

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 15th August, 2024

Time of Issue: 1400 hours IST

India Meteorological Department wishes you a very Happy 78th Independence Day

Subject: (i) Under the influence of likely formation of Low pressure area over Gangetic West Bengal, Enhanced Rainfall likely over East and central India during next 3-4 days.

(ii) Isolated heavy rainfall likely to continue over Western Himalayan Region, Uttar Pradesh & East India during next 6-7 days and over Rajasthan during next 3 days.

(iii) Isolated heavy to very heavy rainfall very likely over Kerala, Lakshadweep, Tamil Nadu, South Interior Karnataka & Rayalaseema during next 5 days.

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

Heavy to very heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, West Uttar Pradesh, West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal; **Heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Punjab, Saurashtra & Kutch, West Rajasthan, East Uttar Pradesh, Bihar, Chhattisgarh, Marathwada, East Madhya Pradesh, Odisha, Assam & Meghalaya, Kerala & Mahe & Arunachal Pradesh.

Weather Systems

- ✓ The **Monsoon trough** is near its normal position at mean sea level. It is likely to be near its normal position during most days of the week.
- ✓ A **cyclonic circulation** lies over South Bangladesh & adjoining Gangetic West Bengal extending upto mid tropospheric level. Under its influence, a low pressure area likely to form over Gangetic West Bengal during next 24 hours.
- ✓ A **cyclonic circulation** lies over northeast Rajasthan & neighbourhood extending upto mid tropospheric level.
- ✓ A **cyclonic circulation** lies over southeast Arabian sea & adjoining south Kerala coast extending upto mid tropospheric level. The **trough** runs from Konkan to above mentioned cyclonic circulation extending upto lower tropospheric level.

Forecast & Warnings: (upto 7 days): (Rainfall distribution and Graphics for warning are given in Annexure II & III respectively)

❖ Northwest India

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

- widespread rainfall over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, Rajasthan during the next 4-5 days.
- ✓ Isolated **heavy rainfall** very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad & West Rajasthan during 15th -17th; Uttarakhand & Uttar Pradesh during 15th -21st; Himachal Pradesh during 15th -21st; Punjab on 15th; Haryana-Chandigarh-Delhi on 15th & 16th August.
- ✓ Isolated **very heavy rainfall** also very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 15th; Himachal Pradesh & West Rajasthan on 15th and East Rajasthan on 15th & 16th August.

❖ West & Central India

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Madhya Pradesh, Vidarbha & Chhattisgarh; scattered to fairly widespread rainfall over Konkan & Goa & Gujarat Region; isolated to scattered rainfall over Madhya Maharashtra, Marathwada and Saurashtra & Kutch during next 7 days.
- ✓ Isolated **Heavy rainfall** very likely over West Madhya Pradesh on 15th, 16th & during 19th 21st; East Madhya Pradesh on 15th & during 18th -21st; Vidarbha & Konkan & Goa during 18th 20th; Chhattisgarh during 15th -21st August.
- ✓ Isolated **very heavy rainfall** also very likely over Chhattisgarh on 15th & 16th 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 on 15th & 16th; Gangetic West Bengal during 15th-18th; Bihar & Nagaland, Manipur, Mizoram & Tripura during 15th-21st; Jharkhand during 15th 20th, Odisha during 15th -19th, Arunachal Pradesh on 15th, Assam & Meghalaya on 15th & during 19th -21st August.
- ✓ Isolated **very heavy rainfall** also very likely over Gangetic West Bengal on 16th & 17th & Jharkhand on 17th & 18th August.

