



Monday 19 September 2022

MORNING

Time of Issue: 0815 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Withdrawal of Southwest Monsoon

□ Due to anti-cyclonic flow over northwest India at lower tropospheric levels, dry weather is very likely over West Rajasthan, Punjab, Haryana, Chandigarh & Delhi during next 05 days. Hence conditions are becoming favorable for withdrawal of Southwest Monsoon from parts of Northwest India during next 2 days.

Weather systems, rainfall/thunderstorm Forecast & Warnings:

□ A cyclonic circulation lies over Northwest & adjoining Westcentral Bay of Bengal in lower & middle tropospheric levels. Under its influence, a Low Pressure Area is likely to form over northwest & adjoining westcentral Bay of Bengal off Odisha-West Bengal coasts during next 24 hours.

□ The Monsoon trough lies near its normal position and its eastern ends likely to shift southwards gradually from today, the 19th September, 2022.

□ A cyclonic circulation lies over northeast Uttar Pradesh & neighbourhood in lower tropospheric levels.

□ A Western Disturbance seen as a trough in mid-tropospheric westerlies with its axis in middle tropospheric levels runs roughly along Long.76°E to the north of Lat. 30°N.

□ Under their influence:

o Fairly Widespread/Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Odisha during 19th-21st; Andaman & Nicobar Islands on 19th; Jharkhand on 20th; Gangetic West Bengal on 20th & 21st; Sub-Himalayan West Bengal & Sikkim on 22nd; Chhattisgarh, Vidarbha and East Madhya Pradesh during 20th-23rd; West Madhya Pradesh on 22nd & 23rd September, 2022. **Isolated very heavy rainfall also likely over Odisha during 19th-21st September, 2022.**

o Fairly Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Coastal Andhra Pradesh & Yanam and Telangana during 19th-21st September, 2022.

o Scattered light/moderate rainfall with **isolated thunderstorm/lightning** very likely over West Uttar Pradesh on 19th; Uttarakhand and East Uttar Pradesh during next 5 days.

o Fairly Widespread light/moderate rainfall with **isolated heavy falls & thunderstorm/lightning** very likely over Assam & Meghalaya during 19th-21st September, 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 Jharkhand, Odisha, Konkan & Goa and Coastal Karnataka; at a few places over Chhattisgarh, Andaman & Nicobar Islands and Uttarakhand and at isolated places over Himachal Pradesh, Uttar Pradesh, East Madhya Pradesh, Vidarbha, West Bengal & Sikkim, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Madhya Maharashtra, Gujarat region, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal.

◆ **Heavy Rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Very heavy rainfall occurred at isolated places over Andaman & Nicobar Islands.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday) (1 cm or more):** Maya Bandar-12; Matheran-5; Mumbai (Santacruz) and Sambalpur-2 each; Nasik, Mahabaleshwar, Jabalpur, Bhubaneswar, Cherrapunji, Muzaffarpur, Rajnandgaon, Koraput, Cuttack, Dahanu and Long Island-1 each.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Odisha, East Uttar Pradesh, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal.

◆ **Minimum Temperature Departures (as on 18-09-2022):** Minimum temperatures were above normal (1.6°C to 3.0°C) at many places over Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim and Bihar; at isolated places over West Uttar Pradesh, West Rajasthan, Odisha, Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at isolated places over West Madhya Pradesh and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 20.9°C was reported at Mandla (East Madhya Pradesh) over the plains of the country.

◆ **Maximum Temperature Departures (as on 18-09-2022):** Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Assam & Meghalaya and Arunachal Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim; at isolated places over Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at a few places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Gangetic West Bengal, Telangana, Rayalaseema, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Andaman & Nicobar Islands; at isolated places over Konkan & Goa; below normal (-1.6°C to -3.0°C) at a few places over Gujarat region and Madhya Maharashtra; at isolated places over East Uttar Pradesh and West Rajasthan and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.7°C was reported at Pilani (East Rajasthan) over the plains of the country.

