



Thursday 29 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 days.

◆ **Weather systems, rainfall/thunderstorm Forecast & Warnings:**

⇒ A cyclonic circulation lies over Westcentral Bay of Bengal off Andhra Pradesh coast in lower tropospheric levels.

⇒ An east-west trough runs from north Andaman Sea to Andhra Pradesh coast across Central Bay of Bengal at 3.1 km above mean sea level.

⇒ A cyclonic circulation is likely to emerge into northeast & adjoining eastcentral Bay of Bengal around 01st October, 2022.

◆ **Under the influence of above systems:**

(i) Scattered to fairly widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Tamilnadu, Puducherry & Karaikal on 29th and over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and North Interior Karnataka on 29th & 30th September, 2022.

(ii) Scattered to fairly widespread light/moderate rainfall with **isolated heavy falls** very likely over Odisha on 29th September and during 01st- 03rd October and over Jharkhand & Gangetic West Bengal on 02nd & 03rd October, 2022.

(iii) Scattered to fairly widespread light/moderate rainfall with **isolated heavy falls** & thunderstorm/lightning very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 02nd October, 2022.

Main Weather Observations

◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at many places over Chhattisgarh, Gangetic West Bengal, Andaman & Nicobar Islands; at a few places over Vidarbha, Assam & Meghalaya, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema and North Interior Karnataka and at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Rajasthan, Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Marathwada and Tamil Nadu, Puducherry & Karaikal. Dry weather are rest parts of the Country.

◆ **Heavy rainfall recorded (from 0830 hours IST to 1730 hours IST of yesterday):** Heavy rainfall at isolated places occurred over Rayalaseema.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Nandyal-7; Dehradun, Midnapur, Haldia, Raipur & Numgambakkam-3 each; Narsapur-2.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Bihar, Jharkhand, Gangetic West Bengal, Chhattisgarh, Vidarbha, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamilnadu, Puducherry & Karaikal.

◆ **Minimum Temperature Departures (as on 28-09-2022):** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan and Sub-Himalayan West Bengal & Sikkim; at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, West Madhya Pradesh and Tamil Nadu, Puducherry & Karaikal; at isolated places over East Uttar Pradesh, East Madhya Pradesh, Gangetic West Bengal and Gujarat Region and near normal over rest parts of the country. Yesterday, the **lowest minimum temperature** of 20.2°C was reported at **Raisen (West Madhya Pradesh)** over the plains of the country.

◆ **Maximum Temperature Departures (as on 28-09-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at isolated places over Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at most places over Nagaland, Manipur, Mizoram & Tripura; at many places over Arunachal Pradesh and Kerala & Mahe; at a few places over Bihar, West Bengal & Sikkim, Odisha, Andaman & Nicobar Islands, Assam & Meghalaya, Madhya Maharashtra and Coastal Andhra Pradesh & Yanam. They were **below normal (-1.6°C to -3.0°C)** at a few places over Gujarat State; at isolated places over Rajasthan and near normal over rest parts of the country. Yesterday, the **highest maximum temperature** of 37.6°C was reported at **Bikaner(West Rajasthan)** 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 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 days.
- ◆ The cyclonic circulation over Westcentral Bay of Bengal off Andhra Pradesh coast extending upto 1.5 km above mean sea level persists.
- ◆ The east-west trough from north Andaman Sea to Andhra Pradesh coast across Central Bay of Bengal at 3.1 km above mean sea level persists.
- ◆ A cyclonic circulation is likely to emerge into northeast and adjoining eastcentral Bay of Bengal around 1st October, 2022.

Weather Forecast for next 5 days * upto 0830 hours IST of 04th 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 04th October-06th 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 *

29 Sept (Day 1): ♦ Heavy rainfall at isolated places very likely over Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦**Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places very likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

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

30 Sept (Day 2): ♦ Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and North Interior Karnataka.

♦**Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places very likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

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

01 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over Odisha and Madhya Maharashtra.

♦**Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Gangetic West Bengal, 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 southeast Bay of Bengal and adjoining southwest Bay of Bengal, along and off south Sri Lanka coast, Andaman Sea. **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal and adjoining southeast, west-central and east-central Bay of Bengal, along and off south Tamil Nadu and Sri Lanka coasts. Fishermen are advised not to venture into these seas.

