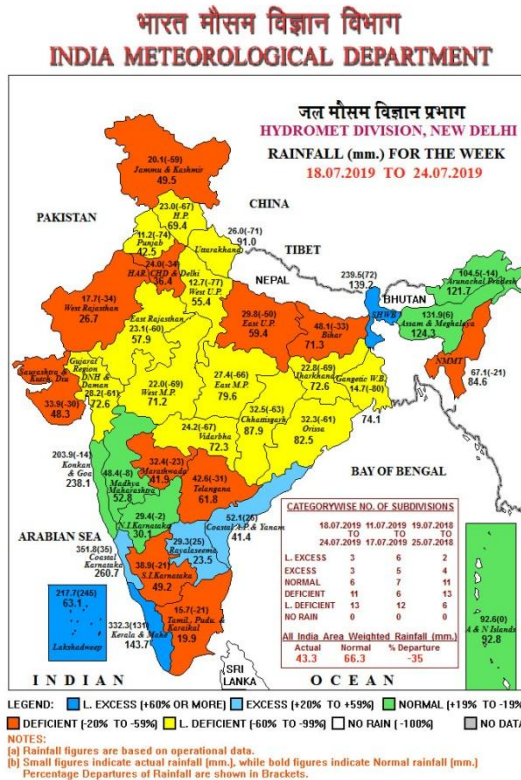
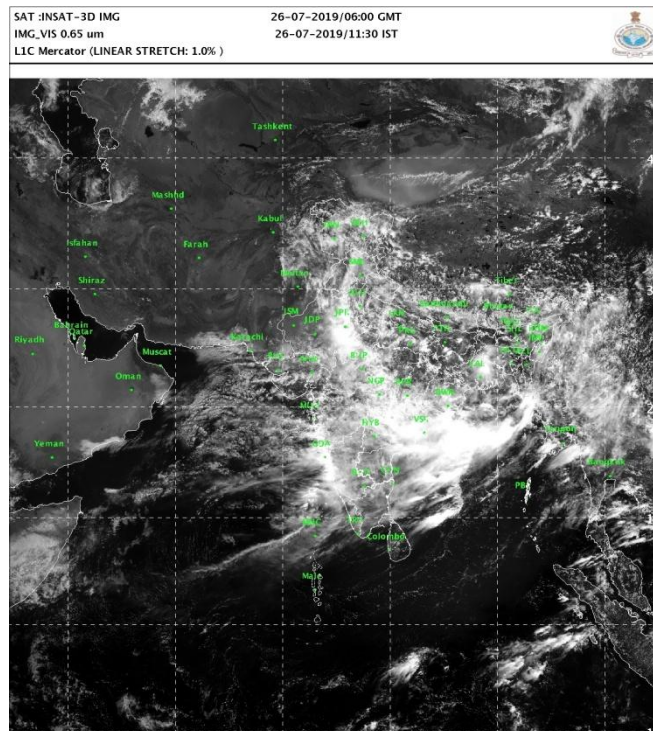


