



Tuesday 14 June 2022

MID-DAY

Time of Issue: 1330 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon:

◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 21°N/ Long. 60°E, Lat. 21°N/ Long. 70°E, Diu, Nandurbar, Jalgaon, Parbhani, Bidar, Tirupati, Puducherry, Lat. 14°N/ Long. 84°E, Lat. 17.0°N/ Long. 87°E, Lat.20.0°N/89.5°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Balurghat and Supaul, 26.50°N/86°E.

◆ Conditions are favorable for further advance of Southwest monsoon into some more parts of north Arabian sea, some more parts of Gujarat state, some parts of south Madhya Pradesh, entire Madhya Maharashtra, Marathwada, Karnataka and Tamil Nadu, some parts Vidarbha and Telangana, some more parts of Andhra Pradesh, Westcentral & northwest Bay of Bengal, some parts of Odisha, Gangetic West Bengal, Jharkhand, entire Sub-Himalayan West Bengal and some more parts of Bihar during subsequent 2-3 days.

Rainfall/thunderstorm Forecast & Warnings:

◆ Under the influence of strong southwesterly winds from Bay of Bengal to northeast & adjoining east India in lower tropospheric levels:

i) Isolated **heavy to very heavy rainfall** very likely over Arunachal Pradesh and Sub-Himalayan West Bengal & Sikkim during next 5 days and heavy rainfall over Nagaland & Manipur during 15th-18th June. Isolated **extremely heavy rainfall** also likely over Arunachal Pradesh on 15th & 16th June and over Assam & Meghalaya during next 5 days.

ii) Rainfall activity likely to increase over Bihar, Jharkhand, Odisha and Gangetic West Bengal with fairly widespread to widespread rainfall with thunderstorm/lightning/gusty winds during next 5 days. Isolated heavy rainfall likely over Bihar during 16th-18th; over Jharkhand on 16th & 17th June.

iii) Isolated **heavy rainfall** likely over East Madhya Pradesh on 15th & 16th & over Chhattisgarh during 15th-17th June.

◆ Under the influence of an off-shore trough and westerly winds along the west coast in lower tropospheric levels: Isolated heavy rainfall very likely over Coastal Andhra Pradesh on 15th & 18th; Telangana on 14th & 15th; Rayalaseema on 14th & 18th; Coastal & South Interior Karnataka on 17th & 18th; Tamilnadu, Puducherry & Karaikal on 15th, 17th & 18th and Kerala & Mahe during 15th-18th June, 2022.

◆ **Under the influence of Western Disturbances and lower level easterlies:**

i) Fairly widespread to widespread rainfall over Western Himalayan region and scattered to fairly widespread rainfall over Punjab, Haryana, Chandigarh & Delhi & East Uttar Pradesh during 16th-18th June.

ii) Isolated **heavy rainfall** likely over Jammu, Kashmir, Ladakh, Gilgit- Baltistan & Muzaffarabad during 16th-18th; Himachal Pradesh & Uttarakhand on 16th & 17th, north Punjab on 16th June.

Main Weather Observations

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

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at isolated places over West Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Tamilnadu, Puducherry & Karaikal, Sub-Himalayan West Bengal & Sikkim, Coastal Andhra Pradesh & Yanam, Chhattisgarh, Assam & Meghalaya, Coastal Karnataka and Nagaland, Manipur, Mizoram & Tripura.

◆ Yesterday, **heat wave conditions** prevailed in isolated pockets over north Odisha, Delhi, Jharkhand, Southeast Uttar Pradesh, Southwest Bihar.

◆ **Chief amount of Rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today) (7 cm or more):** **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri: Hasimara-19, NH 31 Bridge-15, Diana & Kumargram-13 each, Nagarkata-12, Buxaduar-11, Murti-9, Chepan, Gajoldoba & Neora-8 each, Bharobhisha, Falakata, Alipurduar & Domohani-7 each; **Darjeeling:** Champasari-10; **Cooch Behar:** Cooch Behar-7, **East Sikkim:** Gangtok-7; **Assam :** Barpeta & Beki Rd Bridge-17, AIE NH Zing-15, Pandu-13, Manikpur, Chandmari-12 each, Bahalpur, Nalbari & Mangaldai-10 each, Kokrajhar, Hazo, Gossaigaon-9 each, Guwahati, Patharughat, Laharighat, Tamulpur, Baksa, Puthibari-8 each, Motunga, Panbari-7 each; **Tripura:** Kanchanpur-9; Gandachera-8, Kailashahar & AD Nagar-7 each; **Madhya Maharashtra:** **Nashik:** Malegaon Camp-8, **Pune:** Junnar-6; **Mizoram:** Kolasibi-7; **Meghalaya:** Sohra, Shella-7 each; **Telangana:** Kumaran Bheem: Jainoor-7; **Gujarat Region:** **Aravalli:** Dhansura-7, **Gandhinagar:** Mansa_arg 7, **Banaskantha:** Dantiwada-6; **Saurashtra & Kutch:** **Surendranagar:** Dasada-7, Chotila-6; **Telangana:** Kumaram Bheem: Jainoor-7.

