



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 14TH SEPTEMBER' 2017 TO 20TH SEPTEMBER' 2017

SYNOPTIC SITUATION

On 14TH SEPTEMBER' 2017: The axis of monsoon trough at mean sea level passes through Jammu, Dehradun, Hardoi, Varanasi, Ranchi, Digha and thence southeastwards to north Bay of Bengal. The upper air cyclonic circulation over Lakshadweep & neighbourhood now lies over east central Arabian sea & adjoining coastal Karnataka and extends upto 5.8 km above mean sea level tilts southward with height, However The trough from this system to south Gujarat region has become less marked. The Western Disturbance as an upper air cyclonic circulation over north Pakistan & adjoining Jammu & Kashmir between 3.1 km & 3.6 km above mean sea level persists. The another Western Disturbance as a trough in mid-tropospheric westerlies now runs roughly along Longitude 66.0°E and north of Latitude 25.0°N at 5.8 km above mean sea level. The cyclonic circulation over northeast Bangladesh & neighbourhood now lies over north Bangladesh & neighbourhood between 2.1 km and 3.1 km above mean sea level. The upper air cyclonic circulation over south Rajasthan & adjoining Gujarat now lies over southeast Rajasthan & adjoining West Madhya Pradesh & Gujarat at 3.1 km above mean sea level. The upper air cyclonic circulation over northwest Bay of Bengal and adjoining Gangetic West Bengal & Odisha persists and now extends upto 1.5 km above mean sea level. The East west sheer Zone runs roughly along latitude 22.0°N from East Assam to south Rajasthan at 3.1 km km above mean sea level.

On 15TH SEPTEMBER' 2017: The axis of monsoon trough at mean sea level now passes through Jammu, Dehradun, Behraich, Gaya, Purulia, Digha and thence southeastwards to northwest Bay of Bengal. The Western Disturbance as a trough in mid-tropospheric westerlies now lies as an upper air cyclonic circulation over northeast Afghanistan & neighbourhood between 3.1 to 5.8 km above mean sea level with a trough aloft with its axis at 7.6 km above mean sea level roughly along Longitude 65.0°E and north of Latitude 26.0°N. The upper air cyclonic circulation over southeast Rajasthan & adjoining West Madhya Pradesh & Gujarat now lies over southwest Madhya Pradesh &

neighbourhood at 3.1 km above mean sea level. The upper air cyclonic circulation over northwest Bay of Bengal and adjoining Gangetic West Bengal & Odisha persists and now extends upto 5.8 km above mean sea level tilting south westwards with height. The east-west sheer zone roughly along latitude 22.0°N from East Assam to south Rajasthan is now seen at 1.5 km above mean sea level.

On 16TH SEPTEMBER' 2017: The axis of monsoon trough at mean sea level now passes through Amritsar, Ambala, Bareilly, Sidhi, Ambikapur, Paradip and thence southeastwards to eastcentral Bay of Bengal. The Western Disturbance as an upper air cyclonic circulation over northeast Afghanistan & neighbourhood now lies over north Pakistan & neighbourhood between 3.1 to 5.8 km above mean sea level with a trough aloft with its axis at 7.6 km above mean sea level runs roughly along Longitude 65.0°E and north of Latitude 25.0°N. The upper air cyclonic circulation over northwest Bay of Bengal and adjoining Gangetic West Bengal & Odisha now lies over west central Bay of Bengal and northwest & adjoining coastal areas of south Odisha & north Andhra Pradesh and extends upto 5.8 km above mean sea level tilts south westwards with height. An upper air cyclonic circulation lies over Nagaland, Manipur, Mizoram & Tripura and extends upto 0.9 km above mean sea level. An upper air cyclonic circulation lies over Gujarat region & neighbourhood and extends upto 1.5 km above mean sea level.

On 17TH SEPTEMBER' 2017: The axis of monsoon trough at mean sea level now passes through Amritsar, Patiala, Nazibabad, Varanasi, Gaya, Bankura, Digha and thence southeastwards to eastcentral Bay of Bengal. The Western Disturbance as an upper air cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir persists and now seen between 4.5 km & 5.8 km above mean sea level with a trough aloft with its axis at 7.6 km above mean sea level roughly along Longitude 72.0°E and north of Latitude 26.0°N. The upper air cyclonic circulation over westcentral and northwest Bay of Bengal & adjoining coastal areas of south Odisha & north Andhra Pradesh now lies over north Bay of Bengal and adjoining westcentral Bay of Bengal and extends upto 3.1 km above mean sea level tilting southwestwards with height. An east west shear zone runs roughly along latitude 14.0°N between 5.8 & 7.6 km above mean sea level. An upper air cyclonic circulation lies over central Uttar Pradesh & neighbourhood at 3.1 km above mean sea level. The upper air cyclonic circulation over Gujarat region & neighbourhood now lies over Saurashtra & neighbourhood at 5.8 km above mean sea level.