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Meteorological Analysis (Based on 0530 hours IST)

- ◆ Due to anti-cyclonic flow over northwest India at lower tropospheric levels, dry weather is very likely over West Rajasthan, Punjab, Haryana, Chandigarh & Delhi during next 05 days. Hence, conditions are becoming favorable for withdrawal of Southwest Monsoon from parts of Northwest India during next 2 days.
- ◆ The **Monsoon Trough** at mean sea level now passes through Ganganagar, Delhi, Bareilly, Varanasi, Daltonganj, Balasore and thence southeastwards to Eastcentral Bay of Bengal.
- ◆ The cyclonic circulation over northeast Uttar Pradesh extending upto 3.1 km above mean sea level persists.
- ◆ The cyclonic circulation over North & adjoining Central Bay of Bengal now lies over Northwest & adjoining Westcentral 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 Northwest & adjoining Westcentral Bay of Bengal off Odisha-West Bengal coasts during next 24 hours.
- ◆ The **Western Disturbance** as a trough in mid-tropospheric westerlies with its axis between 5.8 & 7.6 km above mean sea level now runs roughly along Long.76°E to the north of Lat. 30°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 24th September, 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 24th-26th September, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall activity likely over Uttarakhand, East Uttar Pradesh, Central, East & Northeast India.
- ◆ Isolated to scattered light/moderate rainfall activity likely over rest parts of the country except over most parts of Northwest India and south Peninsular India where dry weather is likely.

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(Circle to the Meteorology 1077)

Weather Warning during next 5 days *

19 Sept (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana.

♦**Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Central Bay of Bengal adjoining north Bay of Bengal. **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, West Central adjoining East Central Bay of Bengal, and south of Northeast Bay of Bengal. Fishermen are advised not to venture into these seas.

20 Sept (Day 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana.

♦**Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is likely over Central Bay of Bengal adjoining North Bay of Bengal. Fishermen are advised not to venture into these seas.

21 Sept (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over Odisha; **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam and Telangana.

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

22 Sept (Day 4): ♦ Heavy rainfall at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh and Sub-Himalayan West Bengal & Sikkim.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathawada, Coastal Andhra Pradesh & Yanam and Telangana.

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

23 Sept (Day 5): ♦ Heavy rainfall at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, north Madhya Maharashtra, East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim.

♦**Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, East Rajasthan, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathawada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. 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)
19-September-2022

