



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 08TH MARCH' 2018 TO 14TH MARCH' 2018

SYNOPTIC SITUATION

✚ On 08TH MARCH' 2018: The Western Disturbance as a trough in mid tropospheric westerlies with its axis at 5.8 Km above mean sea level roughly along Long. 65°E to the north of Lat. 25°N was seen as an upper air cyclonic circulation at 3.1 km above mean sea level over eastern parts of Afghanistan and adjoining Pakistan. A fresh Western Disturbance as a trough in mid tropospheric westerlies with its axis at 5.8 Km above mean sea level ran roughly along Long. 58°E to the north of Lat. 28°N. The cyclonic circulation over west Assam and neighbourhood was located over eastern parts of Bangladesh and neighbourhood at 1.5 km above mean sea level.

✚ On 09TH MARCH' 2018: The Western Disturbance as an upper air cyclonic circulation at 3.1 km above mean sea level over north Pakistan & neighbourhood persisted with a trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 Km above mean sea level running roughly along Long. 72°E to the north of Lat. 30°N. A cyclonic circulation extending upto 0.9 km above mean sea level was located over south Pakistan & adjoining west Rajasthan. The cyclonic circulation over eastern parts of Bangladesh and neighbourhood persisted and was located between 1.5 km & 2.1km above mean sea level.

✚ On 10TH MARCH' 2018: The Western Disturbance as an upper air cyclonic circulation at 3.1 km above mean sea level over north Pakistan & neighbourhood and the trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 Km above mean sea level roughly along Long. 72°E to the north of Lat. 30°N moved away northeast wards. A fresh western Disturbance as an upper air

cyclonic circulation at 3.1 km above mean sea level was located over eastern parts of Afghanistan and neighbourhood. The cyclonic circulation over south Pakistan & adjoining west Rajasthan persisted and extended upto 1.5 km above mean sea level. A northsouth trough in the westerlies ran roughly along Long. 88°E to the north of Lat. 25°N between 2.1 and 3.1 km above mean sea level.

✚ **On 11TH MARCH' 2018:** The fresh western Disturbance as an upper air cyclonic circulation at 3.1 km above mean sea level over eastern parts of Afghanistan and neighbourhood was located over East Afghanistan & adjoining Pakistan. The cyclonic circulation over south Pakistan & adjoining west Rajasthan was located over southwest Rajasthan & neighbourhood at 1.5 km above mean sea level. The northsouth trough in the westerlies along Long. 88°E to the north of Lat. 25°N ran roughly along Long. 90°E to the north of Lat. 24°N at 3.1 km above mean sea level.

✚ **On 12TH MARCH' 2018:** The Western Disturbance as an upper air cyclonic circulation over north Pakistan & neighbourhood was located over northern parts of Jammu & Kashmir and neighbourhood at 3.1 km above mean sea level. A fresh Western Disturbance as a trough in mid tropospheric westerlies with its axis at 5.8 km above mean sea level ran roughly along Long. 45°E to the north of Lat. 25°N. The north-south trough in the westerlies roughly along Long. 94°E to the north of Lat. 24°N at 3.1 km above mean sea moved away eastwards.

✚ **On 13TH MARCH' 2018:** A fresh feeble Western Disturbance as an upper air cyclonic circulation was located over north Pakistan and adjoining Jammu & Kashmir at 3.1 km above mean sea level. The other Western Disturbance as a trough was seen as a cyclonic circulation over Iran & neighbourhood at 3.1 km above mean sea with a trough aloft in mid tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 55°E to the north of Lat. 25°N. A trough ran from east Bihar to Manipur across Bangladesh with an embedded cyclonic circulation over SubHimalayan West Bengal and adjoining Bihar & Jharkhand at 0.9 km above mean sea level.

✚ **On 14TH MARCH' 2018:** The Western Disturbance as a cyclonic circulation over eastern parts of Iran & neighbourhood was located over Afghanistan & adjoining north Pakistan at 3.1 km above mean sea with a trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 66°E to the north of Lat. 25°N. An induced upper air cyclonic circulation was located over Punjab & neighbourhood and extended upto 1.5 km above mean sea level. The cyclonic circulation over north Madhya Maharashtra & adjoining Madhya Pradesh persisted and now extended upto 1.5 km above mean sea level. The trough from east Bihar to Manipur across north Bangladesh with an embedded cyclonic circulation over SubHimalayan West Bengal and adjoining Bihar & Jharkhand at 0.9 km above mean sea level persisted.

