राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

Sunday 07 October 2018 MORNING

Time of Issue: 0815 IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ♦ The Depression over southeast and adjoining eastcentral Arabian sea moved west-northwestwards with a speed of about 13 kmph in last 06 hours and lay centred at 0530 hrs IST of today, the 7th October 2018, near Lat. 11.9°N and Long. 65.8°E, about 1380 km east-southeast of Salalah (Oman), 1290 km east-southeast of Socotra Island (Yemen) and 900 km west-northwest of Minicoy (Lakshadweep Islands). It is very likely to intensify further into a Deep Depression during 12 hours and into a Cyclonic Storm during subsequent 24 hours. It is very likely to move west-northwestwards towards south Oman and adjoining Yemen Coasts during next 5 days.
- ♦ The cyclonic circulation over north Andaman Sea and adjoining South east Bay of Bengal and extends upto 5.8 km above mean sea level. Under its influence a low pressure area is likely to form over the same region during next 24 hours. It is very likely to concentrate into a Depression during subsequent 24 hours. It is very likely to move northwestwards towards Odisha coast during next 72 hours.
- ♦ Southwest monsoon has further withdrawn from remaining parts of North Bay of Bengal, Chhattisgarh and Maharashtra, entire Telangana, most parts of central Bay of Bengal, Coastal Andhra Pradesh and Central Arabian Sea and some parts of Rayalaseema and Karnataka. The withdrawal line of southwest monsoon passes through Lat. 16°N/Long. 94°E, Lat. 15°N/long. 90°E, Machilipatnam, Kurnool, Gadag, Vengurla and Lat. 16°N/Long. 60°E.
- ♦ Tamilnadu, Kerala and Lakshadweep are likely to witness widespread rain / thundershowers with heavy / very heavy rains at isolated places during next 2-3 days.

Main Weather Observations

- ♦ Rainfall observed (from 0830 to 1730 hrs of yesterday): Rain/thundershowers observed at most places over Andaman & Nicobar Islands; at many places over Lakshadweep and South Interior Karnataka; at a few places over Kerala and Tamilnadu & Puducherry; and at isolated places over Jammu & Kashmir, East Uttar Pradesh and Coastal Karnataka.
- ♦ Rainfall recorded at 1730 hours IST of yesterday (1 cm or more) were: Kanniyakumari-5; Long Island, Karaikal and Kodaikanal-3each; Agathi Airport, Pallakad and Tiruppatur-2each; Periakulum, Cochin, Thiruvananthapuram, Mayabandar and Hut bay-1each.
- ♦ Thunderstorm observed at most places over Kerala; at a few places over Coastal Karnataka and isolated places over South interior Karnataka ,Tamilnadu & Puducherry and Jammu & Kashmir from 0830 hours IST of yesterday to 0530 hours IST of today.
- ♦ Maximum temperature departures as on 06-10-2018: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Konkan & Goa, Coastal Karnataka and Saurashtra & Kutch; at a few places over East Madhya Pradesh; and at isolated places over Gangetic West Bengal, Odisha, West Madhya Pradesh,East Uttar Pradesh and Telangana; above normal (1.6°C to 3.0°C) at most places over Coastal Andhra Pradesh, Vidarbha, Rajasthan, Gujarat region and Jharkhand; at many places over Kerala, Telangana and Rayalaseema; at a few places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Bihar and West Uttar Pradesh; They were below normal (-1.6°C to -3.0°C) at most places over Lakshadweep; at many places over Jammu & Kashmir and Tamilnadu & Puducherry; and at isolated places over Punjab, Haryana, Chandigarh & Delhi and Andaman & Nicobar Islands. and near normal over rest of the country. The highest maximum temperature of 42.2° C was recorded at Bhuj (Gujarat) over plains of the country.
- ♦ Minimum temperature departures as on 06-10-2018: Minimum temperature were above normal (1.6°C to 3.0°C) at a few places over Gujarat, Madhya Maharashtra, Konkan & Goa, South Interior Karnataka and Kerala and at isolated places over Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Odisha, Vidarbha, Marathwada, Chhattisgarh and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu & Kashmir; at isolated places over Tamilnadu & Puducherry; below normal (-1.6°C to -3.0°C) at a few places over Himachal Pradesh, Haryana, Chandigarh & Delhi and Assam & Meghalaya and at isolated places over Uttarakhand & Coastal Andhra Pradesh and near normal over rest of the country. The lowest minimum temperature of 15.4°C was recorded at Bhatinda (Punjab) over the plains of the country.



