

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 16th August, 2024

Time of Issue: 1330 hours IST

Subject: (i) Under the influence of Low Pressure Area over northwest Bay of Bengal & adjoining West Bengal and its likely intensification, enhanced rainfall likely over East & central India during next week.

(ii) Isolated heavy to very heavy rainfall very likely over Kerala, Tamil Nadu, Karnataka during next 2-3 days.

Realised weather during past 24 hours till 0830 hours IST of today (Annexure I)

Heavy to very heavy rainfall with extremely heavy falls at isolated places over East Rajasthan; **Heavy to very heavy rainfall** at isolated places over West Rajasthan, Haryana, West Madhya Pradesh & Odisha; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Madhya Pradesh, Chhattisgarh, Vidarbha, Jharkhand, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, and Telangana.

Weather Systems:

- ✓ A Low pressure area formed over Northwest Bay of Bengal and adjoining areas of West Bengal & Bangladesh. It is likely to move north-northwestwards during next 2 days and become a Wellmarked Löw pressure area over Bangladesh & adjoining Gangetic West Bengal. Thereafter, it is likely to move west-northwestwards across Gangetic West Bengal, Jharkhand & adjoining areas during subsequent 3 days.
- ✓ The **Monsoon trough** at mean sea level is likely to remain active and near its normal position during the week.
- ✓ A **cyclonic circulation** lies over northwest Rajasthan & neighbourhood extending upto middle tropospheric levels.
- ✓ A **cyclonic circulation** lies over South Interior Karnataka & neighbourhood extending upto middle tropospheric level. The trough now runs from North Interior Karnataka to Comorin area across the cyclonic circulation in lower tropospheric levels.

Forecast & Warnings (upto 7 days):

Northwest India

✓ Fairly widespread to widespread light/moderate rainfall very likely over Himachal Pradesh & Uttarakhand; scattered to fairly widespread rainfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-

- Muzaffarabad, Uttar Pradesh, East Rajasthan; isolated to scattered rainfall over Punjab, Haryana-Chandigarh-Delhi, West Rajasthan during the week.
- ✓ Isolated **heavy rainfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 16th, 19th & 20th; Himachal Pradesh during 16th -20th; Uttarakhand during 17th -20th; Haryana-Chandigarh-Delhi on 20th; West Uttar Pradesh during 18th -22nd; East Uttar Pradesh 17th -22nd; West Rajasthan on 16th & 17th; East Rajasthan on 16th August.
- ✓ Isolated **Extremely heavy** rainfall also likely over West Rajasthan on 16th August.

❖ West & Central India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Madhya Pradesh, Vidarbha, Konkan & Goa, Chhattisgarh; scattered to fairly widespread rainfall over Gujarat Region, Marathwada; isolated to scattered rainfall over Madhya Maharashtra and Saurashtra & Kutch during the week.
- ✓ Isolated **Heavy rainfall** very likely over Madhya Pradesh during 16th -22nd; Vidarbha during 16th -20th; Chhattisgarh during 16th -21st; Konkan & Goa during 18th -21st; Madhya Maharashtra on 19th & 20th; Gujarat Region on 16th; Marathwada on 16th August.
- ✓ Isolated **very heavy rainfall** also very likely over Chhattisgarh on 16th & 17th August.

***** East & Northeast India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over east India and scattered to fairly widespread rainfall over northeast during the week.
- ✓ Isolated **heavy rainfall** very likely over Sub-Himalayan West Bengal & Sikkim during 20th -22nd; Gangetic West Bengal during 16th-20th; Bihar during 18th -20th; Jharkhand & Odisha during 16th 20th; Arunachal Pradesh on 22nd; Assam & Meghalaya on 16th, 17th & during 20th -22nd; Nagaland, Manipur, Mizoram & Tripura during 16th -22nd August.
- ✓ Isolated **very heavy rainfall** also very likely over Gangetic West Bengal during 16th-19th; Jharkhand on 18th & 19th; Odisha on 17th; Nagaland, Manipur, Mizoram & Tripura on 16th & 22nd August.
- ✓ Isolated **Extremely heavy** rainfall also likely over Odisha on 16th August.

