

Monthly Weather Summary in Thailand November 2012

In November 2012, a pattern of high pressure areas from China extending to cover upper Thailand was weak and frequently dominated the northeastern Thailand and the South China Sea resulting in an overall mild winter across Thailand with the intermittent cool weather in the northern and northeastern parts and cool weather was present in some areas for the rest. Mean monthly temperature of this November was 27.5 °C, higher than its previous highest record since 1951, with the most anomalous warmth in all parts of the country in particular across the northern and northeastern parts where notable warmth as high as 2-3 °C above normal. For rainfall, upper Thailand experienced unusual rainfall especially in the central and eastern parts where obtained unseasonable rain during the second half of the month and the new highest records of daily rainfall in some stations was established. For southern part, due to the prevailing of the northeast monsoon during early month, active low pressure cell covering the upper Gulf of Thailand during mid-month and the easterly wave moving through southern Thailand during late month resulting in abundant rainfall nearly the whole month. Monthly rainfall was higher than normal in most parts i.e. northern part 17.0 mm (50%), northeastern part 22.8 mm (127%), central 32.7 mm (89%), eastern part 97.8 mm (160%) and southern part (west coast) 31.9 mm (16%) while it was inversely lower than normal in southern part (east coast) 101.7 mm (27%).

1-10 November: The ridge of high pressure area from China extending to cover upper Thailand coupled with the moderate northeast monsoon prevailing over the Andaman Sea, Thailand and the Gulf of Thailand caused cool weather in most of areas in the northern part, while northeastern part experienced cool weather mainly in the first half of the period. Cool weather also observed in some areas for the rest. The minimum temperature of the period was 16.0 °C, at Agrometeorological Station in Sakon Nakhon province on November 1 and 8.6 °C in the area of mountain top at Doi Pa Hom Pok, Fang in Chiang Mai province on November 3 and also at Doi Inthanon, Chom Thong in Chiang Mai province on November 4. For rainfall, isolated to widely scattered rain was observed in upper Thailand with the maximum daily rainfall of 114.6 mm at Klong Kalanta School, Khet Suan Luang in Bangkok Metropolis on November 9. In southern part, fairly widespread rain was mainly observed during the first half of the period. The highest daily rainfall was 108.6 mm at Walailak University in Nakhon Si Thammarat province on November 2.

11-20 November: Under the influence of the remnant of tropical depression making landfall over the southern Vietnam before heading to the Tip of Indochina and covering the upper Gulf of Thailand during mid-period and the passage of the easterly wave over the Gulf of Thailand and southern part during early and late period caused relatively increasing in rainfall especially in the central, eastern and the southern parts which experienced scattered to fairly widespread rain. The maximum daily rainfall in upper Thailand was 87.5 mm at Mae Tang, Chiang Mai province on November 13 and while that of 95.0 mm was recorded in southern part at Lang Suan Agricultural Extension Office in Chumphon province on November 18. However, the ridge of

high pressure areas covering upper Thailand and the South China Sea caused cool weather in most of areas of the northern and northeastern parts while cool weather in some areas for the rest. The lowest minimum temperature was 18.0 °C at Umphang in Tak province and 6.0 °C was measured in the mountainous area at Doi Pha Hom Pok, Fang in Chiang Mai province on November 16.

21-30 November: With the weakening of the high pressure areas, temperature was relatively increased nationwide especially in the northeastern part where temperature rose obviously. The lowest minimum temperature of 19.4 °C was measured at Amphoe Muang, Mae Hong son province on November 24 and 7.5 °C over the area of mountaintop at Doi Pha Hom Pok, Chiang Mai province on November 25-27. For rainfall, upper Thailand experienced unseasonable rainfall especially the central and eastern parts obtained scattered to fairly wide spread rain with isolated heavy to very heavy rainfall during mid-period. The highest daily rainfall was 122.4 mm at Amphoe Muang in Ubon Ratchathani province on November 23. Thunderstorm with hailed occurred at Chiang Mai province on November 24. In southern part, the easterly wave moved through the southern part and the Gulf of Thailand during mid-period and the easterly wind prevailed over the southern part during late period producing plentiful of rainfall nearly the whole period especially during the middle and the end of the period that obtained heavy to very heavy rainfall in many areas. The heaviest daily rainfall of 268.3 mm was measured at Southern Meteorological Center (East Coast) in Songkhla province on November 30.

Note : Rainfall, temperatures and natural disasters in this report were updated up to December 3, 2012.