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Meteorological Analysis (Based on 0530 hours IST)

- ♦ Southwest monsoon has withdrawn from remaining parts of North Bay of Bengal, Chhattisgarh and Maharashtra, entire Telangana, most parts of central Bay of Bengal, Coastal Andhra Pradesh and Central Arabian Sea and some parts of Rayalaseema and Karnataka.
- ◆ The withdrawal line of southwest monsoon continues to pass through Lat. 16°N/Long. 94°E, Lat. 15°N/long. 90°E, Machilipatnam, Kurnool, Gadag, Vengurla and Lat. 16°N/ Long. 60°E.
- ♦ The Depression over southeast and adjoining eastcentral Arabian sea moved west-northwestwards with a speed of about 13 kmph in last 06 hours and lay centred at 0530 hrs IST of today, the 7th October 2018, near Lat. 11.9°N and Long. 65.8°E, about 1380 km east-southeast of Salalah (Oman), 1290 km east-southeast of Socotra Island (Yemen) and 900 km west-northwest of Minicoy (Lakshadweep Islands). It is very likely to intensify further into a Deep Depression during 12 hours and into a Cyclonic Storm during subsequent 24 hours. It is very likely to move west-northwestwards towards south Oman and adjoining Yemen Coasts during next 5 days.
- ♦ The cyclonic circulation over south Andaman Sea & neighbourhood now lies over north Andaman Sea and adjoining South east Bay of Bengal and extends upto 5.8 km above mean sea level.
- ♦ Under its influence a low pressure area is likely to form over the same region during next 24 hours. It is very likely to concentrate into a Depression during subsequent 24 hours. It is very likely to move northwestwards towards Odisha coast during next 72 hours.
- ♦ The cyclonic circulation over Bangladesh and adjoining areas of Assam & Meghalaya extending upto 1.5 km above mean sea level persists.
- ♦ The Western Disturbance as an upper air cyclonic circulation over northern parts of Jammu & Kashmir and neighbourhood at 5.8 km above mean sea level persists.
- ♦ The induced cyclonic circulation extending upto 0.9 km above mean sea level over North Rajasthan and neighborhood persists.
- ♦ A fresh Western Disturbance is likely to affect western Himalayan region and adjoining plains of northwest India from 08th October.

Weather Forecast for next 5 days * upto 0830 hours IST of 12th October 2018

- ♦ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table -1.
- ◆ No significant change in temperatures likely over most parts of the country during next 2-3 days.

Weather Outlook for subsequent 2 days from 12th October to 14th October 2018

- ◆ Scattered to fairly widespread rainfall likely over south peninsula, Andaman & Nicobar Islands and Lakshadweep.
- ♦ Isolated to scattered precipitation likely over Western Himalayan region, isolated to scattered rainfall likely over northeastern States, west coast and over plains of northwest India. Dry weather likely over the rest of the country.

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Weather Warning during next 5 days *

07 October (Day 1): ♦ **Heavy to very heavy rain** very likely at isolated places over Tamilnadu, Kerala and Lakshadweep and **heavy rain** at isolated places over Andaman & Nicobar Islands, Coastal & South Interior Karnataka.

