



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 13TH JULY' 2017 TO 19TH JULY' 2017

SYNOPTIC SITUATION

- ✚ **On 13TH JULY' 2017:** The well marked low pressure area over northern parts of central Madhya Pradesh & adjoining East Uttar Pradesh persists and the associated upper air cyclonic circulation, now extends upto 7.6 Km above mean sea level. It is likely to concentrate into a depression during next 48 hours. The trough at mean sea level now runs from west Rajasthan to northwest Bay of Bengal across centre of well marked low pressure area over northern parts of central Madhya Pradesh & adjoining East Uttar Pradesh, north Chhattisgarh, Jharkhand, south Gangetic West Bengal and extends upto 2.1 above mean sea level. The western disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood between 3.1 & 4.5 Km above mean sea level persists with a trough aloft which runs roughly along Longitude 72.0°E and north of Latitude 32.0°N. The upper air cyclonic circulation over northwest Bay of Bengal, now lies over north Bay of Bengal & neighbourhood and extended upto 7.6 Km above mean sea level tilting southwestwards with height.
- ✚ **On 14TH JULY' 2017:** The well marked low pressure area over West Madhya Pradesh & neighbourhood persists. The associated upper air cyclonic circulation now extends upto 5.8 Km above mean sea level. It is likely to concentrate into a depression over north Gujarat & neighbourhood during next 48 hours. The trough at mean sea level from west Rajasthan to northwest Bay

of Bengal now runs across centre of well marked low pressure area over West Madhya Pradesh & neighbourhood, north Chhattisgarh & north Odisha and extends upto 2.1 above mean sea level. The off-shore trough at mean sea level from south Maharashtra coast to north Kerala coast persists. The western disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood now lies over Jammu & Kashmir and neighbourhood between 3.1 & 4.5 Km above mean sea level with a trough aloft roughly along Longitude 74.0°E and north of Latitude 34.0°N. The upper air cyclonic circulation over north Bay of Bengal & neighbourhood now lies over northwest Bay of Bengal & neighbourhood and extends upto 7.6 Km above mean sea level tilting southwestwards with height. Under its influence, a low pressure area is likely to form during next 3 days.

✚ **On 15TH JULY' 2017:** The well marked low pressure area over West Madhya Pradesh & adjoining East Rajasthan is now seen as a low pressure area over West Madhya Pradesh & adjoining southeast Rajasthan with associated upper air cyclonic circulation extending upto 5.8 Km above mean sea level. Under the influence of the upper air cyclonic circulation over northwest Bay of Bengal & neighbourhood a low pressure area has formed over northwest Bay of Bengal off north Odisha & Gangetic West Bengal coast. It is likely to become more marked during next 48 hours. The trough at mean sea level from West Rajasthan to northwest Bay of Bengal now runs from southwest Rajasthan to centre of low pressure area over northwest Bay of Bengal across centre of low pressure area over West Madhya Pradesh & adjoining southeast Rajasthan, north Chhattisgarh & north Odisha and extends upto 3.1 km above mean sea level. The western disturbance as an upper air cyclonic circulation over Jammu & Kashmir and neighbourhood between 3.1 & 4.5 Km above mean sea level is now seen as a trough along Longitude 74.0° E and north of Latitude 34.0 °N between 3.1 & 3.6 Km above mean sea level.


✚ **On 16TH JULY' 2017:** The Northern Limit of Monsoon (NLM) continues to pass through Jaisalmer, Phalodi, Nagaur, Sikar, Hissar, Patiala, Kapurthala and Lat. 31.5°N / Long. 74.5°E. The low pressure area over southwest Rajasthan &

neighbourhood, now lies over south Pakistan & neighbourhood with associated upper air cyclonic circulation extending upto 5.8 Km above mean sea level. The low pressure area over northwest Bay of Bengal and adjoining areas of Odisha & Gangetic West Bengal persists associated upper air cyclonic circulation, now extends upto 7.6 Km above mean sea level. It is very likely to become well marked during next 24 hours. The trough at mean sea level now runs from West Rajasthan to northeast Bay of Bengal across Madhya Pradesh, Chhattisgarh, north Odisha and center of low pressure area over northwest Bay of Bengal and adjoining areas of Odisha & Gangetic West Bengal and extends upto 1.5 km above mean sea level. A fresh western disturbance as a trough mid-tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Longitude 70.0° E and north of Latitude 32.0°N

