



Tuesday 11 October 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

⇒ The withdrawal line of Southwest Monsoon continues to pass through Long. 79.0°E/ Lat. 31.7° N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3° N.

⇒ Conditions are very likely to become favourable for withdrawal of southwest monsoon from some more parts of northwest & central India during next 3-4 days.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

⇒ A Western Disturbance as a trough in mid & upper tropospheric westerlies runs roughly along 68°E to the north of 25°N.

⇒ A cyclonic circulation lies over Haryana & neighbourhood in lower tropospheric levels.

⇒ A cyclonic circulation lies over north Tamil Nadu & neighbourhood in lower tropospheric levels and a trough runs from this cyclonic circulation to northeast Rajasthan in lower tropospheric levels.

Under the influence of above systems;

o Fairly widespread/widespread light/moderate rainfall with **isolated/scattered heavy falls & thunderstorm/lightning** very likely over East Uttar Pradesh on 11th October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Tamil Nadu, Puducherry & Karaikal during 11th-15th; Rayalaseema during 11th-13th; Interior Karnataka during 11th-12th and Telangana on 11th October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** very likely over Sub-Himalayan West Bengal & Sikkim and Bihar during 11th-12th October, 2022.

o Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh and Assam & Meghalaya during 11th-12th and Nagaland, Manipur, Mizoram & Tripura on 11th October, 2022. **Isolated very heavy rainfall very likely over Arunachal Pradesh on 11th October, 2022.**

Main Weather Observations

* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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◆**Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Madhya Maharashtra; at many places over Marathwada, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Lakshadweep, Andaman & Nicobar Islands and Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, ; at a few places over Uttarakhand, Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Haryana, Chandigarh & Delhi, Tamilnadu, Puducherry & Karaikal, Madhya Pradesh, Chhattisgarh, Vidarbha, Odisha, Konkan & Goa, Telangana and Rayalaseema and at isolated places over Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gujarat, Jharkhand and Coastal Karnataka.

◆ **Heavy Rainfall Recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Isolated heavy rainfall occurred over Madhya Maharashtra and Tamilnadu.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (3 cm or more):** Nasik and Tirupattur-7 each; Bareilly, Lucknow and Tuni-5 each; Belgaum/Sambre-4; Kanpur (Chakeri), Khajuraho, Patna, Bhopal (Bairagarh), Ramgundam, Mukteshwar (Kumaon), Pantnagar, Jalpaiguri, Gopalpur and Minicoy-3.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttar Pradesh, Punjab, Haryana, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Pradesh, Bihar, Chhattisgarh, Odisha, Marathwada, Madhya Maharashtra, Telangana, Coastal Andhra Pradesh & Yanam, Interior Karnataka, Sub-Himalayan West Bengal & Sikkim, Vidarbha and Tamilnadu, Puducherry & Karaikal.

◆ **Minimum Temperature Departures (as on 10-10-2022):** Minimum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Himachal Pradesh; at many places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at a few places over Saurashtra & Kutch, East Madhya Pradesh and Bihar; at isolated places over East Rajasthan; above normal (1.6°C to 3.0°C) at most places over Punjab, West Madhya Pradesh and Vidarbha; at many places over Gujarat Region, Chhattisgarh, Jharkhand, Madhya Maharashtra and Marathwada; at a few places over Assam & Meghalaya and Gangetic West Bengal; at isolated places over West Rajasthan and Odisha. They were below normal (-1.6°C to -3.0°C) at a few places over Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 17.0°C was reported at Ridge (Delhi) over the plains of the country.

