

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 13 July 2018

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- low pressure area has formed over northwest Bay of Bengal & neighbourhood.
- Another low pressure area is likely to form over north Bay of Bengal & neighbourhood around 19th July.
- The monsoon trough is very likely to remain in its near normal position and continue to be active in the coming 5-6 days.
- Ongoing active monsoon conditions are very likely to continue over central India and south Peninsula during next 4-5 days. Subdued rainfall activity is likely to continue over East and Northeast India during next 2-3 days.
- Sea conditions are very likely to remain very rough over major parts of the Arabian Sea and Bay of Bengal during next 4 days.
- Heavy to very heavy rain with extremely heavy falls observed at isolated places over Gujarat region; Heavy to very heavy rain at isolated places over Uttarakhand, East Rajasthan, Konkan & Goa, Saurashtra & Kutch, Madhya Maharashtra, South Interior Karnataka and Chhattisgarh and heavy rain at isolated places over Himachal Pradesh, Punjab, West Rajasthan, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Sub Himalayan West Bengal & Sikkim, Assam & Meghalaya, Kerala and interior Tamilnadu from 0830 hours IST of yesterday to 0830 hours IST of today.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Rain/thundershowers observed at most places over Uttarakhand, East Uttar Pradesh, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Coastal Andhra Pradesh, Konkan & Goa, Marathwada, Coastal & North Interior Karnataka, Telangana, Kerala and Lakshadweep; at many places over Jammu & Kashmir, Gujarat, Madhya Maharashtra, Arunachal Pradesh and Andaman & Nicobar Islands; at a few places over Himachal Pradesh, Jharkhand, Rayalaseema and South Interior Karnataka; at isolated places over Punjab,

Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Rajasthan, Bihar and Tamilnadu & Puducherry.

- Maximum temperature departures as on 12.07.2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan; at a few places over Bihar and Sikkim; above normal (1.6°C to 3.0°C) at many places over West Bengal; at a few places over Himachal Pradesh and Haryana; at isolated places over Assam & Meghalaya, Tripura and Tamilnadu. They were markedly below normal (5.1 or less) at a few places over Vidarbha; at isolated places over West Madhya Pradesh, Telangana and Coastal Andhra Pradesh; appreciably below normal (3.1°C to 5.0°C) at many places over Marathwada and Telangana; at a few places over Gujarat state, West Madhya Pradesh, Madhya Maharashtra and North Interior Karnataka; at isolated places over East Uttar Pradesh, Vidarbha, Coastal Andhra Pradesh and Tamilnadu and below normal (1.6°C to 3.0°C) at a few places over North Interior Karnataka, Rayalaseema; at isolated places over Himachal Pradesh, East Rajasthan, Madhya Pradesh, Gujarat state, Madhya Maharashtra, South Interior Karnataka, Coastal Andhra Pradesh and Tamilnadu; at a few places over Gujarat, Kerala & North Interior Karnataka and near normal over rest of the country.
- Today, the highest maximum temperature of 43.2°C recorded at Phalodi (West Rajasthan) over plains of the country.
- Minimum temperature departures as on 13.07.2018: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Jammu & Kashmir; above normal (1.6°C to 3.0°C) at most places over Bihar and Sub Himalayan West Bengal & Sikkim; at many places over Uttarakhand and Haryana, Chandigarh & Delhi; at a few places over Jammu & Kashmir, Himachal Pradesh and Jharkhand; at isolated places over Gangetic West Bengal, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu & Puducherry. They are appreciably above normal (3.1°C to 5.0°C) at isolated places over East Rajasthan and West Madhya Pradesh; below normal (1.6°C to 3.0°C).

Weather Warning during next 5 days (IMD)

- 13 July (Day1): Heavy to very heavy rain with extremely heavy falls at isolated places very likely over Gujarat region; Heavy rain at a few places with very heavy rain at isolated places very likely over Konkan & Goa; heavy to very heavy rain at isolated places over Uttarakhand, East Rajasthan, East Madhya Pradesh, Chhattisgarh, Saurashtra, Madhya Maharashtra, Telangana, Coastal Karnataka, South Interior Karnataka and Kerala and heavy rain at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, West Madhya Pradesh, Vidarbha, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh, North Interior Karnataka and Tamilnadu.
- 14 July (Day 2): Heavy to very heavy rain with extremely heavy falls at isolated places very likely over Gujarat region; Heavy rain at a few places with very heavy rain at isolated places very likely over Konkan & Goa; heavy to very heavy rain at isolated places over East Madhya Pradesh, Chhattisgarh, Odisha, Saurashtra, Madhya Maharashtra, Telangana, Coastal Karnataka, South Interior Karnataka and Kerala and heavy rain at isolated places

over Uttarakhand, West Madhya Pradesh, Vidarbha, Coastal Andhra Pradesh, North Interior Karnataka and Tamilnadu.

