



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 4TH OCTOBER 2018 TO 10TH OCTOBER 2018

SYNOPTIC SITUATION

✚ **On 04TH OCTOBER 2018:** A low pressure area was likely to form over southwest Bay of Bengal and neighborhood around 8th October. The trough from SubHimalayan West Bengal to northeast Bay of Bengal was lying as a cyclonic circulation extending upto 2.1km above mean sea level over northern parts of Bangladesh and adjoining West Bengal. Another Western Disturbance was likely to affect western Himalayan region and adjoining northwest plains of India from 8thOctober.

✚ **On 05TH OCTOBER 2018:** A low pressure area was likely to form over south Bay of Bengal and neighborhood around 8th October. It was likely to become more marked and move to towards Odisha and adjoining north Andhra Pradesh Coasts during the subsequent 72 hours. The cyclonic circulation over northern parts of Bangladesh and adjoining West Bengal was lying over Bangladesh and adjoining areas of Assam & Meghalaya and extended between 1.5 km & 3.1 km above mean sea level. Another Western Disturbance was likely to affect western Himalayan region and adjoining plains of northwest India from 8th October.

✚ **On 06TH OCTOBER 2018:** A low pressure area was likely to form over central and adjoining south Bay of Bengal around 8th October. It was likely to become more marked and move to towards Odisha and adjoining north Andhra Pradesh Coasts during the subsequent 72 hours. The cyclonic circulation over Bangladesh and adjoining areas of Assam & Meghalaya persisted and extended upto 1.5 km above mean sea level. The Western Disturbance as an upper air cyclonic circulation over north Pakistan & adjoining Jammu & Kashmir was lying over northern parts of Jammu & Kashmir and neighbourhood at 5.8 km above mean sea level.

✚ **On 07TH OCTOBER 2018:** The Depression over southeast and adjoining eastcentral Arabian sea moved west-northwestwards with a speed of about 12 kmph in last 06 hours and lay centred at 0830 hrs IST of date, the 7th October 2018, near Lat. 12.0°N and Long. 65.6°E, about 1360 km east-southeast of Salalah (Oman), 1270 km eastsoutheast of Socotra Island (Yemen) and 920 km westnorthwest of Minicoy (Lakshadweep Islands). It was very likely to intensify further into a Deep Depression during 12 hours and into a Cyclonic Storm during subsequent 24 hours. It was very likely to move westnorthwestwards towards south Oman and adjoining Yemen Coasts during next 5 days. Under the influence of the cyclonic circulation over north Andaman Sea and adjoining southeast Bay of Bengal, a low pressure area had formed over southeast Bay of Bengal and adjoining north Andaman Sea. Associated cyclonic circulation extended upto 5.8 km above mean sea level. It was very likely to become Well marked during next 12 hours and concentrate into a Deep Depression during subsequent 24 hours. It was very likely to move northwestwards towards Odisha coast during next 72 hours. A trough in westerlies between 2.1 & 3.6 km above mean sea level was running roughly along Long. 90°E to the north of Lat. 20°N.

✚ **On 08TH OCTOBER 2018:** The Cyclonic Storm, LUBAN over westcentral and adjoining southwest Arabian Sea moved westnorthwestwards with a speed of about 18 kmph in last 6 hours and lay centred at 0830 hours IST of date, the 8th October

2018, over west central and adjoining southwest Arabian Sea, near Lat. 12.4°N and Long. 62.0°E, about 990 km eastsoutheast of Salalah (Oman), 880 km east of Socotra Island (Yemen) and 1300 km westnorthwest of Minicoy (Lakshadweep Islands). It was very likely to intensify further into a Severe Cyclonic Storm during next 24 hours. It was very likely to move westnorthwestwards towards south Oman & Yemen Coasts during next 5 days. The Well Marked Low Pressure Area over southeast Bay of Bengal and adjoining east central Bay of Bengal had concentrated into a Depression and lay centred at 0830 hours IST of date, the 8th October 2018, over eastcentral Bay of Bengal near Lat. 14.0°N and Long. 88.8°E, about 720 km southsoutheast of Gopalpur (Odisha), 690 km southeast of Kalingapatnam (Andhra Pradesh). It was very likely to intensify further into a Deep Depression during next 24 hours and into a cyclonic storm during subsequent 24 hours. It was very likely to move northwestwards towards Odisha and adjoining north Andhra Pradesh coasts during next 72 hours.