South Peninsular India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Kerala & Mahe, Lakshadweep, Coastal Karnataka; scattered to fairly widespread rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Interior Karnataka during the week.
 - ✓ Isolated **heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal during 16th 18th; Kerala & Mahe on 16th & 17th; Lakshadweep on 16th -20th; Rayalaseema & Telangana on 16th; Coastal Karnataka on 16th, 19th & 20th; North Interior Karnataka on 16th, 17th & 20th; South Interior Karnataka on 16th & 17th August.
 - ✓ Isolated **very heavy rainfall** also very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe on 16th & 17th; South Interior Karnataka on 16th August.

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php

Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 16.08.2024 (in cm):

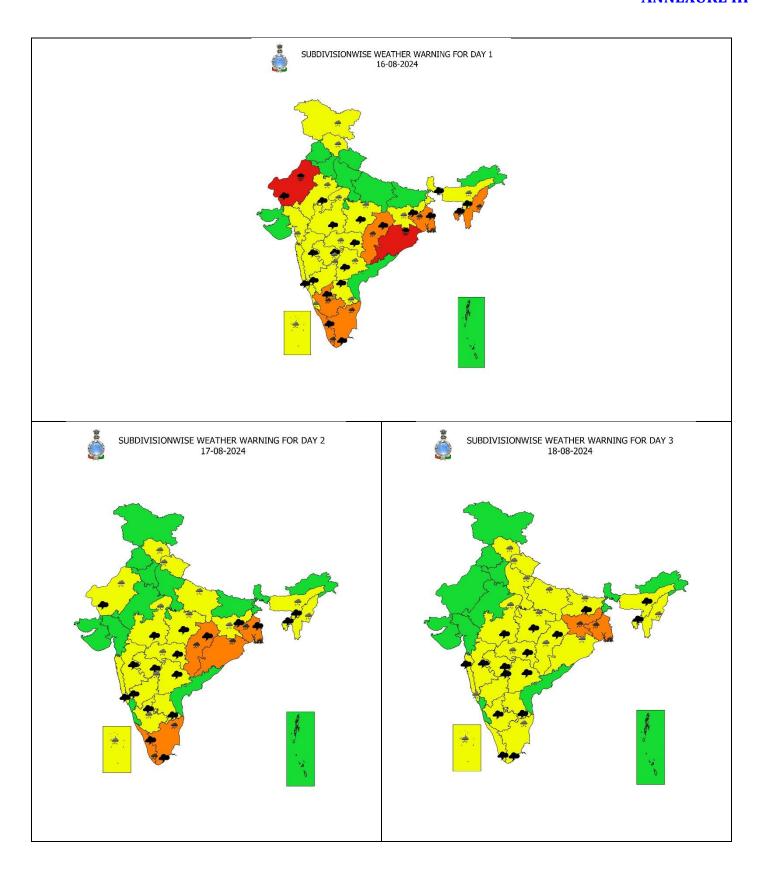
- ❖ East Rajasthan: Hindoli (dist Bundi) 22, Mangliawas Sr (dist Ajmer) 21, Tatgarh Sr (dist Ajmer) 17, Atru Sr (dist Baran) 16, Pisagan Sr (dist Ajmer) 15, Mahwa (dist Dausa) 12, Bamanwas Sr (dist Sawai Madhopur) 12, Bundi (dist Bundi) 11, Nayanagar/beawar (dist Ajmer) 11, Chaksu (dist Jaipur) 11, Sangod (dist Kota) 10, Bhilwara Tehsil Sr (dist Bhilwara) 10, Bhilwara (dist Bhilwara) 10, Baran (dist Baran) 9, Degod Sr (dist Kota) 9, Kishanganj (dist Baran) 8, Sanganer Tehsil Sr (dist Jaipur) 8, Patan (dist Bundi) 8, Tonk Tehsil Sr (dist Tonk) 8, Sikar (dist Sikar) 7, Anta Sr (dist Baran) 7, Kotkasim Sr (dist Alwar) 7, Bahadurpur Sr (dist Alwar) 7, Govindgarh Sr (dist Alwar) 7, Shahabad (dist Baran) 7,
