



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 18<sup>TH</sup> MAY' 2017 TO 24<sup>TH</sup> MAY' 2017

### SYNOPTIC SITUATION

**On 18<sup>TH</sup> MAY' 2017:** The Western Disturbance as a trough in mid-tropospheric westerlies roughly along longitude 72.0°E and north of latitude 25.0°N, now runs roughly along longitude 75.0°E and north of latitude 30.0°N. An upper air cyclonic circulation lies over Punjab & neighbourhood and extends upto 0.9 Km above mean sea level. A trough runs from west Bihar to west central Bay of Bengal and extends upto 1.5 km above mean sea level and the upper air cyclonic circulation over north Chhattisgarh & neighbourhood, now lies over north Chhattisgarh and adjoining Odisha and extends upto 0.9 km above mean sea level embedded in the above trough. The trough from this system to north Coastal Andhra Pradesh extending upto 1.5 km above mean sea level has become less marked.

**On 19<sup>TH</sup> MAY' 2017:** The Northern Limit of Monsoon (NLM) continues to pass through Lat.5.0°N/Long. 80.0° E, Lat. 8.0° N/Long. 87.0° E, Lat. 13.0 °N/ Long. 92.0° E and Lat. 16.0° N/ Long. 95.0° E. The NLM, is likely to persist over the same region during next 4-5 days. The upper air cyclonic circulation over Punjab & neighbourhood extending upto 0.9 Km above mean sea level persists. A trough runs from this system to southeast Madhya Pradesh across northeast Rajasthan and extends upto 0.9 km above mean sea level. The trough from west Bihar to westcentral Bay of Bengal now runs from Bihar to westcentral Bay of Bengal, off north Andhra Pradesh coast at 1.5 km above mean sea level. The upper air cyclonic circulation over north Chhattisgarh & adjoining Odisha now lies over south Chhattisgarh & adjoining Odisha and extends upto 0.9 km above mean sea level.

**On 20<sup>TH</sup> MAY' 2017:** The Northern Limit of Monsoon (NLM) continues to pass through Lat.5.0°N/Long. 80.0° E, Lat. 8.0° N/Long. 87.0° E, Lat. 13.0 °N/ Long. 92.0° E and Lat. 16.0° N/ Long. 95.0° E. Conditions are likely to become favourable for further advance of southwest monsoon into some more parts of southwest, southeast and eastcentral Bay of Bengal after 3 days. The upper air cyclonic circulation over Punjab & neighbourhood extending upto 0.9 Km above mean sea level persists. However the trough from this system to southeast Madhya Pradesh across northeast Rajasthan extending upto 0.9 km above mean sea level has become less marked. An upper air cyclonic circulation lies over southwest Rajasthan & neighbourhood and extends upto 2.1 Km above mean sea level.

**On 21<sup>TH</sup> MAY' 2017:** Conditions are likely to become favourable for further advance of southwest monsoon into some more parts of southwest, southeast and eastcentral Bay of Bengal after 3 days. The upper air cyclonic circulation over Punjab & neighbourhood extending upto 0.9 Km above mean sea level persists. The upper air cyclonic circulation over southwest Rajasthan & neighbourhood extending upto 2.1 Km above mean sea level persists. The upper air cyclonic circulation over central Uttar Pradesh & neighbourhood extending upto 0.9 Km above mean sea level persists. The upper air cyclonic circulation over south Chhattisgarh & adjoining Odisha extending upto 0.9 km above mean sea level persists. The trough from this system to south Coastal Andhra Pradesh extending upto 1.5 Km above mean sea level also persists. The trough in westerlies roughly along Long. 92.0° E and north of Lat. 23° N between 2.1 Km to 3.6 Km above mean sea level persists.

**On 22<sup>TH</sup> MAY' 2017:** An upper air cyclonic circulation lies over South East Bay of Bengal & adjoining equatorial Indian Ocean between 1.5 Km & 3.1 Km above mean sea level. With the development of this upper air cyclonic circulation, conditions are becoming favorable for further advance of southwest monsoon into some more parts of southwest, southeast and eastcentral Bay of Bengal during next 2-3 days. The Western Disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood, now lies over north Pakistan and adjoining Jammu & Kashmir between 3.6 and 5.8 Km above mean sea level, with a trough aloft runs roughly along Long. 72.0° E and north of Lat. 25.0° N. An induced upper air cyclonic circulation lies over Punjab & neighbourhood between 1.5 and 2.1 Km above mean sea level.