◆ **Maximum Temperature Departures (as on 10-10-2022):** Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Bihar and Gangetic West Bengal; at a few places over Kerala & Mahe; at isolated places over Saurashtra & Kutch. They were markedly below normal (-5.1°C or less) at most places over Haryana, Chandigarh & Delhi and West Uttar Pradesh; at many places over Uttarakhand, East Uttar Pradesh and Arunachal Pradesh; appreciably below normal (-3.1°C to -5.0°C) at most places over Punjab and East Rajasthan; at many places over Coastal Andhra Pradesh & Yanam, at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Madhya Pradesh, Assam & Meghalaya, Vidarbha, Andaman & Nicobar Islands and Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at most places over Telangana; at many places over West Rajasthan, Gujarat Region, Marathwada, Tamilnadu, Puducherry & Karaikal and Rayalaseema; at a few places over North Interior Karnataka and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 39.2°C was reported at Bhuj (Rudramata) (Saurashtra & Kutch) over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ The withdrawal line of **Southwest Monsoon** continues to pass through Long. 79.0°E/ Lat. 31.7°N, Uttarkashi, Nazibabad, Agra, Gwalior, Ratlam, Bharuch and Long. 71.0°E / Lat. 20.3°N.
- ◆ The **Western Disturbance** as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along 68°E to the north of 25°N.
- ◆ The cyclonic circulation over Haryana & neighbourhood at 1.5 km above mean sea level persists.
- ◆ The trough from north Gujarat to Haryana across Rajasthan between 1.5 km & 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over north Tamil Nadu & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The trough from cyclonic circulation over north Tamil Nadu & neighbourhood to northeast Rajasthan across Rayalaseema, Telangana, Vidarbha & West Madhya Pradesh at 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over southwest Bay of Bengal & adjoining north Sri Lanka coast at 3.1 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 16th October, 2022

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

Weather Outlook for subsequent 2 days During 16th-18th October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall likely over East Uttar Pradesh, East Central, East, Northeast & south peninsular India, Islands and along the West coasts.
- ◆ Isolated to scattered light rainfall activity likely over rest parts of the country except many parts of northwest India and Gujarat where dry weather is likely.



Weather Warning during next 5 days *

11 Oct (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Arunachal Pradesh; **heavy rainfall** at isolated places over East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema, Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, Odisha, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

12 Oct (Day 2): ♦ Heavy rainfall at isolated places very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Jharkhand, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

13 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

14 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

15 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

Kindly download MAUSAM APP for location specific forecast & warning, MEGHDOOT APP for Agromet advisory and DAMINI APP for Lightning Warning & visit state MC/RMC websites for district wise warning.

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Table-1
5 Day Rainfall Forecast (MORNING)
11-October-2022

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

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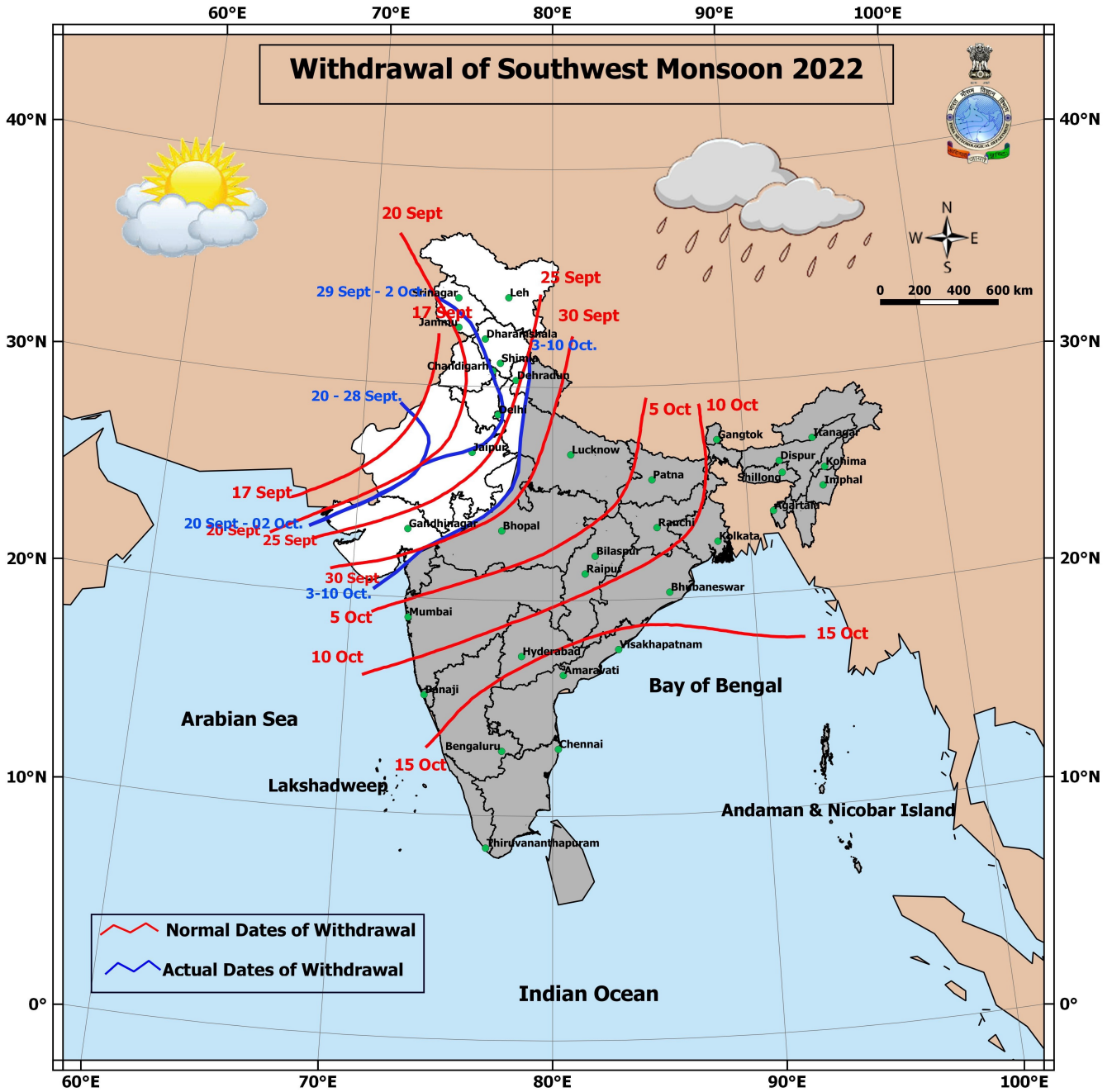
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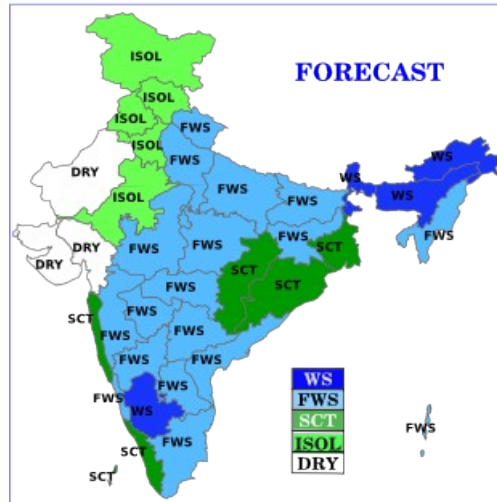