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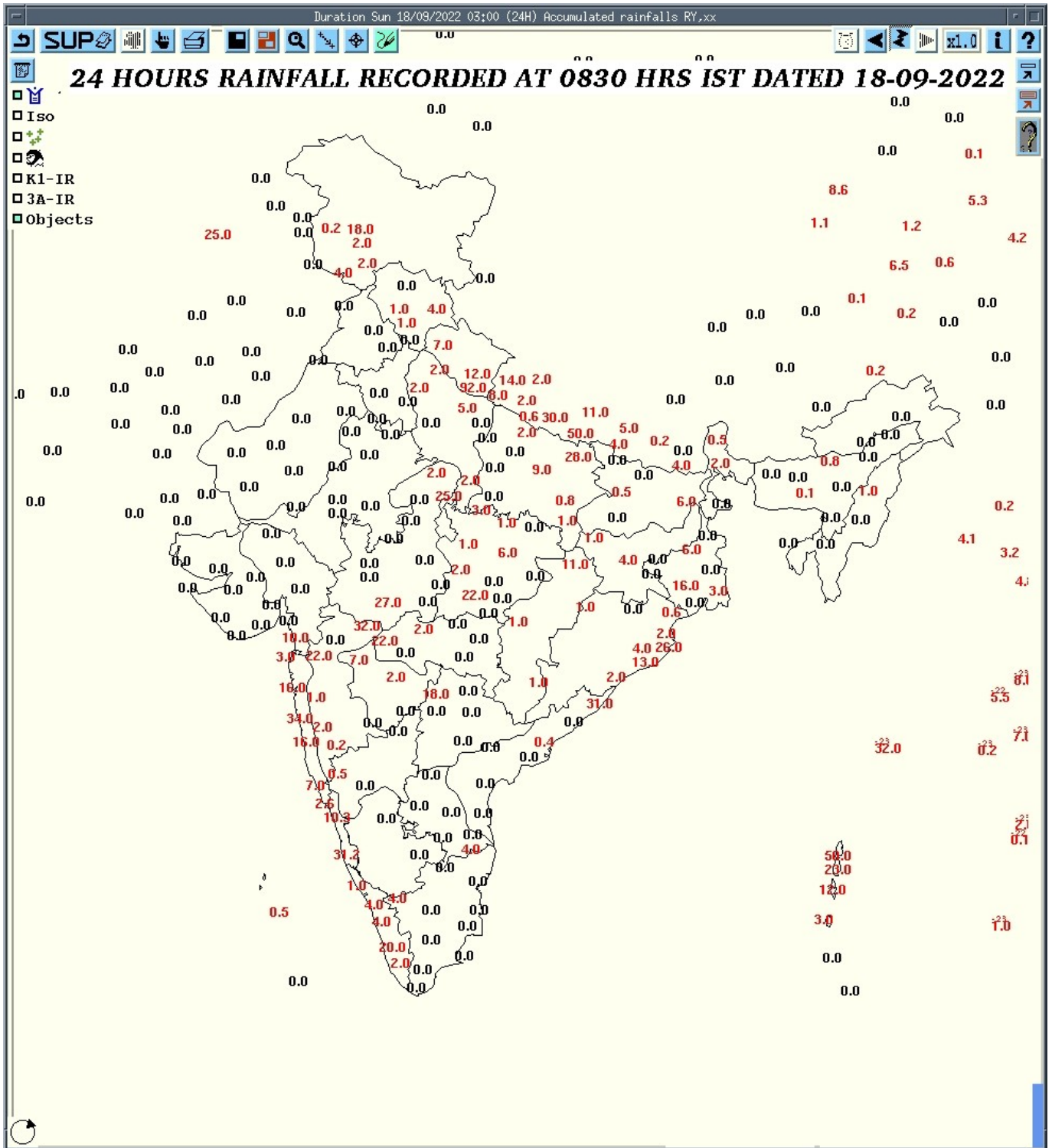
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Fig. 1: Accumulated Rainfall (mm) during past 24 hours



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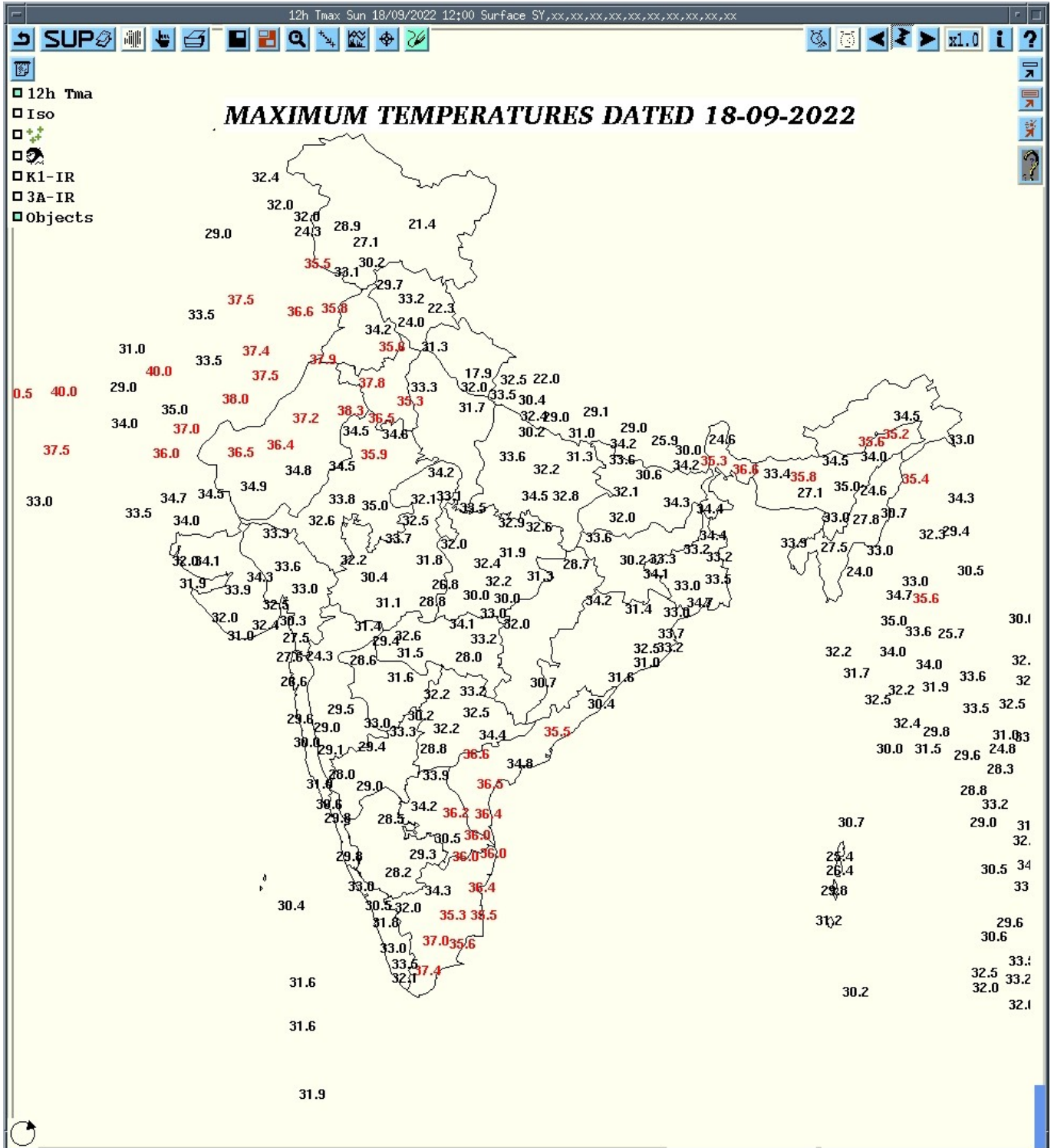
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Fig. 2: Maximum Temperature during past 24 hours



