



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 15TH JUNE' 2017 TO 21ST JUNE' 2017

SYNOPTIC SITUATION

✚ **On 15TH JUNE' 2017:** Conditions are likely to become favourable for further advance of southwest monsoon into some more parts of Gujarat region, Madhya Maharashtra, remaining parts of Marathawada, some parts of Vidarbha, some more parts of Chhattisgarh, Odisha, remaining parts of West Bengal and some parts of Jharkhand and Bihar after 3-4 days. The trough at mean sea level from Punjab to Assam, now runs from Punjab to northwest Bay of Bengal across Haryana, Uttar Pradesh, Jharkhand & north Gangetic West Bengal. However, the embedded upper air cyclonic circulation over southwest Bihar & neighbourhood extending upto 1.5 km above mean sea level has become less marked. The upper air cyclonic circulation over central parts of Assam & neighbourhood extending upto 0.9 km above mean sea level also has become less marked. The upper air cyclonic circulation over south coastal Odisha & neighbourhood now lies over northwest and adjoining west central Bay of Bengal off south Odisha and north Andhra Pradesh coast between 3.1 and 9.5 km above mean sea level. The trough from this cyclonic circulation to south Konkan now seen as an east-west shear zone roughly along latitude 17.0° N. The trough from eastern parts of Bihar to south coastal Odisha, now runs from eastern parts of Bihar to northwest Bay of Bengal between 1.5 & 2.1 km above mean sea level. An upper air cyclonic circulation lies over Southwest Bihar & neighbourhood and extends upto 0.9 km above mean sea level. The off shore trough off Karnataka-Kerala coast persists. The upper air cyclonic circulation over central Pakistan & adjoining West Rajasthan has become less marked.

✚ **On 16TH JUNE' 2017:** Favourable Conditions are developing for further advance of southwest monsoon into some more parts of Madhya Maharashtra, Vidarbha, Chhattisgarh,

remaining parts of Odisha, Jharkhand and Bihar during next 3-4 days. The low pressure area over northwest Bay of Bengal & neighbourhood, now lies over southwest Bangladesh & neighbourhood and associated upper air cyclonic circulation extends upto 4.5 km above mean sea level. The trough at mean sea level from Punjab to northwest Bay of Bengal, now runs from northwest Rajasthan to centre of low pressure area across south Uttar Pradesh & Jharkhand and extends upto 0.9 km above mean sea level with an embedded cyclonic circulation over central parts of south Uttar Pradesh extends upto 1.5 km above mean sea level. The trough from eastern parts of Bihar to northwest Bay of Bengal has merged with the low pressure area. The east west shear zone, now runs roughly along latitude 18.0°N between 3.1 & 3.6 km above mean sea level also. The off shore trough off Karnataka Kerala coast, now runs from south Maharashtra coast to Kerala coast. An upper air cyclonic circulation lies over Haryana & neighbourhood at 1.5 km above mean sea level. The upper air cyclonic circulation over Southwest Bihar & neighbourhood has become less marked.

✚ **On 17TH JUNE' 2017:** Favourable Conditions are developing for further advance of southwest monsoon into some more parts of Madhya Maharashtra, Vidarbha, Chhattisgarh, remaining parts of Odisha, Jharkhand and Bihar during next 3-4 days. The upper air cyclonic circulation over Bangladesh & neighbourhood persists and now extends upto 0.9 km above mean sea level. The trough at mean sea level from northwest Rajasthan to Assam now runs from northwest Rajasthan to Manipur across south Uttar Pradesh & Bihar and extends upto 0.9 km above mean sea level with an embedded cyclonic circulation over southwest Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level. A north-west trough runs from Sub-Himalayan West Bengal & Sikkim to north Bay of Bengal between 2.1 & 3.1 km above mean sea level. The east-west shear zone runs roughly along latitude 17.0°N between 3.1 & 3.6 km above mean sea level. The off shore trough from south Maharashtra coast to Kerala coast persists. The upper air cyclonic circulation over Haryana & neighbourhood persists and now extends upto 0.9 km above mean sea level.