◆ Isolated **heavy to very heavy rainfall** occurred over Assam, Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** over Meghalaya, Mizoram, Tripura, Madhya Maharashtra, Gujarat State and Telangana.

◆ **Maximum Temperature Departures (as on 13-06-2022):** Maximum temperatures were **markedly above normal (5.0°C or more)** at many places over Uttarakhand, Jharkhand; at a few places over Himachal Pradesh, Punjab; at isolated places over East Uttar Pradesh, Odisha; **appreciably above normal (3.1°C to 5.0°C)** at most places over Haryana, Chandigarh & Delhi; at many places over Kerala & Mahe, West Uttar Pradesh, Bihar; at a few places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; **above normal (1.6°C to 3.0°C)** at many places over Madhya Maharashtra; at a few places over Telangana, Coastal Andhra Pradesh & Yanam, Andaman & Nicobar Islands and at isolated places over Konkan & Goa, Bihar. They were **markedly below normal (-5.0°C or less)** at isolated places over East Rajasthan, West Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at many places over Arunachal Pradesh, Assam & Meghalaya; at a few places over Sub-Himalayan West Bengal & Sikkim, Gujarat Region; **below normal (-1.6°C to -3.0°C)** at isolated places over Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and **near normal** over rest parts of the country. **Yesterday**, the highest maximum temperature of **45.8°C** was reported at **Banda (East Uttar Pradesh)**.

◆ **Minimum Temperature Departures (as on 14-06-2022):** Minimum temperatures are **markedly above normal (5.1°C or more)** at isolated places over Rajasthan; (**appreciably above normal (3.1°C to 5.0°C)**) at most places over Haryana, Chandigarh & Delhi, Uttar Pradesh, Jharkhand; at a few places over Odisha and at isolated places over Vidarbha, Gangetic West Bengal; **above normal (1.6°C to 3.0°C)** at most places over Chhattisgarh; at a few places over Sub-Himalayan West Bengal & Sikkim, Telangana, Rayalaseema; at isolated places over Madhya Pradesh. They are **below normal (-1.6°C to -3.0°C)** at a few places over Rajasthan and at isolated places over Tamilnadu, Puducherry & Karaikal and **near normal** over rest parts of the country. **Today**, the **lowest minimum** temperature of **20.0°C** is reported at Aurangabad (**Marathwada**) over the plains of the country.

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(Created by the National Alert 1875)

Meteorological Analysis (Based on 0830 hours IST)

- ◆ The Northern Limit of Monsoon (NLM) continues to pass through Lat. 21°N/ Long. 60°E, Lat. 21°N/ Long. 70°E, Diu, Nandurbar, Jalgaon, Parbhani, Bidar, Tirupati, Puducherry, Lat. 14°N/ Long. 84°E, Lat. 17.0°N/ Long. 87°E, Lat.20.0°N/89.5°E, Lat.22.0°N/90°E, Lat.25.0°N/89°E, Balurghat, Supaul and 26.50°N/86°E.
- ◆ Conditions are favorable for further advance of monsoon into some more parts of north Arabian sea, some more parts of Gujarat state, some parts of south Madhya Pradesh, entire Madhya Maharashtra, Marathwada, Karnataka and Tamil Nadu, some parts Vidarbha and Telangana, some more parts of Andhra Pradesh, Westcentral & northwest Bay of Bengal, some parts of Odisha, Gangetic West Bengal, Jharkhand, entire Sub-Himalayan West Bengal and some more parts of Bihar during subsequent 2-3 days.
- ◆ The off-shore trough at mean sea level now runs from Karnataka coast to Kerala coast.
- ◆ The cyclonic circulation over Eastcentral Arabian Sea now lies over central parts of north Arabian Sea & neighbourhood between 3.1 km & 5.8 km above mean sea level tilting southwestwards with height.
- ◆ The trough now runs from the above cyclonic circulation over central parts of north Arabian Sea to southwest Rajasthan across northeast Arabian Sea & Kutch between 3.1 km & 4.5 km above mean sea level.
- ◆ The east-west trough from north Haryana to east Assam now runs from East Uttar Pradesh to Manipur across central parts of Bihar, Sub-Himalayan West Bengal & Sikkim and Assam at mean sea level.
- ◆ A north-south trough runs from southeast Uttar Pradesh to south Chhattisgarh across East Madhya Pradesh at 0.9 km above mean sea level.
- ◆ The feeble Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 72°E to the north of Lat. 28°N.
- ◆ A fresh Western Disturbance is likely to affect Northwest India from 15th June, 2022.
- ◆ The cyclonic circulation over south Coastal Odisha & neighbourhood at 3.1 above mean sea level has become less marked.

