



Monday 26 September 2022

MORNING

Time of Issue: 0730 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ A cyclonic circulation lies over north Punjab & neighbourhood in lower to mid-tropospheric levels.
- ◆ A trough runs from cyclonic circulation over north Punjab & neighbourhood to southeast Bihar across Uttar Pradesh in lower tropospheric levels.
- ◆ A Western Disturbance as a trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long. 72°E to the north of Lat. 27°N.
- ◆ **Under the influence of above systems:**
 - Fairly widespread/widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Sub-Himalayan West Bengal & Sikkim on 27th & 28th and Gangetic West Bengal, Odisha, Bihar and Jharkhand on 30th September, 2022.
 - Fairly widespread/Widespread light/moderate rainfall with isolated **heavy falls & thunderstorm/lightning** very likely over Arunachal Pradesh on 26th and Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura on 26th & 27th September, 2022.

Main Weather Observations

- ◆ **Rainfall/thundershowers observed (from 0830 hours IST to 1730 hours IST of yesterday):** at most places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh; at a few places over Uttar Pradesh, Odisha, Jharkhand, Assam & Meghalaya and Arunachal Pradesh and at isolated places over Uttarakhand, Punjab, East Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal, Chhattisgarh, West Bengal & Sikkim and Andaman & Nicobar Islands.
- ◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday): (2 cm or more):** Sultanpur-6; Baderwah-5; Nahan-4; Solan-3; Una, Long Islands, Batote, Tuni, Keonjhar and Bhuntar-2 each.
- ◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Uttar Pradesh, Odisha, Jharkhand, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- ◆ **Minimum Temperature Departures (as on 25-09-2022):** Minimum temperatures were **markedly above normal (5.1°C or more)** at a few places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **above normal (1.6°C to 3.0°C)** at most places over Uttarakhand; at many places over Jharkhand, Sub-Himalayan West Bengal & Sikkim; at a few places over Himachal Pradesh and at isolated places over Saurashtra & Kutch, and Tamil Nadu, Puducherry & Karaikal. They were **below normal (-1.6°C to -3.0°C)** at many places over Coastal & North Interior Karnataka; at a few places over Telangana; at isolated places over 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 **Mandla (East Madhya Pradesh)** over the plains of the country.
- ◆ **Maximum Temperature Departures (as on 25-09-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Coastal Andhra Pradesh & Yanam and Kerala & Mahe and at isolated places over Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at a few places over Rayalaseema and Gangetic West Bengal and at isolated places over Odisha. They were **markedly below normal (-5.1°C or less)** at many places over Himachal Pradesh and Punjab; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and Haryana, Chandigarh & Delhi; at a few places over West Uttar Pradesh and at isolated places over East Uttar Pradesh and Madhya Pradesh; **below normal (-1.6°C to -3.0°C)** at many places over Rajasthan; at a few places over Assam & Meghalaya and Andaman & Nicobar Islands and at isolated places over Madhya Maharashtra and Vidarbha and near normal over rest parts of the country. **Yesterday, the highest maximum temperature of 38.6°C** was reported at **Phalodi (West Rajasthan)** over the plains of the country.

* 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

(Circle as the National Alert 1077)



Meteorological Analysis (Based on 0530 hours IST)

- ◆ The withdrawal line of Southwest Monsoon continues to pass through Khajuwala, Bikaner, Jodhpur and Naliya.
- ◆ The cyclonic circulation over north Punjab & neighbourhood extending upto 4.5 km above mean sea level persists.
- ◆ The east-west trough from the cyclonic circulation over north Punjab & neighbourhood to southeast Bihar across Haryana & Uttar Pradesh extending upto 1.5 km above mean sea level persists.
- ◆ The cyclonic circulation over Westcentral Bay of Bengal & neighbourhood extending upto 3.1 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 roughly along Long. 72°E to the north of Lat. 27°N persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 01st 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 01st October-03rd October, 2022

- ◆ Scattered to fairly widespread light/moderate rainfall activity likely over East, Northeast & north peninsular India.
- ◆ Isolated to scattered light/moderate rainfall activity likely over rest parts of the country except over parts of northwest & south Peninsular India where dry weather is likely.