- ♦ Thunderstorm accompanied with lightning and gusty winds very likely at isolated places over Tamilnadu, Kerala, and South Interior Karnataka.
- ♦ Winds speed reaching 40-50 kmph gusting to 60 kmph very likely over Lakshadweep area and Southeast Arabian Sea and wind speed 60- 70 kmph gusting to 80 kmph central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over Lakshadweep area South & central Arabian Sea. Fishermen are advised not to venture into these areas.
- **08 October (Day 2**): ♦ **Heavy to very heavy rain** likely at isolated places over Tamilnadu & Puducherry and Kerala and **heavy rain** at isolated places over Andaman & Nicobar Islands.
- ♦ Thunderstorm accompanied with lightning and hail storms likely at isolated places over Jammu & Kashmir and Himachal Pradesh.
- ♦ Winds speed reaching 70-80 kmph gusting to 90 kmph very likely over central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over central Arabian Sea. Fishermen are advised not to venture into these areas.
- 09 October (Day 3): ♦ Heavy rain likely at isolated places over Tamilnadu & Puducherry and Kerala.
- ♦ Thunderstorm accompanied with lightning and hail storms likely at isolated places over Jammu & Kashmir and Himachal Pradesh.
- ♦ Winds speed reaching 70-80 kmph gusting to 90 kmph very likely over central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over central Arabian Sea. Fishermen are advised not to venture into these areas.
- **10 October (Day 4**): ♦ Winds speed reaching 70-80 kmph gusting to 90 kmph very likely over central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over central Arabian Sea. Fishermen are advised not to venture into these areas.
- **11 October (Day 5):** ♦ Winds speed reaching 70-80 kmph gusting to 90 kmph very likely over central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over central Arabian Sea. Fishermen are advised not to venture into these areas.
- ► Kindly visit State level Meteorological centre/Regional Meteorological centers website for district wise forecast and warning.



Table-1 5 Day Rainfall Forecast (MORNING)

07-October-2018

Met-Sub-Division	07-Oct Today	080ct Mon	090ct Tue	100ct Wed	110ct Thu
1. Andaman & Nicobar Islands	WS	WS	FWS	SCT	SCT
2. Arunachal Pradesh	ISOL	SCT	ISOL	ISOL	ISOL
3. Assam & Meghalaya	ISOL	ISOL	ISOL	SCT	SCT
4. N. M. M. & T.	ISOL	ISOL	ISOL	SCT	SCT
5. S.H. West Bengal & Sikkim	ISOL	ISOL	ISOL	ISOL	ISOL
6. Gangetic West Bengal	DRY	DRY	DRY	SCT	SCT
7. Odisha	DRY	DRY	ISOL	SCT	SCT
8. Jharkhand	DRY	DRY	DRY	DRY	DRY
9. Bihar	DRY	DRY	DRY	DRY	DRY
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	ISOL	ISOL
12. Uttarakhand	DRY	DRY	ISOL	ISOL	ISOL
13. Haryana, Chd & Delhi	DRY	DRY	ISOL	ISOL	ISOL
14. Punjab	DRY	ISOL	ISOL	DRY	DRY
15. Himachal Pradesh	DRY	ISOL	SCT	ISOL	ISOL
16. Jammu & Kashmir	ISOL	SCT	FWS	SCT	SCT
17. West Rajsthan	DRY	DRY	ISOL	ISOL	ISOL
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	ISOL	ISOL	ISOL	SCT	SCT
22. Saurashtra & Kutch	ISOL	ISOL	ISOL	SCT	SCT
23. Konkan & Goa	ISOL	ISOL	SCT	SCT	SCT
24. Madhya Maharashtra	DRY	ISOL	SCT	SCT	SCT
25. Marathawada	DRY	DRY	DRY	DRY	DRY
26. Vidharbha	DRY	DRY	DRY	DRY	DRY
27. Chhattisgarh	DRY	DRY	DRY	DRY	DRY
28. Coastal Andhra Pradesh	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	ISOL	DRY	DRY
30. Rayalaseema	ISOL	ISOL	ISOL	ISOL	ISOL
31. Tamilnadu & Puducherry	WS	ws	FWS	SCT	SCT
32. Coastal Karnataka	WS	WS	FWS	FWS	FWS
33. North Interior Karnataka	ISOL	ISOL	ISOL	ISOL	ISOL
34. South Interior Karnataka	FWS	FWS	SCT	SCT	SCT
35. Kerala	WS	WS	FWS	FWS	FWS
36. Lakshadweep	WS	WS	FWS	SCT	SCT

% Station Reporting Rainfall

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

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National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