- West Rajasthan: Kolayat Magra (dist Bikaner) 17, Jaitran (dist Pali) 15, Shergarh (dist Jodhpur) 12, Luni Sr (dist Jodhpur) 11, Bautu Sr (dist Barmer) 10, Lunkaransar (dist Bikaner) 9, Parbatsar (dist Nagaur) 9, Bhopalgarh Sr (dist Jodhpur) 9, Sojat (dist Pali) 8, Makrana Sr (dist Nagaur) 8, Osian Sr (dist Jodhpur) 8, Nokha (dist Bikaner) 7, Raipur Sr (dist Pali) 7,
- ❖ Odisha: Jenapur (Jajpur) 15, Belaguntha (Ganjam) 13, Gudari(Rayagada) 13, Telkoi(Keonjhargarh) 13, Bhuban (Dhenkanal) 12, Kantapada (Cuttack) 10, Kankadahad (Dhenkanal) 9, Krishnaprasad (Puri) 9, Pallahara (Angul) 9, Jajpur (Jajpur) 9, Sukinda (Jajpur) 8, Tihidi (Bhadrak) 8, Chandikhol (Jajpur) 7, Bhadrak (Bhadrak) 7, Jagatsinghpur (Jagatsinghpur) 7.
- ❖ West Madhya Pradesh: Guna-aws (dist Guna) 12, Raghogarh (dist Guna) 11, Karhal (dist Sheopur) 11, Kolaras (dist Shivpuri) 10, Badarwas (dist Shivpuri) 9, Ashoknagar-aws (dist Ashoknagar) 7, Pachmarhi (dist Narmadapuram) 7,
- ❖ Haryana-Chandigarh-Delhi: Narnound Rev (dist Hisar) 12,
- ❖ Jammu-Kashmir: Kupwara Kvk Aws (dist Kupwara) 10,
- Chhattisgarh: Durgkondal (dist Kanker) 9, Pratappur (dist Surajpur) 7, Latori (dist Surajpur) 7, Lormi (dist Mungeli) 7,
- ❖ Vidarbha: Nagpur (aws) (dist Nagpur) 9,
- ❖ Nagaland, Manipur, Mizoram & Tripura: Kanchanpur (dist North Tripura) 9, Kvk Dhalai (dist Dhalai) 9, Lunglei (dist Lunglei) 8, Kamalpur (dist Dhalai) 7, Aizwal (dist Aizawl) 7,
- ❖ Jharkhand: Torpa (dist Khunti) 8,
- ❖ Assam & Meghalaya: Barpeta/sarbhog_aws (dist Barpeta) 7,
- **❖ Telangana:** Achampeta 8, Saroornagar 7.
- **East Madhya Pradesh:** Chand (dist Chindwara) 7,