Weather Forecast for next 5 days * upto 0830 hours IST of 19th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Gradual fall in maximum temperatures by 2-3° C very likely over Northwest India during next 3 days and no significant change thereafter.
- ◆ No significant change in maximum temperatures very likely over East India on today and gradual fall by 2-4° C thereafter.
- ◆ No significant change in maximum temperatures very likely over rest parts of the country during next 5 days.

Weather Outlook for subsequent 2 days during 19th June-21st June, 2022

- ◆ Widespread light/moderate rainfall with isolated heavy to very heavy falls likely to continue over Sub-Himalayan West Bengal & Sikkim, Northeast India.
- ◆ Scattered to fairly widespread rainfall likely over peninsular India, central & east India, Western Himalayan Region & adjoining plains of northwest India and Islands.
- ◆ Dry weather likely over rest parts of the country.

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Weather Warning during next 5 days *

14 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Telangana, Rayalaseema.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan, Bihar, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Heat Wave conditions** in isolated pockets very likely over East Uttar Pradesh, Bihar, Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea and adjoining east central Arabian Sea, coastal Andhra Pradesh and adjoining west central Bay of Bengal, south west and adjoining south east Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

15 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram, Tripura; **heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Uttarakhand; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, East Rajasthan, Bihar, Odisha, Madhya Maharashtra, Marathwada, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over off Kerala and Karnataka coasts and Lakshadweep area. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

16 June (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **heavy to very heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, off Kerala and Karnataka coasts. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

17 June (Day 4): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Assam & Meghalaya; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, off Kerala and Karnataka coasts, along and off Gujarat coast, north east Arabian Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

18 June (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Bihar, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Gujarat coast, north east Arabian Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

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 (MID-DAY)
14-June-2022

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

% 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		

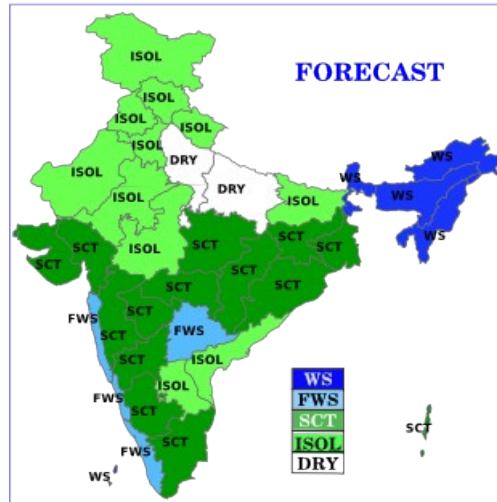
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Tuesday 14 June 2022



14 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Telangana, Rayalaseema.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places very likely over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Rajasthan, Bihar, Odisha, Gujarat state, Madhya Maharashtra, Marathwada, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Heat Wave conditions** in isolated pockets very likely over East Uttar Pradesh, Bihar, Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea and adjoining east central Arabian Sea, coastal Andhra Pradesh and adjoining west central Bay of Bengal, south west and adjoining south east Bay of Bengal. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

