



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 MAY 2018 TO 16TH MAY 2018

SYNOPTIC SITUATION

✚ **On 10TH MAY 2018:** A north south trough at 1.5 km above mean sea level ran from Uttarakhand to south Uttar Pradesh. A northsouth trough ran from northwest Rajasthan to south Madhya Maharashtra across West Madhya Pradesh and extended upto 0.9 km above mean sea level. The cyclonic circulation over Sub Himalayan West Bengal & adjoining Bihar was located over West Bengal & neighbourhood and extended upto 0.9 km above mean sea level. The trough aloft ran from east Bihar to northeast Odisha across Gangetic West Bengal at 1.5 km above mean sea level.

✚ **On 11TH MAY 2018:** The north-south trough at 1.5 km above mean sea level from Uttarakhand to south Uttar Pradesh ran from northern parts of north East Uttar Pradesh to north Chhattisgarh and extended upto 0.9 km above mean sea level. A cyclonic circulation was located over southeast Rajasthan adjoining West Madhya Pradesh & Gujarat and extended upto 0.9 km above mean sea level. The other north-south trough ran from northwest Rajasthan to north Madhya Maharashtra with the above embedded cyclonic circulation extending upto 0.9 km above mean sea level. A fresh Western Disturbance as a trough in mid & upper tropospheric levels with its axis at 5.8 km above mean sea level ran roughly along Long. 55°E to the north of Lat. 25°N. A fresh East-West trough ran from east Bihar to Nagaland and extended upto 0.9 km above mean sea level.

✚ **On 12TH MAY 2018:** The Western Disturbance as a trough in mid & upper tropospheric levels with its axis at 5.8 km above mean sea level ran roughly along Long. 60°E to the north of Lat. 28°N. The East West trough from east Bihar to Nagaland extended from West Uttar Pradesh to Nagaland across East Uttar Pradesh, Bihar, Sub Himalayan West Bengal at 1.5 km above mean sea level. A north south trough extended from Haryana to northwest Madhya Pradesh across East Rajasthan and extended upto 0.9 km above mean sea level.

✚ **On 13TH MAY 2018:** The Western Disturbance then as a cyclonic circulation was located over Jammu & Kashmir and neighbourhood at 3.1 km above mean sea level with trough aloft along Long. 74°E to the north of Lat. 34°N. A cyclonic circulation was located over south Haryana and neighbourhood and extended upto 0.9 km above mean sea level. The East-West trough ran from the above cyclonic circulation to Nagaland across North Madhya Pradesh, South Bihar, North Gangetic West Bengal and Meghalaya extended upto 1.5 km above mean sea level. A north south trough ran along Long. 88°E to the north of 22°N at 3.1 km above mean sea level. A fresh western disturbance as a trough in midtropospheric westerlies with its axis at 5.8 km above mean sea level ran along Long. 60°E to the north of Lat. 30°N.

✚ **On 14TH MAY 2018:** The Western Disturbance as a trough in midtropospheric westerlies with its axis at 5.8 km above mean level roughly along Long. 65°E to the north of lat. 30°N persisted. The other north south trough ran roughly along Long. 88°E to the north of 24°N between 3.1 km & 3.6 km above mean sea level. The cyclonic circulation over northern parts of West Bengal & neighbourhood extending upto 1.5 km above mean sea level persisted.

✚ **On 15TH MAY 2018:** The Western Disturbance as a trough in midtropospheric westerlies with its axis at 5.8 km above mean level roughly along Long. 65°E to the north of lat. 30°N persisted. A fresh Western Disturbance as an upper air cyclonic circulation was located over east Iran & neighbourhood between 3.1 km and 5.8 km above mean sea level. The Western Disturbance as a trough in midtropospheric westerlies with its axis at 5.8 km above mean level ran roughly along Long. 76°E to the north of lat. 34°N and was moving away eastnortheastwards. The cyclonic circulation over central Pakistan & adjoining Punjab and northwest Rajasthan extending upto 0.9 km above mean sea level persisted. A cyclonic circulation was located over east Bihar & neighbourhood and extended upto 1.5 km above mean sea level. The northsouth trough roughly along Long. 88°E to the north of 24°N, was seen between 5.8 km & 7.6 km above mean sea level.