Climatological Center
 Meteorological Development Bureau
 Meteorological Department

Breaking record of highest daily rainfall in November

| Station | New Record in 2012 | | Previous Record | | Start since |
|---------------------------------|--------------------|------|-----------------|-------------|-------------|
| | Rainfall (mm) | Date | Rainfall (mm) | Date / Year | |
| 1. Lampang Agromet. Stn. | 77.5 | 28 | 50.6 | 17/1983 | 1982 |
| 2. Mae Sot (Tak) | 73.1 | 25 | 51.0 | 7/1981 | 1951 |
| 3. Ubon Ratchathani | 122.4 | 23 | 77.5 | 21/1998 | 1951 |
| 4. Burirum | 51.3 | 17 | 40.0 | 4/2008 | 2003 |
| 5. Don Muang Airport | 80.9 | 28 | 60.2 | 22/2006 | 1951 |
| 6. Pilot Station (Samut Prakan) | 90.3 | 24 | 80.6 | 1/2002 | 1981 |

Monthly Current Report
Rainfall and Accumulative Rainfall
November 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 | 25.2 | 3.2 | 55.5 | -1.1 | 1897.2 | 213.5 |
| Mae Hong Son | 26.2 | 2.4 | 55.4 | 10.2 | 1558.4 | 290.4 |
| Phayao | 25.5 | 2.6 | 112.1 | 71.6 | 1088.9 | 4.5 |
| Chiang Mai | 27.0 | 3.2 | 38.8 | -12.6 | 957.4 | -158.5 |
| Tha Wang Pha | 26.0 | 3.0 | 77.7 | 52.3 | 1169.2 | -217.8 |
| Nan | 26.8 | 3.2 | 37.4 | 16.9 | 1159.8 | -70.7 |
| Lamphun | 26.4 | 2.5 | 50.6 | 2.5 | 916.4 | -38.8 |
| Lampang | 26.7 | 3.0 | 42.5 | 8.2 | 1215.9 | 163.5 |
| Mae Sariang | 26.4 | 2.3 | 55.4 | 34.5 | 1288.7 | 157.8 |
| Phrae | 27.0 | 2.8 | 44.3 | 22.2 | 1383.5 | 308.6 |
| Uttaradit | 28.4 | 2.7 | 10.0 | -19.9 | 1474.9 | 68.7 |
| Bhumibol Dam | 26.8 | 2.0 | 20.7 | -29.0 | 961.5 | -67.2 |
| Tak | 27.5 | 2.8 | 29.6 | -31.2 | 1031.4 | -17.2 |
| Mae Sot | 26.7 | 2.6 | 126.2 | 101.5 | 2052.6 | 661.5 |
| Umphang | 24.5 | 2.8 | 141.8 | 114.9 | 1817.0 | 392.7 |
| Phitsanulok | 28.3 | 2.2 | 49.8 | 16.5 | 1233.5 | -95.5 |
| Lom Sak | 27.7 | 2.5 | 17.3 | 2.5 | 929.6 | -110.2 |
| Phetchabun | 28.1 | 3.0 | 23.0 | 12.5 | 1032.6 | -39.9 |
| Wichian Buri | 28.4 | 2.3 | 10.0 | -6.6 | 1050.1 | -149.2 |
| Kamphaeng Phet | 28.1 | 2.4 | 23.7 | -26.4 | 1270.1 | -4.6 |
| Over the area | 26.9 | 2.7 | 51.1 | 17.0 50% | 1274.4 | 64.7 5% |

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 | 28.0 | 3.8 | 71.3 | 59.4 | 1520.4 | -13.9 |
| Loei | 26.7 | 3.4 | 21.4 | 3.0 | 1023.4 | -208.6 |
| Udon Thani | 27.8 | 3.1 | 69.7 | 61.9 | 888.0 | -497.8 |
| Nakhon Phanom | 27.6 | 3.6 | 11.7 | 2.9 | 2037.3 | -213.7 |
| Sakon Nakhon | 27.5 | 3.4 | 21.8 | 15.4 | 1741.0 | 147.4 |
| Mukdahan | 27.9 | 3.7 | 11.4 | 1.5 | 1051.5 | -452.9 |
| Khon Kaen | 27.9 | 3.3 | 30.0 | 15.1 | 1034.4 | -169.8 |
| Kosum Phisai | 28.1 | 3.0 | 9.1 | -5.0 | 1466.9 | 252.7 |
| Roi Et | 27.9 | 3.4 | 45.7 | 33.6 | 1203.3 | -139.9 |
| Chaiyaphum | 27.9 | 2.7 | 20.9 | 4.6 | 1082.7 | -30.0 |
| Ubon Ratchathani | 28.1 | 3.2 | 135.7 | 113.0 | 1658.9 | 78.8 |
| Tha Tum | 28.5 | 3.3 | 10.6 | -7.5 | 1200.8 | -188.2 |
| Surin | 27.7 | 2.8 | 55.8 | 29.4 | 1009.1 | -341.5 |
| Nakhon Ratchasima | 27.8 | 2.9 | 61.6 | 34.6 | 1054.0 | 22.3 |
| Chok Chai | 27.6 | 2.8 | 10.9 | -24.6 | 813.6 | -281.2 |
| Nang Rong | 26.9 | 1.9 | 63.5 | 26.7 | 1277.4 | 91.5 |
| Over the area | 27.7 | 3.1 | 40.7 | 22.8 127% | 1253.9 | -121.7 -9% |