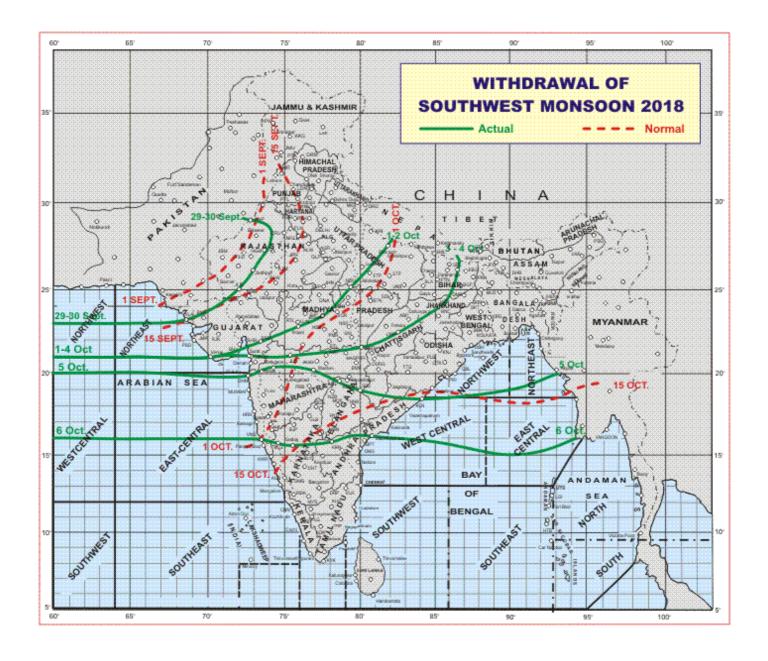




Fig. 1: Maximum Temperature during past 24 hours

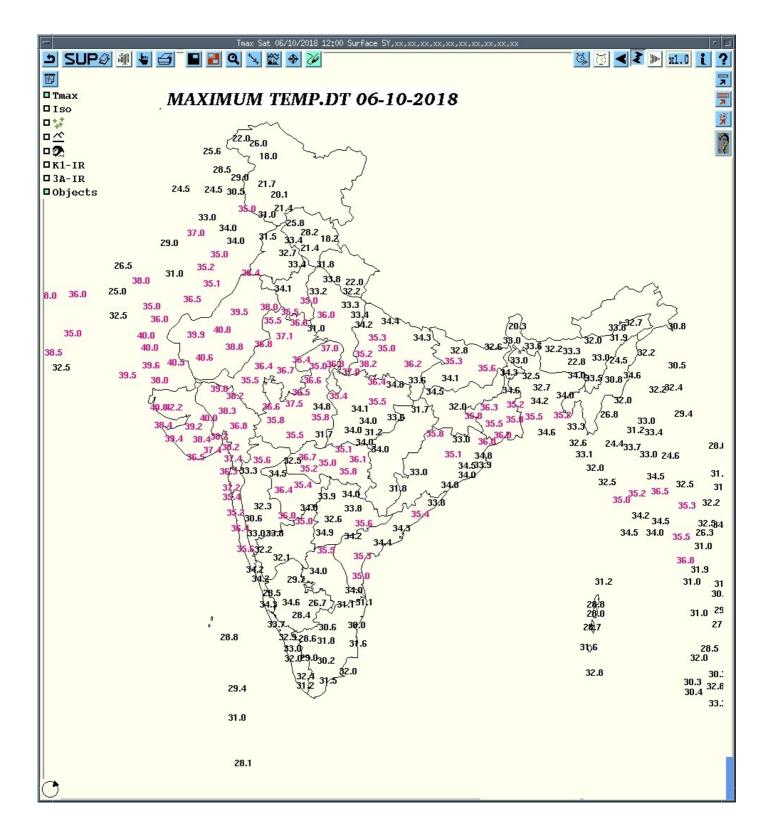




Fig. 2: Minimum Temperature during past 24 hours