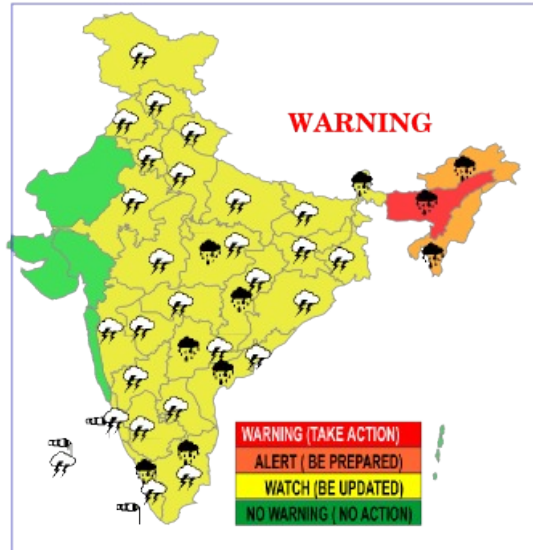
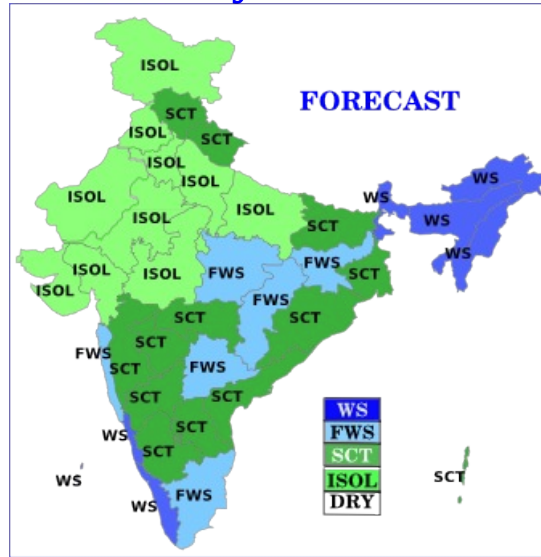
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Wednesday 15 June 2022



15 June (Day 2): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram, Tripura; **heavy rainfall** at isolated places over East Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Uttarakhand; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, East Rajasthan, Bihar, Odisha, Madhya Maharashtra, Marathwada, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over off Kerala and Karnataka coasts and Lakshadweep area. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

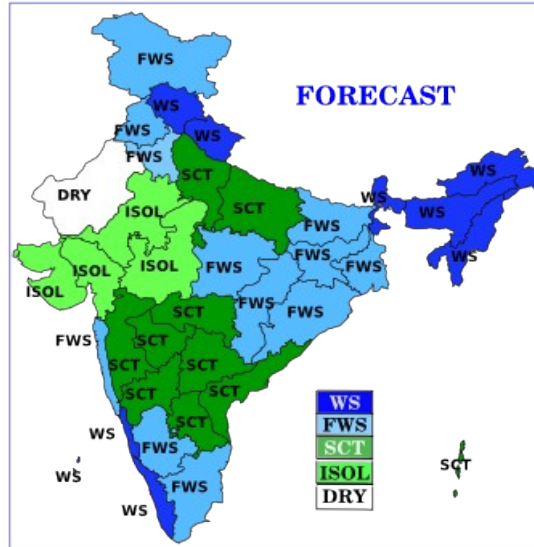
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Thursday 16 June 2022



16 June (Day 3): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim; **heavy to very heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph)** at isolated places very likely over Punjab, Haryana, Chandigarh & Delhi; **with lightning/gusty winds (speed 30-40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand, Gangetic West Bengal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Odisha, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, off Kerala and Karnataka coasts. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

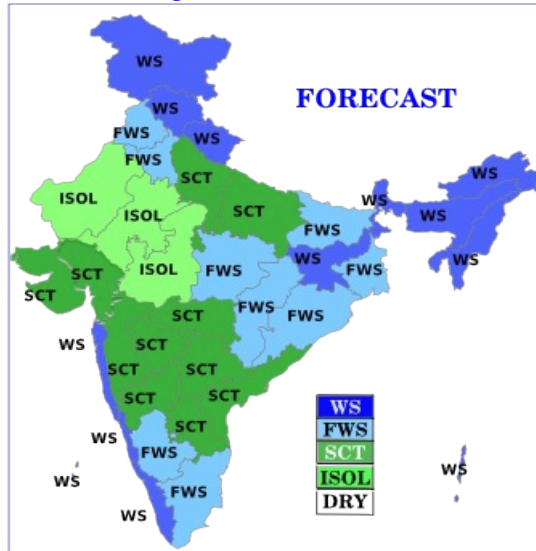
* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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(Circle as the National flag 1971)

Friday 17 June 2022



17 June (Day 4): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places likely over Assam & Meghalaya; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Bihar, Jharkhand, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, off Kerala and Karnataka coasts, along and off Gujarat coast, north east Arabian Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