✚ **On 18TH JUNE'2017:** Favourable Conditions are developing for further advance of southwest monsoon into some more parts of Chhattisgarh, remaining parts of Odisha, some more parts of Jharkhand and Bihar during next 2-3 days. The upper air cyclonic circulation over Bangladesh & neighbourhood, now lies over eastern parts of Assam & neighbourhood and extends upto 0.9 km above mean sea level. The trough at mean sea level from northwest Rajasthan to Manipur, now runs from Punjab to Manipur across Haryana, Uttar Pradesh, Bihar and northern parts of Gangetic West Bengal however the embedded cyclonic circulation over southwest Uttar Pradesh & neighbourhood extending upto 1.5 km above mean sea level has become less marked. The east-west shear zone roughly along latitude 17.0°N persists and now seen at 3.1 km above mean sea level. The off shore trough from south Maharashtra coast to Kerala coast, now runs as a feeble trough from south Maharashtra coast to north Kerala coast. The upper air cyclonic circulation over Haryana & neighbourhood persists and

now extends upto 1.5 km above mean sea level. An upper air cyclonic circulation lies over southwest Rajasthan & neighbourhood between 2.1 & 3.1km above mean sea level. An upper air cyclonic circulation lies over south Konkan & adjoining Madhya Maharashtra between 3.6 & 4.5 km above mean sea level. A western disturbance as an upper air cyclonic circulation lies over northeast Afghanistan & adjoining north Pakistan between 3.1 & 3.6 km above mean sea level. The north-south trough from Sub-Himalayan West Bengal & Sikkim to north Bay of Bengal between 2.1 & 3.1 km above mean sea level has become less marked.

✚ **On 19TH JUNE' 2017:** Favourable conditions are developing for further advance of southwest monsoon into some more parts of Chhattisgarh, Vidarbha, remaining parts of Odisha, Jharkhand, Bihar, some parts of East Madhya Pradesh and East Uttar Pradesh during next 2-3 days. The trough at mean sea level from Punjab to Manipur now runs from northwest Rajasthan to northeast Bay of Bengal across Haryana, Uttar Pradesh, Bihar, Jharkhand and Gangetic West Bengal. The upper air cyclonic circulation over southwest Rajasthan & neighbourhood persists and now seen between 1.5 & 3.1 km above mean sea level. The western disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood between 3.1 & 3.6 km above mean sea level persists. An upper air cyclonic circulation lies over Sub-Himalayan West Bengal & Sikkim and neighbourhood and extends upto 0.9 km above mean sea level. A north-south trough runs from eastern Bihar to north Bay of Bengal between 1.5 & 3.1 km above mean sea level. The upper air cyclonic circulation over eastern parts of Assam & neighbourhood extending upto 0.9 km above mean sea level has become less marked. The east-west shear zone roughly along latitude 17.0°N at 3.1 km above mean sea level has become less marked. The feeble off shore trough from south Maharashtra coast to north Kerala coast has become less marked.

✚ **On 20TH JUNE' 2017:** Favourable conditions are developing for further advance of southwest monsoon into some more parts of Chhattisgarh, Vidarbha, remaining parts of Odisha, Jharkhand, Bihar, some parts of East Madhya Pradesh and East Uttar Pradesh during next 48 hours. The trough at mean sea level from northwest Rajasthan to northeast Bay of Bengal, now runs from northwest Rajasthan to northwest Bay of Bengal across Haryana, Uttar Pradesh, Bihar, Jharkhand & Gangetic West Bengal and extends upto 0.9 km above mean sea level with an embedded upper air cyclonic circulation over central parts of Uttar Pradesh extending upto 0.9 km above mean sea level. The western disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood, now seen as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Longitude 71.0°E and north of Latitude 32.0°N. The upper air cyclonic circulation over Sub-Himalayan West Bengal & Sikkim and neighbourhood now lies over

northern parts of Bangladesh & neighbourhood at 1.5 km above mean sea level. The north-south trough from eastern Bihar to north Bay of Bengal now runs from Sub-Himalayan West Bengal to north Bay of Bengal between 2.1 & 3.1 km above mean sea level. An upper air cyclonic circulation lies over northwest Rajasthan & neighbourhood and extends upto 0.9 km above mean sea level. A feeble off-shore trough at mean sea level runs off Karnataka-Kerala Coast. The upper air cyclonic circulation over southwest Rajasthan & neighbourhood has become less marked.