02 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Madhya Maharashtra, Marathwada and Konkan & Goa.

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

03 Oct (Day 5): ♦ Heavy rainfall at isolated places likely over Jharkhand, Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Madhya Maharashtra, Marathwada and Konkan & Goa.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over south Bay of Bengal, along and off south Sri Lanka coast, Andaman Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal, along and off south Sri Lanka coast, east-central and adjoining north Andaman Sea, northeast Bay of Bengal along and off north Myanmar 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)
29-September-2022

Met-Sub-Division	29-Sep Today	30Sep Fri	01Oct Sat	02Oct Sun	03Oct Mon
1. Andaman & Nicobar Islands	WS	WS	WS	WS	WS
2. Arunachal Pradesh	SCT	ISOL	ISOL	ISOL	ISOL
3. Assam & Meghalaya	SCT	ISOL	ISOL	SCT	SCT
4. N. M. M. & T.	SCT	SCT	SCT	SCT	SCT
5. S.H. West Bengal & Sikkim	SCT	SCT	ISOL	ISOL	ISOL
6. Gangetic West Bengal	SCT	SCT	SCT	FWS	FWS
7. Odisha	SCT	SCT	FWS	FWS	FWS
8. Jharkhand	SCT	SCT	SCT	FWS	FWS
9. Bihar	ISOL	ISOL	ISOL	SCT	SCT
10. East Uttar Pradesh	DRY	DRY	DRY	ISOL	ISOL
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	ISOL	DRY	DRY	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	DRY	DRY	DRY	DRY
15. Himachal Pradesh	ISOL	DRY	DRY	DRY	DRY
16. J & K and Ladakh	ISOL	ISOL	ISOL	ISOL	ISOL
17. West Rajsthan	ISOL	ISOL	DRY	DRY	DRY
18. East Rajasthan	ISOL	ISOL	DRY	DRY	DRY
19. West Madhya Pradesh	ISOL	ISOL	DRY	DRY	DRY
20. East Madhya Pradesh	ISOL	ISOL	DRY	DRY	DRY
21. Gujarat Region	ISOL	ISOL	ISOL	ISOL	ISOL
22. Saurashtra & Kutch	ISOL	DRY	DRY	DRY	DRY
