

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 09th October, 2024 Time of Issue: 1300 hours IST

Subject: (i) A low pressure area formed over Lakshadweep and adjoining Southeast & eastcentral Arabian Sea on 09th October. It is likely to move northwestwards and intensify into a Depression over central Arabian Sea during next 3-4 days.
(ii) Isolated heavy rainfall activity very likely over Kerala & Mahe and Tamil Nadu during the week and over Coastal & ghat areas of Maharashtra and northeast India during next 3 days

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

Heavy to very Heavy rainfall at isolated places over Konkan & Goa, Coastal Karnataka & Arunachal Pradesh; **Heavy rainfall** at isolated places over Tamil Nadu, South Interior Karnataka, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Sub-Himalayan West Bengal & Sikkim.

On further Withdrawal of Southwest Monsoon

- ✓ The **line of withdrawal of Southwest Monsoon** continues to pass through 29°N/84°E, Nautanwa, Sultanpur, Panna, Narmadapuram, Khargaon, Nandurbar, Navsari and 20°N/70°E.
- Conditions are favourable for further withdrawal of Southwest Monsoon from remaining parts of Gujarat, Madhya Pradesh, Uttar Pradesh, some more parts of Maharashtra and some parts of Bihar during next 2-3 days.

Weather Systems:

- ✓ Under the influence of **upper air cyclonic circulation** over Lakshadweep and adjoining southeast Arabian Sea, **a low pressure area** has formed over Lakshadweep and adjoining Southeast & eastcentral Arabian Sea. It is likely to move northwestwards and intensify into **a Depression** over central Arabian Sea during next 3-4 days.
- ✓ A trough runs from Comorin area to north Konkan coast across the cyclonic circulation associated with Low Pressure area over Lakshadweep and adjoining Southeast & eastcentral Arabian Sea in lower tropospheric levels.
- ✓ Another cyclonic circulation lies over Sri Lanka & neighbourhood in lower & middle tropospheric levels.
- ✓ A **cyclonic circulation** lies over east Assam & neighbourhood in lower tropospheric levels.

Forecast & Warnings (upto 7 days) (Annexure II & III):

South Peninsular India

✓ Fairly widespread to widespread light to moderate rainfall very likely over Lakshadweep, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal, Coastal & South Interior Karnataka; Isolated to Scattered

light to moderate rainfall very likely over North Interior Karnataka, Rayalaseema, Telangana, Coastal Andhra Pradesh & Yanam during the week.

- ✓ Isolated heavy to very heavy rainfall very likely over Tamil Nadu during 12th−14th; Kerala & Mahe on 12th & 13th October.
- Isolated heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal during the week; over Lakshadweep 09th & 10th; Coastal Karnataka on 09th, 10th & 13th; South Interior Karnataka during 09th-13th and over South Interior Karnataka on 11th October.

Northeast India

- ✓ Scattered to Fairly widespread light to moderate rainfall very likely over North East India during next 5 days; Isolated to scattered light rainfall over the region subsequent next 2 days.
- Isolated heavy rainfall very likely over Arunachal Pradesh and Assam & Meghalaya during 09th 11th and over Nagaland, Manipur, Mizoram & Tripura on 09th October.

West India

- ✓ Scattered to Fairly widespread light to moderate rainfall very likely over Konkan & Goa during the week; Isolated to scattered light to moderate rainfall over remaining region during the week.
- Isolated heavy rainfall very likely over Konkan & Goa & Madhya Maharashtra during 09th-12th October.

Northwest, East & Central India:

✓ No significant rainfall likely over these regions during next one week.

Fishermen warning

✓ Squally weather with wind speed 35 kmph to 45 kmph gusting to 55 kmph is likely to prevail over Maldives, Lakshadweep Comorin areas, southeast Arabian sea and adjoining southwest Arabian sea, along and off Kerala, Karnataka, goa, off Maharashtra coasts and adjoining east central Arabian sea and gulf of Mannar. during 9th -11th; along and off south Sri Lanka coast, some parts of southwest Bay of Bengal and adjoining southeast Bay of Bengal on 12th; over many parts of west central Arabian sea and adjoining east central and north Arabian sea and eastern parts of southwest Arabian sea, along and off south Sri Lanka coast and adjoining southwest Bay of Bengal on 13th October. Fishermen are advised not to venture into these areas during the period.