On 21ST JUNE' 2017: The trough at mean sea level from northwest Rajasthan to northwest Bay of Bengal persists and now runs across north Madhya Pradesh, Uttar Pradesh, Bihar, Jharkhand & Gangetic West Bengal. The western disturbance now seen as an upper air cyclonic circulation over northern parts of Punjab & neighbourhood between 2.1 km & 7.6 km above mean sea level with a trough aloft roughly along Longitude 72.0°E and north of Latitude 25.0°N. An upper air cyclonic circulation lies over north coastal Odisha & neighbourhood between 4.5 & 5.8 km above mean sea level. The north-south trough from Sub Himalayan West Bengal to north Bay of Bengal, now runs from eastern parts of Bihar to north coastal Odisha between 2.1 & 3.1 km above mean sea level. The feeble off-shore trough at mean sea level, now runs from off south Maharashtra coast to Kerala coast. The upper air cyclonic circulation over northern parts of Bangladesh & neighbourhood has become less marked. The upper air cyclonic circulation over northwest Rajasthan & neighbourhood has become less marked.

ASSOCIATED WEATHER

Under the influence of above mentioned synoptic situations, light rainfall occurred at isolated places on 16th, light to moderate rainfall occurred at many places on 15th, 17th, 21th June'2017 and heavy rainfall occurred at many places on 18th, 19th & 20th June'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
15-Jun	23	1	17	1	30	3	19	1	35	3	23	1	27	-2	14	-5	29	3	17	-1
16-Jun	22	1	18	2	29	3	20	2	34	2	24	1	26	-2	16	-4	27	1	19	2
17-Jun	23	1	18	2	30	3	20	1	36	3	24	1	27	-1	15	-4	29	3	17	-1
18-Jun	22	0	18	2	28	2	21	2	35	2	24	2	26	-1	15	-4	29	5	17	0
19-Jun	21	-1	17	1	28	1	20	1	34	2	24	1	26	-1	16	-3	28	3	19	1
20-Jun	19	-3	17	1	26	-2	19	0	29	-3	23	0	26	-3	15	-4	29	4	19	1
21-Jun	21	-1	17	1	27	0	19	0	32	-1	22	0	26	-3	15	-5	25	0	19	2