- 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
November 2012

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 | 28.3 | 2.0 | 56.7 | 26.2 | 1115.8 | 43.3 |
| Bua Chum | 28.0 | 2.5 | 15.3 | -1.9 | 1178.6 | 96.3 |
| Lop Buri | 28.6 | 1.8 | 49.4 | 14.5 | 1058.8 | -60.6 |
| Suphan Buri | 28.7 | 2.3 | 77.9 | 35.7 | 1201.7 | 151.1 |
| Thong Pha Phum | 27.3 | 2.3 | 19.9 | -4.8 | 2144.6 | 384.0 |
| Kanchanaburi | 28.0 | 1.9 | 114.4 | 51.7 | 1146.4 | 97.3 |
| Bangkok Airport | 29.3 | 2.1 | 133.4 | 97.4 | 1603.4 | 379.0 |
| Bangkok Metropolis | 28.7 | 1.6 | 88.9 | 42.9 | 1720.2 | 182.0 |
| Over the area | 28.4 | 2.1 | 69.5 | 32.7 89% | 1396.2 | 159.0 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 | 28.9 | 1.7 | 106.8 | 71.7 | 1910.8 | 39.4 |
| Kabin Buri | 27.9 | 1.3 | 60.4 | 29.0 | 1732.4 | 86.1 |
| Aranyaprathet | 28.6 | 2.5 | 109.2 | 62.1 | 1372.3 | -0.5 |
| Chon Buri | 28.8 | 1.9 | 118.6 | 60.4 | 1358.7 | 64.6 |
| Ko Sichang | 27.8 | 0.9 | 95.2 | 32.0 | 1388.1 | 141.4 |
| Pattaya | 27.4 | 0.9 | 222.6 | 138.9 | 1281.4 | 164.0 |
| Sattahip | 27.5 | 0.9 | 221.2 | 133.6 | 1619.6 | 342.2 |
| Rayong | 27.7 | 0.6 | 59.3 | -7.2 | 1572.8 | 176.1 |
| Chanthaburi | 28.0 | 1.5 | 204.4 | 149.0 | 2624.9 | -219.0 |
| Khlong Yai | 27.8 | 0.5 | 392.8 | 307.9 | 5444.0 | 727.1 |
| Over the area | 28.0 | 1.2 | 159.1 | 97.8 160% | 2030.5 | 152.0 8% |

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Monthly Current Report
Rainfall and Accumulative Rainfall
November 2012

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 | 27.8 | 1.1 | 182.7 | 59.7 | 1062.8 | 86.5 |
| Hua Hin | 27.8 | 1.4 | 153.7 | 6.3 | 796.8 | -156.5 |
| Prachuap Khiri Khan | 27.0 | 0.8 | 308.3 | 108.4 | 1153.5 | 63.1 |
| Chumphon | 26.9 | 1.0 | 447.7 | 113.5 | 1859.3 | 81.7 |
| Surat Thani | 26.9 | 0.9 | 104.2 | -197.9 | 1450.4 | 65.4 |
| Ko Samui | 27.6 | 1.0 | 396.5 | -93.9 | 1513.8 | -221.4 |
| Nakhon Si Thammarat | 26.8 | 0.8 | 370.0 | -254.7 | 2314.6 | 334.3 |
| Songkhla | 27.7 | 0.9 | 670.1 | 102.8 | 2182.7 | 608.1 |
| Hat Yai Airport | 27.0 | 1.2 | 105.4 | -212.7 | 1105.7 | -309.5 |
| Pattani Airport | 27.4 | 1.3 | 92.8 | -345.0 | 1348.9 | -130.4 |
| Narathiwat | 27.1 | 0.9 | 204.6 | -405.1 | 1847.8 | -77.8 |
| Over the area | 27.3 | 1.1 | 276.0 | -101.7 -27% | 1512.4 | 31.2 2% |

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 | 27.1 | 1.0 | 181.1 | 7.2 | 5479.8 | 1396.1 |
| Takua Pa | 26.9 | 0.5 | 357.2 | 82.1 | 4534.8 | 952.1 |
| Phuket | 28.7 | 1.3 | 278.4 | 104.6 | 2696.1 | 484.3 |
| Phuket Airport | 27.6 | 1.0 | 308.5 | 92.5 | 3070.0 | 639.1 |
| Ko Lanta | 27.6 | 0.6 | 115.2 | -45.5 | 2118.5 | -16.6 |
| Trang Airport | 27.2 | 1.1 | 200.8 | -5.5 | 2385.5 | 299.6 |
| Satun | 27.7 | 0.9 | 200.7 | -12.1 | 2406.3 | 208.3 |
| Over the area | 27.5 | 0.9 | 234.6 | 31.9 16% | 3241.6 | 566.2 21% |

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