



GOVERNMENT OF INDIA

भारत सरकार

INDIA METEOROLOGICAL DEPARTMENT

भारत मौसम विज्ञान विभाग

METEOROLOGICAL CENTRE, GANGTOK

मौसम विज्ञान केंद्र, गंगटोक

WEEKLY WEATHER REPORT FOR SIKKIM

FOR THE WEEK 10TH AUGUST' 2017 TO 16TH AUGUST' 2017

SYNOPTIC SITUATION

- ✚ **On 10th AUGUST' 2017:** The axis of monsoon trough at mean sea level now passes through Amritsar, Karnal, Bareilly, Gorakhpur, Muzaffarpur, Gopalpur and thence eastwards to east Assam. Another branch passes through Muzaffarpur, Bhagalpur, Santiniketan and thence southeastwards to North Bay of Bengal. The upper air cyclonic circulation over northern parts of Madhya Pradesh now lies over west Uttar Pradesh & neighbourhood and extends upto 0.9 km above mean sea level. The Western Disturbance as an upper air cyclonic circulation over north Pakistan & adjoining Jammu & Kashmir now lies over east Jammu & Kashmir & neighbourhood at 5.8 km above mean sea level. The upper air cyclonic circulation over northeast Arabian Sea & adjoining Kutch now lies over Kutch & neighbourhood between 2.1 km & 3.6 Km above mean sea level. The upper air cyclonic circulation over southeast Arabian Sea off south Karnataka and north Kerala Coasts at 7.6 Km above mean sea level persists. An upper air cyclonic circulation lies over Madhya Maharashtra & neighbourhood between 4.5 Km & 5.8 km above mean sea level. A north-south trough runs from Rayalaseema to Comorin area across Tamilnadu and extended upto 1.5 Km above mean level. The trough from south Punjab to Gangetic West Bengal at 0.9 Km above mean level across south Uttar Pradesh & Jharkhand has become less marked.

✚ **On 11TH AUGUST' 2017:** The axis of monsoon trough at mean sea level runs close to the foot hills of Himalayas. The upper air cyclonic circulation over Kutch & neighbourhood, now seen between 1.5 & 2.1 km above mean sea level. The upper air cyclonic circulation over southeast Arabian Sea off south Karnataka and north Kerala Coasts, now seen between 3.1 Km & 4.5 Km above mean sea level. An upper air cyclonic circulation over Madhya Maharashtra & neighbourhood, now lies over Gujarat region & neighbourhood between 3.1Km & 5.8 Km above mean sea level.

✚ **On 12TH AUGUST' 2017:** The axis of monsoon trough at mean sea level continues to run close to the foothills of Himalayas. A fresh Western disturbance as an upper air cyclonic circulation lies over Afghanistan & neighbourhood and extended upto 3.6 Km above mean sea level. An upper air cyclonic circulation lies over eastern parts of Bihar & neighbourhood and extends upto 5.8 Km above mean sea level. A trough runs from east Bihar to south Assam and extended upto 0.9 Km above mean sea level. The upper air cyclonic circulation over Kutch & neighbourhood between 1.5 & 2.1 km above mean sea level persist. The upper air cyclonic circulation over Gujarat region & neighbourhood persists and now seen between 3.1Km & 4.5 Km above mean sea level.

✚ **On 13TH AUGUST' 2017:** The axis of monsoon trough at mean sea level continues to run close to the foothills of Himalayas. The Western disturbance as an upper air cyclonic circulation over Afghanistan & neighbourhood extending upto 3.6 km above mean sea level persists; now with a trough aloft runs roughly along longitude 64°E and north of latitude 30°N. The upper air cyclonic circulation over eastern parts of Bihar & neighbourhood now lies over eastern parts of Bihar & adjoining Sub-Himalayan West Bengal and extends upto 5.8 km above mean sea level. The trough from the upper air cyclonic circulation over eastern parts of Bihar to south Assam now runs from eastern parts of Bihar & adjoining Sub-Himalayan West Bengal to northwest Bay of Bengal and extended upto 1.5 km above mean sea level. The east-west shear zone runs roughly along longitude 8.0°N at 5.8 km above mean sea level.

✚ **On 14TH AUGUST, 2017:** The axis of western end of monsoon trough at mean sea level runs close to foot hills of Himalayas. The eastern end of monsoon trough passes through Patna, Bankura, Digha and thence southeastwards to North Bay of Bengal. The Western disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood extended upto 3.6 km above mean sea level persists, the trough aloft now runs roughly along longitude 71.0°E and north of latitude 30.0 °N. The upper air cyclonic circulation over eastern parts of Bihar & adjoining Sub-Himalayan West Bengal, now lies over northwest Bihar & neighbourhood and extended upto 2.1 km above mean sea level. The east-west shear zone roughly along latitude 8.0°N at 5.8 km above mean sea level has become less marked. The trough from eastern parts of Bihar & adjoining Sub-Himalayan West Bengal to northwest Bay of Bengal extended upto 1.5 km above mean sea level has become less marked.