**On 23<sup>TH</sup> MAY' 2017:** The upper air cyclonic circulation over Southeast Bay of Bengal & adjoining equatorial Indian Ocean, now lies over Southeast Bay of Bengal & neighbourhood and extends upto 4.5 Km above mean sea level. A shear zone runs roughly along altitude 10.0°N at 3.1 km above mean sea level. The Western Disturbance as an upper air cyclonic circulation over over Jammu & Kashmir and adjoining Pakistan now lies over Jammu & Kashmir & neighbourhood between 3.6 km & 5.8 km, with a trough aloft runs roughly along Long. 74.0° E and north of Lat. 30.0° N. The induced upper air cyclonic circulation over Punjab & neighbourhood between 1.5 and 2.1 Km above mean sea level persists.

**On 24<sup>TH</sup> MAY' 2017:** The upper air cyclonic circulation over Southeast Bay of Bengal & neighbourhood persists and now extends upto 5.8 Km above mean sea level. The shear zone roughly along latitude 10.0°N, now runs roughly along latitude 08.0°N between 1.5 & 3.1 km above mean sea level. The Western Disturbance as an upper air cyclonic circulation over Jammu & Kashmir & neighbourhood now lies over eastern parts of Jammu & Kashmir between 3.6 km & 5.8 km, with a trough aloft roughly along Long. 77.0° E and north of Lat. 34.0° N. The induced upper air cyclonic circulation over Punjab & neighbourhood, now lies over Haryana & neighbourhood between 1.5 and 2.1 Km above mean sea level. A trough runs from eastern parts of Bihar to north coastal Andhra Pradesh across interior Odisha and extends upto 0.9 Km above mean sea level. An upper air cyclonic circulation lies over south Chhattisgarh & neighbourhood and extends upto 0.9 Km above mean sea level. The upper air cyclonic circulation over southwest Rajasthan & adjoining south Pakistan extending upto 2.1 Km above mean sea level has become less marked

## **ASSOCIATED WEATHER**

**Under the influence of above mentioned synoptic situations, light to moderate rainfall occurred at many places on 18<sup>th</sup> to 24<sup>th</sup>, May' 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
18-May	21	0	16	2	27	1	18	2	34	1	22	2	23	-5	13	-6	27	2	17	4
19-May	22	0	16	2	28	2	18	2	34	2	23	2	24	-4	13	-6	27	2	16	1
20-May	23	1	16	2	30	3	17	1	35	3	23	3	25	-3	14	-5	27	2	19	4
21-May	23	1	15	1	29	2	17	1	34	2	23	3	25	-2	15	-4	27	2	19	5
22-May	25	3	15	1	32	5	17	0	35	3	22	1	25	-2	15	-3	25	0	19	4
23-May	23	2	17	3	30	3	19	3	34	2	23	3	26	-2	15	-3	28	4	20	6
24-May	24	2	17	3	30	4	18	2	35	4	23	3	25	-3	16	-3	29	5	19	4