- 15 July (Day 3): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places very likely over Konkan & Goa; Heavy to very heavy rain with extremely heavy falls at isolated places very likely over Gujarat region; heavy to very heavy rain at isolated places over East Madhya Pradesh, Chhattisgarh, Saurashtra & Kutch, Madhya Maharashtra, Coastal Karnataka, South Interior Karnataka and Kerala and heavy rain at isolated places over Uttarakhand, West Madhya Pradesh, Vidarbha, Odisha and Telangana.
- 16 July (Day 4): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places likely over Konkan & Goa and Gujarat region; heavy rain at a few places with very heavy at isolated places over Saurashtra & Kutch and Madhya Maharashtra; heavy to very heavy rain at isolated places over East Madhya Pradesh, Vidarbha, Coastal & South Interior Karnataka and heavy rain at isolated places over East Rajasthan, West Madhya Pradesh, Chhattisgarh, Marathwada and Kerala.
- 17 July (Day 5): Heavy to very heavy rain at a few places with extremely heavy falls at isolated places likely over Konkan & Goa; Heavy to very heavy rain with extremely heavy falls at isolated places very likely over Gujarat region; heavy rain at a few places with very heavy at isolated places over Saurashtra & Kutch and Madhya Maharashtra; heavy to very heavy rain at isolated places over East Rajasthan, East Madhya Pradesh, Vidarbha, Coastal & South Interior Karnataka and heavy rain at isolated places over West Madhya Pradesh, Chhattisgarh, Marathwada and Kerala.
- The weather outlook for the period of seven days *i.e* 13 to 20 July 2018 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Rajasthan, Bihar, Uttar Pradesh, West Bengal & Sikkim, Madhya Pradesh, Jharkhand, Chhattisgarh, Odisha, Gujarat, Vidarbha, Coastal Andhra Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Rayalaseema, Karnataka, Telangana, Kerala, Tamilnadu & Puducherry, Lakshadweep, Andaman Islands and North eastern States. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