✚ **On 17TH JULY' 2017:** Favourable conditions are likely to develop for further advance of southwest monsoon into remaining parts of Jammu division and Himachal Pradesh; some more parts of Haryana and some parts of Punjab during next 2-3 days. The upper air cyclonic circulation over western parts of Bihar & neighbourhood persists and now extends upto 3.6 km above mean sea level. The trough at mean sea level from north Punjab to northwest Bay of Bengal across north Uttar Pradesh, Jharkhand and Gangetic West Bengal persists. The east-west shear zone now runs roughly along north of Latitude 13.0°N at 5.8 km above mean sea level. The upper air cyclonic circulation over southwest Rajasthan & neighbourhood between 2.1 km and 3.6 km above mean sea level persists. An upper air cyclonic circulation lies over south Pakistan & adjoining Kutch and extended upto 1.5 km above mean sea level.

✚ **On 18TH JULY' 2017:** The depression over northwest & adjoining westcentral Bay of Bengal and coastal areas of Odisha centered near Lat.19.0° N and Long.86.0°E, about 120 km east-southeast of Gopalpur and 80 km south-southeast of Puri persists. It is very likely to move west northwestward and cross Odisha coast between Gopalpur and Puri by tonight. The trough at mean sea level from northwest Rajasthan to east central Bay of Bengal now runs from southwest Rajasthan to east central Bay of Bengal across Madhya

Pradesh, Chhattisgarh and centre of depression and extends upto 3.1 km above mean sea level. The upper air cyclonic circulation over Kutch & adjoining southwest Rajasthan now lies over Kutch & neighbourhood at 1.5 km above mean sea level. The east-west shear zone now runs roughly along Latitude 18.0°N between 4.5 & 7.6 Km above mean sea level. The western disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Longitude 71.0° E and north of Latitude 30.0°N.

 **On 19TH JULY' 2017:** The depression over coastal Odisha & neighbourhood has weakened into a well marked low pressure area, now lies over interior Odisha & neighbourhood with associated cyclonic circulation extending upto 7.6 Km above mean sea level tilting southwestwards with height. The trough at mean sea level from southwest Rajasthan to east central Bay of Bengal now runs across Madhya Pradesh, Chhattisgarh and centre of well marked low pressure area over interior Odisha & neighbourhood. The east-west shear zone now runs roughly along Latitude 19.0°N between 3.1 & 5.8 Km above mean sea level. An upper air cyclonic circulation lies over south Gujarat region & neighbourhood and extended upto 1.5 Km above mean sea level. A fresh western disturbance as an upper air cyclonic circulation lies over north Pakistan & adjoining Afghanistan at 3.1 above mean sea level with a trough aloft with its axis at 5.8 Km above mean sea level runs roughly along longitude 70.0° E and north of latitude 32.0°N. The western disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Longitude 71.0° E and north of Latitude 30.0°N has moved away east northeast wards.

ASSOCIATED WEATHER

Under the influence of above mentioned synoptic situations, light rainfall occurred at isolated places on 13th 16th 18th July'2017, light to moderate rainfall occurred at many places on 14th 15th 17th 19th July'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
13-Jul	23	1	18	1	29	3	19	0	35	4	24	1	28	-1	16	-4	29	3	20	3
14-Jul	23	2	18	1	31	5	20	1	35	2	24	2	29	1	17	-3	29	3	21	3
15-Jul	24	3	18	1	31	5	20	1	35	2	25	2	28	0	18	-2	29	4	21	3
16-Jul	24	2	18	1	30	4	20	1	36	3	24	1	29	0	18	-2	24	-1	20	2
17-Jul	26	4	17	1	32	6	19	0	36	4	24	0	29	0	19	-2	29	3	19	1
18-Jul	26	5	18	2	33	6	20	1	37	5	24	1	29	0	19	-2	25	1	20	2
19-Jul	22	1	19	2	29	3	21	2	31	-2	26	3	28	-1	19	-1	27	2	22	4