South Peninsular India:

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Kerala & Mahe, Lakshadweep & Karnataka state; scattered to fairly widespread rainfall over Tamil Nadu, Puducherry & Karaikal, Coastal Andhra Pradesh & Yanam, Rayalaseema and Telangana during the week.
 - ✓ Isolated **heavy rainfall** very likely over Tamil Nadu, Puducherry & Karaikal on 15th 18th & 19th; Kerala & Mahe during 15th & 19th; Lakshadweep on 15th -19th; Rayalaseema duirng 15th 17th; Coastal Karnataka on 15th & 16th; North Interior Karnataka on 15th & 16th; South Interior Karnataka during 15th 17th August.
 - ✓ Isolated **very heavy rainfall** also very likely over Tamil Nadu, Puducherry & Karaikal on 16th & 17th; Kerala & Mahe during 15th -17th; Lakshadweep on 15th; Rayalaseema on 16th; Coastal Karnataka on 15th & South Interior Karnataka on 15th & 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 15.08.2024 (in cm):

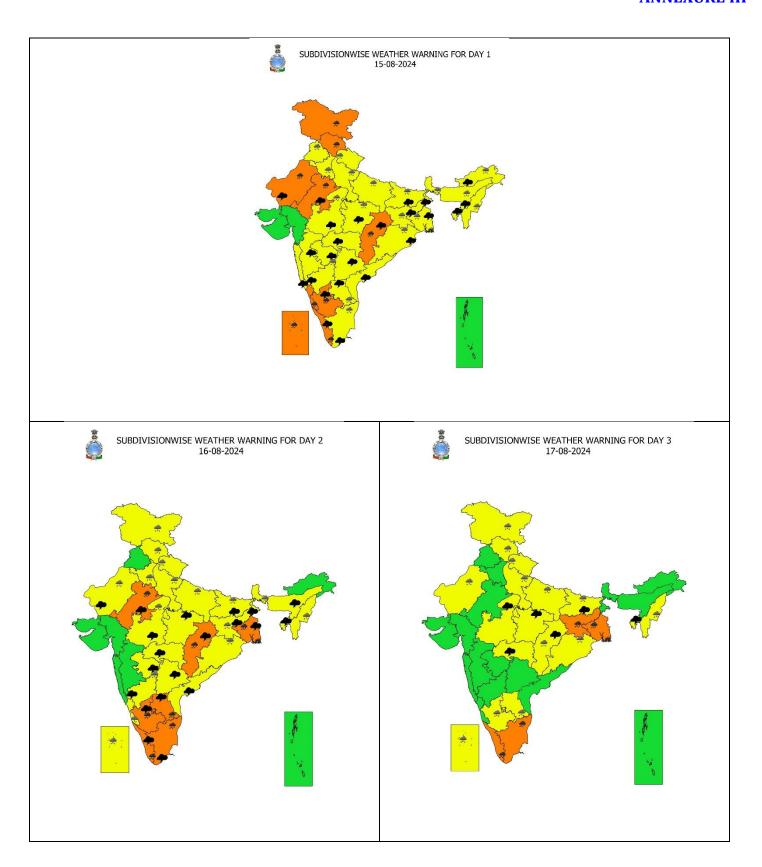
- **❖ Tamil Nadu, Puducherry & Karaikal:** Perandurai 12, K. Paramathi (dist Karur) 11, Chittampali 9, Iddayapalli 8, Madhurai 7, Pullipatti 9, Tallakulam 8, Paramathivelur 7, Vattamalai 7, Vellakaoil 8
- ❖ Jammu-Kashmir: Bakore Arg (dist Jammu) 14, Jammu (dist Jammu) 13, Jammu Aws (dist Jammu) 12, Katra (dist Reasi) 12, Samba Aws (dist Samba) 11, Kathua (dist Kathua) 7;
- ❖ East Uttar Pradesh: Kaiserganj (dist Bahraich) 9, Karwi (dist Chitrakoot) 7;
- ❖ West Uttar Pradesh: Pali (dist Lalitpur) 15, Orai (dist Jalaun) 14, Auraiya (cwc) (dist Auraiya) 11, Jasrana (dist Firozabad) 10, Kalpi Tehsil (dist Jalaun) 7, Kalpi Cwc (dist Jalaun) 7;
- Haryana-Chandigarh-Delhi: Sadhaura (dist Yamuna Nagar) 9, Naraingarh (dist Ambala) 8;