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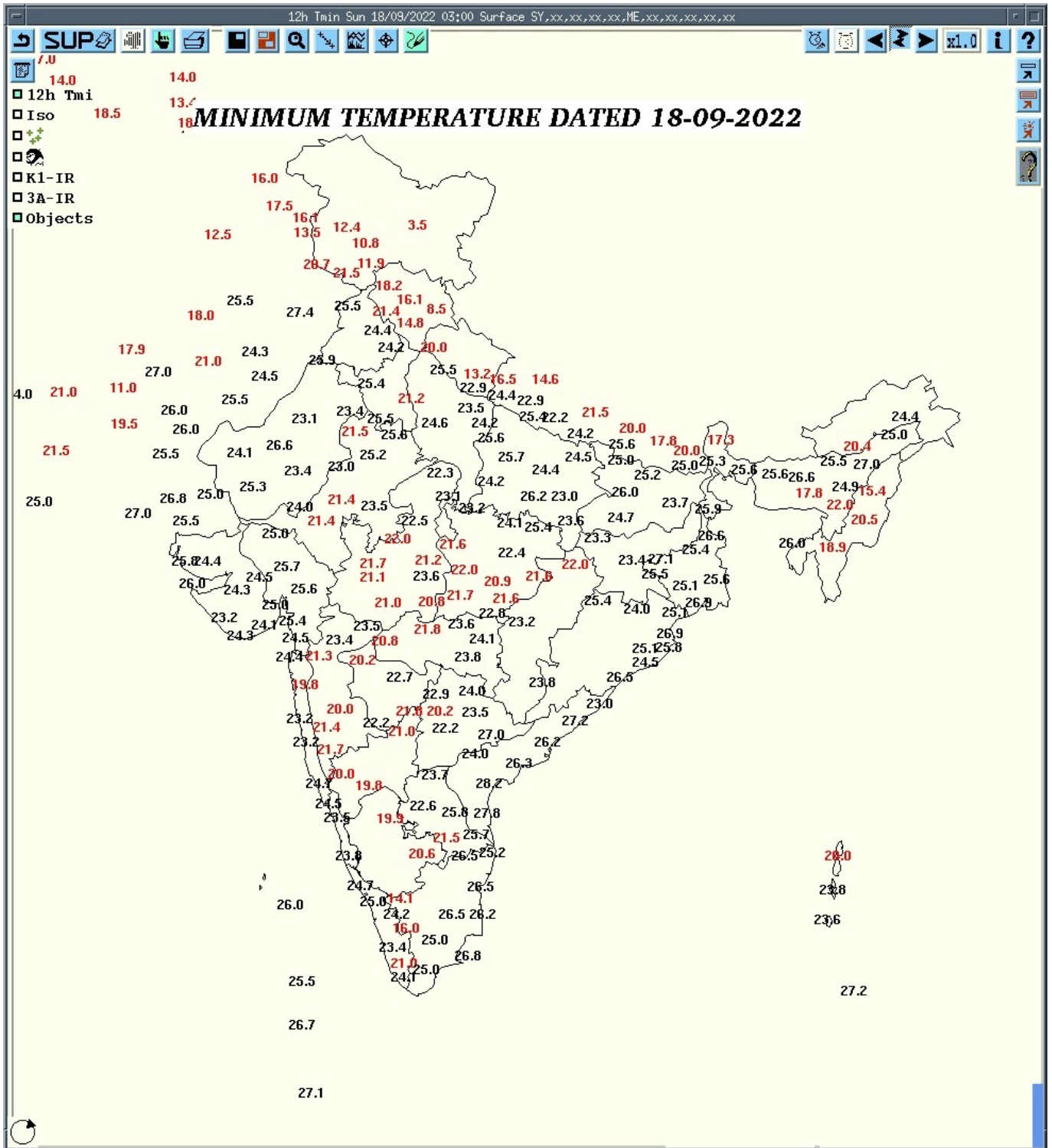
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Fig. 3: Minimum Temperature during past 24 hours