Southwest Monsoon withdrawal Map (ANNEXURE IV)

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all_india_forcast_bulletin.php For District wise warnings refer: https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php For Fishermen warnings, kindly refer: https://rsmcnewdelhi.imd.gov.in/uploads/archive/51/51 bdf575 GRAPHIC.png

ANNEXURE I

Significant Rainfall recorded during past 24 hours till 0830 hours IST of today 09.10.2024 (in cm):

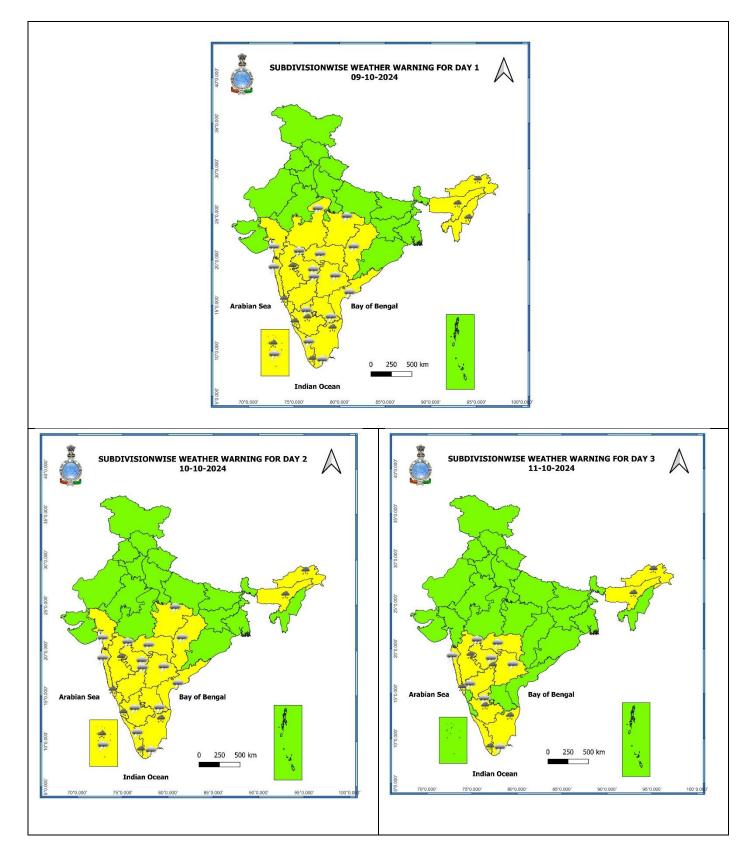
- Konkan & Goa: Ponda (dist North Goa) 13, Rameshwar_agri (dist Sindhudurg) 13, Sanguem (dist South Goa) 13, Dabolim N.a.s.- Navy (dist South Goa) 12, Valpoi (dist North Goa) 11, Quepem (dist South Goa) 11, Margao (dist South Goa) 11, Panjim - Imd Obsy (dist North Goa) 10, Mapusa (dist North Goa) 9, Mormugao - Pmo Imd (dist South Goa) 8, Kankavli (dist Sindhudurg) 7,
- Coastal Karnataka: Kiravatti (dist Uttara Kannada) 13, Mundgod (dist Uttara Kannada)8, Kadra (dist Uttara Kannada) 8, Siddapura (dist Udupi) 8, Jagalbet (dist Uttara Kannada) 7,
- Arunachal Pradesh: Huri (AWS) (dist Kurung Kumey) 12, Daporijo (CWC) (dist Upper Subansiri)
 9, Sejosa (dist Pakke Kessang) 8, Yingkiong (CWC) (dist Upper Siang) 7, Itanagar (dist Papumpara)
 7,
- Sub-Himalayan West Bengal & Sikkim: Alipurduar (pto) (dist Alipurduar) 9, Khanitar (dist Pakyong) 9, Majitar (dist Pakyong) 8, Kumargram (dist Alipurduar) 7,
- South Interior Karnataka: Hunchadakatte (dist Shivamogga) 9, Tyagarthi (dist Shivamogga) 7, Jayapura (dist Chikkamagaluru) 7, N R Pura (dist Chikkamagaluru) 7,
- Tamil Nadu: Karur AWS (dist Karur), Mayanur (dist Karur) 8 each; Perambalur (dist Perambalur), PWD Makkinampatti (dist Coimbatore), Vellakoil (dist Tiruppur), Chengam (dist Tiruvannamalai) 7 each;
- Assam & Meghalaya: Chauldhowaghat (dist Lakhimpur) 7,
- Nagaland, Manipur, Mizoram & Tripura: Kamalpur (dist Dhalai) 7,