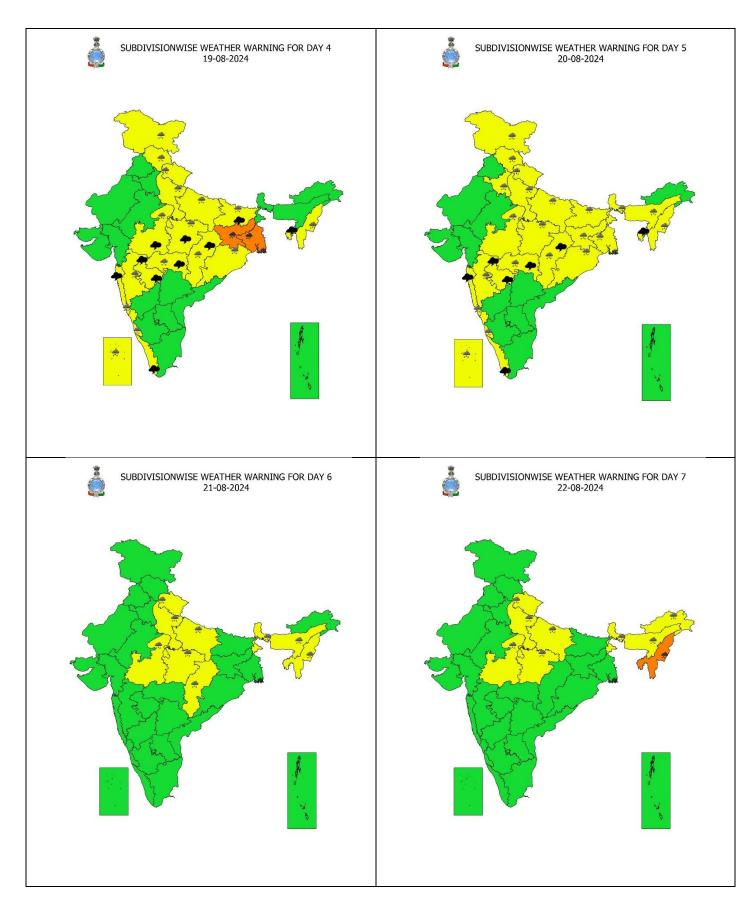
Annexure II

	7 Days Rainfall Forecast								
S. No.	Subdivision	16- Aug Day 1	17- Aug Day 2	18- Aug Day 3	19- Aug Day 4	20- Aug Day 5	21- Aug Day 6	22- Aug Day 7	
1	ANDAMAN & NICOBAR ISLANDS	SCT	FWS	FWS	FWS	FWS	FWS	FWS	
2	ARUNACHAL PRADESH	SCT	SCT	SCT	SCT	SCT	FWS	FWS	
3	ASSAM & MEGHALAYA	FWS	SCT	SCT	SCT	SCT	FWS	FWS	
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	WS	FWS	FWS	FWS	FWS	WS	WS	
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	FWS	FWS	FWS	WS	WS	WS	
6	GANGETIC WEST BENGAL	WS							
7	ODISHA	WS	WS	FWS	FWS	FWS	SCT	SCT	
8	JHARKHAND	FWS	WS	WS	WS	WS	WS	FWS	
9	BIHAR	SCT	SCT	FWS	FWS	FWS	FWS	FWS	
10	EAST UTTAR PRADESH	SCT	FWS	FWS	FWS	FWS	FWS	FWS	
11	WEST UTTAR PRADESH	SCT	SCT	SCT	SCT	FWS	FWS	FWS	
12	UTTARAKHAND	SCT	FWS	FWS	WS	WS	WS	WS	
13	HARYANA CHANDIGARH & DELHI	SCT	ISOL	ISOL	ISOL	SCT	SCT	SCT	
14	PUNJAB	SCT	ISOL	ISOL	ISOL	ISOL	SCT	SCT	
15	HIMACHAL PRADESH	FWS							
16	JAMMU & KASHMIR AND LADAKH	FWS	SCT	SCT	FWS	FWS	FWS	SCT	
17	WEST RAJASTHAN	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	
18	EAST RAJASTHAN	FWS	SCT	SCT	SCT	SCT	SCT	FWS	
19	WEST MADHYA PRADESH	FWS	FWS	FWS	FWS	WS	WS	WS	
20	EAST MADHYA PRADESH	WS							
21	GUJARAT REGION	FWS	FWS	SCT	SCT	SCT	SCT	SCT	
22	SAURASHTRA & KUTCH	SCT	SCT	SCT	ISOL	ISOL	ISOL	ISOL	
23	KONKAN & GOA	SCT	FWS	FWS	FWS	WS	WS	WS	
24	MADHYA MAHARASHTRA	ISOL	ISOL	SCT	SCT	SCT	SCT	SCT	
25	MARATHAWADA	SCT	SCT	SCT	FWS	FWS	SCT	SCT	
26	VIDARBHA	FWS	WS	WS	WS	WS	WS	WS	
27	CHHATTISGARH	FWS	WS	WS	WS	FWS	FWS	FWS	
28	COASTAL ANDHRA PRADESH & YANAM	SCT							
29	TELANGANA	FWS	FWS	SCT	SCT	SCT	SCT	SCT	
30	RAYALASEEMA	FWS	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	
31	TAMILNADU PUDUCHERRY & KARAIKAL	SCT	FWS	FWS	SCT	SCT	ISOL	ISOL	
32	COASTAL KARNATAKA	FWS	FWS	FWS	FWS	WS	WS	WS	
33	NORTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	SCT	SCT	SCT	
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	SCT	SCT	SCT	SCT	SCT	
35	KERALA & MAHE	WS	WS	WS	WS	WS	WS	FWS	
36	LAKSHADWEEP	WS	WS	WS	WS	WS	WS	FWS	

[•] As the lead period increases forecast accuracy decreases.