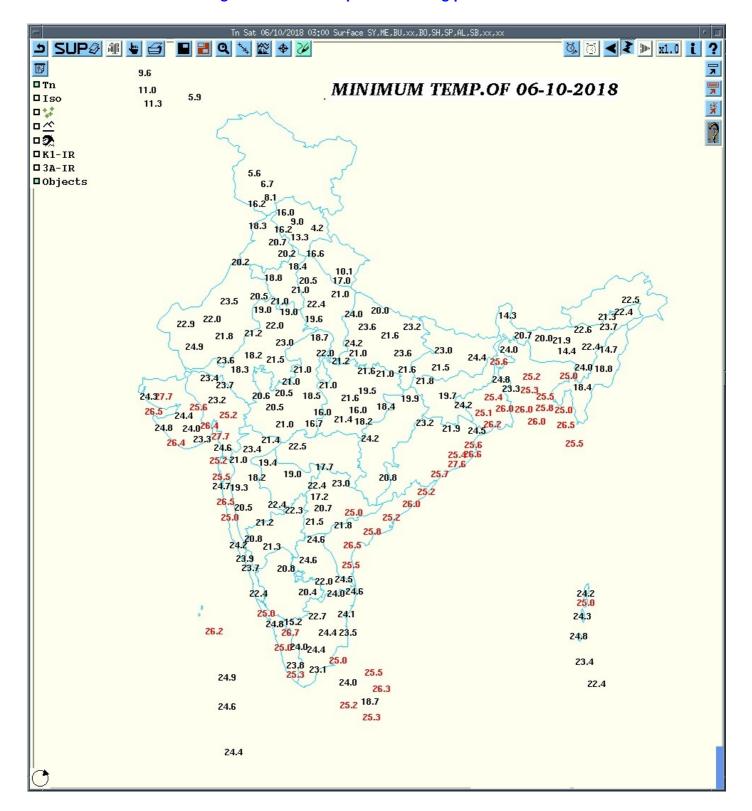




Fig. 3 : Departure from Normal of Maximum Temperatures

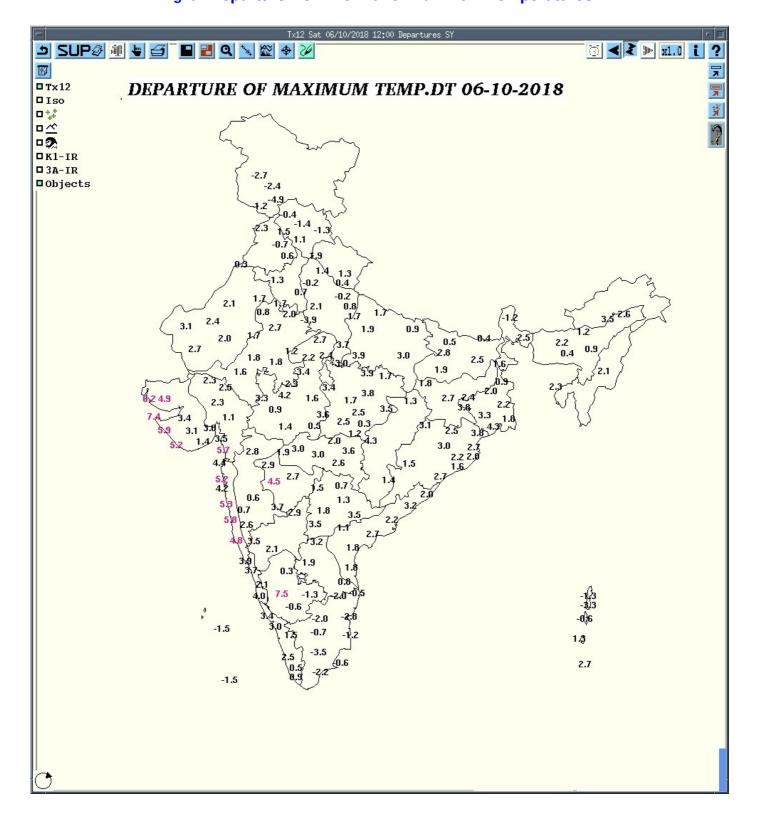
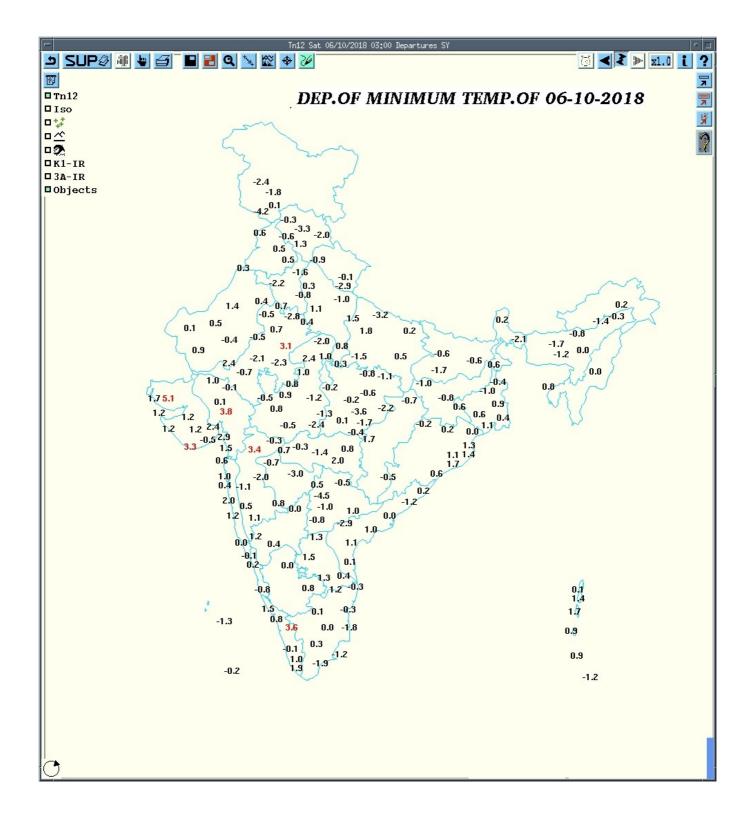


