



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 05TH JULY 2018 TO 11TH JULY 2018

SYNOPTIC SITUATION

✚ **On 05TH JULY 2018:** A Western Disturbance lies as cyclonic circulation over north Pakistan & neighbourhood between 3.1 km & 4.5km above mean sea level with a trough aloft with its axis at 5.8 km above mean sea level running roughly along Long. 72°E to the north of Lat. 32°N. The cyclonic circulation over south Odisha & neighbourhood now lies over interior Odisha & neighbourhood between 4.5 km & 5.8 km above mean sea level. The cyclonic circulation between 5.8 km & 7.6 km above mean level over southeast Bangladesh & neighbourhood now lies over south Bangladesh & neighbourhood.

✚ **On 06TH JULY 2018:** The Western Disturbance as a cyclonic circulation over north Pakistan & neighbourhood between 3.1 & 4.5 km above mean sea level has become less marked. However, the trough aloft with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 32°N persists. A cyclonic circulation extending upto 2.1 km above mean sea level lies over eastern parts of Bihar & neighbourhood. The cyclonic circulation over south Bangladesh & neighbourhood now lies over northwest Bay of Bengal and adjoining coastal areas of West Bengal & Odisha between 3.1 km & 7.6 km above mean sea level tilting southwestwards with height. The cyclonic

circulation over interior Odisha & neighbourhood now lies over north Chhattisgarh & neighbourhood between 2.1 km & 4.5 km above mean sea level.

✚ **On 07TH JULY 2018:** Under the influence of the cyclonic circulation over northwest Bay of Bengal and adjoining coastal areas of West Bengal & Odisha a low pressure area has formed over northwest Bay of Bengal & neighbourhood. Associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestwards with height. The Western Disturbance as a trough with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 32°N persists. The cyclonic circulation over south Pakistan & neighbourhood now lies over south Pakistan & adjoining West Rajasthan and extends upto 2.1 km above mean sea level. The cyclonic circulation over eastern parts of Bihar & neighbourhood now lies over Bihar and adjoining East Uttar Pradesh and extends upto 1.5 km above mean sea level.

✚ **On 08TH JULY 2018:** The low pressure area over northwest Bay of Bengal & neighbourhood has become less marked. However, cyclonic circulation now lies over north Odisha & neighbourhood and extends upto 7.6 km above mean sea level tilting southwestwards with height. The eastwest shear zone roughly along latitude 19° N between 3.1 & 7.6 km above mean sea level, tilting southwards with height persists. The Western Disturbance as trough with its axis at 5.8 km above mean seal now lies as a cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir between 4.5 & 5.8 km above mean sea level. The cyclonic circulation over Bihar & adjoining East Uttar Pradesh now lies over East Uttar Pradesh & neighbourhood and extends upto 3.6 km above mean sea level.

✚ **On 09th JULY 2018:** The cyclonic circulation over East Uttar Pradesh & neighbourhood now lies over south Uttar Pradesh and neighbourhood and extends upto 2.1 km above mean sea level. The cyclonic circulation over north Odisha & neighbourhood extending upto 7.6 km above mean sea level tilting

southwestwards with height now lies over Chhattisgarh and adjoining Odisha. The eastwest shear zone roughly along latitude 19° N persists and now seen between 4.5 & 7.6 km above mean sea level across the above cyclonic circulation. A low pressure area is very likely to form over North Bay of Bengal and neighbourhood around 13th July and become more marked subsequently.

✚ **On 10th JULY 2018:** The cyclonic circulation over north Haryana and neighbourhood extending upto 1.5 km above mean sea level has merged with the monsoon trough. The cyclonic circulation over south Uttar Pradesh and neighbourhood extending upto 2.1 km above mean sea level has also merged with the monsoon trough. The cyclonic circulation over Chhattisgarh and adjoining Odisha now lies over Chhattisgarh & adjoining East Madhya Pradesh and extends upto 2.1 km above mean sea level embedded in the monsoon trough. A low pressure area is very likely to form over North Bay of Bengal and neighbourhood around 13th July and become more marked subsequently.