23. Konkan & Goa	SCT	FWS	FWS	FWS	FWS
24. Madhya Maharashtra	SCT	FWS	FWS	SCT	SCT
25. Marathawada	SCT	SCT	ISOL	ISOL	ISOL
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	SCT	SCT	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	FWS	FWS	FWS	SCT	SCT
29. Telangana	FWS	FWS	SCT	ISOL	ISOL
30. Rayalaseema	FWS	FWS	FWS	SCT	SCT
31. T.N.,Puducherry & Karaikal	SCT	ISOL	ISOL	ISOL	ISOL
32. Coastal Karnataka	SCT	SCT	SCT	SCT	SCT
33. North Interior Karnataka	SCT	SCT	SCT	ISOL	ISOL
34. South Interior Karnataka	SCT	SCT	SCT	ISOL	ISOL
35. Kerala & Mahe	ISOL	ISOL	ISOL	ISOL	ISOL
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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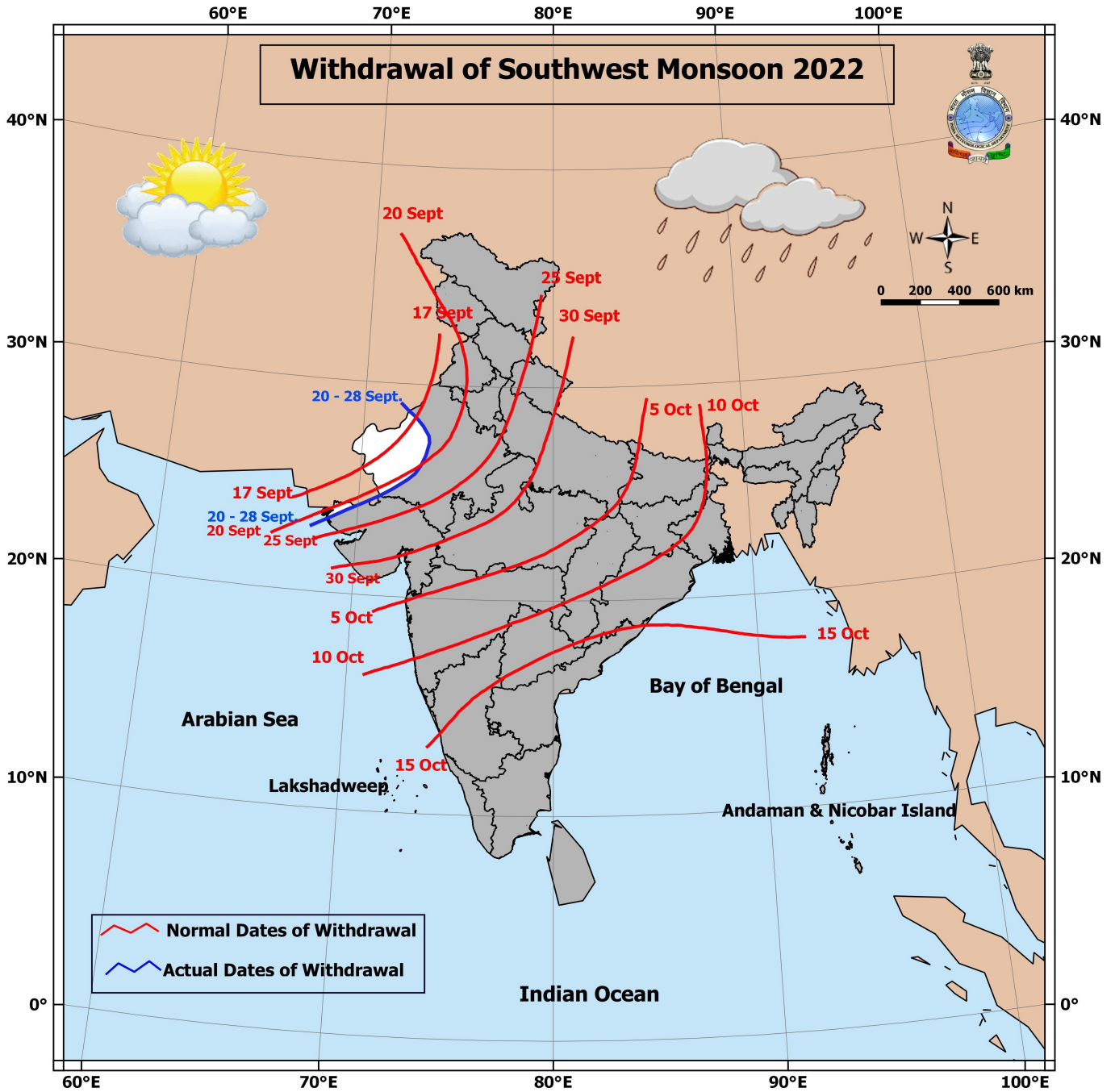
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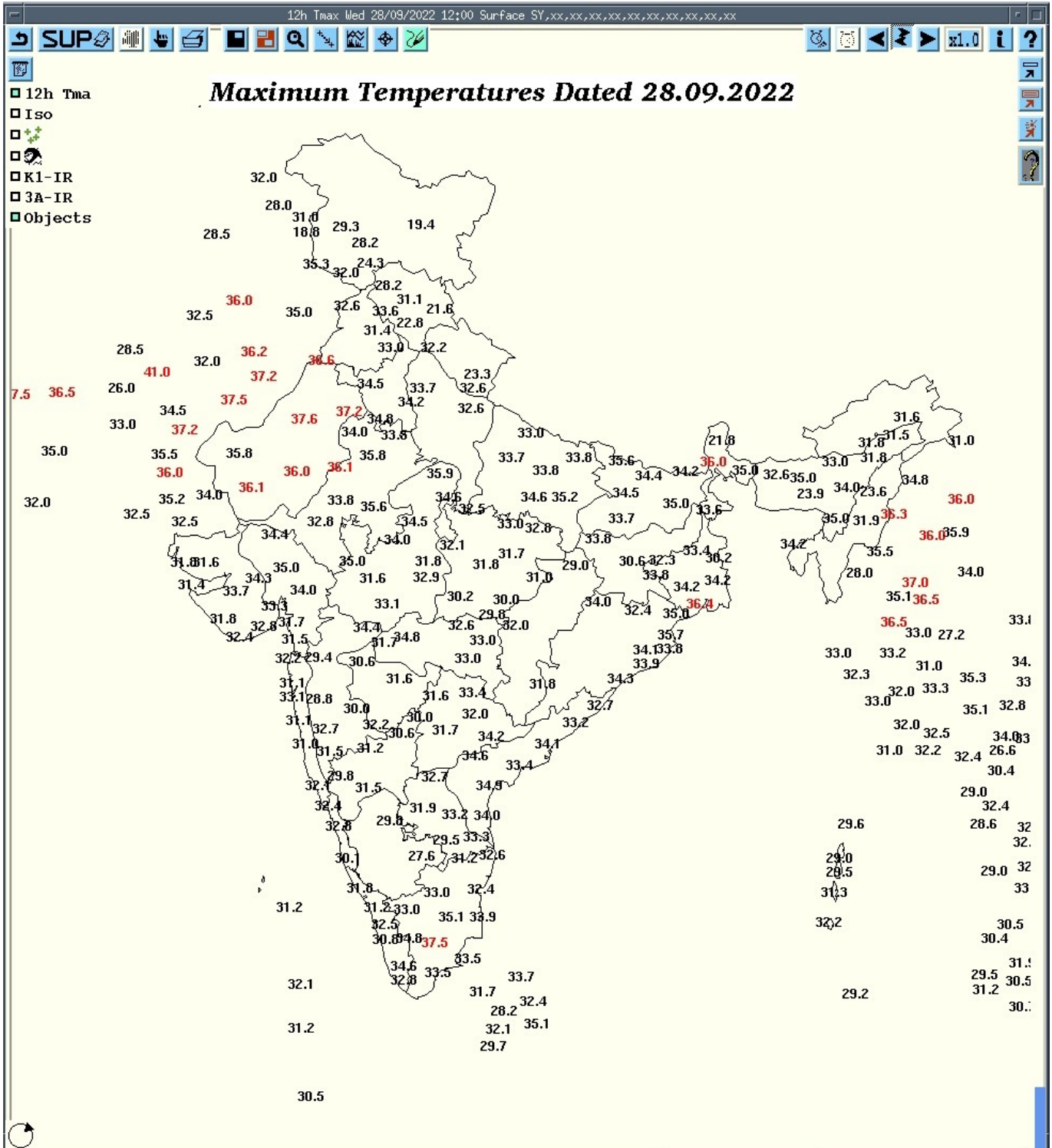
Fig.1 Withdrawal of Southwest Monsoon 2022