Weather Warning during next 5 days *

26 Sept (Day 1): ♦ Heavy rainfall at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam and Tamil Nadu, 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, southwest Bay of Bengal off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

27 Sept (Day 2): ♦ Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **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 off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

28 Sept (Day 3): ♦ Heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam.

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

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

29 Sept (Day 4): ♦ Heavy rainfall at isolated places likely over Coastal Andhra Pradesh & Yanam.

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

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

30 Sept (Day 5): ♦ Heavy rainfall at isolated places likely over Odisha and north Coastal Andhra Pradesh.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Gangetic West Bengal, Odisha, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

♦ **Squally winds** of 45-55 kmph gusting to 65 kmph is likely over southwest 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.

* 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

(Circle as the National office 1077)



Table-1
5 Day Rainfall Forecast (MORNING)
26-September-2022

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

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

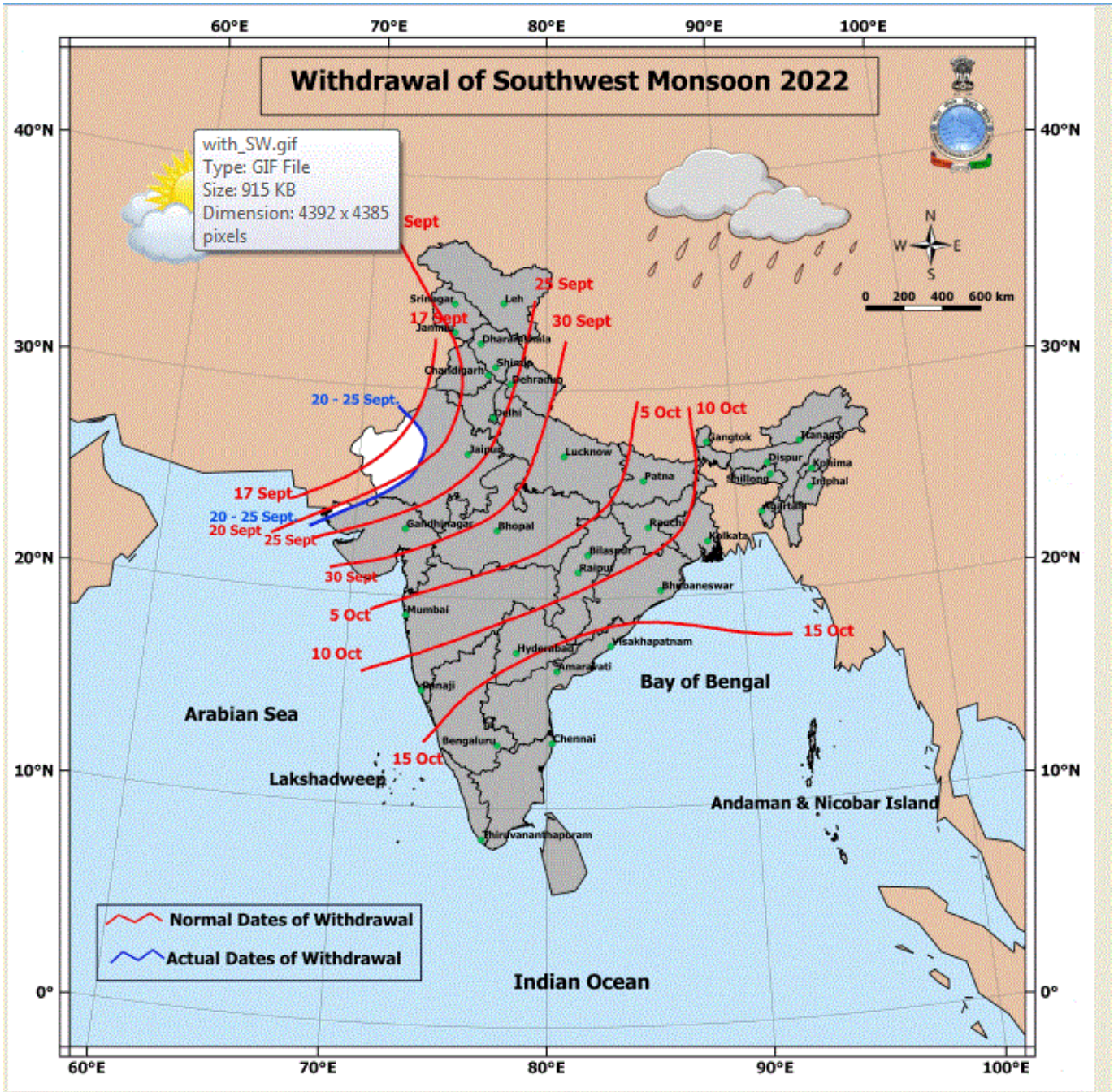
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Circle as the National flag)



