



Tuesday 27 September 2022

MORNING

Time of Issue: 0800 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon:

- ◆ The line of withdrawal of Southwest Monsoon passes through Khajuwala, Bikaner, Jodhpur and Naliya.
- ◆ Conditions are becoming favourable for further withdrawal of Southwest Monsoon from some more parts of northwest India and some parts of adjoining central India during next 2-3 days.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

- ◆ A cyclonic circulation lies over central Pakistan & neighbourhood in lower tropospheric levels.
- ◆ A cyclonic circulation lies over Westcentral Bay of Bengal & neighbourhood in lower & middle tropospheric levels.
- ◆ A Western Disturbance as a trough in mid-tropospheric westerlies runs roughly along Long. 74°E to the north of Lat. 30°N.

◆ Under the influence of above systems:

- (i) Fairly widespread/widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Sub-Himalayan West Bengal & Sikkim on 27th and Odisha on 28th & 29th, September, 2022.
- (ii) Scattered to fairly widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Coastal Andhra Pradesh & Yanam during 27th-30th and over Tamilnadu, Puducherry & Karaikal on 27th & 28th September, 2022.
- (iii) Scattered to fairly widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Assam & Meghalaya on 28th and over Andaman & Nicobar Islands during 29th September-01st October, 2022.

Main Weather Observations

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

◆ **Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Very heavy rainfall at isolated places over East Madhya Pradesh and Coastal Andhra Pradesh & Yanam.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Damoh-9; Coastal Andhra Pradesh & Yanam -8; Vellore-6; Sagar-4, Shillong, Nowgong, Kashod, Hanakonda, Namgambakkam-3 each; Ambikapur and Khajuraho-2 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over East Madhya Pradesh, Chhattisgarh, Bihar, West Bengal & Sikkim, Odisha and Coastal Andhra Pradesh & Yanam, Himachal Pradesh, Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Telangana, North Interior Karnataka and Haryana.

◆ **Minimum Temperature Departures (as on 26-09-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at a few places over Odisha and at isolated places over Rajasthan, Uttar Pradesh, West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal and Gangetic West Bengal. They were below normal (-1.6°C to -3.0°C) at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Coastal Andhra Pradesh & Yanam and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 19.6°C was reported at Raisen (West Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 26-09-2022):** Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Gangetic west Bengal, Assam & Meghalaya and Kerala & Mahe; at a few places over Odisha, Sub-Himalayan, West Bengal & Sikkim, Coastal Karnataka and Andaman & Nicobar Islands and at isolated places over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam. They were below normal (-1.6°C to -3.0°C) at many places over Punjab, Haryana, Chandigarh & Delhi, Rayalaseema, West Rajasthan, Marathwada, and Madhya Maharashtra; at a few places over Uttar Pradesh, Gujarat and Interior Karnataka and at isolated places over Madhya Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 37.2°C was reported at Phalodi (West Rajasthan) over the plains of the country.

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(Created by the National Press 1077)



Meteorological Analysis (Based on 0530 hours IST)

- ◆ The withdrawal line of Southwest Monsoon continues to pass through Khajuwala, Bikaner, Jodhpur and Naliya. Conditions are becoming favourable for further withdrawal of Southwest Monsoon from some more parts of northwest India and some parts of adjoining central India during next 2-3 days.
- ◆ The cyclonic circulation over central Pakistan & neighbourhood extending upto 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over Westcentral Bay of Bengal & neighbourhood extending upto 4.5 km above mean sea level persists.
- ◆ The Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 74°E to the north of Lat. 30°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 02nd 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 02nd October-04th October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall activity likely over north Odisha, West Bengal & Sikkim and adjoining areas of Jharkhand and south Bihar, Nagaland, Manipur, Mizoram & Tripura, North Peninsular India, West Coast and Islands.
- ◆ Isolated to scattered light rainfall activity likely over rest parts of the country except many parts of northwest & central India where dry weather is likely.