ANNEXURE III





- Action may be taken based on ORANGE AND RED COLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Impact due to

- Extremely heavy rainfall very likely at isolated places over West Rajasthan & Odisha on 16th August;
- **Very heavy rainfall** at isolated over Chhattisgarh, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe on 16th & 17th; Gangetic West Bengal during 16th -19th; Jharkhand on 18th & 19th; Odisha on 17th; Nagaland, Manipur, Mizoram & Tripura on 16th & 22nd; South Interior Karnataka on 16th August.
- Moderate flash flood risk likely over few watersheds & neighbourhoods of Chhattisgarh, north Odisha & Jharkhand on 16th & 17th August; Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of West Rajasthan & Nagaland, Manipur, Mizoram & Tripura on 16th & 17th August. (ANNEXURE IV)
 - ✓ Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
 - ✓ Occasional reduction in visibility due to heavy rainfall.
- ✓ Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- ✓ Minor damage to kutcha roads.
- ✓ Possibilities of damage to vulnerable structure.
- ✓ Localized Landslides/Mudslides/landslips/mud slips/land sinks/mud sinks.
- ✓ Damage to horticulture and standing crops in some areas due to inundation.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- ✓ Check for traffic congestion on your route before leaving for your destination.
- ✓ Follow any traffic advisories that are issued in this regard.
- ✓ Avoid going to areas that face the water logging problems often.
- ✓ Avoid staying in vulnerable structure.

Agromet advisories for Heavy Rainfall likely over various parts of the country

- ➤ Drain out excess water from field crops and horticultural crops in Jammu & Kashmir, Himachal Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Odisha, Jharkhand, Tamil Nadu, Kerala, Lakshadweep, Karnataka and Telangana.
- ➤ In **Himachal Pradesh**, harvest the matured apples and vegetable immediately during the clear weather and store them at safe places.
- > Provide mechanical support to horticultural crops & staking to vegetables.

Flash Flood Guidance:

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 17-08-2024:

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

West Rajasthan - Barmer, Jaisalmer, Jalor and Jodhpur districts.

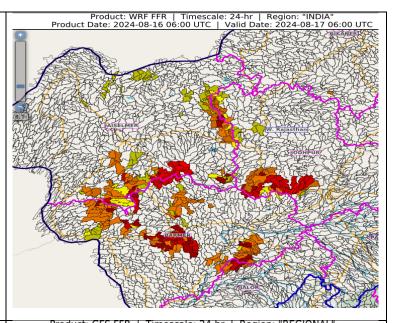
Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.

24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 17-08-2024:

Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

Chhattisgarh - Balarampur, Jashpur, Korea, Surguja Surajpur and districts. North Odisha - Anugul, Baleshwar, Baragarh, Deogarh, Jharsuguda, Kendujhar, Mayurbhanj, Sambalpur and Subarnapur districts. **Iharkhand** Gumla, Khunti, Latehar, Lohardaga, Palamu, Ranchi, Saraikela, Simdega Singhbhum districts. and West

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



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Product Date: 2024-08-16 06:00 UTC | Valid Date: 2024-08-17 06:00 UTC

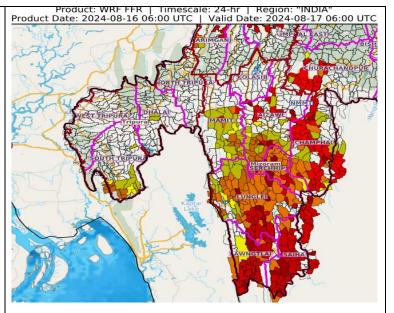
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24 hours Outlook for the Flash Flood Risk (FFR) till 1130 IST of 17-08-2024 :

Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions during next 24 hours.