✚ On 09TH OCTOBER 2018: The Deep Depression over westcentral Bay of Bengal remained practically stationary and laid centred at 0830 hours IST of date, the 9th October 2018, over west central Bay of Bengal near Lat. 14.7°N and Long. 87.1°E, about 560 km southeast of Gopalpur (Odisha), 510 km southeast of Kalingapatnam (Andhra Pradesh). It was very likely to intensify into a Cyclonic Storm during next 24 hours. It was very likely to move westnorthwestwards for more time and than northwestwards and cross Odisha and adjoining north Andhra Pradesh coasts between Gopalpur & Kalingapatnam around morning of 11th October. It was very likely to recurve northeastwards, move towards Gangetic West Bengal across coastal Odisha and weaken gradually. The trough in westerlies roughly along Long. 87°E to the north of Lat. 22°N was running roughly along Long. 89°E to the north of Lat. 22°N between 3.1 km & 3.6 km above mean sea level.

✚ On 10TH OCTOBER 2018: The Severe Cyclonic Storm 'TITLI' over westcentral Bay of Bengal moved northwards with a speed of about 14 kmph during past 06

hours and laid centred at 0830 hrs IST of date, the 10th October 2018 over Westcentral Bay of Bengal near Lat.16.5°N and Long. 85.8°E, about 320 km southsoutheast of Gopalpur (Odisha) and 270 km southeast of Kalingapatnam (Andhra Pradesh). It was very likely to intensify further into a Very Severe Cyclonic Storm during next 3 hours. It was very likely to move northnorthwestwards and cross Odisha & adjoining north Andhra Pradesh coasts between Gopalpur & Kalingapatnam around morning of 11th October. Thereafter, it was very likely to recurve northeastwards, move towards Gangetic West Bengal across Odisha and weaken gradually. The Very Severe Cyclonic Storm (LUBAN) over westcentral Arabian Sea remained practically stationary and laid centred at 0830 hrs IST 10th October 2018 over westcentral Arabian Sea, near latitude 14.1°N and longitude 59.0°E, about 610 km eastsoutheast of Salalah (Oman), 570 km eastnortheast of Socotra Islands (Yemen) and 770 km eastsoutheast of AlGhaidah (Yemen). It was very likely to move westnorthwestwards towards Yemen & South Oman Coasts during next 4 days.