Fig.1 Withdrawal of Southwest Monsoon 2022



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

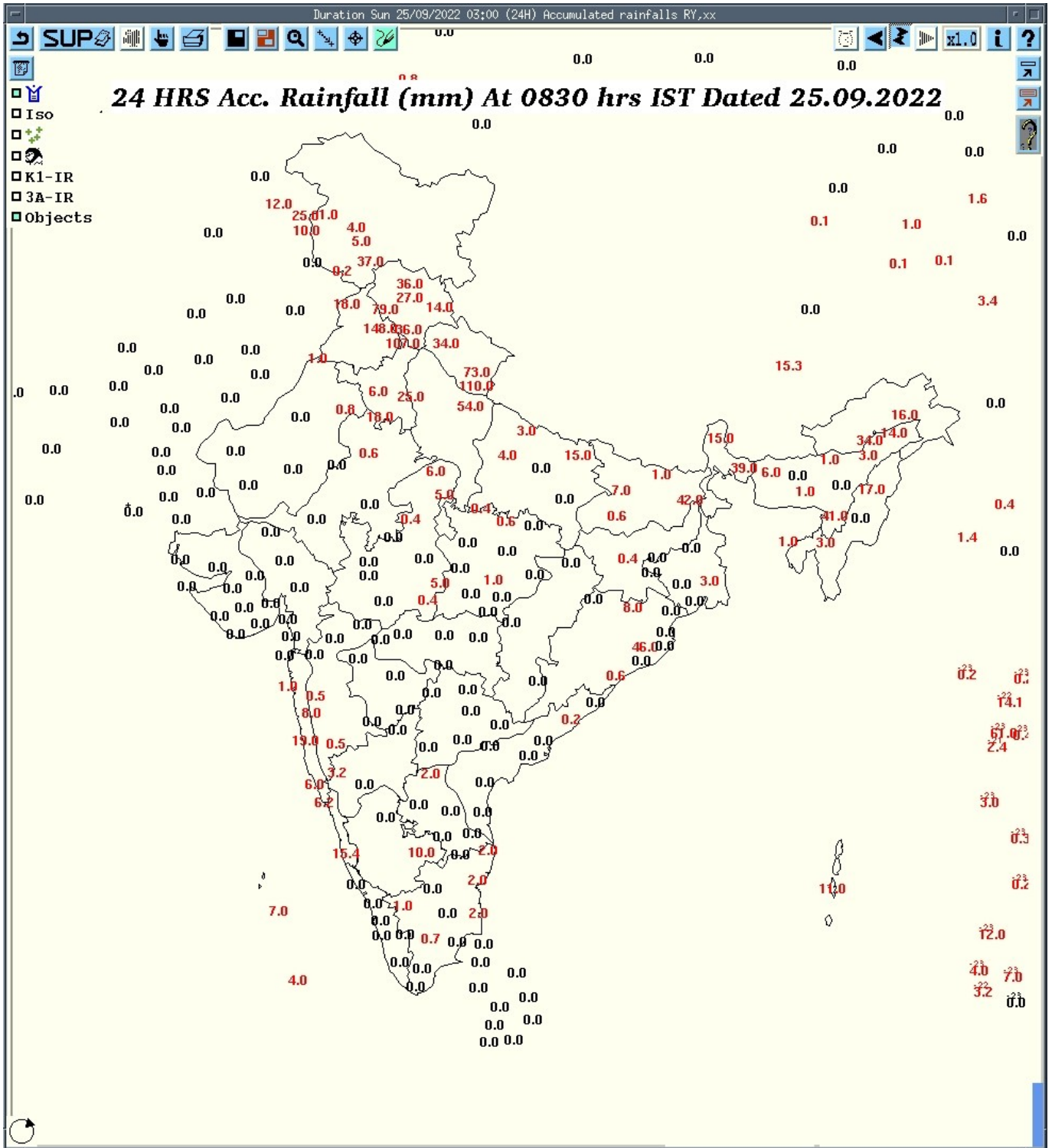
Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(Created by the Meteo-Info 4.07.0)