Rainfall map for the week ending 24.07.2019

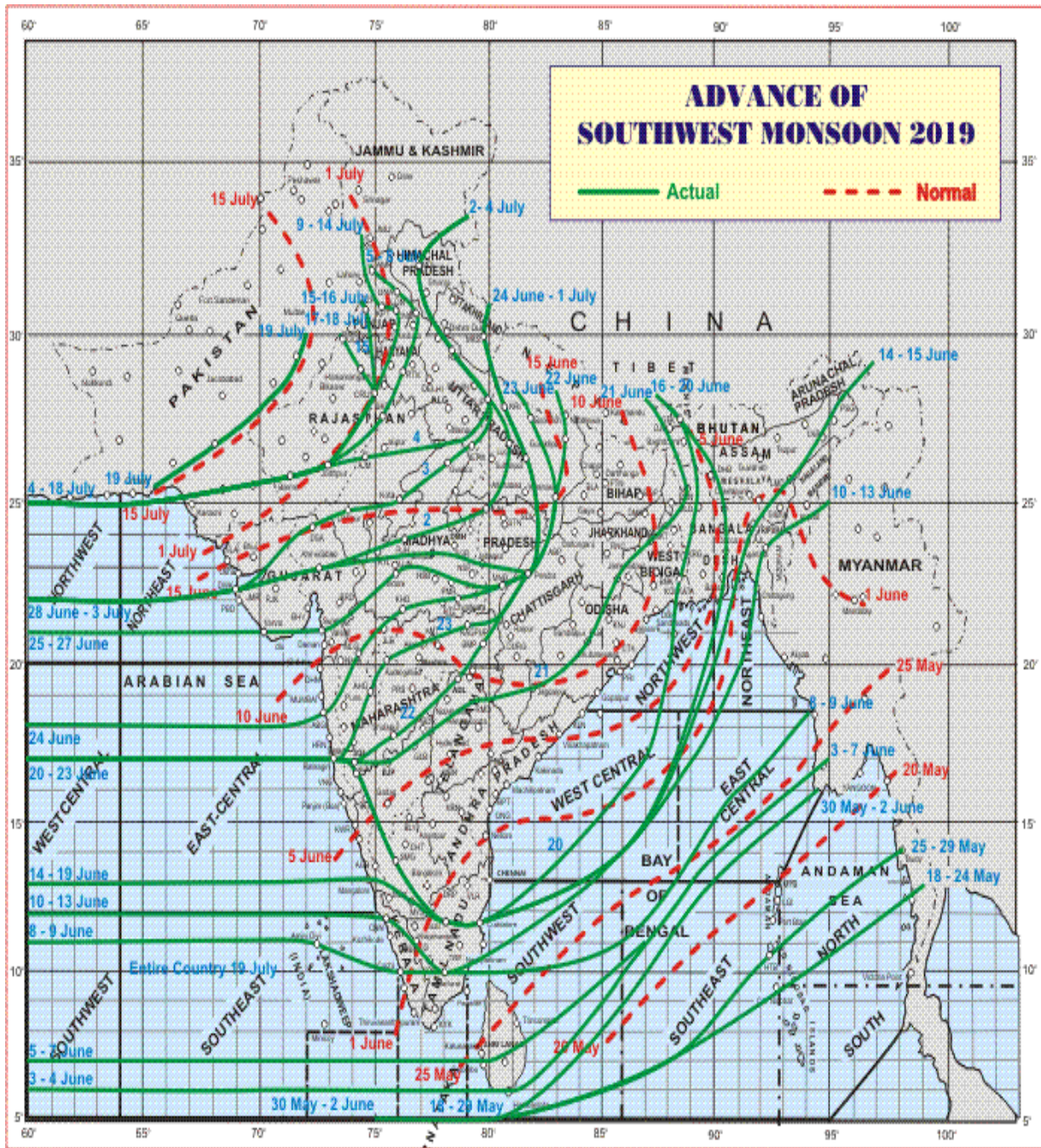


- **Large Excess Rain:** Sub-Himalayan West Bengal and Sikkim, Kerala, Lakshdweep
- **Excess Rain:** Coastal Karnataka, Coastal Andhra Pradesh, Rayalaseema
- **Normal Rain:** Konkan & Goa, Madhya Maharashtra, North Interior Karntaka, Assam & Meghalaya, Arunachal Pradesh, Andaman & Nicobar Islands
- **Deficient Rain/ Large Deficient Rain:** Rest of the country

Satellite image 0600 UTC dated 26.07.2019



## Advance of SouthWest Monsoon 2019



◆ Northern Limit of Monsoon (NLM) continues to pass through Lat. 25°N/Long. 60°E, Lat. 25°N/Long. 65°E, Barmer, Jodhpur, Churu, Ludhiana, Kapurthala and Lat. 33°N/Long. 74.5°E.\

## Weather Forecast for next 5 days valid upto 0830 hours of 31<sup>st</sup> July 2019

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures likely over major parts of the country during next 4- 5 days.