Fig.1 Withdrawal of Southwest Monsoon 2022



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11 Oct (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Arunachal Pradesh; **heavy rainfall** at isolated places over East Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Telangana, Rayalaseema, Interior Karnataka and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Himachal Pradesh, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, Odisha, West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

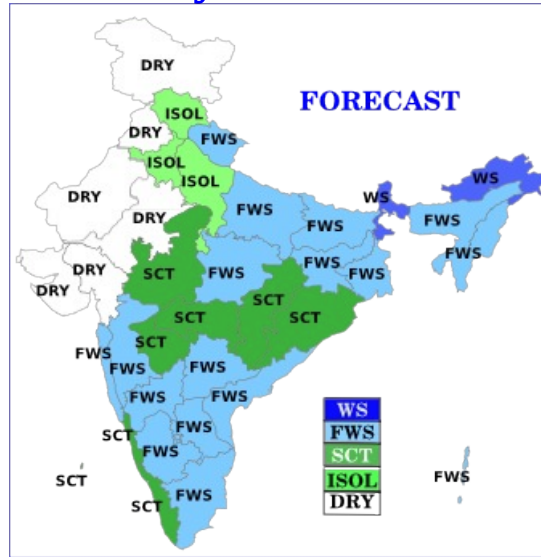
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(Copies to the Meteorologist (G-7))

Wednesday 12 October 2022



12 Oct (Day 2): ♦ Heavy rainfall at isolated places very likely over Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Jharkhand, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

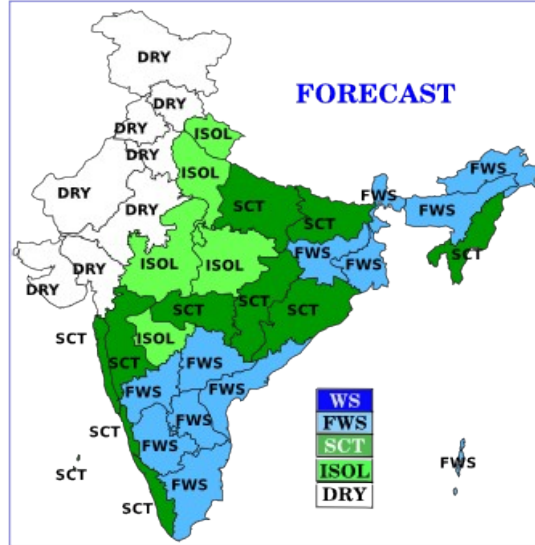
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Thursday 13 October 2022