On 18TH SEPTEMBER' 2017: The axis of monsoon trough at mean sea level passes through Pathankot, Chandigarh, Hardoi, Churk, Jamshedpur, Balasore and thence east south eastwards to eastcentral Bay of Bengal. A cyclonic circulation extending upto 0.9 km above mean sea level lies over Gangetic west Bengal & adjoining Jharkhand. The cyclonic circulation over north Bay of Bengal and adjoining westcentral Bay of Bengal now lies over northwest Bay of Bengal and adjoining coastal areas of Odisha & Gangetic West Bengal and extends between 1.5 and 3.1 km.

above mean sea level. The cyclonic circulation over central Uttar Pradesh & neighbourhood now lies over northeast Madhya Pradesh & neighbourhood and extends upto 2.1 km above mean sea level. The Western Disturbance as an upper air cyclonic circulation over north Pakistan and adjoining Jammu & Kashmir now seen as a trough in mid-tropospheric levels with its axis at 5.8 km above mean sea level roughly along Longitude 72.0°E and north of Latitude 26.0°N.

ON 19TH SEPTEMBER' 2017: Under the influence of the cyclonic circulation over northwest Bay of Bengal and adjoining coastal areas of Odisha & Gangetic West Bengal a low pressure area has formed over northwest Bay of Bengal & neighbourhood. Associated cyclonic circulation extends upto 5.8 km above mean sea level tilting southwestwards with height. The axis of monsoon trough at mean sea level now passes through Amritsar, Karnal, Mainpuri, Siddhi, Ambikapur, Chaibasa, centre of the above low pressure area and thence east south eastwards to eastcentral Bay of Bengal. A cyclonic circulation lies over Bangladesh & neighbourhood between 5.8 & 7.6 km above mean sea level. The Western Disturbance as a trough in mid-tropospheric levels with its axis at 5.8 km above mean sea level roughly along Longitude 72.0°E and north of Latitude 26.0°N has moved away east-northeastwards. A fresh western disturbance as an upper air cyclonic circulation lies over north Pakistan & neighbourhood between 3.1 & 3.6 km above mean sea level. Another Western Disturbance as an upper air cyclonic circulation lies over west Afghanistan & neighbourhood between 3.1 & 5.8 km above mean sea level with a trough aloft with its axis at 7.6 km above mean sea level running roughly along Longitude 62°E to the north of Latitude 30°N.

On 20TH SEPTEMBER' 2017: The low pressure area over north Odisha & adjoining Jharkhand & Chhattisgarh now lies over north Chhattisgarh & neighbourhood and associated cyclonic circulation extends upto 7.6 km above mean sea level. The axis of monsoon trough at mean sea level now passes through Bikaner, Shivpuri, centre of the above low pressure area, Phulbani, Gopalpur and thence east-south eastwards to eastcentral Bay of Bengal. It extends upto 0.9 km above mean sea level. The cyclonic circulation over Bangladesh & neighbourhood now lies over Sub Himalayan West Bengal & neighbourhood at 3.1 km above mean sea level. The Western Disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood now lies over central Pakistan & adjoining Punjab at 3.1 km above mean sea level. The other Western Disturbance as an upper air cyclonic circulation over central Parts of Afghanistan & neighbourhood now lies over eastern parts of Afghanistan & neighbourhood between 3.1 & 5.8 km above mean sea level with the trough aloft with its axis at 7.6 km above mean sea level running roughly along Longitude 64.0°E to the north of Latitude 30.0°N.

ASSOCIATED WEATHER

Under the influence of above mentioned synoptic situations, light rainfall occurred at isolated places on 15th, 17th, 18th,19th September'2017, light to moderate rainfall occurred at isolated places on 14th & 20th September'2017.Weather remained mainly dry on 16th September'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
14-Sep	21	0	17	2	28	2	20	1	35	2	24	2	28	1	17	-1	28	2	21	3
15-Sep	24	3	18	3	32	6	20	2	35	2	24	2	27	1	17	-2	25	-1	21	3
16-Sep	26	5	18	3	33	6	19	1	36	3	24	2	28	1	18	0	30	4	20	3
17-Sep	26	5	18	3	33	7	20	2	35	2	24	2	28	2	19	0	29	3	21	5
18-Sep	21	0	17	2	27	1	19	1	32	0	23	1	27	0	19	0	27	1	19	2
19-Sep	22	1	18	3	30	4	20	2	32	-2	23	1	28	1	18	-1	26	0	21	3
20-Sep	19	-2	19	3	25	-1	20	3	31	-3	23	1	26	-1	18	-1	23	-2	17	0