- ❖ Punjab: Ranjit Sagar Dam Site (dist Pathankot) 9, Malikpur (dist Pathankot) 7, Phangota (dist Pathankot) 7, Faridkot (dist Faridkot) 7, Shahpur Kandi (dist Pathankot) 7;
- ❖ Saurashtra & Kutch: Sayla (dist Surendranagar) 8;
- ❖ Uttarakhand: Kapkot(BAGESHWAR): 17, Someshwar(ALMORA): 9, Sama(BAGESHWAR): 8, Karnprayag(CHAMOLI): 7;
- Arunachal Pradesh: Tuting (dist Upper Siang) 7,
- ❖ Assam & Meghalaya: N.lakhimpur/lilabari (dist Lakhimpur) 8, Moranhat (dist Dibrugarh) 7,
- ❖ Kerala & Mahe: Mannarakkad 10, Mannarakkad AWS 7;
- Odisha: Kaptipada (Mayurbhanj) 7;
- ❖ Bihar: Sasaram (dist Rohtas) 7;
- Himachal Pradesh: Kangra (dist Kangra) 16, Dharmsala (dist Kangra) 15, Palampur (dist Kangra) 14, Nahan (dist Sirmaur) 12, Baijnath (dist Kangra) 9, Naina Davi (dist Bilaspur) 8, Dehra Gopipur (dist Kangra) 7;
- **❖ East Rajasthan:** Jaipur Tehsil (Jaipur) 15, Jobner (Jaipur) 13, Nirjharna (Dausa) 11, Lalsot (dist Dausa) 10, Sikrai (dist Dausa) 9, Lachmangarh (dist Sikar) 7;
- ❖ West Rajasthan: Saanju (Nagaur) 11; Bapini (Jodhpur) 9; Tivari (Jodhpur) 9;
- ❖ Chhattisgarh: Dhabhara (dist Sakti) 9, Bhaisma (dist Korba) 8, Ramanujganj (dist Balrampur) 7;
- ❖ Marathwada: Jalkot (dist Latur) 10;
- ❖ East Madhya Pradesh: Malthone (dist Sagar) 11, Narsinghpur-aws (dist Narsinghpur) 9, Garhakota (dist Sagar) 9, Chand (dist Chindwara) 9, Katni(mudwara) (dist Katni) 8, Sidhi (gopadbanas) (dist Sidhi) 7, Gadarwara (dist Narsinghpur) 7, Dindori-aws (dist Dindori) 7, Sihawal (dist Sidhi) 7, Deori (dist Sagar) 7;
- ❖ West Madhya Pradesh: Gohad (dist Bhind) 12, Mehgaon (dist Bhind) 11, Udaipura (dist Raisen) 10, Gormi (dist Bhind) 9, Dabra (dist Gwalior) 8, Mungaoli (dist Ashoknagar) 7;
- ❖ North Interior Karnataka: Koppal Gawathi (dist Gangavathi) 7, Tavaragera (dist Gangavathi) 8;