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Fig. 3: Maximum Temperature during past 24 hours



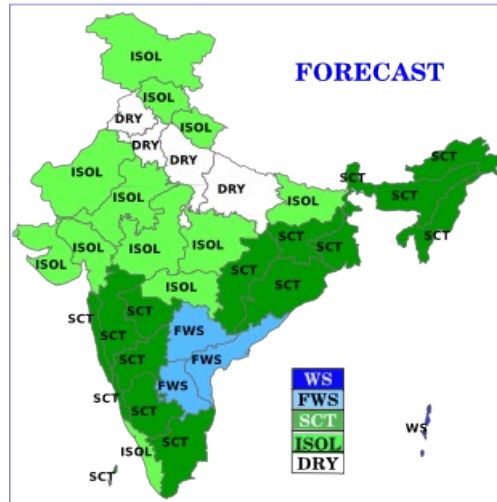
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(Created by the National class 10/20)

Thursday 29 September 2022



29 Sept (Day 1): ♦ Heavy rainfall at isolated places very likely over Odisha, Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦**Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places very likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, North Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

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

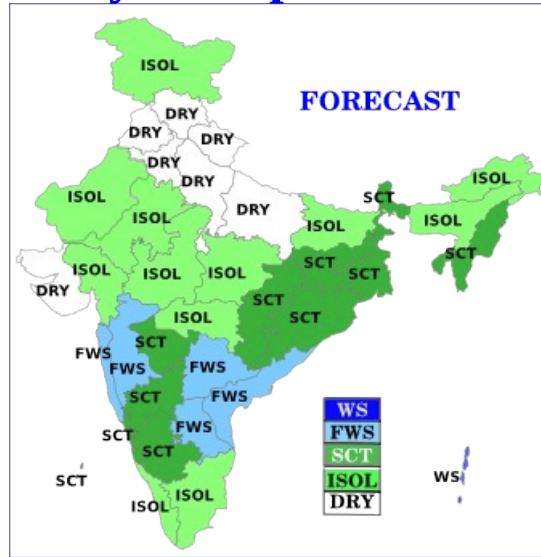
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Friday 30 September 2022



30 Sept (Day 2): ♦ Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and North Interior Karnataka.

♦**Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places very likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Chhattisgarh, Odisha, Madhya Maharashtra, Marathwada, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Tamil Nadu, Puducherry & Karaikal.

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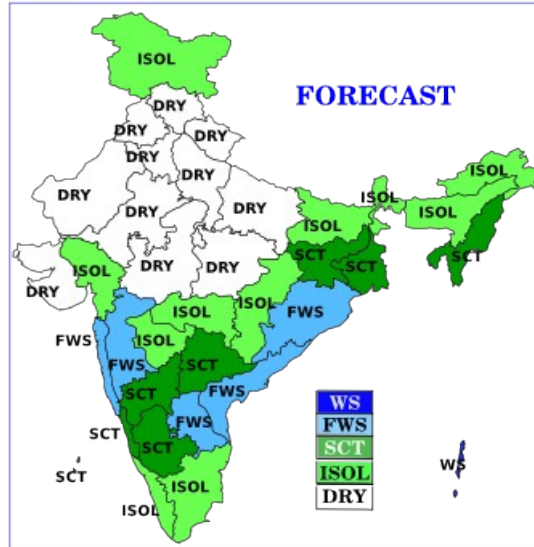
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Saturday 01 October 2022



01 Oct (Day 3): ♦ Heavy rainfall at isolated places likely over Odisha and Madhya Maharashtra.

♦Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph) at isolated places likely over Andaman & Nicobar Islands and with lightning at isolated places over Gangetic West Bengal, 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 southeast Bay of Bengal and adjoining southwest Bay of Bengal, along and off south Sri Lanka coast, Andaman Sea. Squally winds of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal and adjoining southeast, west-central and east-central Bay of Bengal, along and off south Tamil Nadu and Sri Lanka coasts. Fishermen are advised not to venture into these seas.

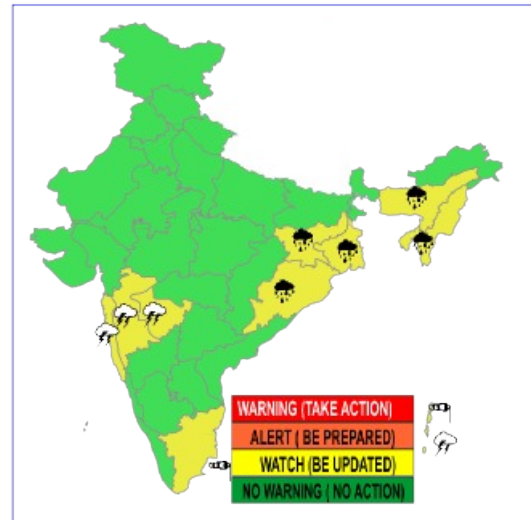
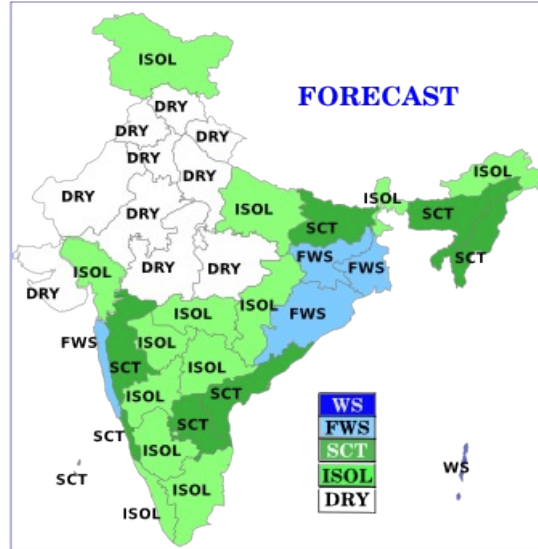
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Sunday 02 October 2022