13 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

♦ Thunderstorm accompanied with lightning at isolated places likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

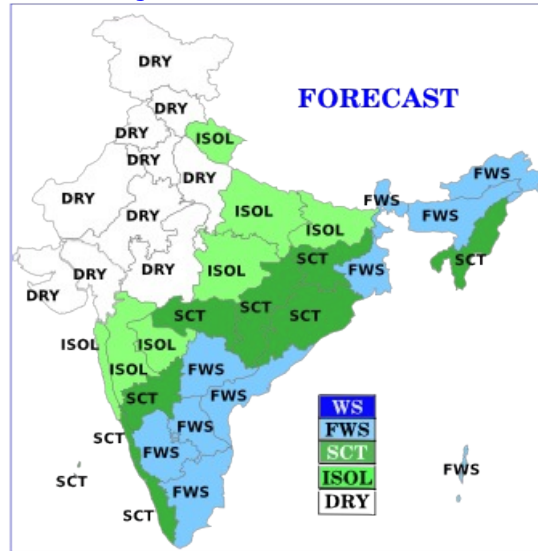
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Friday 14 October 2022



14 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal.

♦ Thunderstorm accompanied with lightning at isolated places likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

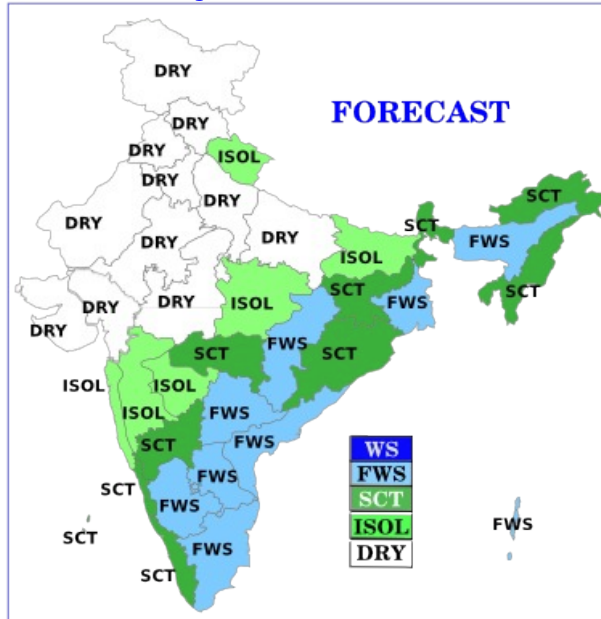
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Saturday 15 October 2022



15 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Tamil Nadu, Puducherry & Karaikal.

♦ Thunderstorm accompanied with lightning at isolated places likely over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एंवम् सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एंवम् दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एंवम् कश्मीर एंवम् लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एंवम् कच्छ
- 23 कोंकण एंवम् गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एंवम् कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एंवम् माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathawada
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. Lakshadweep

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 Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)

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



Thunderstorm



Dust Storm



Strong Winds



Visibility



Cyclone



Squall/ Hail



Frost



Cold Wave



Heat Wave



Sea State

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LEGENDS

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



Rain/ Snow *

Heavy: 64.5 to 115.5 mm/cm *
Very Heavy: 115.6 to 204.4 mm/cm *
Extremely Heavy: > 204.4 mm/cm *



Heat Wave

When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ 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 $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c) Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



Warm Night

When maximum temperature remains 40°C

Warm Night: When minimum temperature departure 4.5°C to 6.4°C .

Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.



Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ 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 $\geq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ or actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions

Based on departure

Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C .

Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

Moderate Fog: When the visibility between 500-200 metres

Dense Fog: when the visibility between 50- 200 metres

Very Dense Fog: when the visibility < 50 metres



Thunderstorm

Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)



Dust/Sand Storm

An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.



Frost

Ice deposits on ground

Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)



Squall

A strong wind that rises suddenly, lasts for atleast 1 minute.

Moderate: Wind speed 52-61 kmph

Severe: Wind speed 62-87 kmph

Very Severe: Wind speed > 87 kmph



Sea State

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

Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre



Cyclone

Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)

Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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, 24643965, 24629798

(Created by the Meteorology Dept)