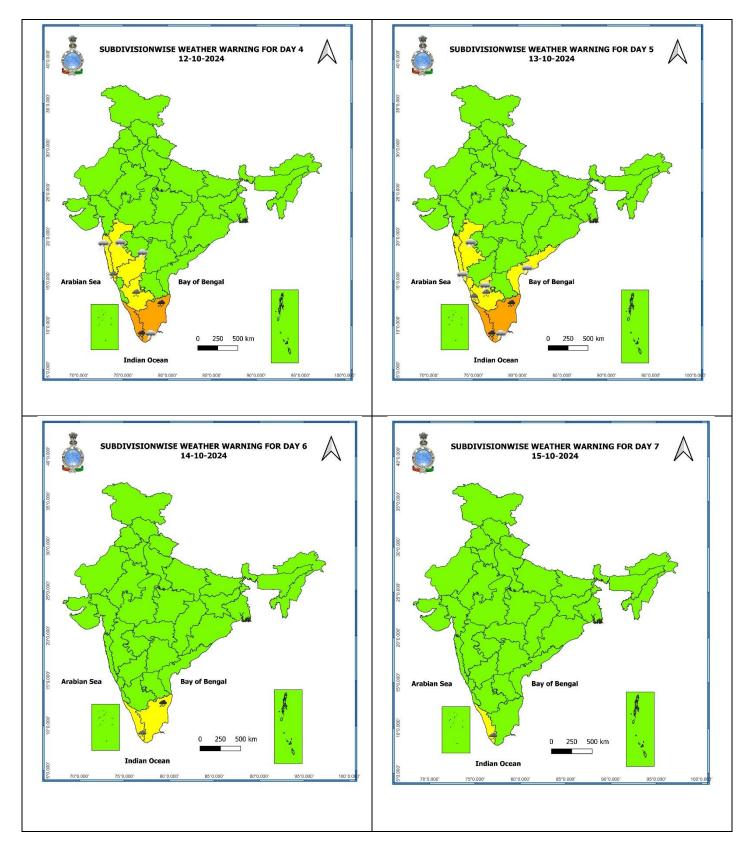
ANNEXURE II

7 Days Rainfall Forecast								
S. No.	Subdivision	09-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	SCT	SCT	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	FWS	FWS	SCT	SCT	SCT	SCT	SCT
3	ASSAM & MEGHALAYA	FWS	FWS	SCT	SCT	SCT	ISOL	ISOL
4	NAGALAND, MANIPUR, MIZORAM & TRIPURA	FWS	FWS	SCT	SCT	ISOL	ISOL	ISOL
5	SUB-HIMALAYAN WEST BENGAL & SIKKIM	FWS	SCT	SCT	ISOL	ISOL	ISOL	ISOL
6	GANGETIC WEST BENGAL	SCT	SCT	SCT	ISOL	ISOL	DRY	DRY
7	ODISHA	ISOL						
8	JHARKHAND	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
9	BIHAR	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
10	EAST UTTAR PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
11	WEST UTTAR PRADESH	DRY						
12	UTTARAKHAND	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
13	HARYANA CHANDIGARH & DELHI	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
14	PUNJAB	ISOL	DRY	DRY	ISOL	DRY	DRY	DRY
15	HIMACHAL PRADESH	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	SCT	ISOL	DRY	DRY	DRY	DRY	DRY
17	WEST RAJASTHAN	ISOL	DRY	DRY	DRY	DRY	DRY	DRY
18	EAST RAJASTHAN	DRY						
19	WEST MADHYA PRADESH	ISOL						
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
21	GUJARAT REGION	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	DRY	DRY	DRY	DRY
23	KONKAN & GOA	FWS	FWS	FWS	SCT	SCT	SCT	FWS
24	MADHYA MAHARASHTRA	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
25	MARATHAWADA	ISOL						
26	VIDARBHA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
27	CHHATTISGARH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
28	COASTAL ANDHRA PRADESH & YANAM	SCT	SCT	ISOL	ISOL	SCT	SCT	SCT
29	TELANGANA	SCT	SCT	SCT	ISOL	ISOL	SCT	SCT
30	RAYALASEEMA	SCT						
31	TAMILNADU PUDUCHERRY & KARAIKAL	FWS	FWS	FWS	WS	WS	FWS	SCT
32	COASTAL KARNATAKA	WS	FWS	FWS	FWS	SCT	SCT	SCT
33	NORTH INTERIOR KARNATAKA	SCT	SCT	SCT	ISOL	ISOL	SCT	ISOL
34	SOUTH INTERIOR KARNATAKA	FWS	FWS	FWS	FWS	SCT	SCT	SCT
35	KERALA & MAHE	WS						
36	LAKSHADWEEP	WS						