✚ **On 15TH AUGUST, 2017:** The axis of western end of monsoon trough at mean sea level continues to run close to foothills of Himalayas. The eastern end of monsoon trough also continues to pass through Patna, Bankura, Digha and thence southeastwards to North Bay of Bengal. The Western disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood now lies over north Pakistan and adjoining Jammu & Kashmir between 3.1 km & 4.5 km above mean sea level with a trough aloft roughly along longitude 73.0°E and north of latitude 32.0°N. The upper air cyclonic circulation over northwest Bihar & neighbourhood now lies over northeast Uttar Pradesh & neighbourhood and extended upto 1.5 km above mean sea level. An east-west shear zone runs roughly along latitude 10°N between 3.6 km & 7.6 km above mean sea level. An upper air cyclonic circulation lies over northern parts of Bihar & neighbourhood between 3.1 km & 5.8 km above mean sea level. An upper air cyclonic circulation lies over south Pakistan & adjoining Kutch between 1.5 km & 2.1 km above mean sea level.

✚ **On 16TH AUGUST, 2017:** The axis of western end of monsoon trough at mean sea level continues to run close to foothills of Himalayas. The eastern end of monsoon trough now passes through Muzaffarpur, Purnea, Malda and thence

southeastwards to northeast Bay of Bengal across Bangladesh. The Western disturbance as an upper air cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir between 3.1 km & 4.5 km above mean sea level with a trough aloft roughly along longitude 73.0°E and north of latitude 32.0°N has moved away east-northeastwards. A fresh Western disturbance as an upper air cyclonic circulation lies over northeast Afghanistan & adjoining north Pakistan and extends upto 4.5 km above mean sea level. The east-west shear zone roughly now runs roughly along latitude 11°N between 5.8 km & 7.6 km above mean sea level. The upper air cyclonic circulation over northern parts of Bihar & neighbourhood now lies over northeast Bihar & neighbourhood between 4.5 km & 5.8 km above mean sea level. An upper air cyclonic circulation lies over west Assam & neighbourhood at 3.1 Km above mean sea level. An upper air cyclonic circulation likely to develop over northwest Bay of Bengal and adjoining Odisha & West Bengal coasts during next twenty-four hours.

ASSOCIATED WEATHER

Under the influence of above mentioned synoptic situations, light rainfall occurred at few places on 16th August'2017, light to moderate rainfall occurred at most places on 10th, 11th, 13th, 14th & 15th August'2017, moderate to heavy rainfall occurred at most places on 12th August'2017.

MAXIMUM & MINIMUM TEMPERATURE (IN DEGREE CELSIUS) RECORDED DURING THE WEEK:

Station	GANGTOK [EAST]				TADONG [EAST]				MAZITAR [EAST]				MANGAN [NORTH]				NAMTHANG [SOUTH]			
	Tx	Dep	Tn	Dep	Tx	Dep	Tn	Dep	Tx	Dep	Tn	Dep	Tx	Dep	Tn	Dep	Tx	Dep	Tn	Dep
10-Aug	19	-3	18	1	23	-4	20	1	32	-2	23	-1	29	-1	24	3	27	0	23	4
11-Aug	21	-2	18	1	26	-1	20	1	30	-4	23	0	27	-4	19	-2	27	0	21	2
12-Aug	19	-3	19	2	23	-4	21	2	30	-3	23	0	29	-1	18	-3	27	0	22	3
13-Aug	20	-2	18	1	26	-1	20	1	28	-4	24	1	28	-2	19	-1	24	-2	23	4
14-Aug	23	0	17	1	30	3	20	1	35	3	24	1	29	-1	19	-2	25	-2	21	3
15-Aug	23	1	19	2	30	3	21	2	35	2	25	2	29	-2	19	-2	29	3	23	3
16-Aug	23	1	19	3	30	3	21	2	35	2	26	3	30	1	19	-1	29	3	22	3