✚ **On 16TH MAY 2018:** The Western Disturbance as an upper air cyclonic circulation over east Iran & neighbourhood was located over north Pakistan & adjoining Afghanistan at 5.8 km above mean sea level. The other Western Disturbance as a trough in midtropospheric westerlies with its axis at 5.8 km above mean level roughly along Long. 82°E to the north of lat. 34°N persisted. A fresh Western Disturbance as a trough in midtropospheric westerlies with its axis at 5.8 km above mean level ran roughly along Long. 55°E to the north of lat. 32°N. The cyclonic circulation over west Uttar Pradesh & neighbourhood extending upto 0.9 km above mean sea level persisted. The cyclonic circulation over

southeast Rajasthan & adjoining West Madhya Pradesh persisted and extended upto 0.9 km above mean sea level.

ASSOCIATED WEATHER

Under the influence of the above mentioned synoptic situations, very light to light rainfall occurred at isolated places on 10th, 12th and 13th May 2018; light rainfall occurred at a few places on 16th May 2018; moderate rainfall occurred at most places on 11th, 14th and 15th May 2018.

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
10-May	24	3	14	1	30	5	17	2	34	1	21	1	25	-2	7	-12	24	-1	16	2	20	14
11-May	21	0	14	1	26	0	16	1	35	3	23	3	20	-8	7	-12	25	0	14	0	23	15
12-May	21	0	11	-2	28	2	12	-3	35	2	18	-1	24	-3	7	-12	26	2	16	3	-	13
13-May	19	-2	15	1	26	0	17	2	35	3	22	3	20	-7	8	-11	27	3	17	4	-	-
14-May	18	-3	14	1	24	-2	16	1	34	1	22	2	29	1	7	-12	26	1	15	1	-	-
15-May	18	-3	14	1	24	-2	16	1	34	1	21	1	21	-7	8	-11	26	0	13	0	23	-
16-May	18	-3	14	0	24	-2	16	0	32	0	22	3	21	-8	8	-11	29	4	16	2	-	15