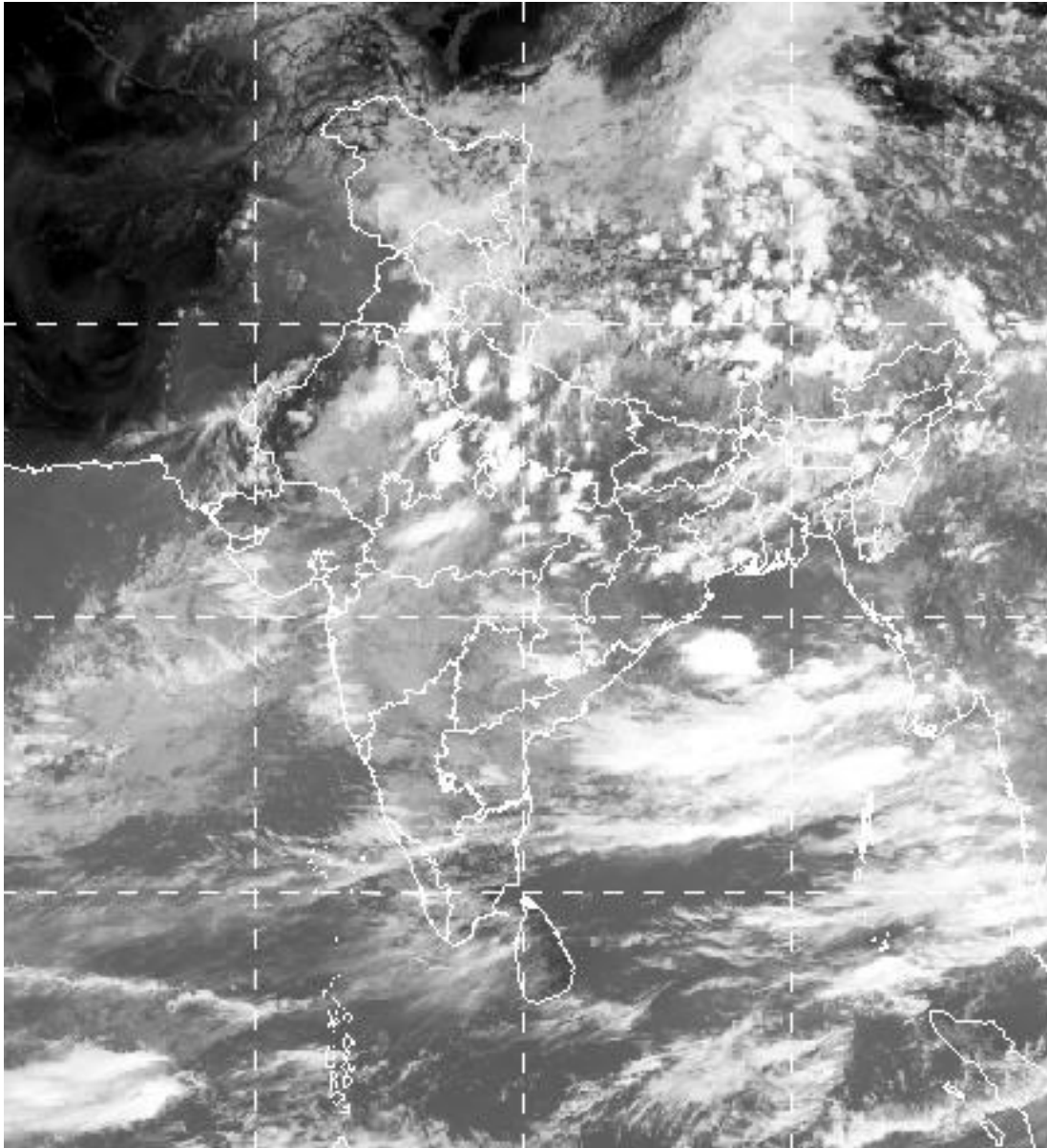
Andhra Pradesh

Weather condition

Light rainfall received in Andhra Pradesh state during this past few days. In Coastal AP the maximum temperature ranged from 32°C to 37°C and minimum temperature ranged 26 °C to 27 °C. In Rayalaseema, the maximum temperature ranged from 34 °C to 37 °C and minimum temperature ranged from 23 °C to 26 °C.

Contingency measure:

- Groundnut: In kharif season, during rainy days, farmers are advised to go for high yielding varieties of Groundnut like K 6, K 9, Dharani, Kadiri, Chitravani and Amaravathi. Seed treatment: Seed treatment with Imidachloprid 2ml+ Dithane M-45 @ 3 g/kg seed. As per the rainfall analysis of Ananthapuramu district, the early sown crop during the month of June or late sown crop during the month of August will be subjected to moisture stress at critical stages like pegging, pod development and seed filling leading to drastic reduction in pod yields. Hence, it is advised to sow rainfed groundnut during the month of July(1-31)which will help in obtaining higher yields.
- Redgram: Farmers are advised to choose high yielding varieties of redgram like LRG 41, PRG 176 and LRG 52, procure the seed and fertilizers and keep inputs ready for sowing. SPACING: For Light Red soils 90 X 20 cm and for Black soils 180 X 20 cm. Farm Yard Manure can be applied @ 2 tonnes/acre. At the time sowing 8kgs of Nitrogen (17.3 kgs Urea) and 20 kgs of Phosphorus (125kgs of SSP) are advised to apply.
- Castor: In Castor, Farmers are advised to choose high yielding varieties like Kranthi, Haritha, Jwala, PCH 111 and DCH 157. Seed Rate: For High yielding varieties 2-2.5 kgs/acre and for normal varieties-2 kgs/acre is recommended. → Seed treatment with the Thiaram or Captan @ 3g/ kg seed.
- Korra: Recommended varieties: Prasad, SIA-3085, krishnadevaraya, Surya nandi, Narasimharaya, srilakshmi and SIA 3156. Spacing : 22.5 X 7.5 cm. Fertilizer: At the time sowing 8kgs of Nitrogen and 8 kgs of Phosphorus and after 2 -3 weeks of sowing 8kgs of Nitrogen should be applied as a top dressing.
- Bajra: Recommended varieties: P.H.B-3, I.C.M.H-356, Dhanashakthi. Spacing : 45 X 12-15 cm. Fertilizer: At the time of sowing 30-30-20 of Nitrogen, phosphorous and potash respectively as a basal and 30 DAS 12 kgs/acre of Nitrogen should be applied.
- Cotton: Cotton growing farmers are advised to choose high yielding varieties/ Bt hybrids of cotton and take up sowing only after receiving cumulative rainfall of more than 50mm. Prefer early maturing varieties/Bt hybrids, so that the cotton bolls mature before the heavy population buildup of pink bollworm.