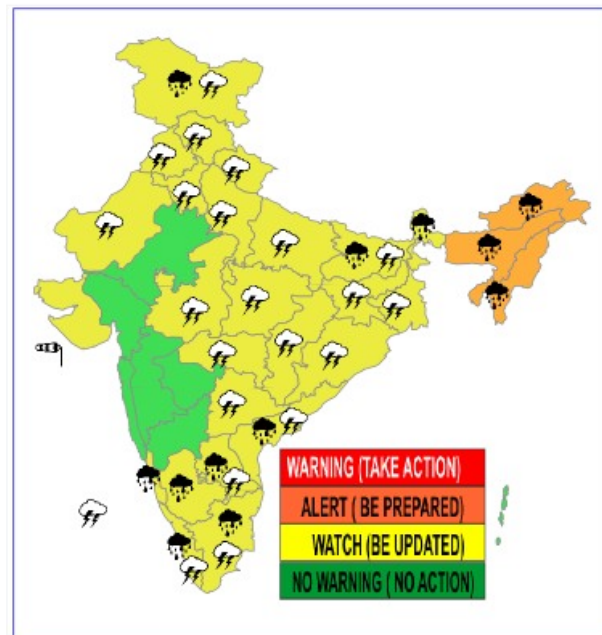
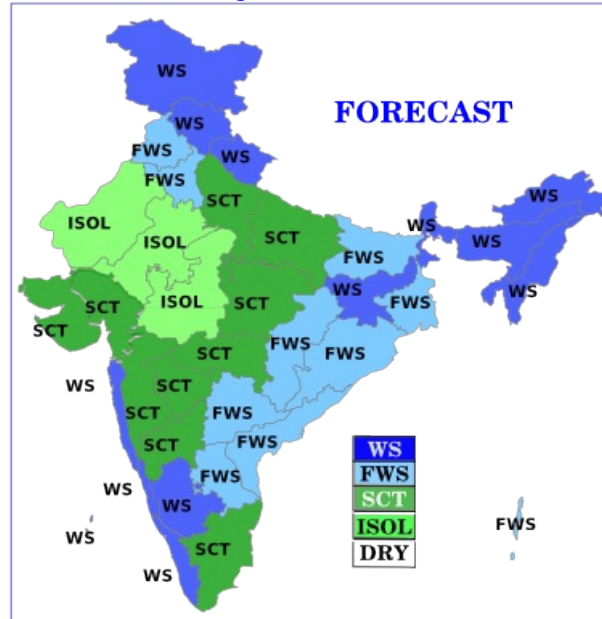
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(Circle as the National flag 497)

Saturday 18 June 2022



18 June (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura; **heavy rainfall** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Bihar, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph)** at isolated places likely over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam, Rayalaseema; **with lightning** at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttar Pradesh, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Telangana, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Gujarat coast, north east Arabian Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these areas.

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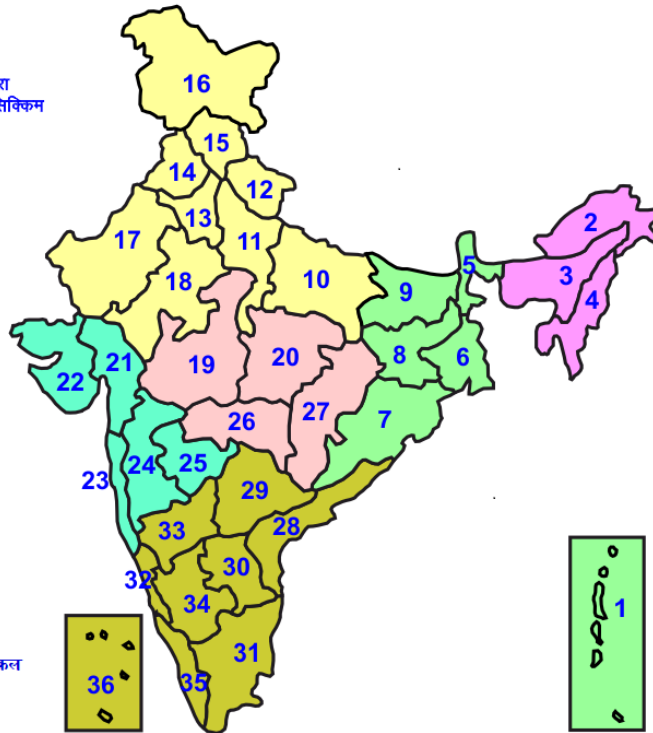
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LEGENDS

- 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

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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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