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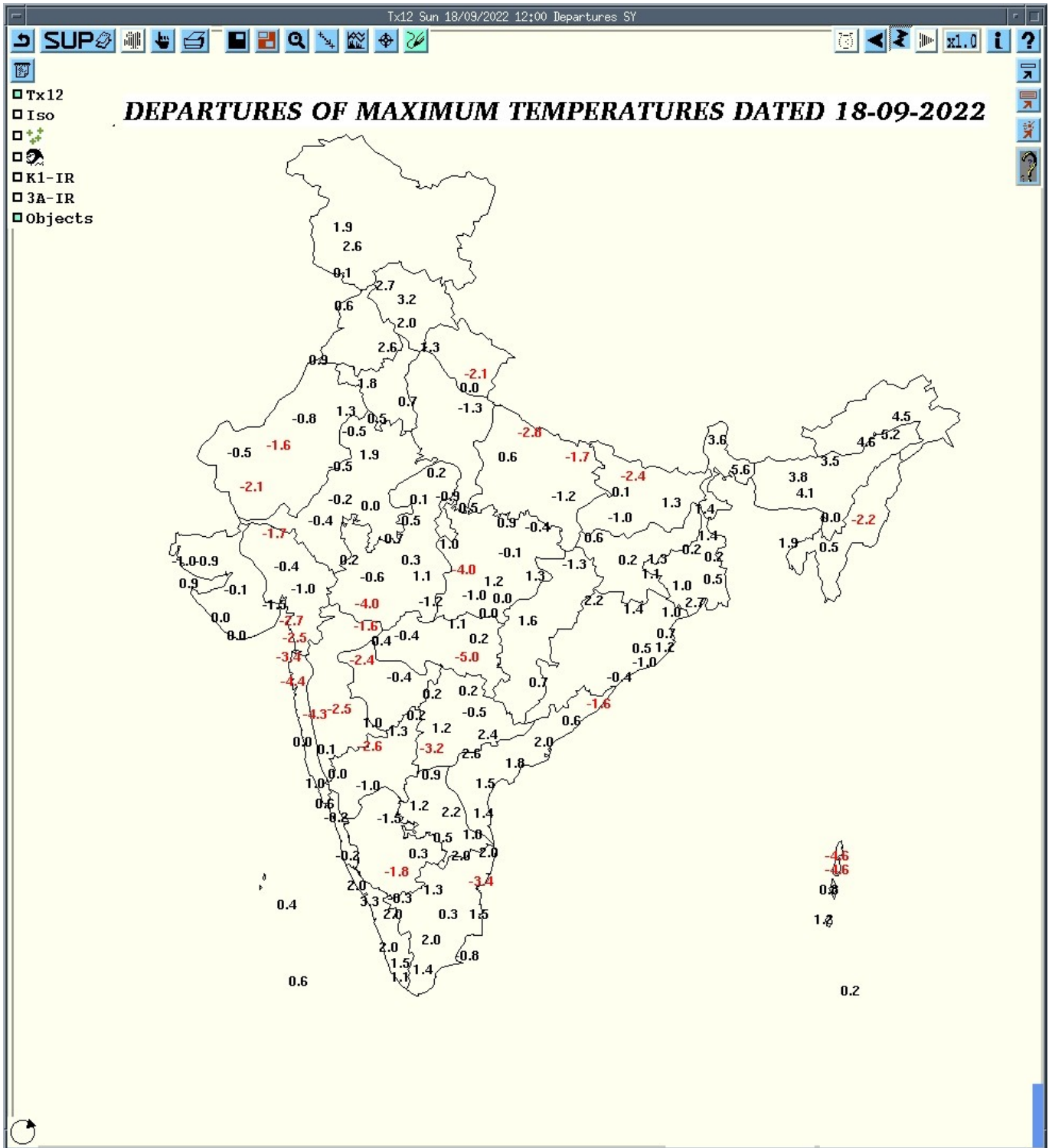
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(Created by the MetInfo class 1977)