Weather Warning during next 5 days *

27 Sept (Day 1): ♦ Heavy rainfall at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

28 Sept (Day 2): ♦ Heavy rainfall at isolated places very likely over Odisha, Assam, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Gangetic West Bengal, Odisha, Gujarat State, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, along and off south Sri Lanka coast, south Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

29 Sept (Day 3): ♦ Heavy rainfall at isolated places likely over Odisha, Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, along and off south Sri Lanka coast, southeast Bay of Bengal and adjoining south Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

30 Sept (Day 4): ♦ Heavy rainfall at isolated places likely over Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, along and off Sri Lanka coast, southeast Bay of Bengal and adjoining south Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast, central parts of southwest Bay of Bengal and parts of south Andaman Sea. Fishermen are advised not to venture into these seas.

01 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, along and off Sri Lanka coast, southeast Bay of Bengal and adjoining south Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast, central parts of southwest Bay of Bengal and parts of south Andaman Sea. Fishermen are advised not to venture into these seas.

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)
27-September-2022

Met-Sub-Division	27-Sep Today	28Sep Wed	29Sep Thu	30Sep Fri	01Oct Sat
1. Andaman & Nicobar Islands	FWS	FWS	WS	WS	WS
2. Arunachal Pradesh	SCT	SCT	ISOL	ISOL	ISOL
3. Assam & Meghalaya	SCT	SCT	ISOL	ISOL	ISOL
4. N. M. M. & T.	FWS	SCT	SCT	SCT	SCT
5. S.H. West Bengal & Sikkim	WS	FWS	SCT	SCT	SCT
6. Gangetic West Bengal	SCT	FWS	FWS	SCT	SCT
7. Odisha	SCT	SCT	SCT	SCT	SCT
8. Jharkhand	FWS	FWS	SCT	SCT	SCT
9. Bihar	SCT	ISOL	ISOL	ISOL	ISOL
10. East Uttar Pradesh	ISOL	ISOL	ISOL	ISOL	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	ISOL	ISOL	ISOL	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	ISOL	ISOL	ISOL	DRY	DRY
16. J & K and Ladakh	DRY	ISOL	ISOL	DRY	ISOL
17. West Rajsthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	ISOL	ISOL	ISOL	DRY	DRY
19. West Madhya Pradesh	ISOL	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	ISOL	DRY	DRY	DRY	DRY
21. Gujarat Region	ISOL	SCT	ISOL	ISOL	ISOL
22. Saurashtra & Kutch	ISOL	ISOL	DRY	DRY	DRY
23. Konkan & Goa	SCT	SCT	SCT	SCT	SCT
24. Madhya Maharashtra	SCT	SCT	SCT	FWS	FWS
25. Marathawada	SCT	SCT	SCT	SCT	SCT
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	FWS	FWS	FWS	FWS	FWS
29. Telangana	ISOL	SCT	SCT	SCT	SCT
30. Rayalaseema	ISOL	ISOL	SCT	SCT	SCT
31. T.N.,Puducherry & Karaikal	SCT	SCT	SCT	ISOL	ISOL
32. Coastal Karnataka	ISOL	ISOL	SCT	SCT	SCT
33. North Interior Karnataka	SCT	SCT	SCT	SCT	SCT
34. South Interior Karnataka	SCT	SCT	SCT	SCT	SCT
35. Kerala & Mahe	ISOL	ISOL	ISOL	ISOL	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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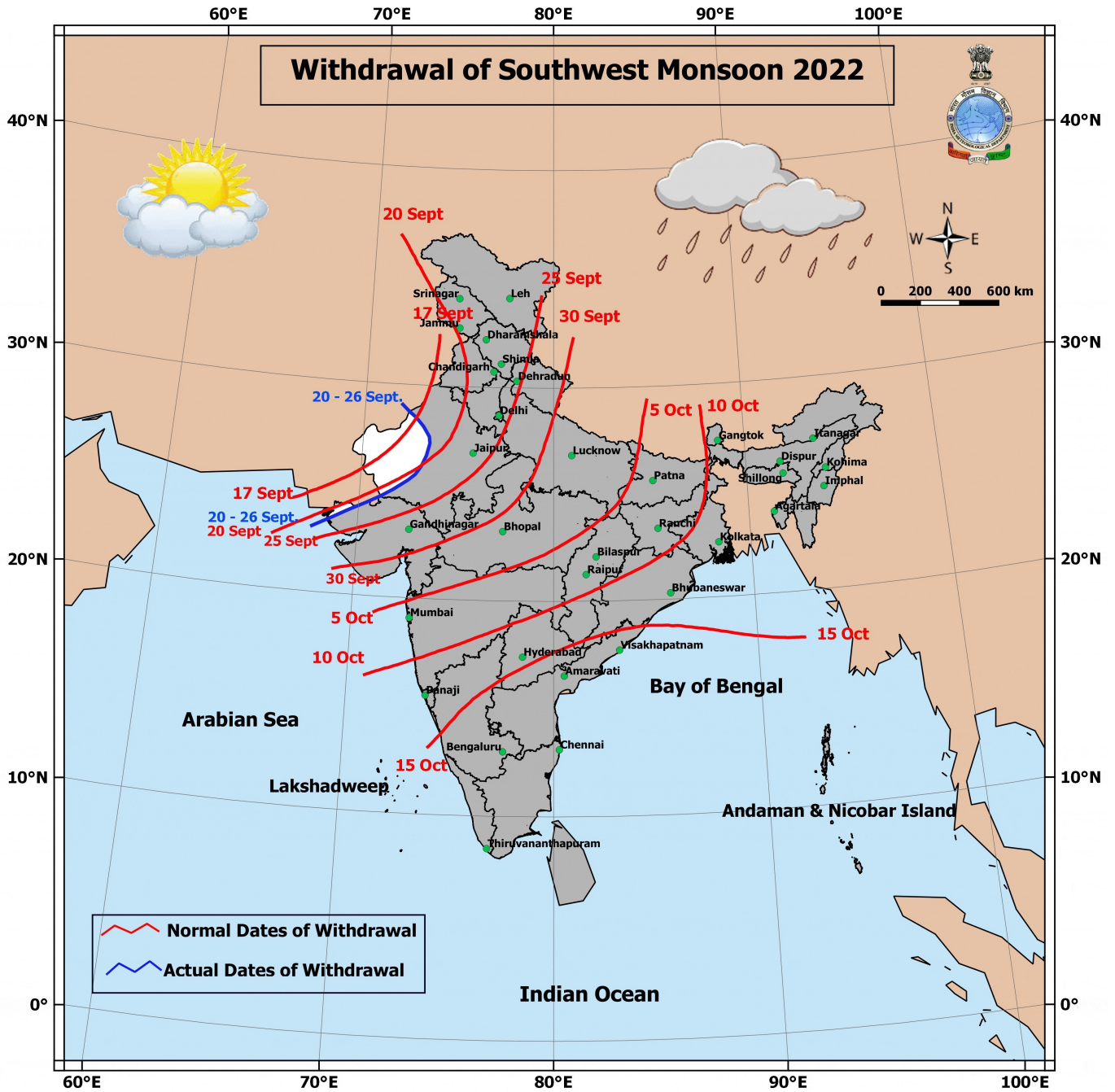
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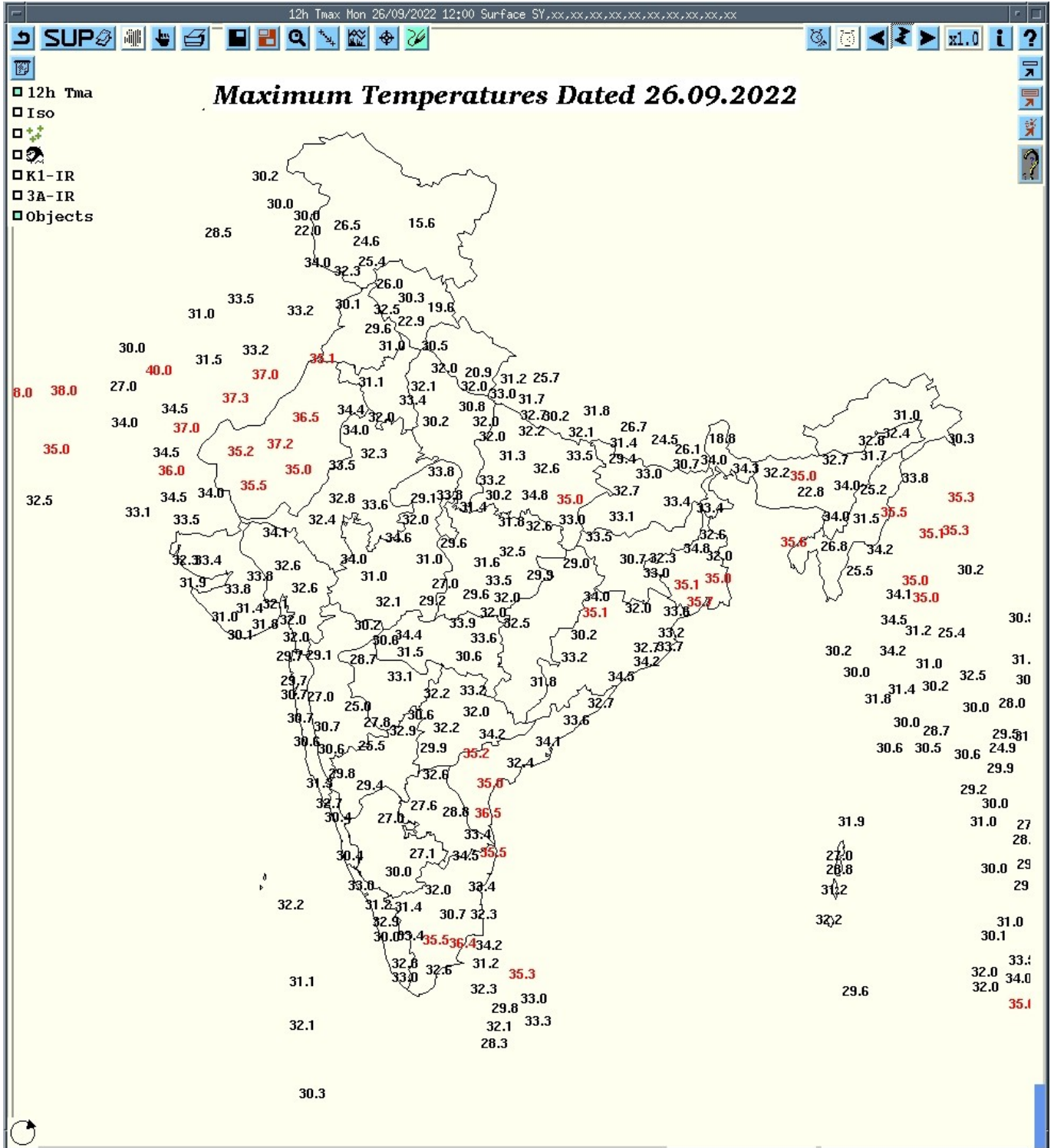
Fig.1 Withdrawal of Southwest Monsoon 2022