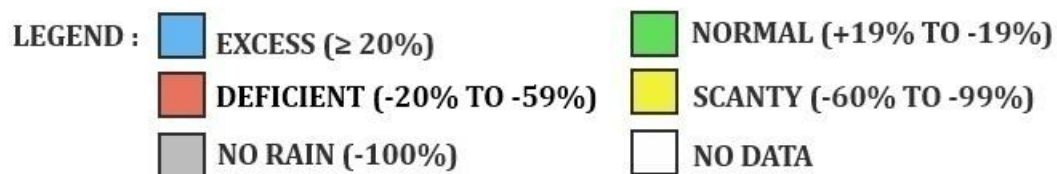
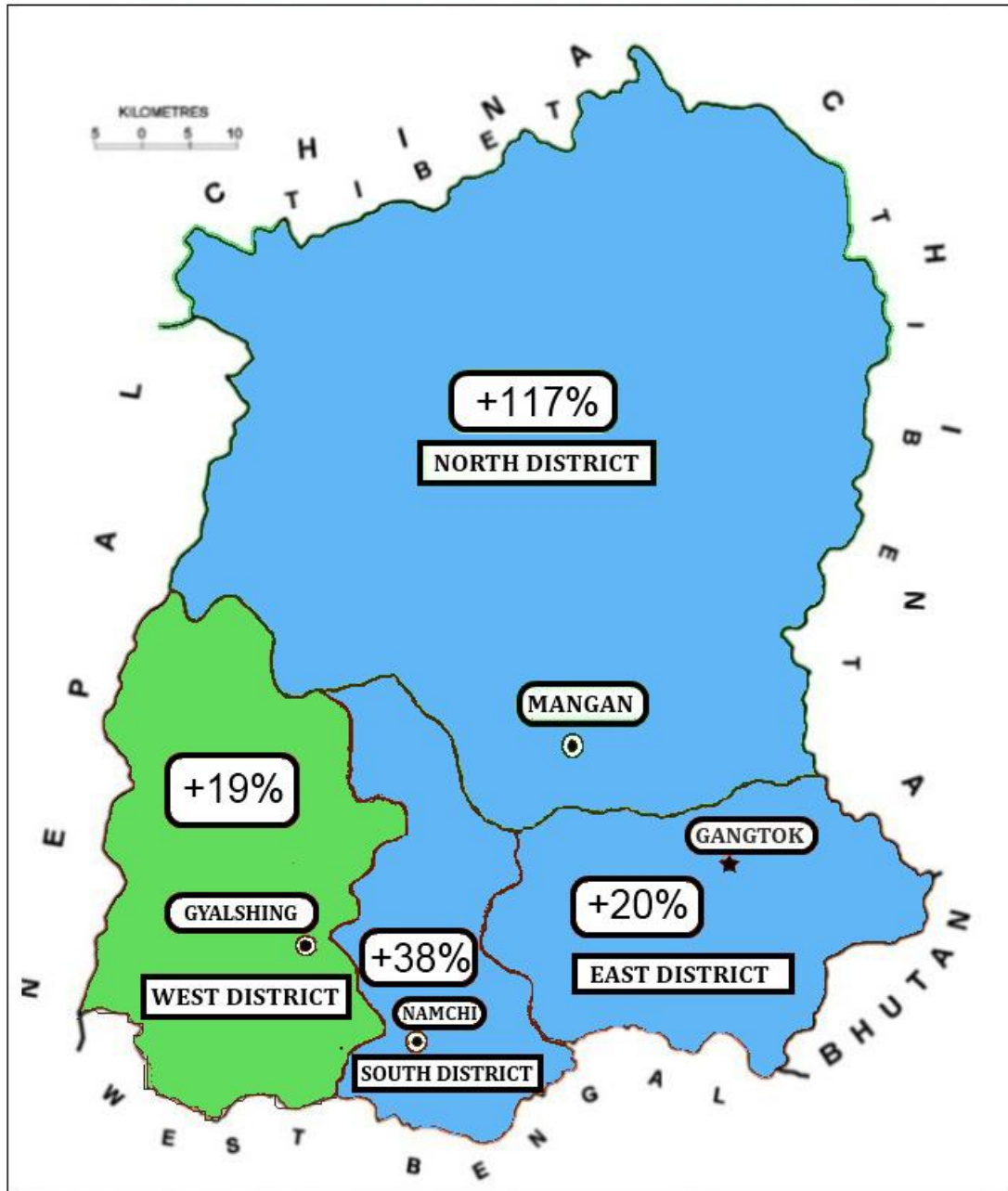
**CHIEF AMOUNT OF RAINFALL RECEIVED DURING THE WEEK (IN MM) RECORDED AT
0830 HRS IST OF THE DAY:**

Date	GANGTOK	TADONG	MAZITAR	KHANITAR	MANGAN [NORTH]	CHUNGTHANG [NORTH]	NAMTHANG	DAMTHANG [SOUTH]	DENTAM [WEST]
10-Aug	022.8	017.0	004.0	010.0	035.2	047.4	009.4	008.4	011.2
11-Aug	038.6	028.5	012.0	010.2	041.2	017.2	029.4	031.6	032.2
12-Aug	035.0	020.7	015.0	021.6	070.3	012.8	029.5	028.0	018.2
13-Aug	024.0	024.2	030.0	052.2	140.1	008.4	039.5	038.0	036.0
14-Aug	024.0	014.8	002.0	004.2	028.5	013.2	004.4	017.0	008.4
15-Aug	008.4	000.0	000.0	000.0	009.1	018.4	000.0	007.6	012.0
16-Aug	000.7	000.0	000.0	000.0	000.3	N/A	000.0	000.0	003.0

DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

10TH AUGUST' 2017 TO 16TH AUGUST'2017

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01ST JUNE' 2017 TO 16TH AUGUST' 2017

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