### 5 Day Rainfall Forecast (MID-DAY) 26<sup>th</sup> July 2019

Met-Sub-Division	26-Jul Today	27Jul Sat	28Jul Sun	29Jul Mon	30Jul Tue
1. Andaman & Nicobar Islands	FWS	FWS	WS	WS	WS
2. Arunachal Pradesh	FWS	FWS	FWS	WS	WS
3. Assam & Meghalaya	FWS	WS	WS	WS	WS
4. N. M. M. & T.	FWS	FWS	WS	WS	WS
5. S.H. West Bengal & Sikkim	FWS	FWS	FWS	FWS	FWS
6. Gangetic West Bengal	WS	WS	FWS	FWS	FWS
7. Odisha	WS	WS	WS	FWS	WS
8. Jharkhand	WS	WS	FWS	SCT	FWS
9. Bihar	SCT	SCT	SCT	SCT	SCT
10. East Uttar Pradesh	WS	FWS	SCT	SCT	FWS
11. West Uttar Pradesh	WS	FWS	SCT	SCT	FWS
12. Uttarakhand	WS	WS	FWS	FWS	WS
13. Haryana, Chd & Delhi	WS	FWS	SCT	SCT	FWS
14. Punjab	WS	FWS	SCT	SCT	FWS
15. Himachal Pradesh	WS	FWS	SCT	SCT	FWS
16. Jammu & Kashmir	WS	FWS	SCT	SCT	FWS
17. West Rajsthan	FWS	FWS	FWS	SCT	SCT
18. East Rajasthan	WS	WS	WS	FWS	FWS
19. West Madhya Pradesh	WS	WS	WS	WS	FWS
20. East Madhya Pradesh	WS	WS	WS	WS	WS
21. Gujarat Region	FWS	WS	WS	WS	FWS
22. Saurashtra & Kutch	FWS	FWS	FWS	WS	WS
23. Konkan & Goa	WS	WS	WS	WS	WS
24. Madhya Maharashtra	FWS	FWS	FWS	FWS	FWS
25. Marathawada	FWS	FWS	SCT	SCT	SCT
26. Vidharbha	WS	WS	WS	FWS	FWS
27. Chhattisgarh	WS	WS	FWS	WS	WS
28. Coastal A. P. & Yanam	WS	FWS	SCT	ISOL	SCT
29. Telangana	WS	FWS	FWS	SCT	SCT
30. Rayalaseema	SCT	ISOL	ISOL	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	SCT	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	WS	WS	WS	WS	WS
33. North Interior Karnataka	FWS	FWS	SCT	SCT	SCT
34. South Interior Karnataka	WS	FWS	SCT	SCT	SCT
35. Kerala & Mahe	WS	FWS	SCT	SCT	FWS
36. Lakshadweep	FWS	SCT	SCT	SCT	SCT

#### % Station Reporting Rainfall

% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		



## Weather Warning during next 5 days

**26 July (Day 1):** ♦ **Heavy to very heavy rainfall** at a few places with **extremely heavy falls** very likely at isolated places over East Rajasthan; **Heavy rainfall** at a few places with very **heavy falls** at isolated places over Konkan & Goa; **Heavy to very heavy rainfall** at isolated places over West Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat region, Odisha and Coastal Karnataka and **heavy rainfall** at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh, Interior Karnataka, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Jammu & Kashmir and Jharkhand.

♦ **Strong winds**, speed reaching 40-50 kmph, are likely to prevail over westcentral & adjoining southwest Arabian Sea and North Arabian Sea and North & westcentral Bay of Bengal and Gujarat coast. **Rough to very Rough sea conditions** are very likely to prevail along & off West Bengal-Odisha-Andhra Pradesh Coasts. Fishermen are advised not to venture into these areas.

**27 July (Day 2):** ♦ **Heavy to very heavy rainfall** very likely at isolated places over Rajasthan, Odisha, Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat region and Konkan & Goa and **heavy rainfall** at isolated places over Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Telangana, Madhya Maharashtra, Jharkhand, Gangetic West Bengal and Assam & Meghalaya.

♦ **Thunderstorm accompanied with lightning** very likely at isolated places over Jharkhand.

♦ **Strong winds**, speed reaching 40-50 kmph, are likely to prevail over westcentral & adjoining southwest Arabian Sea and North Arabian Sea and North & westcentral Bay of Bengal and Gujarat coast. **Rough to very Rough sea conditions** are very likely to prevail along & off West Bengal-Odisha-Andhra Pradesh Coasts. Fishermen are advised not to venture into these areas.

**28 July (Day 3):** ♦ **Heavy to very heavy rainfall** with **extremely heavy falls** very likely at isolated places over Gujarat region; **Heavy to very heavy rainfall** at isolated places over south Rajasthan, Chhattisgarh, Konkan & Goa, south West Madhya Pradesh, Vidarbha, Saurashtra & Kutch and Madhya Maharashtra and **heavy rainfall** at isolated places over Coastal Karnataka, East Madhya Pradesh and Odisha.

♦ **Strong winds**, speed reaching 40-50 kmph, are likely to prevail over westcentral & adjoining southwest Arabian Sea and North Arabian Sea and North & westcentral Bay of Bengal and Gujarat coast. **Rough to very Rough sea conditions** are very likely to prevail along & off West Bengal-Odisha-Andhra Pradesh Coasts. Fishermen are advised not to venture into these areas.

**29 July (Day 4):** ♦ **Heavy to very heavy rainfall** at a few places with **extremely heavy falls** likely at isolated places over Gujarat state; **Heavy to very heavy rainfall** at isolated places over Konkan & Goa and **heavy rainfall** at isolated places over Coastal Karnataka, Madhya Maharashtra, south West Madhya Pradesh, south West Rajasthan and Nagaland, Manipur, Mizoram & Tripura.

♦ **Strong winds**, speed reaching 40-50 kmph, are likely to prevail over westcentral & adjoining southwest Arabian Sea and North Arabian Sea and North & westcentral Bay of Bengal and Gujarat coast. Fishermen are advised not to venture into these areas.

