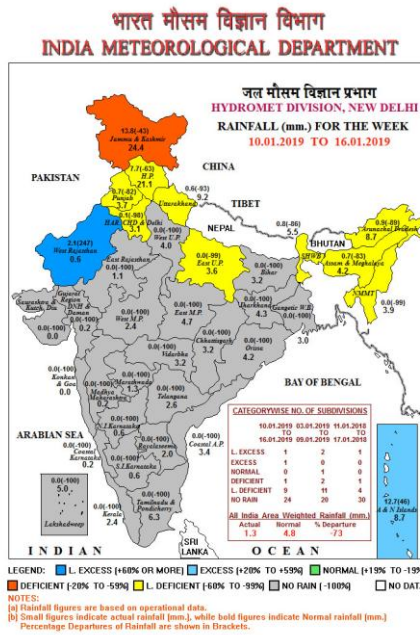
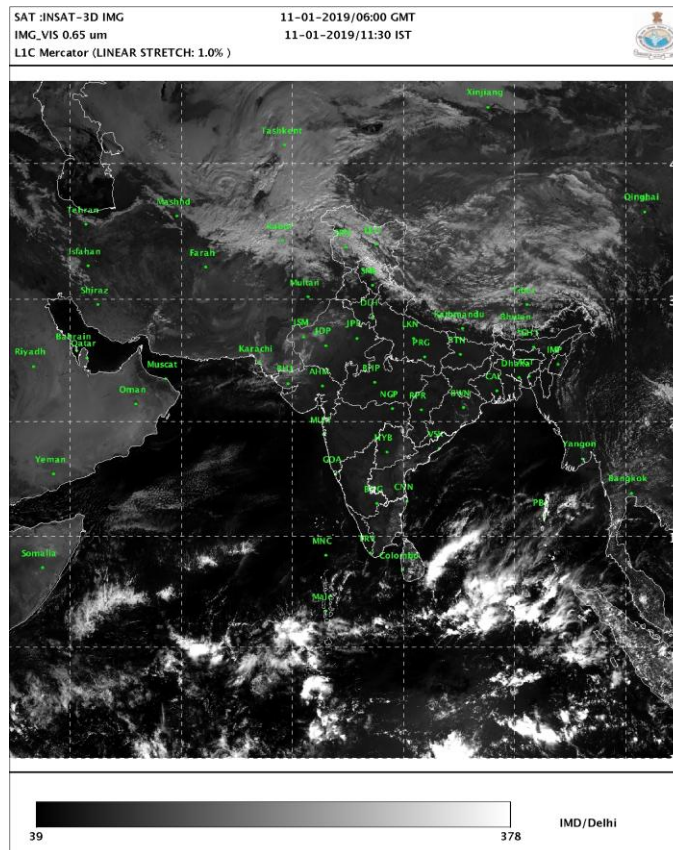


Rainfall map for the week ending 16.01.2019



- ◆ **Large Excess Rain:** West Rajasthan
- ◆ **Excess Rain:** Andaman & Nicobar Islands
- ◆ **Normal Rain:** NIL
- ◆ **Deficient Rain/ Large Deficient Rain/ No Rain:** Rest of the country

Satellite image 0600 UTC Dated 18.01.2019



Weather Forecast for next 5 days valid upto 0830 hours of 23rd January, 2019

- Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table below.
- Shallow to moderate fog very likely at isolated places in morning hours over northeastern states during next 5 days and over Bihar, Coastal Andhra Pradesh and Telangana, during next 2 days.
- No significant change in night minimum temperatures over eastern India during next 2 days and gradual rise by 1-2 °C thereafter. Rise in minimum temperatures by 2-3 °C over Gujarat and Maharashtra during next 3 days and over northwest India from 20th January.