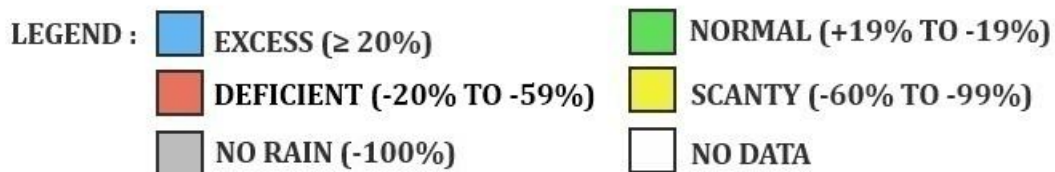
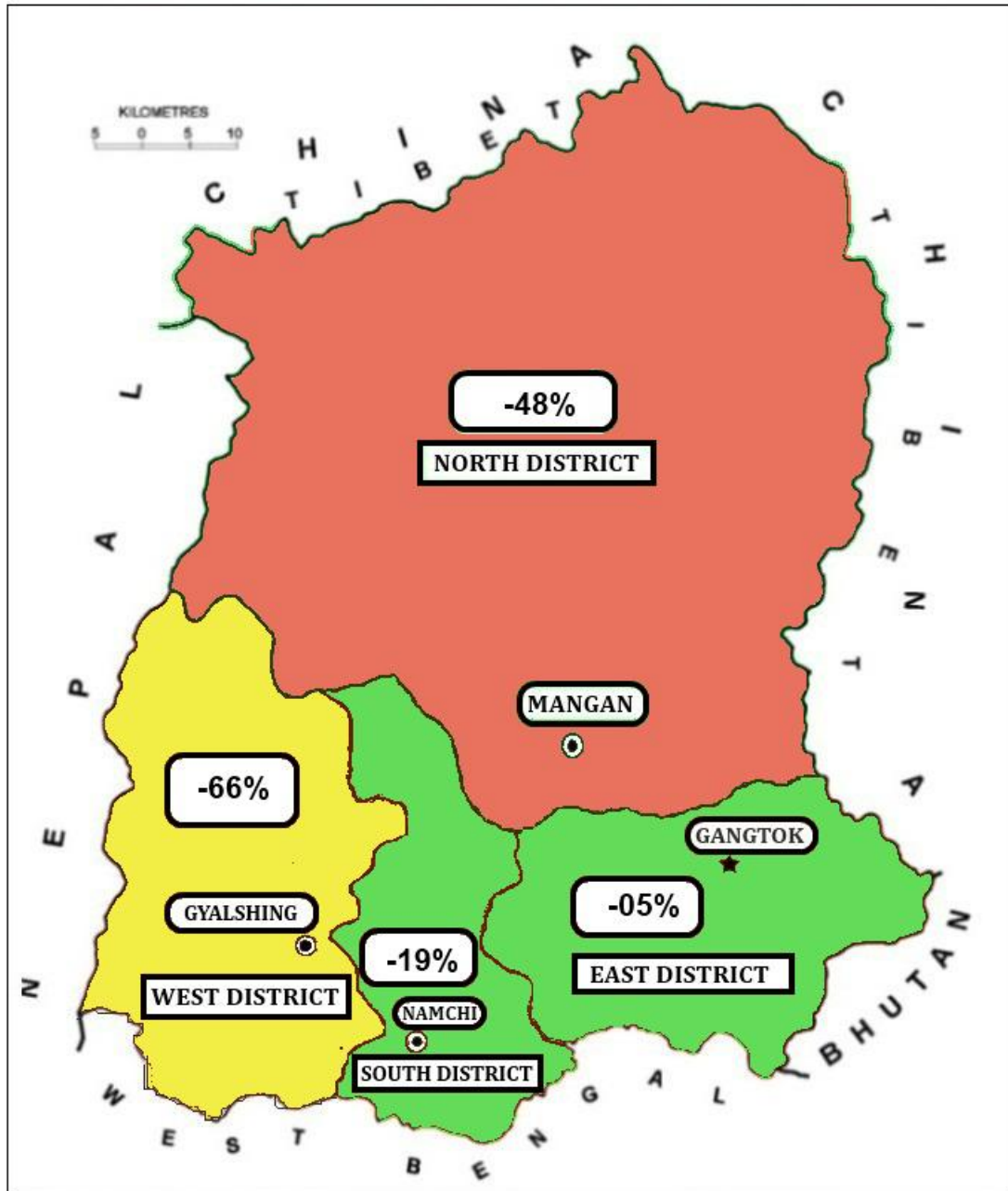
CHIEF AMOUNT OF RAINFALL RECEIVED DURING THE WEEK (IN MM) RECORDED AT 0830 HRS IST OF THE DAY:

Date	GANGTOK	TADONG	MAZITAR	KHANITAR	MANGAN [NORTH]	SANKALAN [NORTH]	CHUNGTHANG [NORTH]	NAMTHANG	DAMTHANG [SOUTH]	NAMCHI (AWS) [SOUTH]	YUKSOM (ORG)	DENTAM [WEST]	GYALSING (AWS) [WEST]	GYALSING (PTO) [WEST]
10-May	001.2	001.0	001.0	000.0	007.1	004.4	022.4	001.5	000.0	-	000.0	001.0	-	002.0
11-May	008.3	000.0	000.0	000.0	000.0	000.0	013.2	000.0	000.0	-	000.0	000.0	-	000.0
12-May	044.6	021.2	009.0	008.6	017.3	016.0	002.0	013.1	013.4	-	000.2	001.0	-	002.0
13-May	000.3	000.0	000.0	000.0	000.0	000.0	000.0	000.0	000.0	-	000.0	000.0	000.0	000.0
14-May	000.0	000.0	000.0	000.0	000.0	000.0	000.0	000.0	006.6	-	000.0	000.0	000.0	-
15-May	040.2	030.0	041.0	019.4	020.4	023.0	005.8	015.0	048.8	055.0	000.0	026.0	001.0	040.6
16-May	008.2	008.2	009.0	012.4	003.3	003.2	002.6	000.0	009.4	015.0	008.8	010.1	-	002.0

DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

10TH MAY TO 16TH MAY 2018

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DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01ST MARCH TO 16TH MAY 2018

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