sakon Nakhon	29.2	2.0	22.5	-35.0	23.6	-67.9
Mukdahan	29.5	1.8	109.6	70.8	113.5	53.6
Khon Kaen	29.4	0.9	53.7	11.6	61.1	-6.4
Kosum Phisai	30.0	1.6	25.1	-26.7	29.2	-41.1
Roi Et	30.0	1.8	33.4	-7.8	50.9	-13.1
Chaiyaphum	29.7	0.9	24.5	-26.8	73.0	2.9
Ubon Ratchathani	29.5	0.6	37.2	6.7	37.9	-10.0
Tha Tum	30.5	1.8	13.3	-30.9	13.3	-52.1
Surin	30.1	1.4	6.6	-39.0	23.5	-39.2
Nakhon Ratchasima	29.7	0.8	33.6	-3.5	37.7	-23.7
Chok Chai	29.5	1.0	22.7	-14.8	39.5	-16.8
Nang Rong	29.4	1.0	11.1	-36.8	14.3	-57.9
Over the area	29.4	1.2	34.5	-10.2 -23%	45.1	-22.9 -34%

- 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	30.3	0.1	67.2	34.1	75.0	25.7
Bua Chum	29.6	0.1	35.0	-10.8	75.7	14.1
Lop Buri	30.1	0.6	19.3	-12.7	37.9	-6.7
Suphan Buri	29.9	0.9	1.2	-17.7	1.2	-28.3
Thong Pha Phum	29.1	0.3	77.1	30.7	90.9	22.7
Kanchanaburi	30.7	1.0	0.0	-29.0	2.0	-48.5
Bangkok Airport	30.7	1.2	49.7	9.3	128.2	67.4
Bangkok Metropolis	30.2	0.7	38.0	-4.1	86.6	11.2
Over the area	30.1	0.6	35.9	-0.1 0%	62.2	7.2 13%

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	30.4	0.9	19.6	-30.3	25.7	-47.7
Kabin Buri	29.6	0.5	26.9	-25.6	32.2	-54.2
Aranyaprathet	30.3	0.7	7.9	-44.5	26.8	-58.6
Chon Buri	30.0	0.8	43.4	-4.1	96.4	22.0
Ko Sichang	29.0	0.3	33.0	-16.6	176.3	100.1
Pattaya	28.9	0.7	19.0	-37.3	49.4	-36.8
Sattahip	29.2	0.6	14.7	-44.1	208.3	104.5
Rayong	29.2	0.2	36.3	-34.0	157.7	30.2
Chanthaburi	29.0	0.9	61.2	-10.7	171.7	44.7
Khlong Yai	28.9	1.0	113.5	-1.8	261.5	23.0
Over the area	29.5	0.7	37.6	-24.9 -40%	120.6	12.6 12%

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Southern Thailand, east coast

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	29.3	0.8	26.1	-7.0	34.2	-14.2
Hua Hin	29.2	0.8	0.0	-53.9	51.4	-29.6
Prachuap Khiri Khan	29.0	1.1	10.6	-61.2	136.4	18.4
Chumphon	28.4	0.6	73.2	-24.0	252.9	51.6
Surat Thani	28.6	1.1	14.0	-10.0	97.3	24.2
Ko Samui	28.6	0.4	25.4	-55.4	149.9	-71.5
Nakhon Si Thammarat	27.9	0.5	5.1	-84.6	250.6	-52.7
Songkhla	28.3	0.2	0.7	-59.0	194.2	11.1
Hat Yai Airport	27.9	0.3	4.8	-70.3	235.6	82.3
Pattani Airport	28.1	0.8	14.6	-34.8	246.4	114.1
Narathiwat	27.7	0.4	10.8	-106.6	501.8	229.1
Over the area	28.5	0.7	16.8	-51.6 -75%	195.5	32.9 20%

Southern Thailand, west coast

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	29.3	0.9	0.3	-64.9	22.9	-68.3
Takua Pa	28.8	1.1	34.3	-80.3	246.7	51.6
Phuket	30.5	1.3	12.4	-61.1	120.3	-7.4
Phuket Airport	29.7	1.4	14.4	-85.9	63.3	-100.4
Ko Lanta	29.0	0.2	23.8	-40.6	109.3	12.0
Trang Airport	29.1	1.0	2.2	-81.2	159.3	22.6
Satun	29.1	0.7	67.4	-54.6	177.8	-11.2
Over the area	29.4	1.0	22.1	-67.0 -75%	128.5	-14.5 -10%

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