02 Oct (Day 4): ♦ Heavy rainfall at isolated places likely over Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Madhya Maharashtra, Marathwada and Konkan & Goa.

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

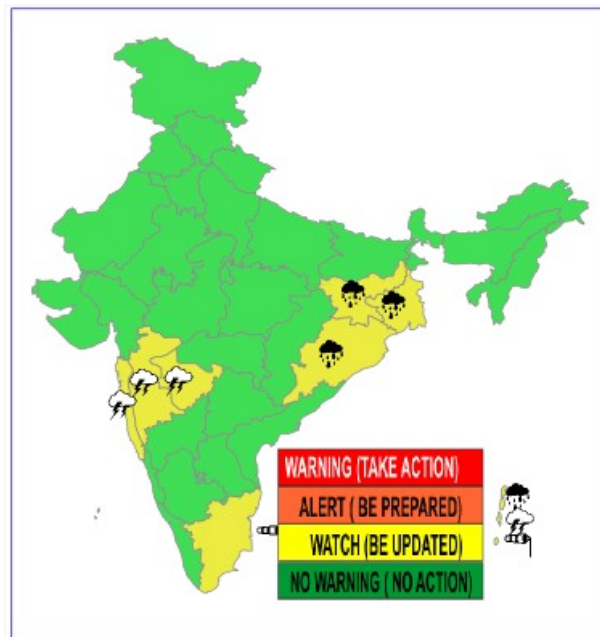
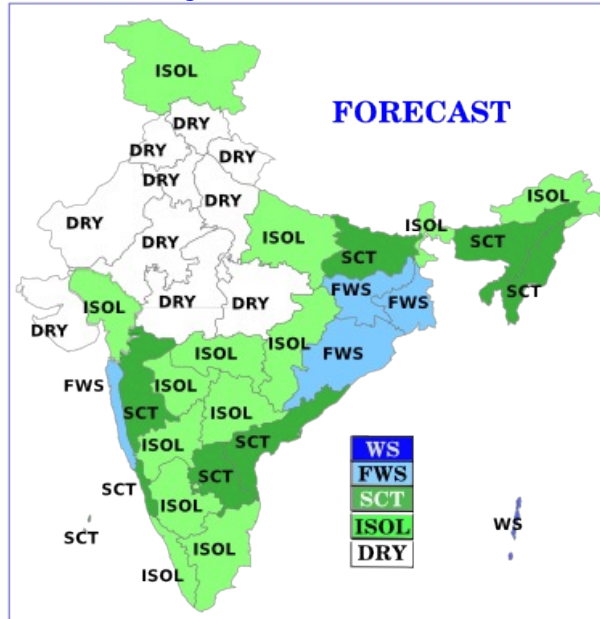
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Monday 03 October 2022



03 Oct (Day 5): ♦ **Heavy rainfall** at isolated places likely over Jharkhand, Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.

♦ **Thunderstorm accompanied with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places likely over Andaman & Nicobar Islands and **with lightning** at isolated places over Madhya Maharashtra, Marathwada and Konkan & Goa.

♦ **Squally weather** (wind speed 40-45 kmph gusting to 55 kmph) is very likely over south Bay of Bengal, along and off south Sri Lanka coast, Andaman Sea; **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest Arabian Sea, along and off Somalia coast, Gulf of Mannar, southwest Bay of Bengal, along and off south Sri Lanka coast, east-central and adjoining north Andaman Sea, northeast Bay of Bengal along and off north Myanmar 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 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

* 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 Media upto 1070)

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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