Fig. 2: Accumulated Rainfall (mm) during past 24 hours



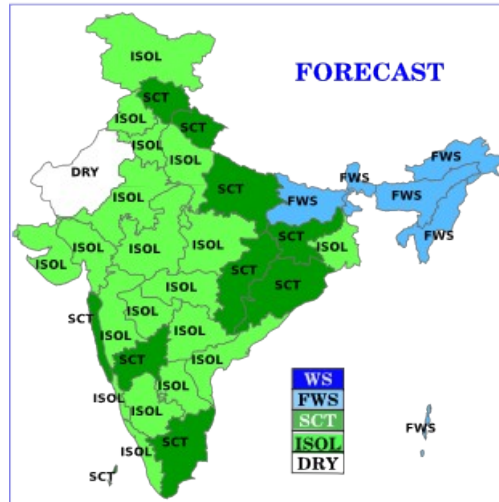
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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 MetInfo team 10/2022)

Monday 26 September 2022



26 Sept (Day 1): ♦ Heavy rainfall at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Marathwada, Coastal Andhra Pradesh & Yanam and Tamil Nadu, 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, southwest Bay of Bengal off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

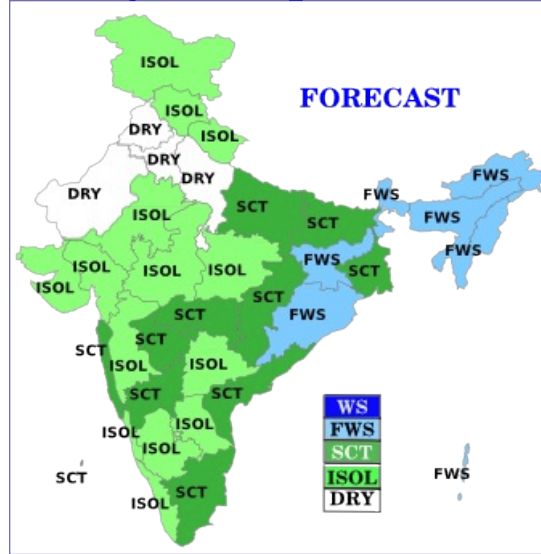
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

(Circle as the National flag 487)

Tuesday 27 September 2022



27 Sept (Day 2): ♦ **Heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Coastal Andhra Pradesh & Yanam

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana and Tamil Nadu, Puducherry & Karaikal.

♦ **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 off south Sri Lanka coast. Fishermen are advised not to venture into these seas.