**Figure: 1. Latest available satellite picture as on 13 July 2018 at 0230 Hrs (IST).
(Source: IMD).**

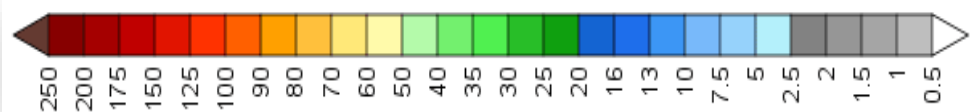
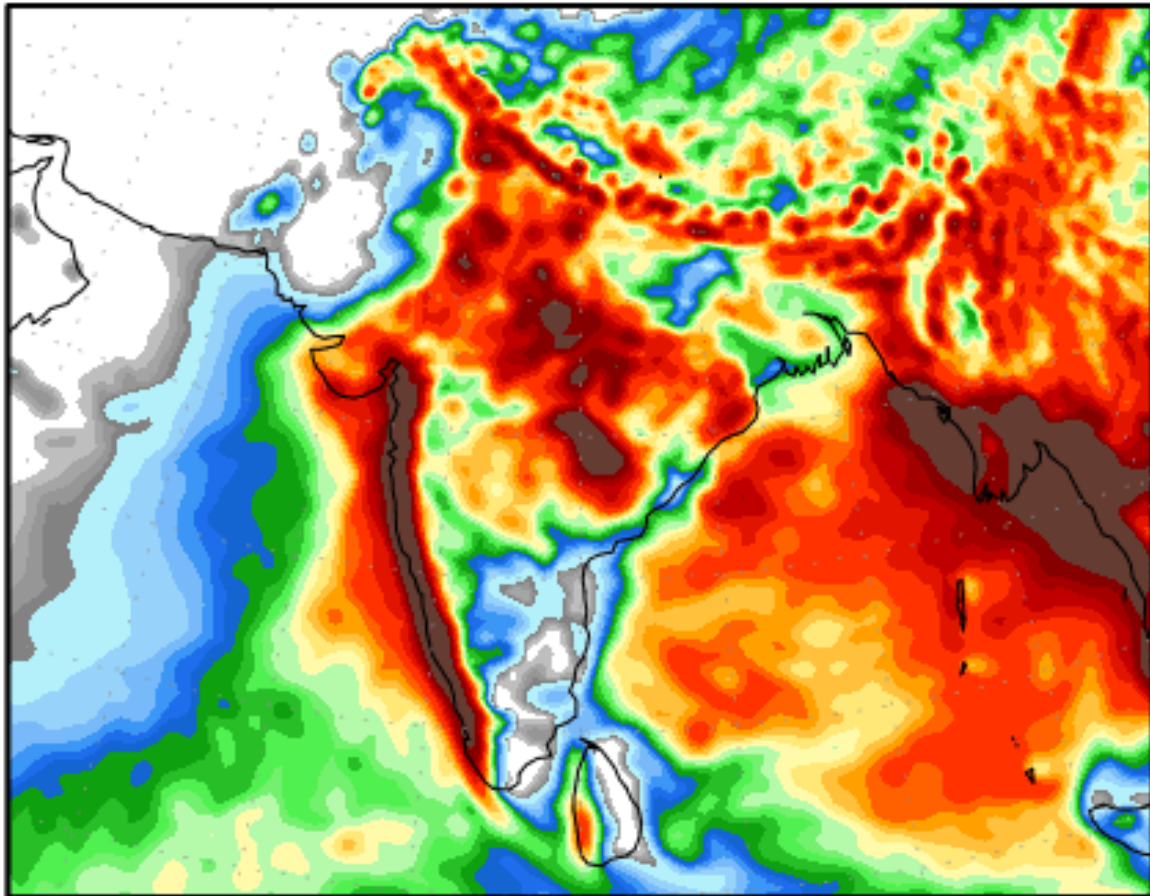


Figure: 2. Precipitation forecast for 13 to 20 July 2018 (Source: NOAA NCEP).