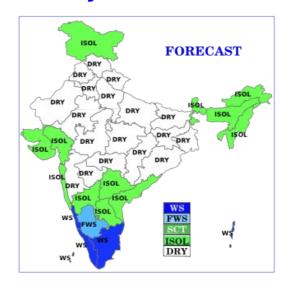


Fig. 4: Departure from Normal of Minimum Temperatures





Sunday 07 October 2018

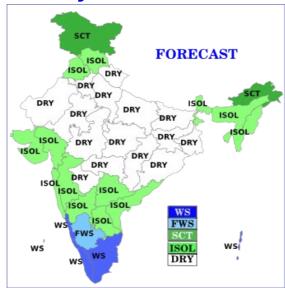




07 October (Day 1): ♦ **Heavy to very heavy rain** very likely at isolated places over Tamilnadu, Kerala and Lakshadweep and **heavy rain** at isolated places over Andaman & Nicobar Islands, Coastal & South Interior Karnataka.

- ♦ Thunderstorm accompanied with lightning and gusty winds very likely at isolated places over Tamilnadu, Kerala, and South Interior, Karnataka
- ♦ Winds speed reaching 40-50 kmph gusting to 60 kmph very likely over Lakshadweep area and Southeast Arabian Sea and wind speed 60- 70 kmph gusting to 80 kmph central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over Lakshadweep area South & central Arabian Sea. Fishermen are advised not to venture into these areas.

Monday 08 October 2018



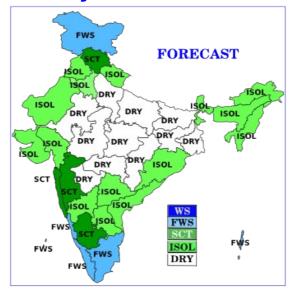


08 October (Day 2): ♦ **Heavy to very heavy rain** likely at isolated places over Tamilnadu & Puducherry and Kerala and **heavy rain** at isolated places over Andaman & Nicobar Islands.

- ♦ Thunderstorm accompanied with lightning and hail storms likely at isolated places over Jammu & Kashmir and Himachal Pradesh.
- ♦ Winds speed reaching 70-80 kmph gusting to 90 kmph very likely over central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over central Arabian Sea. Fishermen are advised not to venture into these areas.



Tuesday 09 October 2018



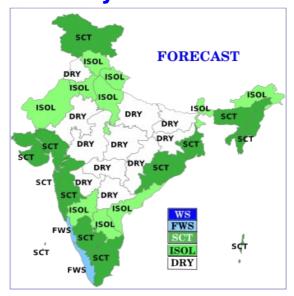


09 October (Day 3): ♦ **Heavy rain** likely at isolated places over Tamilnadu & Puducherry and Kerala.

- ♦ Thunderstorm accompanied with lightning and hail storms likely at isolated places over Jammu & Kashmir and Himachal Pradesh.
- ♦ Winds speed reaching 70-80 kmph gusting to 90 kmph very likely over central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over central Arabian Sea. Fishermen are advised not to venture into these areas.