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Fig. 3: Maximum Temperature during past 24 hours



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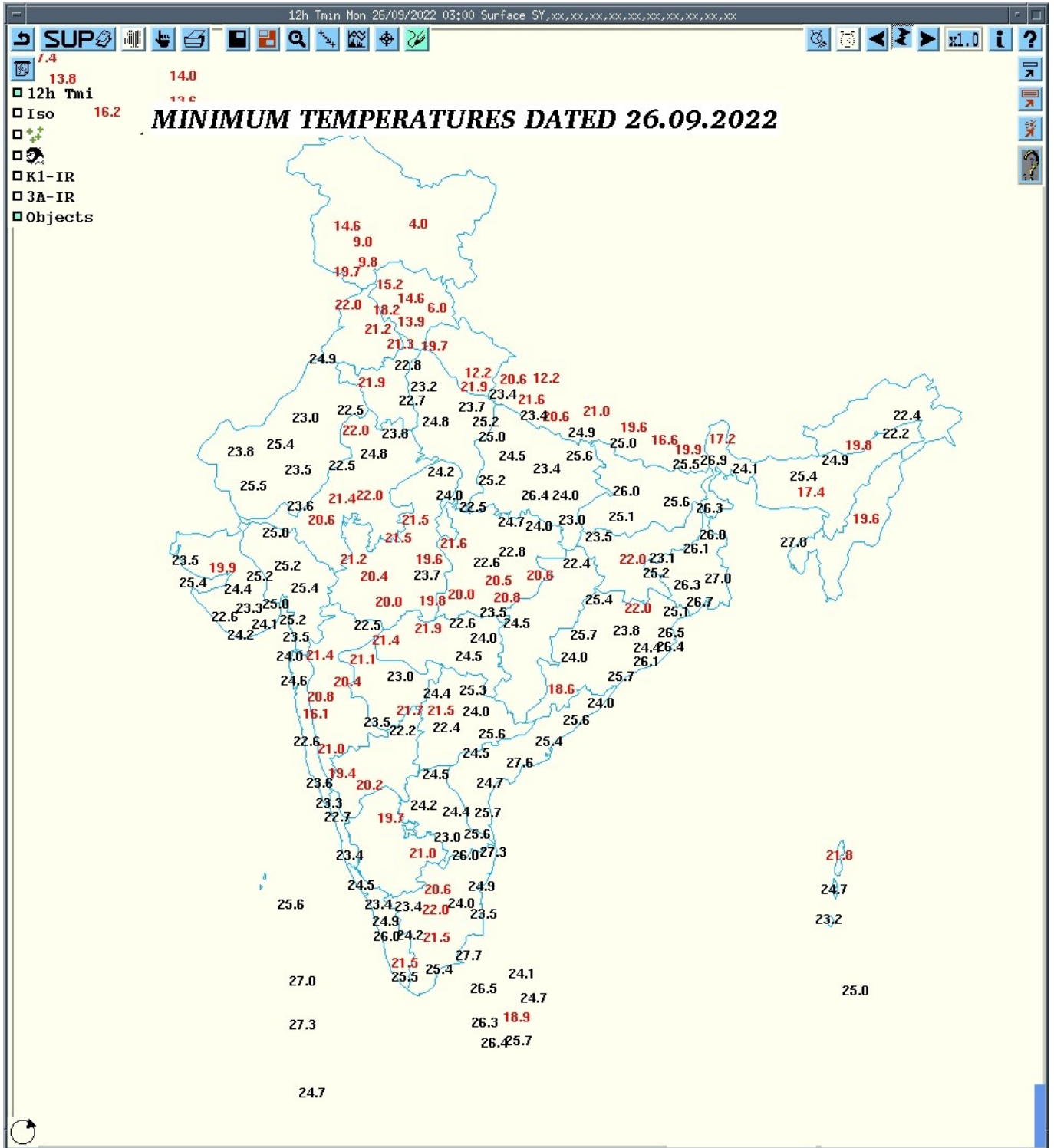
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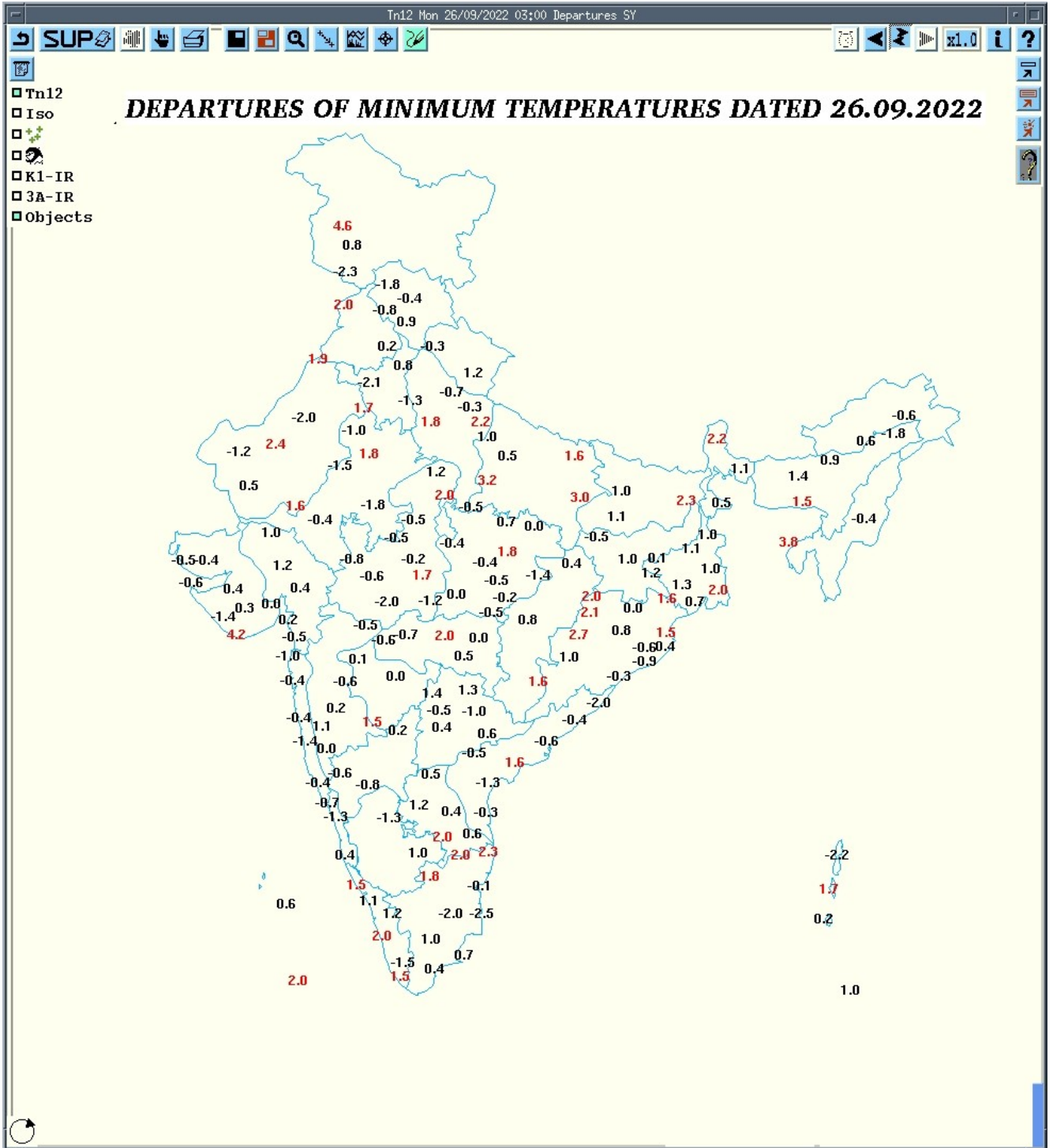
Fig. 4: Minimum Temperature during past 24 hours