Fig. 4 : Departure from Normal of Maximum Temperatures



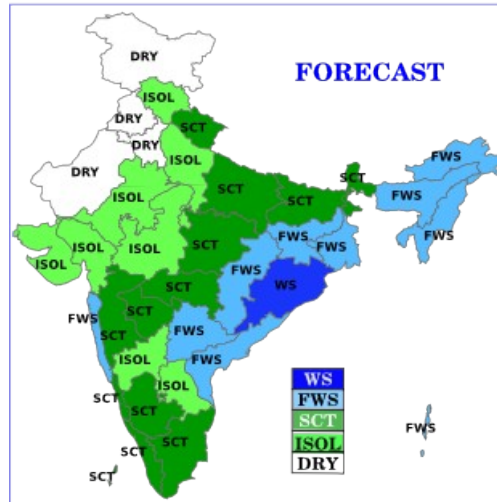
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Monday 19 September 2022



19 Sept (Day 1): ♦ Heavy to very heavy rainfall at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana.

♦**Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, Uttar Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over Central Bay of Bengal adjoining north Bay of Bengal. **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, West Central adjoining East Central Bay of Bengal, and south of Northeast Bay of Bengal. Fishermen are advised not to venture into these seas.

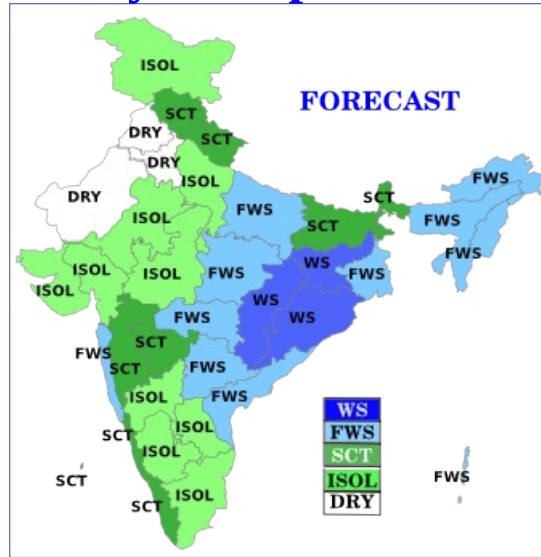
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Tuesday 20 September 2022



20 Sept (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Odisha; **heavy rainfall** at isolated places over Chhattisgarh, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Uttarakhand, East Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathawada, Coastal Andhra Pradesh & Yanam, Telangana and Kerala & Mahe.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is likely over Central Bay of Bengal adjoining North Bay of Bengal. Fishermen are advised not to venture into these seas.

