

Monthly Weather Summary in Thailand

January 2020

In January 2020, the high pressure area from China which covered upper Thailand was weak and mainly covered the northeastern region and the South China Sea, causing cool weather throughout the month in the areas of the northern and northeastern parts and periodically cool weather in the central, eastern and southern parts. The average temperature during this month was higher than 1980-2010 normal in all regions especially in upper Thailand where temperatures was 2.0 °C above normal. However, the westerly wind in the upper level prevailed over the northern region in the middle of the month causing cold weather in many areas in the upper northern. In addition, during late month, the high pressure area from China continuously extended to cover upper Thailand and the South China Sea combined with westerly trough that moved through the northern and northeastern regions resulting in decreasing in temperature in all regions especially in the northern region where generally cold with very cold weather in some areas in the upper portion. For rainfall, there was scanty rainfall in the upper Thailand except for unusual rainfall was found in the northeastern region during late month due to the passage of the westerly trough over the northern and northeast regions. In southern part, the easterly wind prevailed over the southern part causing light to moderate rain mainly along the east coast during the middle and the end of the month. The monthly rainfall were below normal in all regions i.e. northern part 4.6 mm (100%), northeastern part 2.9 mm (60%), central part 5.3 mm (21%), eastern part 1.0 mm (6%), southern part (east coast) 46.7 mm (78%) and southern part (west coast) 20.2 mm (77%).

1–10 January: The rather active high pressure areas from China covered upper Thailand and the South China Sea during early period then relatively weakened and covering the northeastern region and the South China Sea during late period. In addition, the westerly wind in the upper level brought cold weather from Himalaya Mountain to cover the northern region of Thailand during late period. These caused generally cool in the northern and northeastern parts and cold weather in upper northern during late period. Cool weather in several areas for the rest parts. The minimum temperature of the period was 13.5 °C, at Umphang in Tak province on January 5. In the mountainous areas and mountain tops, temperature climbed down to 2.4 °C at Kew Mae Pan, Doi Inthanon, Chom Thong in Chiang Mai province on January 10. There was no rain in upper Thailand except for light to moderate rain along the coastal areas of eastern part on the last day of the period due to the prevailing of the southeasterly wind over lower central, eastern, Bangkok and vicinity. The maximum daily rainfall of 8.9 mm was measured at Ko Kut in Trat province on January 10. For southern Thailand, the active northeast monsoon prevailed over the Gulf of Thailand and southern part during early period after that the easterly wind blowing over southern part, isolated rain was observed along the east coast almost the period except for scattered rain on January 2 whereas isolate light rainfall was found along the west coast for few days. The maximum daily rainfall was 23.0 mm at Nopphitam in Nakhon Si Thammarat province on January 3.

11-20 January : The weak high pressure area covered the northeastern part and the South China Sea almost the period and the another moderate high pressure areas extended its ridge to covered upper northeastern and the South China Sea during late period. In addition, the westerly wind in the upper level prevailed over the northern part throughout the period. These conditions caused generally cool weather in the northern and northeastern parts throughout the period with cold weather in upper portion of the northern part whereas cool weather remained in several areas for the rest parts. The minimum temperature of the period was 9.7 °C at Umphang in Tak province on January 13. Minimum temperature dropped to 1.1 °C in the area of mountain top at Kew Mae Pan, Doi Inthanon, Chom Thong in Chiang Mai province on January 16. For rainfall, with the prevailing of the southeasterly wind over the eastern and central parts where found isolated rain with heavy rainfall in some areas with the maximum daily rainfall of 50.5 millimeter at Wat Praya Pla School Khet Nong Chok in Bangkok on January 12. In southern part, the easterly wind which prevailed over the southern part was strengthened during late period causing isolated rain along the east coast during early and mid-period then scattered rain with heavy rainfall in some areas during late period. Isolated light to moderate rain was reported along the west coast for few days. The highest daily rainfall was 40.0 millimeter at Chai Buri in Surat Thani province on January 19.

21-31 January : The weak high pressure area covered the northeastern part and the South China Sea during early period and the another high pressure areas extended its ridge to covered the mentioned areas during mid-period and dominated upper Thailand and the South China Sea during late period accompanied with the passage of the westerly trough from Myanmar to cover the northern and northeastern part during early and mid-period. These cause decreasing in temperature in upper Thailand especially in the northern part where experienced cold weather in the upper portion with very cold weather in some areas and also in the northeastern part that had cold weather in almost areas during late period. For the central and eastern regions, the temperature dropped in the second half of the period with cold weather in some areas in the central region. The lowest temperature 6.8 °C was measured at Thung Chang in Nan province on January 27 and dropped to 0.4 °C at Kew Mae Pan, Doi Inthanon in Chiang Mai province on January 28. For rainfall, with the passage of the westerly trough over the northern and northeastern part and the prevailing of the southeasterly wind over the lower northeastern, central and eastern parts during mid-period, there was isolated rain with heavy rainfall in some areas in the northeastern and eastern parts during that time with the maximum daily rainfall of 85.0 millimeter at Klong Yai in Trat province on January 30. In southern part, cool weather in almost areas during the middle and the end of the period and isolated light to moderate rain was found for few days. The highest daily rainfall was 23.5 mm at Mueang in Satun province on January 29.