Wednesday 10 October 2018

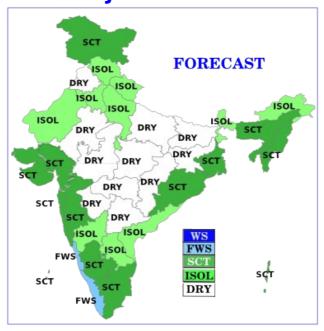


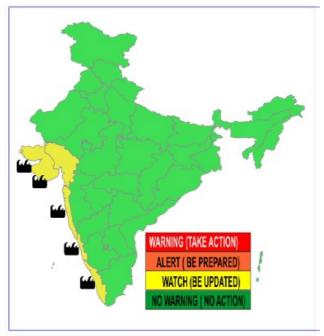


10 October (Day 4): ♦ Winds speed reaching 70-80 kmph gusting to 90 kmph very likely over central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over central Arabian Sea. Fishermen are advised not to venture into these areas.



Thursday 11 October 2018



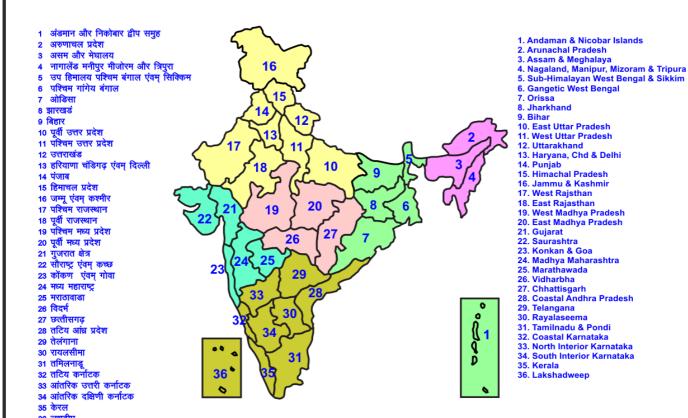


11 October (Day 5): ♦ Winds speed reaching 70-80 kmph gusting to 90 kmph very likely over central Arabian sea. **Rough to very rough** Sea Conditions are likely to prevail over central Arabian Sea. Fishermen are advised not to venture into these areas.

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LEGENDS



SPATIAL DISTRIBUTION (% of Stations reporting)

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

WARNING

WARNING (TAKE ACTION)

ALERT (BE PREPARED)
WATCH (BE UPDATED)

NO WARNING (NO ACTION)

Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Heavy Rain



Heavy Snow







Dust Storm

Squall/ Hail



Strong Winds



Visibility



Cyclone



Heat Wave



Sea State



Cold Wave



^{*} Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

S Frost



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

LEGENDS Probabilistic Forecast WARNING WARNING (TAKE ACTION) Probability of Occurrence (%) Terms Unlikely Likely **ALERT (BE PREPARED)** 25 - 50 50 - 75 WATCH (BE UPDATED) ery Lil Most Likel NO WARNING (NO ACTION > 75 Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm* Rain/ Snow * Extremely Heavy: > 204.4 mm/cm When maximum temperature of a station reaches ≥40° C for plains and ≥30° C for hilly regions (a) Based on Departure from normal Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C Severe Heat Wave: Maximum Temperature Departure from normal ≥6.5° C (b). Based on Actual maximum temperature **Heat Wave** Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C (c). Criteria for heat wave for coastal stations When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C When maximum temperature remains 40°C # Warm Night Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C Severe Warm Night: When minimum temperature departure >6.4 °C When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions. (a). Based on departure Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C. Severe Cold Wave: Minimum Temperature Departure from normal ≥ -6.5 °C (b) Based on actual Minimum Temperature (for Plains only) **Cold Wave** Cold Wave : When Minimum Temperature is ≤ 4.0 °C Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C (c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C or actual Minimum Temperature is ≤ 15 °C When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C. **Cold Day** Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C Phenomenon of small droplets suspended in air and the horizontal visibility < 1km Moderate Fog: When the visibility between 500-200 metres 0 Dense Fog: when the visibility between 50-200 metres Fog Very Dense Fog: when the visibility < 50 metres 44 Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) Thunderstorm An ensemble of particles of dust or sand energetically lifted to great heights by a strong and **Dust/Sand** Storm 55 Ice deposits on ground Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph 45 Severe: Wind speed 62-87 kmph Squall Very Severe: Wind speed >87 kmph Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre Sea State Phenomenal: Wind speed >117 kmph (>63 knots) & Wave height >14 metre Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) 9 Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Cyclone Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

^{*} Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day
For more details kindly visit www.imd.gov.in or contact: +91 11 24631913, +91 11 24629798

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