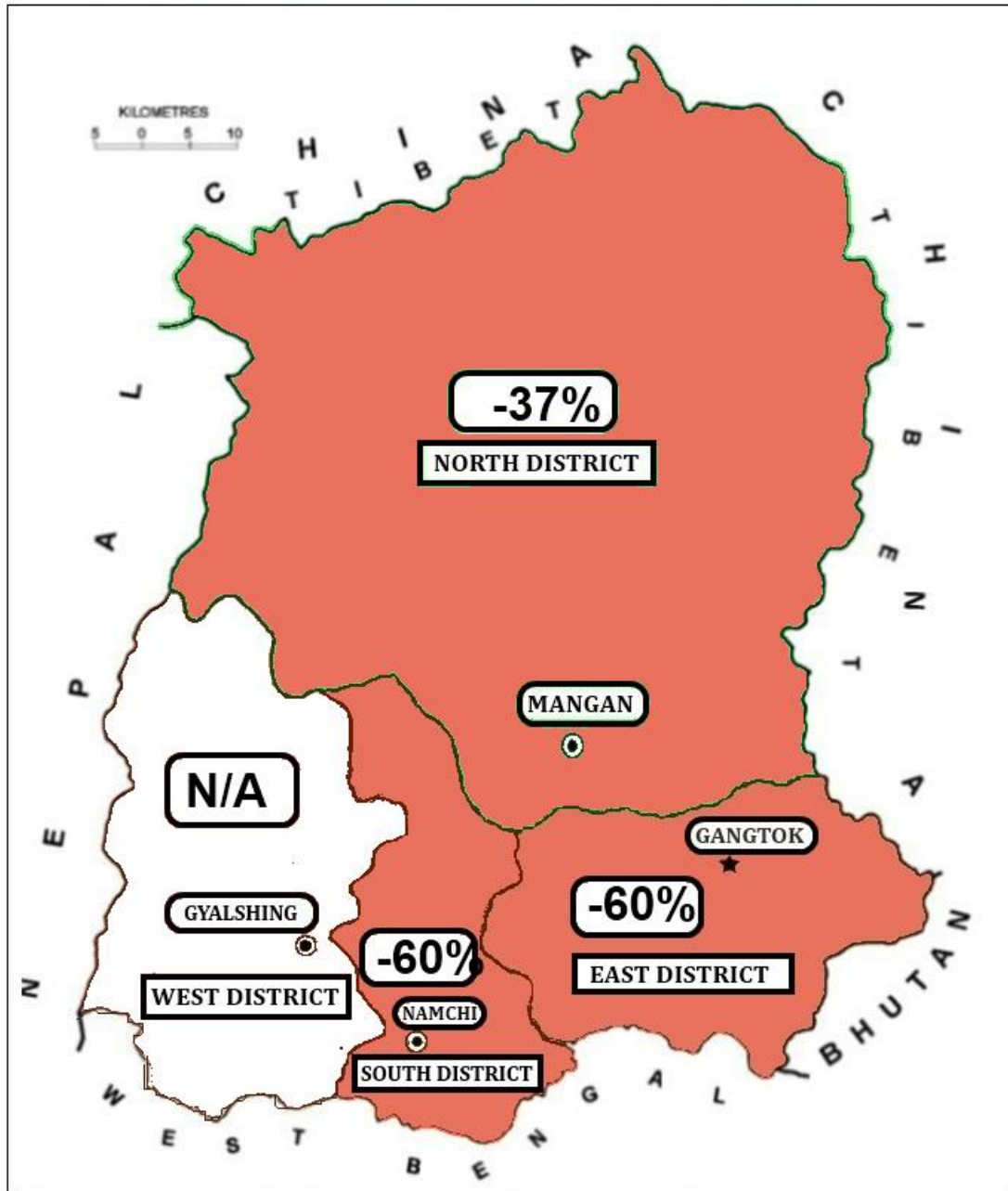
**CHIEF AMOUNT OF RAINFALL RECEIVED DURING THE WEEK (IN MM) RECORDED AT
0830 HRS IST OF THE DAY:**

Date	GANGTOK	TADONG	MAZITAR	KHANITAR	MANGAN [NORTH]	CHUNGTHANG [NORTH]	NAMTHANG	DAMTHANG [SOUTH]	DENTAM [WEST]
13-Jul	000.0	000.0	000.0	000.0	010.1	000.0	000.0	000.0	000.0
14-Jul	035.6	010.0	001.0	014.8	005.1	018.2	003.2	003.8	000.0
15-Jul	017.6	009.0	001.5	000.0	000.0	015.8	003.2	006.0	000.0
16-Jul	001.8	001.2	000.0	012.4	003.4	006.4	010.4	024.0	000.0
17-Jul	010.2	007.0	020.0	002.6	006.4	010.2	016.4	011.0	000.0
18-Jul	006.8	005.0	000.0	000.0	012.3	010.4	000.0	000.0	004.0
19-Jul	001.2	000.0	000.0	000.0	028.3	000.0	000.0	000.0	000.0

DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

13TH JULY' 2017 TO 19TH JULY' 2017

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01ST JUNE' 2017 TO 19TH JULY' 2017

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