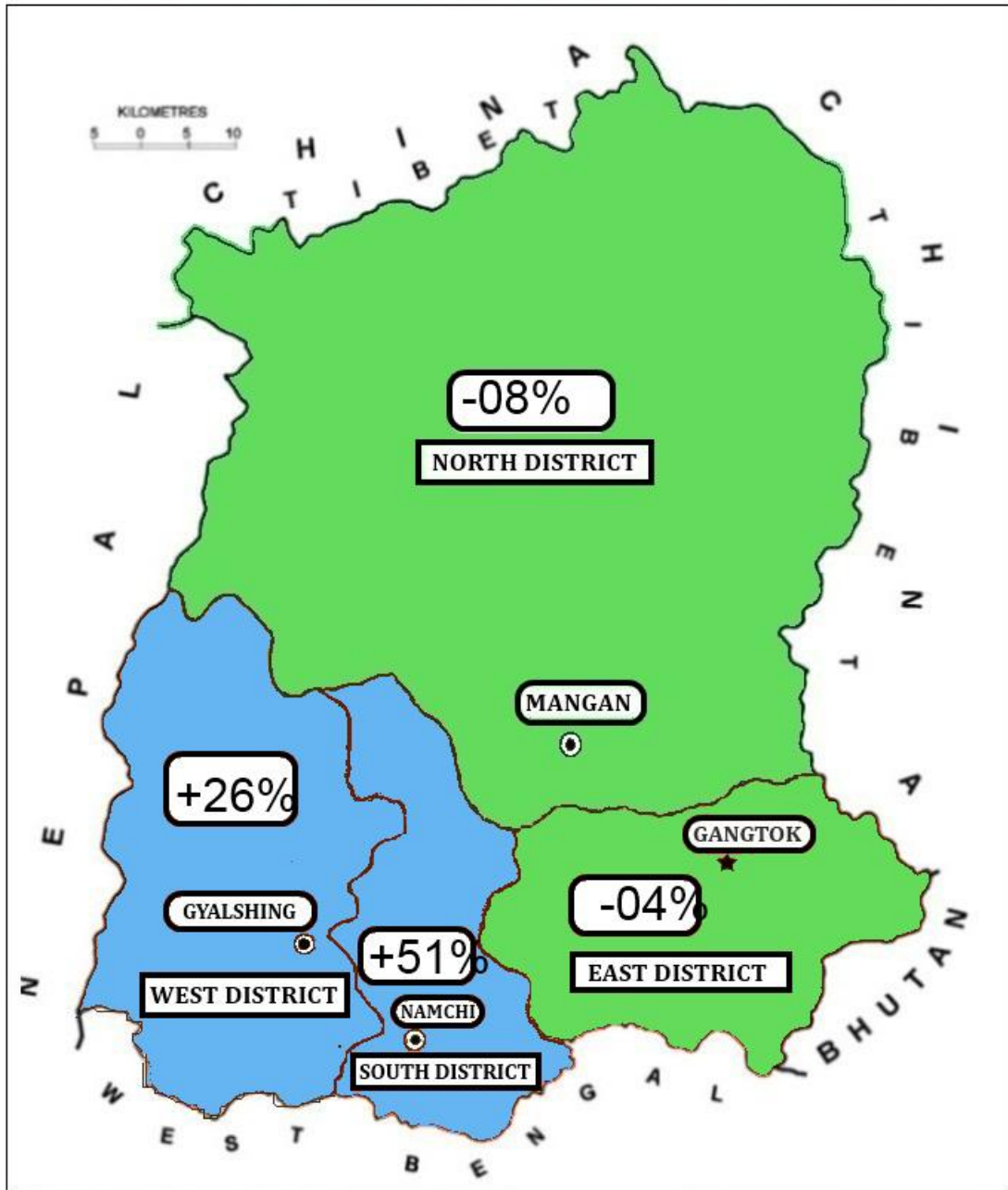
**CHIEF AMOUNT OF RAINFALL RECEIVED DURING THE WEEK (IN MM) RECORDED AT
0830 HRS IST OF THE DAY:**

Date	GANGTOK	TADONG	MAZITAR	KHANITAR	MANGAN [NORTH]	CHUNGTHANG [NORTH]	NAMTHANG	DAMTHANG [SOUTH]	DENTAM [WEST]
14-Sep	017.4	014.0	002.0	005.6	040.2	024.2	003.8	025.8	009.2
15-Sep	004.7	000.4	000.0	000.0	022.2	000.0	000.0	028.6	000.0
16-Sep	000.2	000.0	000.0	000.0	000.0	000.0	000.0	000.0	000.0
17-Sep	003.5	003.7	000.0	000.0	000.0	028.0	000.0	000.0	000.0
18-Sep	038.0	017.5	001.0	002.2	024.1	009.2	003.2	007.4	028.0
19-Sep	001.2	000.3	000.0	000.0	000.0	000.0	000.0	008.0	003.0
20-Sep	011.0	016.5	098.0	033.6	004.3	000.0	090.8	045.6	064.0

DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

14TH SEPTEMBER' 2017 TO 20TH SEPTEMBER'2017

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DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01ST JUNE' 2017 TO 20TH SEPTEMBER' 2017

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