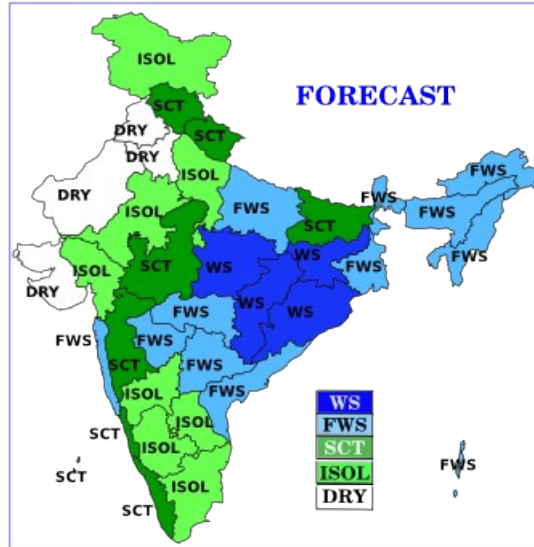
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Wednesday 21 September 2022



21 Sept (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over Odisha; **heavy rainfall** at isolated places over East Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

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

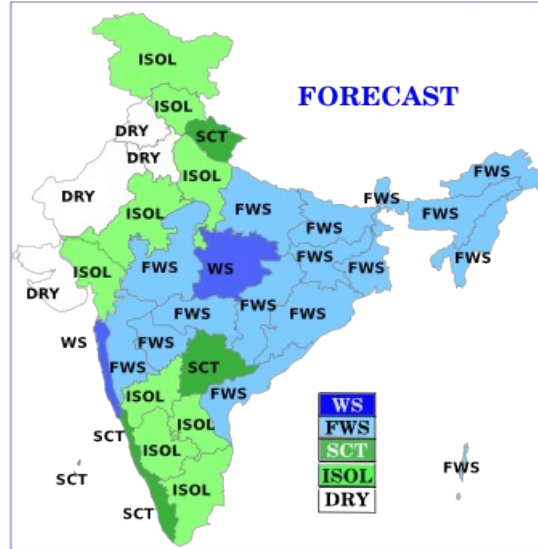
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Thursday 22 September 2022



22 Sept (Day 4): ♦ **Heavy rainfall** at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh and Sub-Himalayan West Bengal & Sikkim.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, East Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathawada, Coastal Andhra Pradesh & Yanam and Telangana.

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

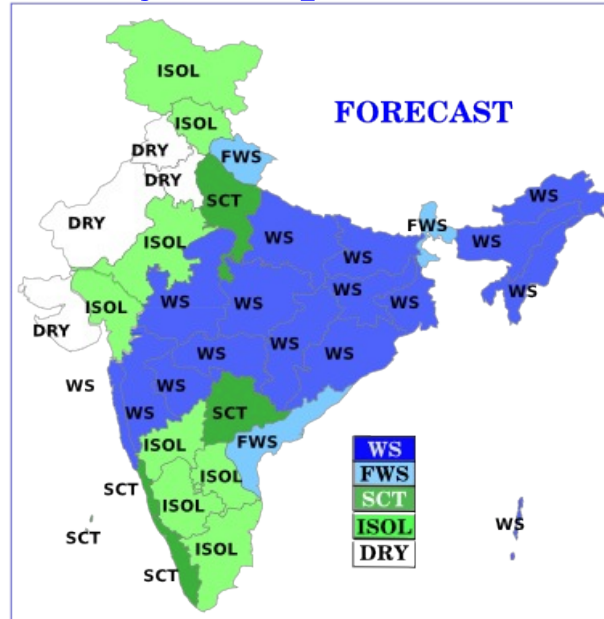
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Friday 23 September 2022



23 Sept (Day 5): ♦ Heavy rainfall at isolated places likely over Madhya Pradesh, Vidarbha, Chhattisgarh, north Madhya Maharashtra, East Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Uttarakhand, East Rajasthan, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Marathawada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph likely over southwest and adjoining west-central Arabian Sea, along and off Somalia coast. 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 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 एंवम् 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

* 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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(Copies to the Meteorologist (GPO))

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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