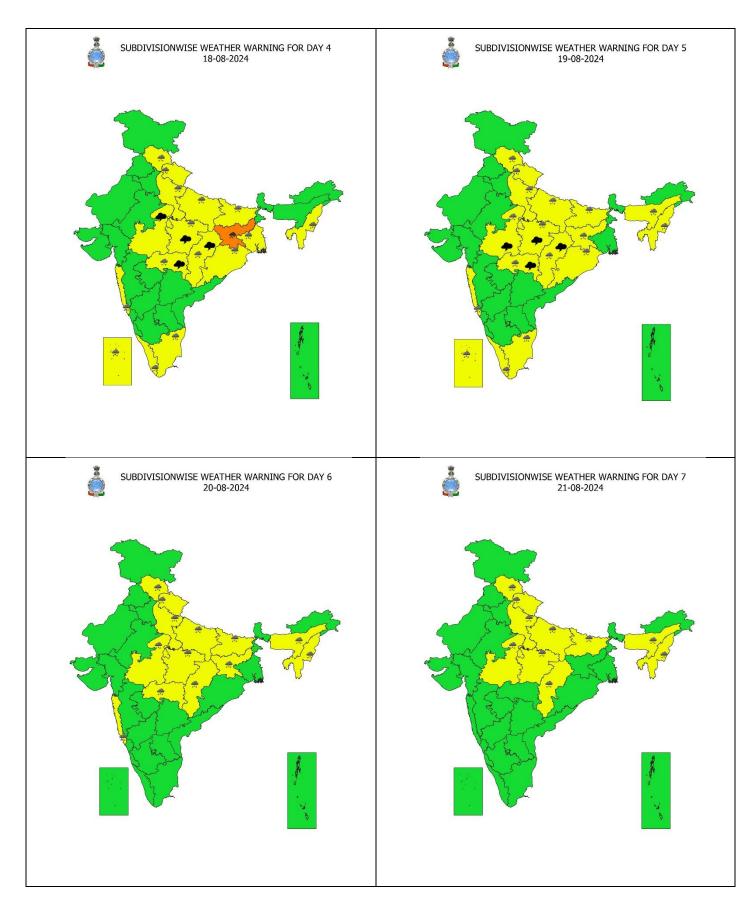
Annexure II

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

• 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

- **Very heavy rainfall** at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh West Rajasthan, Coastal Karnataka & Lakshadweep on 15th; East Rajasthan & South Interior Karnataka on 15th & 16th; Gangetic West Bengal on 16th & 17th; Jharkhand on 17th & 18th; Tamil Nadu, Puducherry & Karaikal on 16th & 17th; Kerala & Mahe during 15-17th; Rayalaseema on 16th August.
- Low to Moderate flash flood risk likely over few watersheds & neighbourhoods of Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Uttarakhand, Odisha, Jharkhand, Chhattisgarh, East Rajasthan, West Madhya Pradesh, Kerala & Mahe, South Interior Karnataka & Coastal Karnataka on 15th & 16th 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, Uttarakhand, Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, West Bengal, Odisha, Jharkhand, Bihar, Punjab, Haryana, Tamil Nadu, Kerala, Lakshadweep, Karnataka and Rayalaseema.
- ➤ In **Himachal Pradesh** and **Uttarakhand**, harvest the matured apples and vegetable crops 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 16-08-2024:

Low to Moderate Flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions/ Districts in next 06 hours.

Jammu & Lashmir & Ladakh – Bandipore, Badgam, Kupwara, Kulgam, Reasi, Samba, Kathua, Udhampur, Doada, Kistwar, Jammu and Rajouri, districts.

Himachal Pradesh – Chamba, Mandi, Shimla, Sirmour and Kangra districts.

Uttarakhand – Dehradun, Tehri Garhwal, Rudraprayag, Bageshwar, and Uttarkashi 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 16-08-2024:

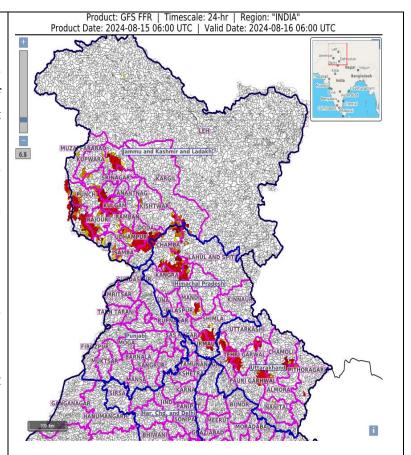
Low to Moderate Flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions/ Districts in next 06 hours.

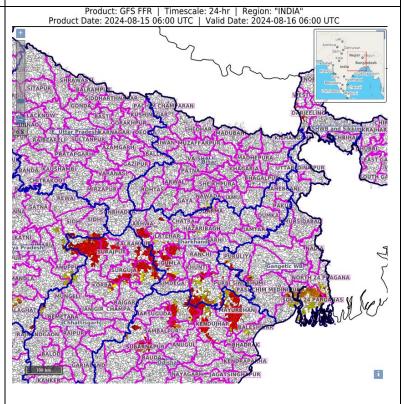
Odisha –Mayurbhnaj, Kendujgar, Sundergarh and Deogarh districts.

Chhattisgarh –Korea, Surjapur, Balrampur and Surguja districts.

Jharkhand –Pacshim Singhbhumi, Purvi Singhbhumi, Khunti, Lohardaga, Garwa and Gumla 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 16-08-2024 :

Low to Moderate Flash flood risk likely over few watersheds & neighbourhoods of following Met Sub-divisions/ Districts in next 06 hours.