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Fig. 6 : Departure from Normal of Minimum Temperatures



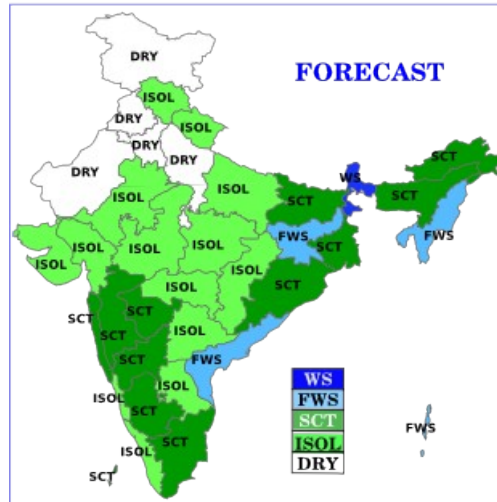
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Tuesday 27 September 2022



27 Sept (Day 1): ♦ **Heavy rainfall** at isolated places very likely over Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

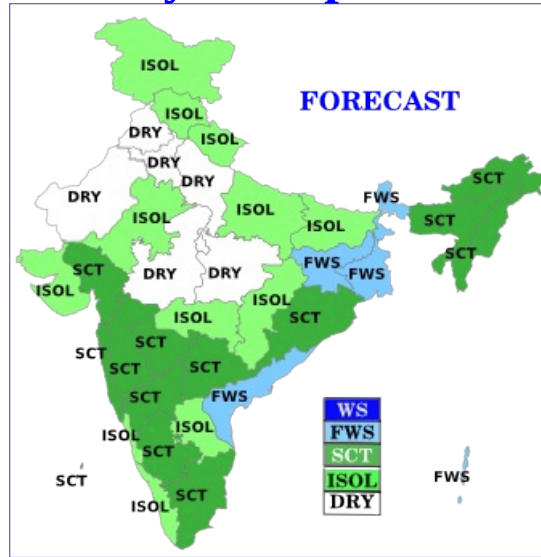
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Wednesday 28 September 2022



28 Sept (Day 2): ♦ **Heavy rainfall** at isolated places very likely over Odisha, Assam, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Gangetic West Bengal, Odisha, Gujarat State, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, along and off south Sri Lanka coast, south Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