NMMT - Aizawl, Champhai, Lawngtlai, Lunglei, Mamit, Saiha and Serchhip districts.

Surface runoff/ Inundation may occur at some fully saturated soils & low-lying areas over AoC as shown in map due to expected rainfall occurrence in next 24 hours.



Legends & abbreviations:

- **♦ Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ Obsy: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, Aero: Aerodrome, IAF: Indian Air Force.
- **Region wise classification of meteorological Sub-Divisions:**
 - **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - East India: Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - West India: Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathawada.

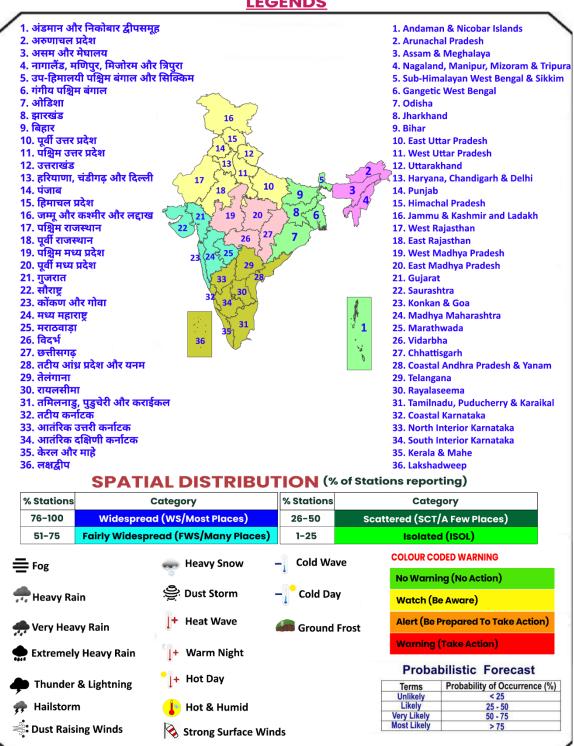


राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences





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	DEFINITION/CRITERIA
	Heavy: 64.5 to 115.5 mm/cm *
Rain/ Snow *	Very Heavy: 115.6 to 204.4 mm/cm*
	Extremely Heavy: > 204.4 mm/cm *
	When maximum temperature of a station reaches $\ge 40^{\circ}$ C for plains and $\ge 30^{\circ}$ 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 ≥6.5° C
Heat Wave	(b). Based on Actual maximum temperature
	Heat Wave: When actual maximum temperature ≥45°C. Severe Heat Wave: When actual maximum temperature ≥47°C
	(c). Criteria for heat wave for coastal stations
	When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature ≥37°C
	When maximum temperature remains 40°C
Warm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
Cold Wave	When minimum temperature of a station ≤10°C for plains and ≤0°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 ≤ -6.5 °C
Cold wave	(b) Based on actual Minimum Temperature (for Plains only)
	Cold Wave : When Minimum Temperature is ≤ 4.0 °C
	Severe Cold Wave: When Minimum Temperature is ≤ 2.0 °C
	(c) For Coastal Stations When Minimum Temperature departure is ≤-4.5 °C & actual Minimum Temperature is ≤ 15 °C
/	
Cold Day	When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions Based on departure
Cold Day	Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.
	Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C
	Phenomenon of small droplets suspended in air and the horizontal visibility < 1km
Fog	Moderate Fog: When the visibility between 500-200 metres
rog	Dense Fog: when the visibility between 50- 200 metres Very Dense Fog: when the visibility < 50 metres
	very bense rog. when the visibility - 50 metes
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
Frost	lce deposits on ground Air temperature ≤4°C (over Plains)
Frost	Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute.
Frost	Air temperature ≤4°C (over Plains)
/	Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
	Air temperature ≤4°C (over Plains) 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
)	Air temperature ≤4°C (over Plains) 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 Effect of various waves in the sea over specific area
	Air temperature ≤4°C (over Plains) 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
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 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
Squall	Air temperature ≤4°C (over Plains) 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 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
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 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 Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)
Squall Sea State	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 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 Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)
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 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 Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)

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