Note : 1. Rainfall, temperatures and natural disasters in this report were updated up to February 4, 2020.

Climate Center
Meteorological Development Division
Meteorological Department

Monthly Current Report
Rainfall and Accumulative Rainfall
January 2020

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 | 21.4 | 1.7 | 0.0 | -7.5 | 0.0 | -7.5 |
| Mae Hong Son | 20.8 | 0.2 | 0.0 | -6.4 | 0.0 | -6.4 |
| Phayao | 21.8 | 1.2 | 0.0 | -5.7 | 0.0 | -5.7 |
| Chiang Mai | 23.5 | 2.0 | 0.0 | -4.2 | 0.0 | -4.2 |
| Tha Wang Pha | 22.5 | 1.9 | 0.0 | -7.0 | 0.0 | -7.0 |
| Nan | 23.6 | 2.2 | 0.0 | -4.4 | 0.0 | -4.4 |
| Lamphun | 23.0 | 1.3 | 0.0 | -2.8 | 0.0 | -2.8 |
| Lampang | 24.1 | 1.9 | 0.1 | -2.7 | 0.1 | -2.7 |
| Mae Sariang | 21.2 | 0.8 | 0.0 | -1.5 | 0.0 | -1.5 |
| Phrae | 24.2 | 1.9 | 0.0 | -5.8 | 0.0 | -5.8 |
| Uttaradit | 26.2 | 2.1 | 0.0 | -5.5 | 0.0 | -5.5 |
| Bhumibol Dam | 26.3 | 2.6 | 0.0 | -2.6 | 0.0 | -2.6 |
| Tak | 26.6 | 2.5 | 0.0 | -2.1 | 0.0 | -2.1 |
| Mae Sot | 24.4 | 2.0 | 0.0 | -1.7 | 0.0 | -1.7 |
| Umphang | 22.1 | 1.9 | 0.0 | -6.8 | 0.0 | -6.8 |
| Phitsanulok | 26.6 | 1.8 | 0.3 | -3.6 | 0.3 | -3.6 |
| Lom Sak | 26.8 | 2.5 | 0.0 | -4.8 | 0.0 | -4.8 |
| Phetchabun | 27.1 | 3.0 | 0.0 | -5.6 | 0.0 | -5.6 |
| Wichian Buri | 27.4 | 2.1 | 0.0 | -7.7 | 0.0 | -7.7 |
| Kamphaeng Phet | 27.0 | 2.2 | 0.0 | -2.3 | 0.0 | -2.3 |
| Over the area | 24.3 | 1.9 | 0.0 | -4.6 -100% | 0.0 | -4.6 -100% |

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 | 25.6 | 3.1 | 0.0 | -8.3 | 0.0 | -8.3 |
| Loei | 25.0 | 3.3 | 0.0 | -6.2 | 0.0 | -6.2 |
| Udon Thani | 25.0 | 2.2 | 0.0 | -6.3 | 0.0 | -6.3 |
| Nakhon Phanom | 25.0 | 2.8 | 0.5 | -2.5 | 0.5 | -2.5 |
| Sakon Nakhon | 24.5 | 2.4 | 20.9 | 16.2 | 20.9 | 16.2 |
| Mukdahan | 25.2 | 2.6 | 2.2 | -1.5 | 2.2 | -1.5 |
| Khon Kaen | 26.2 | 2.8 | 0.0 | -4.0 | 0.0 | -4.0 |
| Kosum Phisai | 26.0 | 2.3 | 2.9 | -0.6 | 2.9 | -0.6 |
| Roi Et | 26.0 | 2.7 | 3.3 | -0.3 | 3.3 | -0.3 |
| Chaiyaphum | 27.1 | 2.9 | 0.0 | -4.5 | 0.0 | -4.5 |
| Ubon Ratchathani | 26.1 | 1.9 | 0.9 | -1.1 | 0.9 | -1.1 |
| Tha Tum | 25.8 | 1.8 | 0.1 | -5.0 | 0.1 | -5.0 |
| Surin | 26.7 | 2.6 | 0.1 | -5.5 | 0.1 | -5.5 |
| Nakhon Ratchasima | 27.1 | 2.8 | 0.0 | -8.2 | 0.0 | -8.2 |
| Chok Chai | 26.7 | 2.3 | 0.0 | -4.0 | 0.0 | -4.0 |
| Nang Rong | 26.1 | 1.8 | 0.0 | -4.7 | 0.0 | -4.7 |
| Over the area | 25.9 | 2.5 | 1.9 | -2.9 -60% | 1.9 | -2.9 -60% |

- 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.