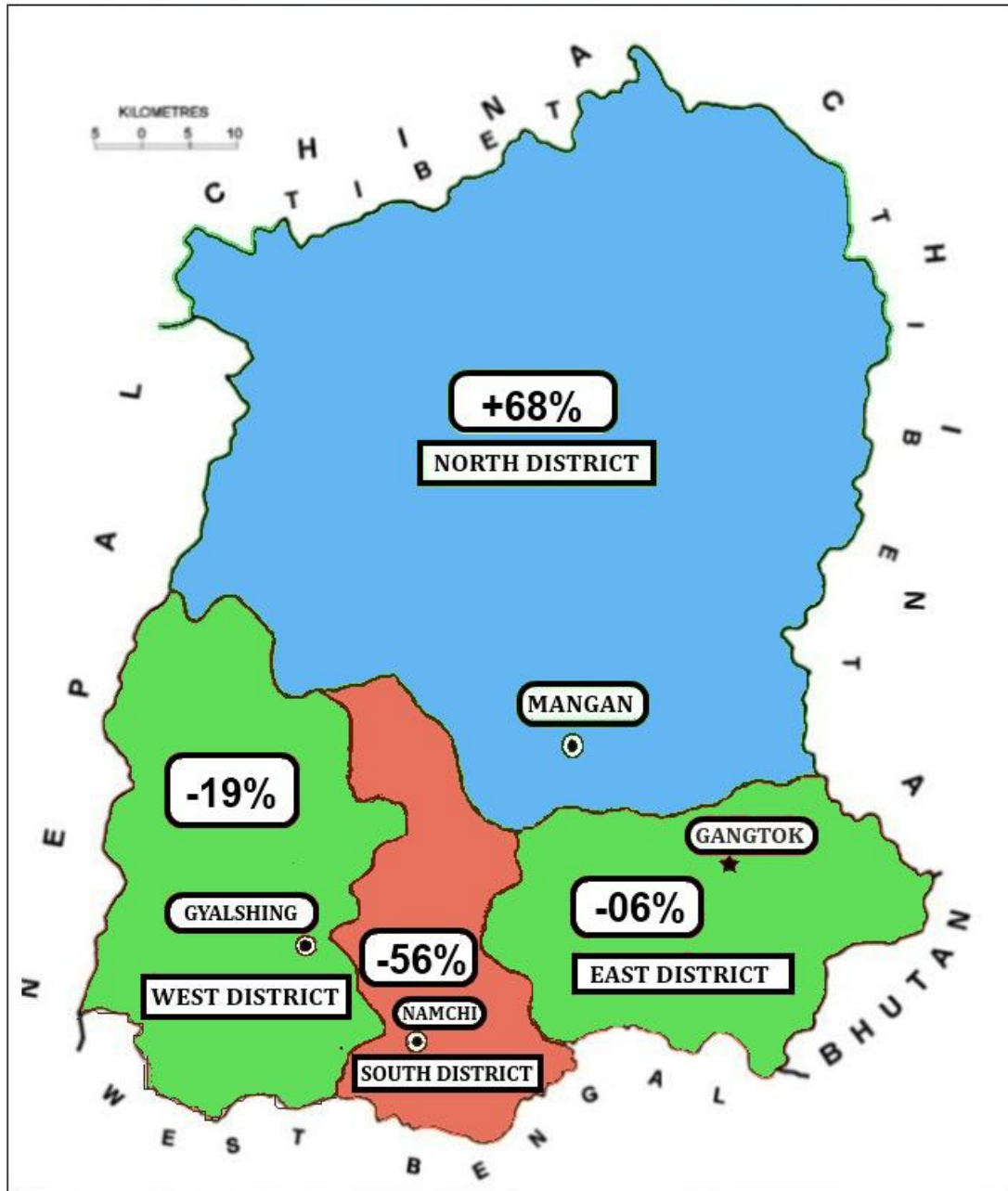
**CHIEF AMOUNT OF RAINFALL RECEIVED DURING THE WEEK (IN MM) RECORDED AT
0830 HRS IST OF THE DAY:**

Date	GANGTOK	TADONG	MAZITAR	KHANITAR	MANGAN [NORTH]	CHUNGTHANG [NORTH]	NAMTHANG	DAMTHANG [SOUTH]	DENTAM [WEST]
15-Jun	004.7	003.2	019.0	000.0	000.1	009.4	000.6	000.0	012.2
16-Jun	000.0	000.0	000.0	000.0	015.2	000.0	000.0	000.0	012.2
17-Jun	000.2	000.0	000.0	000.0	000.3	024.6	000.0	000.0	007.0
18-Jun	000.2	000.3	000.0	000.0	160.0	030.6	000.0	000.0	004.0
19-Jun	087.0	098.0	027.6	000.0	049.4	012.2	000.0	001.2	015.2
20-Jun	051.0	082.0	027.0	025.0	029.2	030.2	028.4	037.4	015.0
21-Jun	017.6	018.2	021.0	031.0	030.3	029.0	016.2	036.8	035.5

DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

15TH JUNE' 2017 TO 21ST JUNE' 2017

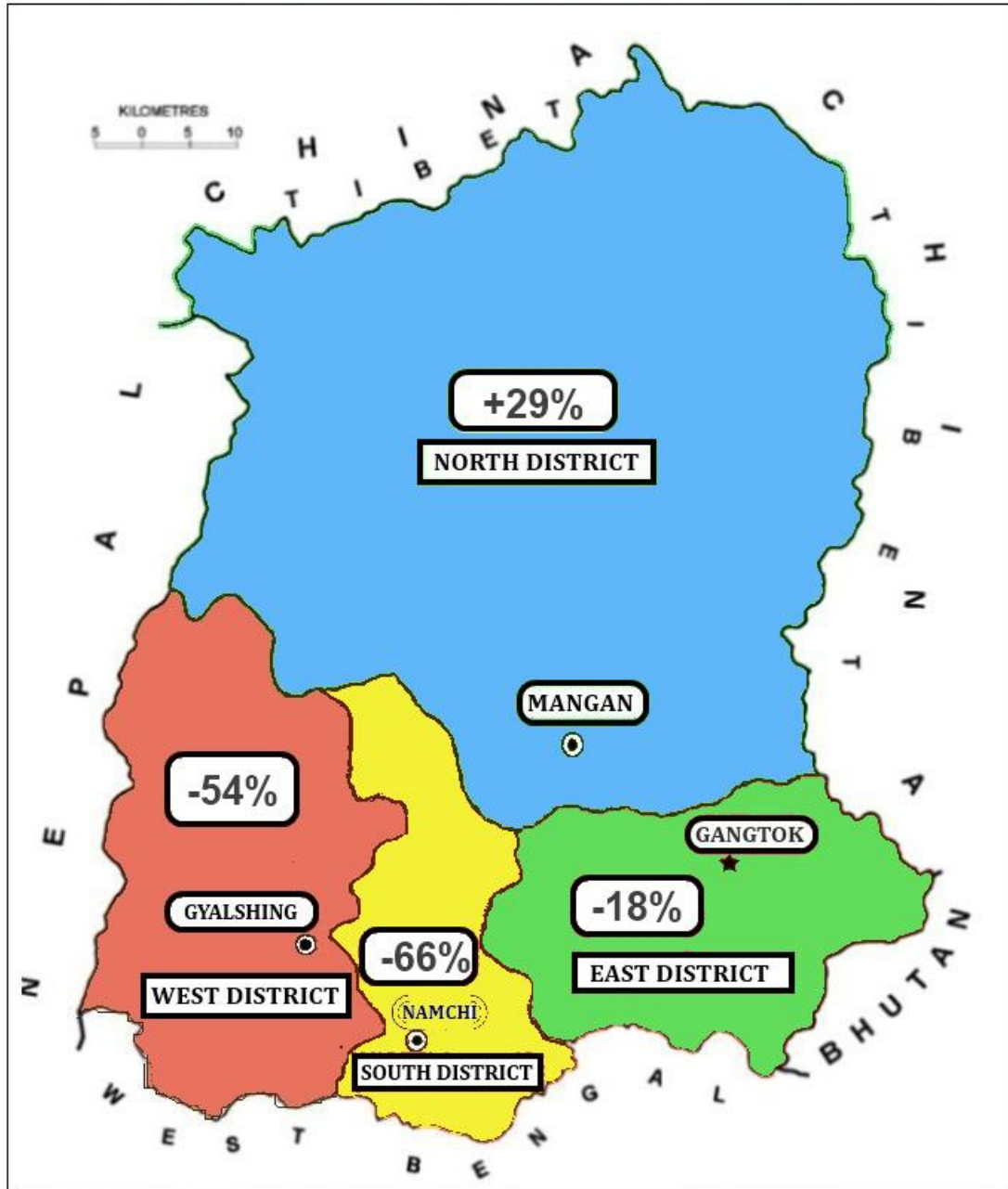
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DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01ST JUNE' 2017 TO 21ST JUNE' 2017

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LEGEND :

	EXCESS ($\geq 20\%$)		NORMAL (+19% TO -19%)
	DEFICIENT (-20% TO -59%)		SCANTY (-60% TO -99%)
	NO RAIN (-100%)		NO DATA