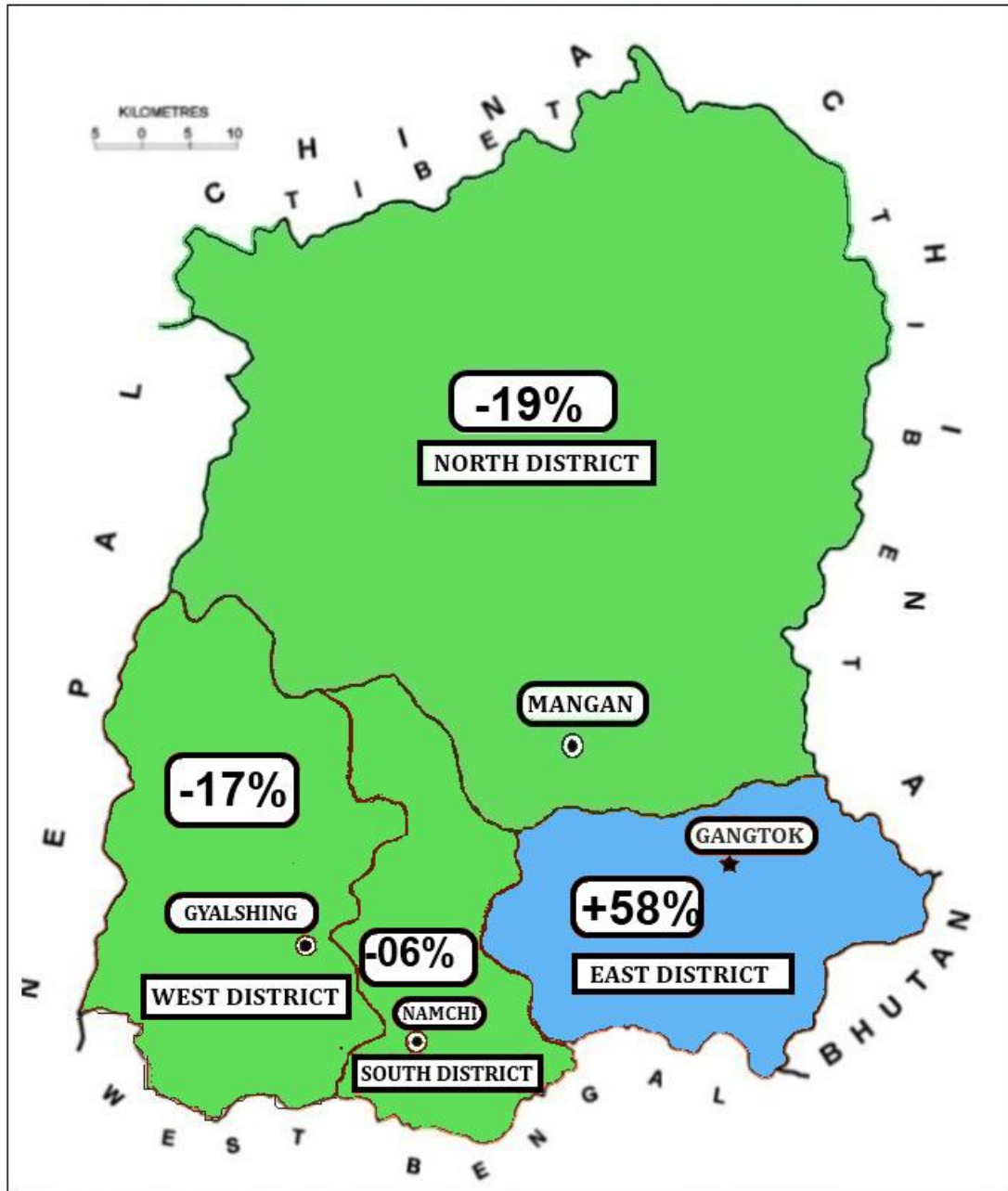
**CHIEF AMOUNT OF RAINFALL RECEIVED DURING THE WEEK (IN MM) RECORDED AT  
0830 HRS IST OF THE DAY:**

Date	GANGTOK	TADONG	MAZITAR	KHANTAR	MANGAN [NORTH]	SANKALAN [NORTH]	CHUNGTHANG [NORTH]	NAMTHANG	DAMTHANG [SOUTH]	DENTAM [WEST]
18-May	003.8	006.5	000.5	000.6	020.0	015.2	007.4	000.0	000.0	000.0
19-May	012.5	021.5	000.7	000.0	014.1	016.0	006.8	000.0	057.4	000.0
20-May	010.5	020.2	000.0	000.0	010.4	002.4	006.4	000.0	000.0	011.4
21-May	059.0	052.7	014.0	006.4	000.0	000.0	000.0	006.8	006.4	000.0
22-May	022.6	017.0	000.0	000.0	016.1	011.8	000.0	000.0	000.0	003.0
23-May	000.2	000.0	014.0	000.0	006.0	000.0	000.0	006.8	011.0	014.0
24-May	033.0	027.2	000.0	000.0	000.0	000.0	015.6	000.0	000.0	000.0

# DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

18<sup>TH</sup> MAY' 2017 TO 24<sup>TH</sup> MAY' 2017

## भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT





# DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01<sup>ST</sup> MARCH' 2017 TO 24<sup>TH</sup> MAY' 2017

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