✚ **On 11th JULY 2018:** The cyclonic circulation over Chhattisgarh & adjoining East Madhya Pradesh now lies over northeast Madhya Pradesh and neighbourhood extending upto 2.1 km above mean sea level embedded in the monsoon trough. The cyclonic circulation over south Odisha & neighbourhood now lies over north Coastal Odisha and neighbourhood between 3.1 km & 7.6 km above mean sea level tilting southwestwards with height. The eastwest shear zone now runs roughly along latitude 18° N and seen at 5.8 km above mean sea level. A low pressure area is very likely to form over North Bay of Bengal and neighbourhood during next 48 hours. A cyclonic circulation lies over south Pakistan and adjoining West Rajasthan between 1.5 km & 2.1 km above mean sea level.

ASSOCIATED WEATHER

Under the influence of the above mentioned synoptic situations, moderate rainfall occurred at most places on 5th July 2018, light to moderate rainfall occurred at a few places on 06th, 7th, 08th & 09th July 2018, and light to moderate rainfall occurred at most places on rest days of the week.

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

Station	GANGTOK [EAST]				TADONG [EAST]				MAZITAR [EAST]				MANGAN [NORTH]				NAMTHANG [SOUTH]				NAMCHI (AWS) [SOUTH]	
	Tx	Dep	Tn	Dep	Tx	Dep	Tn	Dep	Tx	Dep	Tn	Dep	Tx	Dep	Tn	Dep	Tx	Dep	Tn	Dep	Tx	Tn
5-Jul	20	-2	18	2	26	-1	21	1	29	-3	25	3	21	-8	6	-14	24	-2	21	4	23	20
6-Jul	23	1	17	1	30	4	20	0	35	2	23	0	20	-8	8	-12	29	3	17	-1	27	19
7-Jul	23	2	18	1	30	4	21	2	35	2	25	2	27	-2	7	-13	27	1	21	4	27	20
8-Jul	24	2	18	2	30	4	21	2	37	5	28	5	21	-9	7	-13	27	1	23	5	27	20
9-Jul	23	1	18	1	30	3	20	1	34	1	25	1	21	-8	8	-12	24	-2	21	3	26	19
10-Jul	24	2	19	2	30	3	21	2	33	3	25	2	21	-9	7	-13	24	-2	19	2	25	19
11-Jul	22	0	18	2	30	4	20	1	36	5	24	1	21	-9	7	-13	30	5	19	2	27	19