**30 July (Day 5):** ♦ **Heavy to very heavy rainfall** with **extremely heavy falls** likely at isolated places over Saurashtra & Kutch and **heavy rainfall** at isolated places over Coastal Karnataka, Coastal Andhra Pradesh & Yanam, Konkan & Goa, Assam & Meghalaya, Jharkhand, Odisha, Gujarat region, Chhattisgarh, Uttarakhand and Nagaland, Manipur, Mizoram & Tripura.

♦ **Strong winds**, speed reaching 40-50 kmph, are likely to prevail over westcentral & adjoining southwest Arabian Sea and North Arabian Sea and North & westcentral Bay of Bengal and Gujarat coast. Fishermen are advised not to venture into these areas.

## Weather Outlook for subsequent 2 days from 31<sup>st</sup> July to 2<sup>nd</sup> August 2019

- ◆ Fairly widespread to widespread rainfall with isolated heavy falls likely over central India, northeast India and Northern parts of west coast.
- ◆ Scattered to fairly widespread rainfall likely over the rest of the country except over southeast peninsular India, where rainfall is likely to be isolated.

### Executive Summary

- As rain/thundershowers likely at most/many places over **Konkan & Goa, Gujarat, Rajasthan, Madhya Pradesh Chhattisgarh** and **Odisha** during the period along with **Heavy to very heavy rainfall** with **extremely heavy falls** very likely at isolated places over Gujarat region from 26<sup>th</sup> to 29<sup>th</sup> and over Saurashtra, Kutch on 29<sup>th</sup> & 30<sup>th</sup> July, **Heavy to very heavy rainfall at a few places with extremely heavy falls** very likely at isolated places over East Rajasthan on 26<sup>th</sup>, **Heavy to very heavy rainfall** very likely at isolated places over Konkan & Goa from 27<sup>th</sup> to 29<sup>th</sup>, over Rajasthan on 27<sup>th</sup>, over south Rajasthan on 28<sup>th</sup> July, over Madhya Pradesh and Odisha on 26<sup>th</sup> & 27<sup>th</sup>, over south west Madhya Pradesh on 28<sup>th</sup>, over Chhattisgarh from 26<sup>th</sup> to 28<sup>th</sup> July, avoid intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields like vegetables, pulses and maize. Provide mechanical support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to heavy rain.
- In Assam, in Lower Bramhaputra Valley Zone, due to heavy rainfall during the past few days, flood situation is observed in many parts of the districts in the Zone. Drain out the stagnant water from the fields. Transplanting of seedlings may be done after lowering of water level in the main fields. In flood affected areas, if there is complete loss of nursery or early crop stand in main fields, initiative should be taken for raising community nursery for late planting with old seedlings of the varieties like Prafulla and Gitesh. In flood affected areas of Central Bramhaputra Valley and North Bank Plain Zone of Assam, if there is the total damage of seedlings or crops in the main field, farmers are advised to sow medium to short duration rice varieties in nursery bed within 1<sup>st</sup> week of August. Sow wet seeding of sprouted seeds (@75-80 kg/ha) of short to medium duration varieties. Undertake direct seeding with the photo insensitive short duration variety. In partially affected fields, drain out excess water and apply 1/3rd N2 + 50% K2O as top dressing during the tillering stage after current spells of rain.
- In **Kerala**, drain out excess water from the standing crop fields. Maintain 3-5 cm water level in rice fields. Provide support to standing banana crops as there is chance of high wind speed. In pepper gardens, the vines are to be drenched over a radius 45-50 cm with copper oxychloride 2g / litre @ 5-10 litres/ vine. A foliar spray with 1 per cent Bordeaux mixture may also be applied.
- Utilizing the reliased and expected rainfall, undertake sowing/transplanting of following *Kharif* crops:
  - In South Interior Karnataka, undertake nursery sowing of rice in Southern Transition Zone.
  - In Southern Telangana zone, continue sowing of Castor, Red gram at closer spacing and short duration hybrids of maize.
  - Undertake transplanting of rice in Odisha, Bihar and Chhattisgarh.
  - In Nagaland and Manipur, continue transplanting of rice.

- In East Uttar Pradesh, continue transplanting of rice. Continue sowing of groundnut, arhar, soybean, sunflower, lobia, jowar, bajra and maize.
  - **Thunderstorm accompanied with lightning** at isolated places very likely over **Jharkhand** on 26<sup>th</sup> & 27<sup>th</sup> July, provide mechanical support to banana, young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds.
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- Weather forecast issued by NWFC, New Delhi and Agromet Advisories prepared based on the DAAS Bulletins issued by different Agrometeorological Field Units are included in this bulletin.