Monthly Current Report
Rainfall and Accumulative Rainfall
January 2020

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 | 28.2 | 2.7 | 0.0 | -4.3 | 0.0 | -4.3 |
| Bua Chum | 27.3 | 2.3 | 0.0 | -6.7 | 0.0 | -6.7 |
| Lop Buri | 28.8 | 2.4 | 0.0 | -5.7 | 0.0 | -5.7 |
| Suphan Buri | 28.3 | 2.6 | 0.0 | -3.7 | 0.0 | -3.7 |
| Thong Pha Phum | 26.4 | 1.6 | 0.0 | -5.4 | 0.0 | -5.4 |
| Kanchanaburi | 28.4 | 2.4 | 0.0 | -3.3 | 0.0 | -3.3 |
| Bangkok Airport | 28.9 | 1.9 | 19.6 | 8.2 | 19.6 | 8.2 |
| Bangkok Metropolis | 29.1 | 2.1 | 22.7 | 9.4 | 22.7 | 9.4 |
| Over the area | 28.2 | 2.3 | 5.3 | -1.4 -21% | 5.3 | -1.4 -21% |

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 | 29.1 | 2.3 | 0.0 | -7.7 | 0.0 | -7.7 |
| Kabin Buri | 27.3 | 1.0 | 5.6 | -3.4 | 5.6 | -3.4 |
| Aranyaprathet | 28.5 | 2.4 | 0.0 | -5.4 | 0.0 | -5.4 |
| Chon Buri | 29.0 | 2.1 | 7.0 | -2.9 | 7.0 | -2.9 |
| Ko Sichang | 28.5 | 2.0 | 0.0 | -10.9 | 0.0 | -10.9 |
| Pattaya | 28.0 | 1.7 | 0.8 | -14.8 | 0.8 | -14.8 |
| Sattahip | 27.7 | 1.5 | 12.5 | -13.1 | 12.5 | -13.1 |
| Rayong | 28.0 | 1.8 | 2.3 | -18.4 | 2.3 | -18.4 |
| Chanthaburi | 28.3 | 1.9 | 33.7 | 15.0 | 33.7 | 15.0 |
| Khlong Yai | 27.9 | 1.4 | 88.8 | 51.6 | 88.8 | 51.6 |
| Over the area | 28.2 | 1.8 | 15.1 | -1.0 -6% | 15.1 | -1.0 -6% |

- 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.

Monthly Current Report
Rainfall and Accumulative Rainfall
January 2020

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 | 28.1 | 2.3 | 0.0 | -11.4 | 0.0 | -11.4 |
| Hua Hin | 27.8 | 1.8 | 0.5 | -11.3 | 0.5 | -11.3 |
| Prachuap Khiri Khan | 27.1 | 1.7 | 7.9 | -16.5 | 7.9 | -16.5 |
| Chumphon | 27.1 | 1.4 | 63.5 | 4.1 | 63.5 | 4.1 |
| Surat Thani | 26.6 | 1.0 | 0.0 | -36.8 | 0.0 | -36.8 |
| Ko Samui | 27.7 | 0.9 | 9.1 | -77.1 | 9.1 | -77.1 |
| Nakhon Si Thammarat | 27.0 | 1.0 | 31.1 | -114.3 | 31.1 | -114.3 |
| Songkhla | 27.9 | 0.8 | 1.9 | -72.9 | 1.9 | -72.9 |
| Hat Yai Airport | 27.3 | 1.3 | 1.0 | -52.8 | 1.0 | -52.8 |
| Pattani Airport | 27.2 | 1.2 | 0.2 | -50.7 | 0.2 | -50.7 |
| Narathiwat | 27.2 | 1.1 | 27.4 | -74.2 | 27.4 | -74.2 |
| Over the area | 27.4 | 1.4 | 13.0 | -46.7 -78% | 13.0 | -46.7 -78% |

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 | 27.7 | 1.0 | 7.9 | -2.1 | 7.9 | -2.1 |
| Takua Pa | 27.2 | 0.8 | 2.6 | -36.8 | 2.6 | -36.8 |
| Phuket | 29.6 | 1.5 | 0.0 | -30.3 | 0.0 | -30.3 |
| Phuket Airport | 28.3 | 1.3 | 2.8 | -33.4 | 2.8 | -33.4 |
| Ko Lanta | 28.6 | 1.0 | 0.4 | -14.5 | 0.4 | -14.5 |
| Trang Airport | 28.2 | 1.4 | 4.7 | -27.8 | 4.7 | -27.8 |
| Satun | 28.7 | 1.2 | 25.3 | 4.1 | 25.3 | 4.1 |
| Over the area | 28.3 | 1.1 | 6.2 | -20.2 -77% | 6.2 | -20.2 -77% |

- 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.

