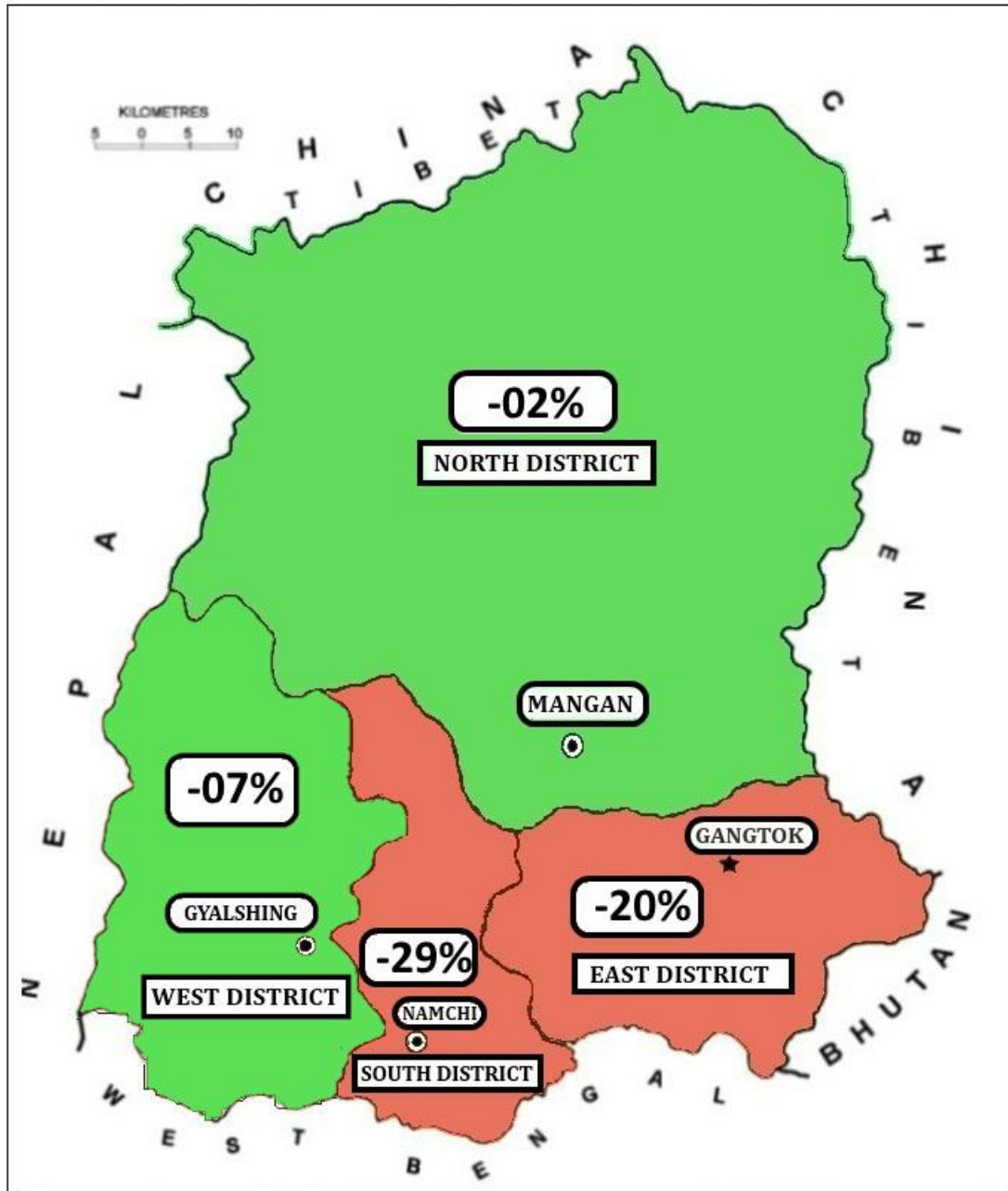
CHIEF AMOUNT OF RAINFALL RECEIVED DURING THE WEEK (IN MM) RECORDED AT 0830 HRS IST OF THE DAY:

Date	GANGTOK	TADONG	MAZITAR	KHANTAR	MANGAN [NORTH]	SANKALAN [NORTH]	CHUNGTHANG [NORTH]	NAMTHANG	DAMTHANG [SOUTH]	NAMCHI (AWS) [SOUTH]	YUKSOM (ORG)	DENTAM [WEST]	GYALSING (AWS) [WEST]	GYALSING (PTO) [WEST]
5-Jul	003.1	001.7	002.0	002.0	080.7	076.1	034.2	002.4	004.6	001.0	036.2	002.0	020.0	006.4
6-Jul	052.0	057.0	050.0	041.6	049.1	000.8	034.2	026.2	057.4	046.0	008.8	022.3	031.0	058.0
7-Jul	007.5	010.0	000.0	000.0	001.2	000.0	000.0	000.0	006.0	003.0	008.4	003.0	009.0	003.4
8-Jul	008.6	008.0	000.0	000.0	000.0	000.0	008.6	000.0	000.0	-	000.0	007.2	011.0	000.0
9-Jul	015.2	017.8	005.0	004.8	020.3	001.6	021.4	000.0	030.6	011.0	004.4	077.3	002.0	009.4
10-Jul	008.4	004.7	000.5	013.4	000.0	000.0	013.2	002.8	000.0	002.0	002.2	030.4	002.0	012.2
11-Jul	013.2	007.8	002.5	006.2	008.0	007.4	012.4	024.0	000.0	-	003.6	000.0	002.0	018.5

DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

05TH JULY TO 11TH JULY 2018

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DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01ST JUNE TO 11TH JULY 2018

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