• As the lead period increases forecast accuracy decreases.

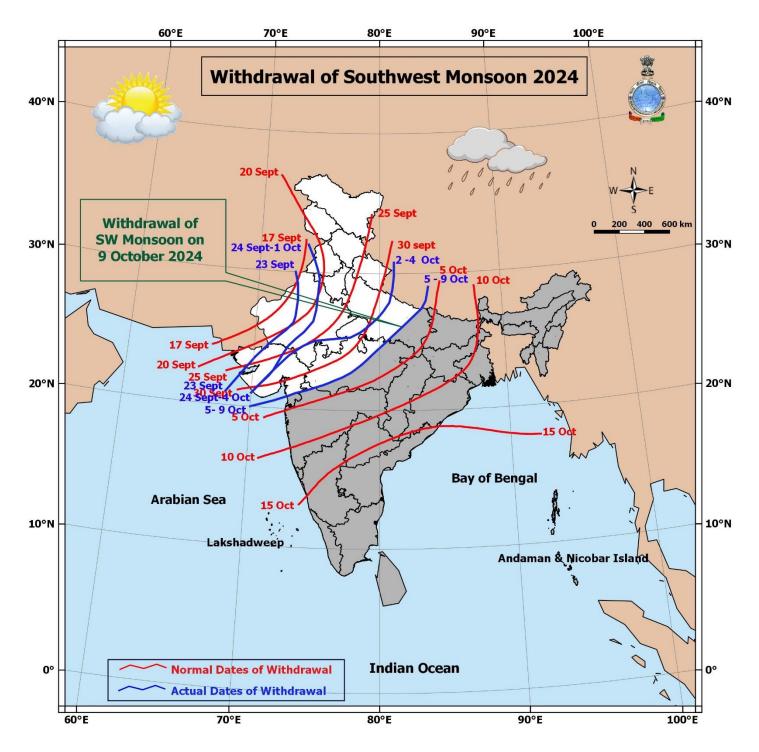
ANNEXURE III





- 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.

ANNEXURE IV



Impact due to

✓ Isolated heavy to very heavy rainfall very likely over Tamil Nadu during 12th−14th; Kerala & Mahe on 12th & 13th October.

Impact Expected

- ✓ 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 and roadways 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 and wind.
- ✓ It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

Action Suggested

- ✓ Judicious regulation of surface transports including railways and roadways.
- ✓ 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

- In Tamil Nadu, drain out excess water from rice nurseries and recently transplanted rice fields; postpone harvesting of matured millet crops.
- Make necessary arrangements for draining out excess water from standing crop fields and fruit orchards to avoid water stagnation in Konkan & Goa, Madhya Maharashtra, Kerala, Lakshadweep, Coastal and South Interior Karnataka and and North Eastern States.
- > Keep the harvested produce at safer places.
- > Provide mechanical support to horticultural crops & staking to vegetables.