East Rajasthan –Jhalawar, Kota, Baran, Bundi, Mandsaur, Bhilwara, Tonk, Jaipur and Ajmer districts.

West Madhya Pradesh –Sheopur, Guna, Ashoknagar and Shivpuri 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 16-08-2024 :

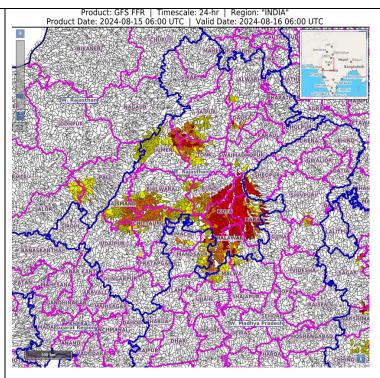
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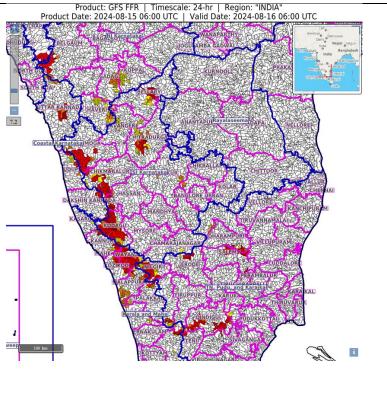
Kerala –Wayanad. Kozhikide, Kasargod, Mallapuram, Kannur and Palakkad districts.

South Interior Karnataka –Kodagu, Shiv Moga, Chikmaglur, Hassan and Chitradurga districts.

Coastal Karnataka – Dakshim Kannada, Uttar Kanada and Udupi 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:

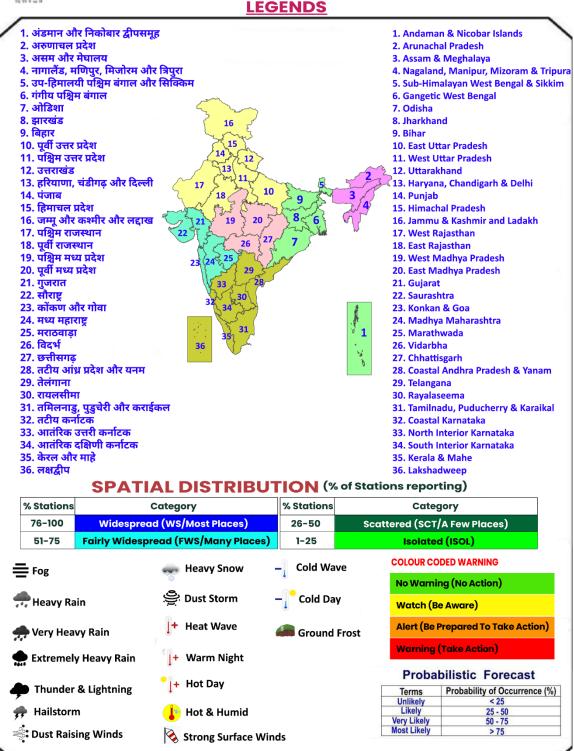
- **♦ Heavy Rain:**64.5-115.5mm; **Very Heavy Rain:**115.6-204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ Obsy: Observatory; AWS: Automatic Weather Station; ARG: Automatic Rain Gauge; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office, 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.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.



राष्ट्रीय मौसम पूर्वानुमान केन्द्र भारत मौसम विज्ञान विभाग पथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences



* Red colour warning does not mean "Red Alert", Red colour 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 https://mausam.imd.gov.in or contact: 011-2434-4599 (Service to the Nation since 1875)





	(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 ≥40° C for plains and ≥30° 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.
warm rugitt	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 (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: 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 Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 500-200 metres
	Very Dense Fog: when the visibility < 50 metres
Thunderstorm Dust/Sand Storm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder) An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
	Ice deposits on ground
_	ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
Frost	Air temperature ≤4°C (over Plains)
Frost	Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute.
	Air temperature ≤4°C (over Plains) A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph
Frost	Astrong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph
	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
/	Astrong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph
Squall	Astrong 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	Astrong 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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