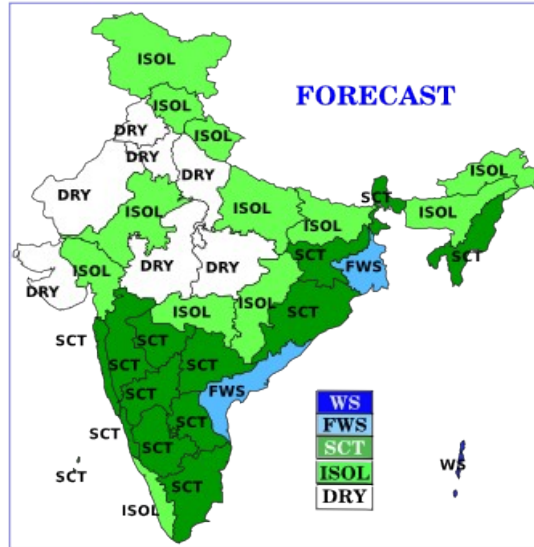
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Thursday 29 September 2022



29 Sept (Day 3): ♦ Heavy rainfall at isolated places likely over Odisha, Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, along and off south Sri Lanka coast, southeast Bay of Bengal and adjoining south Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

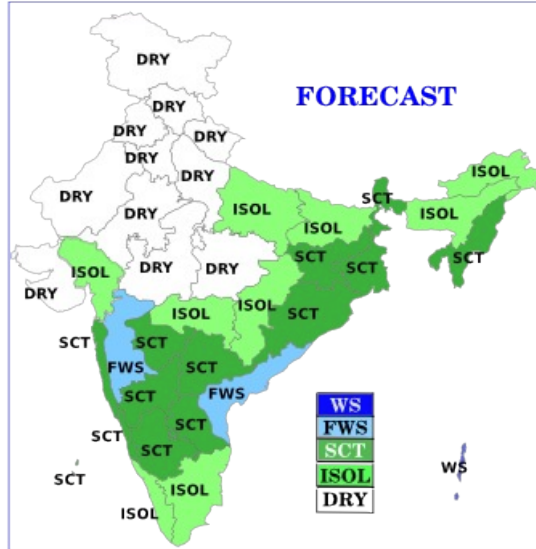
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Friday 30 September 2022



30 Sept (Day 4): ♦ Heavy rainfall at isolated places likely over Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, along and off Sri Lanka coast, southeast Bay of Bengal and adjoining south Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast, central parts of southwest Bay of Bengal and parts of south Andaman Sea. Fishermen are advised not to venture into these seas.

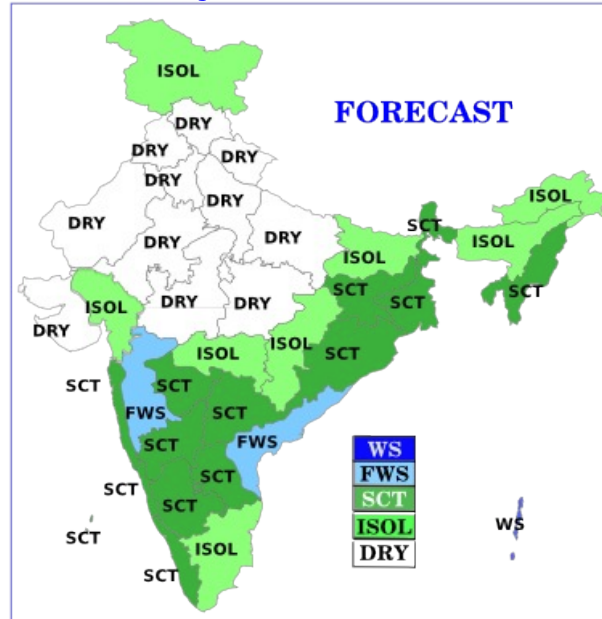
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Saturday 01 October 2022



01 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Andaman & Nicobar Islands and Coastal Andhra Pradesh & Yanam.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over southwest Bay of Bengal, along and off Sri Lanka coast, southeast Bay of Bengal and adjoining south Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast, Gulf of Mannar and adjoining Comorin area, along and off south Sri Lanka coast, central parts of southwest Bay of Bengal and parts of south Andaman Sea. Fishermen are advised not to venture into these seas.

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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 एवं सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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

* 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

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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)

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