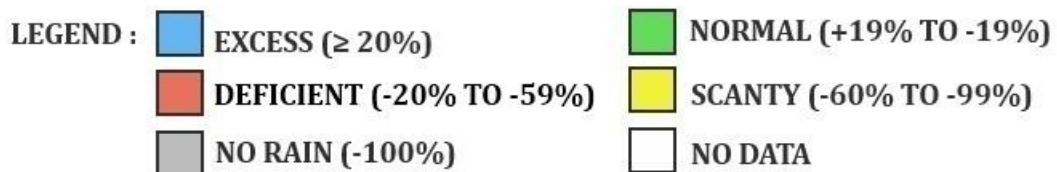
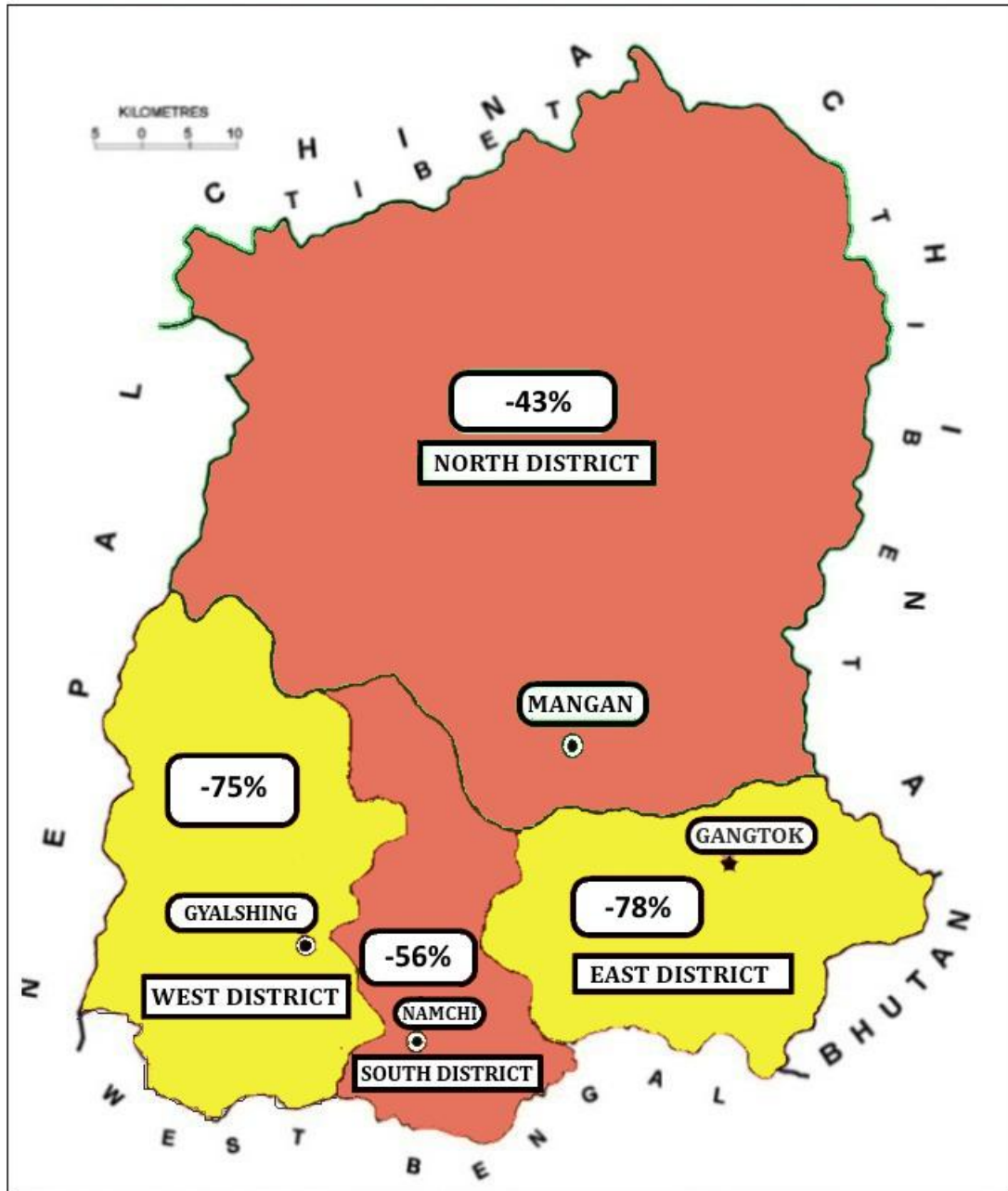
ASSOCIATED WEATHER

Under the influence of the above mentioned synoptic situations, light to moderate rainfall occurred at many places on 04th, 05th & 08th October 2018 and light rainfall occurred at isolated places on rest of the week during 04th October to 10th October 2018.

DISTRIBUTION OF RAINFALL OVER SIKKIM DURING LAST WEEK

04TH OCTOBER TO 10TH OCTOBER 2018

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DISTRIBUTION OF RAINFALL OVER SIKKIM DURING THE PERIOD

01ST OCTOBER TO 10TH OCTOBER 2018

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