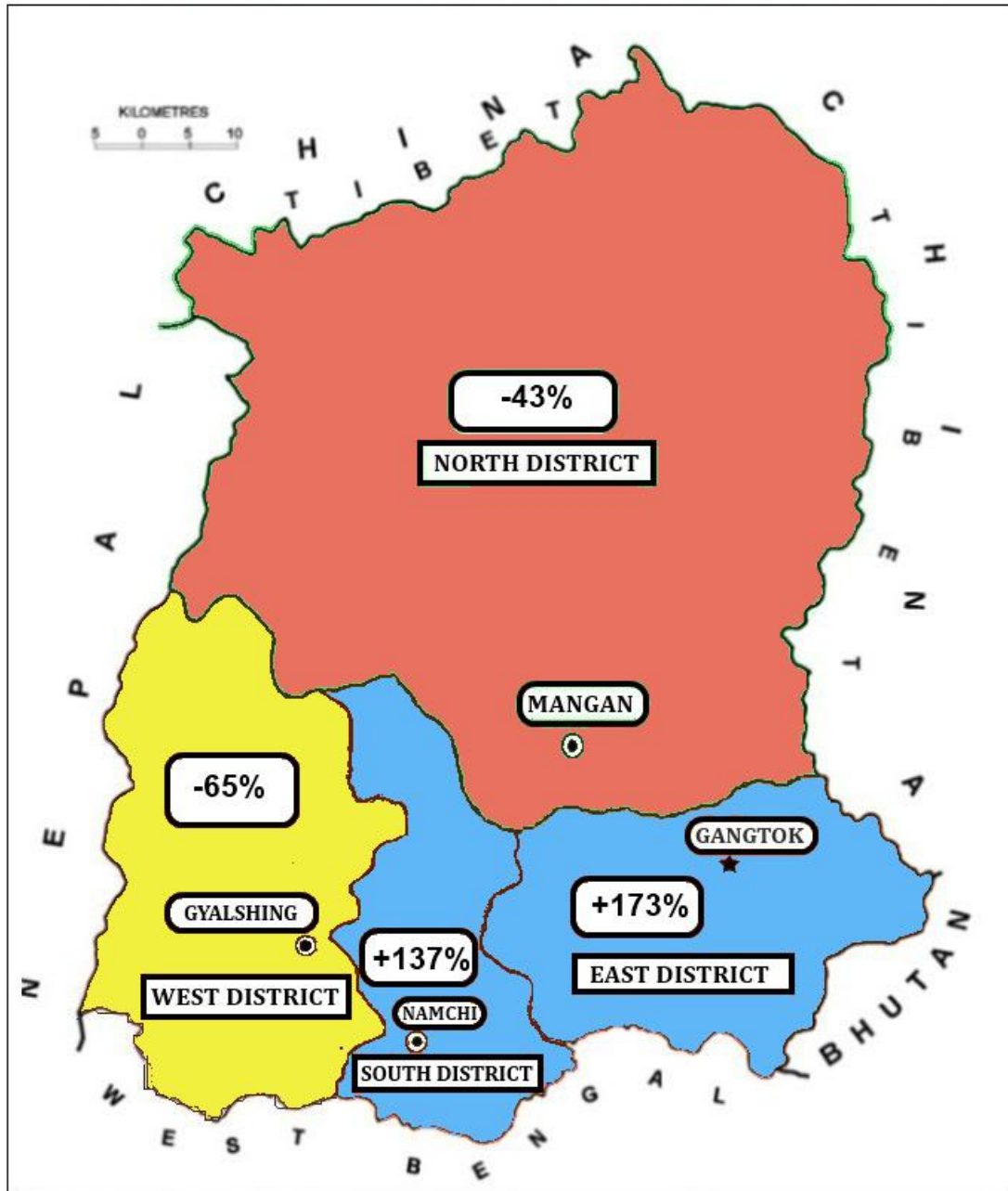
ASSOCIATED WEATHER

Under the influence of above mentioned synoptic situations, light to moderate rainfall occurred at most places on 10th, 12th, and 13th March'2018; light rainfall occurred at few places on 09th and at many places on 11th March'2018; weather remained mainly dry on rest day of the week.

DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

08TH MARCH TO 14TH MARCH' 2018

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DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01ST MARCH TO 14TH MARCH' 2018

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