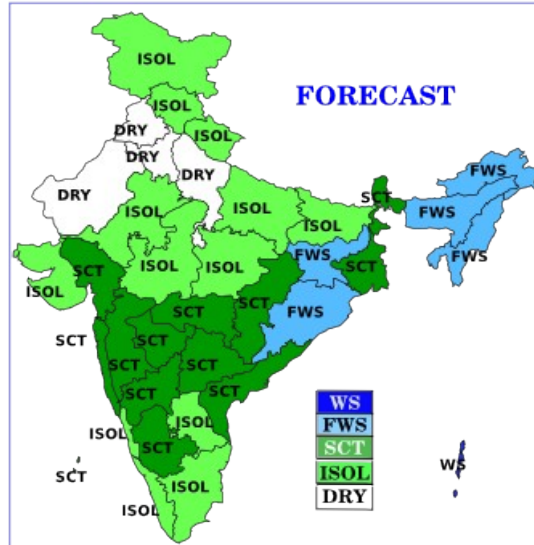
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

(Circle as the Nation since 1975)

Wednesday 28 September 2022



28 Sept (Day 3): ♦ **Heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Coastal Andhra Pradesh & Yanam.

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

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

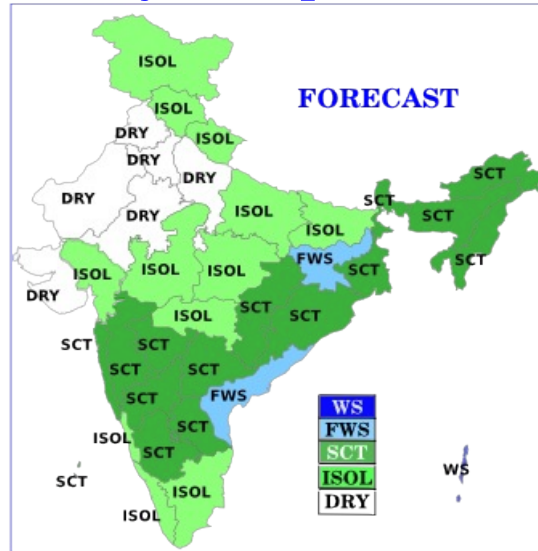
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

(Circle as the National since 1975)

Thursday 29 September 2022



29 Sept (Day 4): ♦ **Heavy rainfall** at isolated places likely over Coastal Andhra Pradesh & Yanam.

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

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

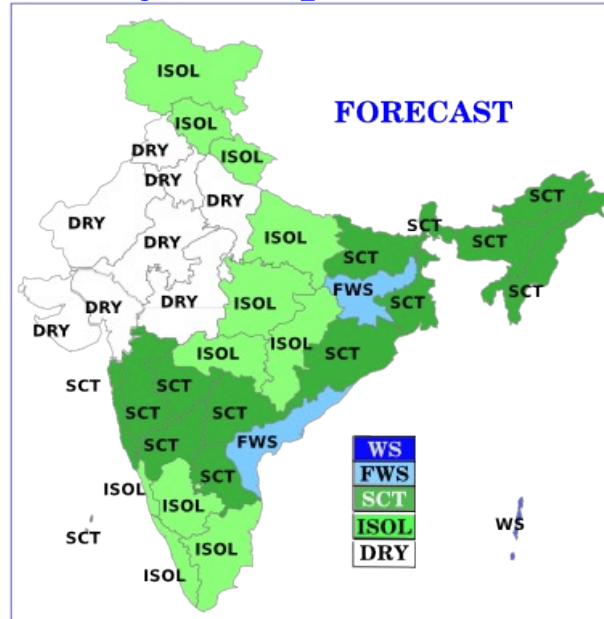
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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

(Circle as the Nation since 1975)

Friday 30 September 2022



30 Sept (Day 5): ♦ Heavy rainfall at isolated places likely over Odisha and north Coastal Andhra Pradesh.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Gangetic West Bengal, Odisha, Bihar, Jharkhand, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Telangana.

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

* **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

(Copies to the Media only 1877)

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 ओडिसा
- 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

For more details kindly visit www.imd.gov.in or contact : +91 11 24631913, 24643965, 24629798

(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)

* 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)