5 Day Rainfall Forecast (Mid-day) 4th January 2019

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

% 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

- **18 January (Day 1):** Cold wave conditions at isolated pockets very likely over Punjab, Haryana, Chandigarh, East Madhya Pradesh and interior Odisha. Ground frost conditions at isolated places very likely over Punjab, Haryana, Chandigarh and East Madhya Pradesh. Dense fog at isolated places in the morning hours very likely over Punjab and Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- **19 January (Day 2):** No Weather Warning.
- **20 January (Day 3):** Heavy rain/snow at isolated places very likely over Jammu & Kashmir. Hailstorm at isolated places very likely over Jammu division, lower regions of Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh and West Rajasthan.
- **21 January (Day 4):** Heavy rain/snow at a few places with very heavy rain/snow at isolated places likely over Jammu & Kashmir and heavy to very heavy rain / snow at isolated places over Himachal Pradesh. Heavy rain at isolated places over likely over northern parts of Haryana & Chandigarh and Punjab. Hailstorm at isolated places likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and north Rajasthan.
- **22 January (Day 5):** Heavy to very heavy rain/snow at isolated places likely over Himachal Pradesh and heavy rain /snow at isolated places likely over Jammu & Kashmir and Uttarakhand.

Weather Outlook for subsequent 2 days from 23rd to 25th January 2019

- Reduction in rainfall activity over northwest India.
- Scattered to fairly widespread rain/snow likely over Western Himalayan Region and isolated to scattered rain over the plains of northwest India.
- Isolated rainfall is likely over Andaman & Nicobar Islands and northern parts of central India and adjoining northern plains.
- Dry weather likely over the rest of the country.

Executive Summary

- As rain/snow likely at most places over **Uttarakhand** on 21st and 22nd, at most/many places over **Jammu & Kashmir** from 19th to 22nd, over **Himachal Pradesh** from 20th to 22nd, rain/thundershowers at most places over **Punjab, Haryana, Chandigarh & Delhi** on 21st and 22nd, at many places over **West Uttar Pradesh** on 22nd, along with heavy rain/snow at a few places with very heavy rain/snow at isolated places likely over **Jammu & Kashmir** on 21st, heavy to very heavy rain/snow at isolated places over **Himachal Pradesh** on 21st and 22nd, heavy rain/snow at isolated places very likely over Jammu & Kashmir on 20th and 22nd and over Uttarakhand on 22nd, heavy rain at isolated places likely over northern parts of Haryana & Chandigarh and Punjab on 21st January, avoid irrigation, intercultural operation and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in crop fields in Jammu & Kashmir Himachal Pradesh and Uttarakhand.
- As cold wave conditions at isolated pockets along with ground frost conditions at isolated places very likely over **Punjab, Haryana, Chandigarh** and over **East Madhya Pradesh**, cold wave conditions at isolated pockets very likely over **interior Odisha** on 18th January, apply light and frequent irrigation/sprinkler irrigation in the evening to protect the crops from cold injury. To protect young fruit plants from cold winds, cover young fruit plants with straw/polythene

sheets/gunny bags. Provide frequent light irrigation in rice nursery to avoid low temperature injury to seedlings.

- As hailstorm at isolated places very likely over Jammu division, lower regions of **Himachal Pradesh** and **West Rajasthan** on 20th, over **Uttarakhand, Punjab, Haryana** and **Chandigarh** on 20th and 21st, over **Jammu & Kashmir, Himachal Pradesh, West Uttar Pradesh, Delhi** and **north Rajasthan** on 21st January, use hail net for orchard crops to protect from mechanical damage. Provide support to young fruit plants and staking in vegetables to prevent the crops from lodging due to strong winds. Keep cattle indoor.
- As Dense fog at isolated places in the morning hours very likely over **Punjab** and **Haryana, Chandigarh & Delhi** and **West Uttar Pradesh** on 18th January, monitor the standing crops for incidence and spread of pest and diseases, potato, tomato and onion crops for early/late blight disease. If symptoms are noticed, undertake appropriate plant protection measures.
- In **Jammu & Kashmir**, prevailing weather is congenial for the infestation of yellow rust in wheat crop. Farmers are advised to keep strict vigil on the crop for appearance of disease. If observed, apply Propiconazole (Tilt) 25 EC @ 0.1 % (1ml/litre of water) after current spells of rain.

- 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.