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 पृथ्वी विज्ञान मंत्रालय



National Weather Forecasting Centre India Meteorological Department Ministry of Earth Sciences

		<u>FENDS</u>			
1. अंडमान और निकोबार द्वीप	ासमूह		1. Andaman & Nicobar Islands		
2. अरुणाचल प्रदेश 3. असम और मेघालय			2. Arunachal Pradesh		
. असम आर मयालय 4. नागालैंड, मणिपुर, मिजोरम	और निमय		3. Assam & Meghalaya		
4. नागालड, माणपुर, मिजारम 5. उप-हिमालयी पश्चिम बंगाल	आर ।त्रपुर। और गिलिस्म		4. Nagaland, Manipur, Mizoram & Tripur		
6. गंगीय पश्चिम बंगाल	जारासायकम		5. Sub-Himalayan West Bengal & Sikkim 6. Gangetic West Bengal		
र. ओडिशा	and and		7. Odisha		
8. झारखंड			8. Jharkhand		
9. बिहार	16		9. Bihar		
10. पूर्वी उत्तर प्रदेश	15		10. East Uttar Pradesh		
11. पश्चिम उत्तर प्रदेश	14 12		11. West Uttar Pradesh		
12. उत्तराखंड	13		12. Uttarakhand		
13. हरियाणा, चंडीगढ़ और दि	eef 17 5 m 11	ma E	13. Haryana, Chandigarh & Delhi		
14. पंजाब		Sa fa	3 14. Punjab		
15. हिमाचल प्रदेश	the per of german	man R	15. Himachal Pradesh		
16. जम्मू और कश्मीर और लह		1 8 ~ 6 {	16. Jammu & Kashmir and Ladakh		
17. पश्चिम राजस्थान	22 The share	from the	17. West Rajasthan		
18. पूर्वी राजस्थान	26 27	7 >	18. East Rajasthan		
19. पश्चिम मध्य प्रदेश	25 25		19. West Madhya Pradesh		
20. पूर्वी मध्य प्रदेश	23 24 29 29	M	20. East Madhya Pradesh		
21. गुजरात	5 33 2 28	5	21. Gujarat		
22. सौराष्ट्र	32 30		22. Saurashtra		
23. कोंकण और गोवा	32 34		23. Konkan & Goa		
24. मध्य महाराष्ट्र	Roman Company		24. Madhya Maharashtra		
25. मराठवाड़ा	35, 31		1 25. Marathwada		
26. विदर्भ	36		26. Vidarbha		
27. छत्तीसगढ़	•		27. Chhattisgarh		
28. तटीय आंध्र प्रदेश और यन	म		28. Coastal Andhra Pradesh & Yanam		
29. तेलंगाना		29. Telangana			
30. रायलसीमा			30. Rayalaseema		
31. तमिलनाडु, पुडुचेरी और व	नराईकल	31. Tamilnadu, Puducherry & Karaikal			
32. तटीय कर्नाटक			32. Coastal Karnataka		
33. आतंरिक उत्तरी कर्नाटक		33. North Interior Karnataka			
34. आतंरिक दक्षिणी कर्नाटक	1		34. South Interior Karnataka		
35. केरल और माहे			35. Kerala & Mahe		
36. लक्षद्वीप			36. Lakshadweep		
SPA	FIAL DISTRIBU	TION (%	of Stations reporting)		
% Stations	Category	% Stations	Category		
	read (WS/Most Places)	26-50	Scattered (SCT/A Few Places)		
51-75 Fairly Wide					
51-75 Fairly wide	spread (FWS/Many Places)	1-25	isolated (ISOL)		
	spread (FWS/Many Places)	1-25 	Isolated (ISOL)		
Fog	Heavy Snow	– Cold Way	Isolated (ISOL) Ve COLOUR CODED WARNING No Warning (No Action)		
Fog			Isolated (ISOL) Ve COLOUR CODED WARNING No Warning (No Action)		
Fog Heavy Rain	Heavy Snow	– Cold Way	Isolated (ISOL) ve COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Frost Alert (Be Prepared To Take Action)		
Fog Heavy Rain Very Heavy Rain	الله Heavy Snow في Dust Storm	- Cold Way	Isolated (ISOL) ve COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware)		
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain	Heavy Snow Dust Storm + Heat Wave	- Cold Way	Isolated (ISOL) ve COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) Probabilistic Forecast		
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain Thunder & Lightning	Heavy Snow Dust Storm + Heat Wave + Warm Night + Hot Day	- Cold Way	Isolated (ISOL) ve COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) Probabilistic Forecast Terms Probability of Occurrence (%) Unlikely < 25		
Fog Heavy Rain Very Heavy Rain Extremely Heavy Rain	Heavy Snow Dust Storm + Heat Wave + Warm Night	- Cold Way	Isolated (ISOL) ve COLOUR CODED WARNING No Warning (No Action) Watch (Be Aware) Alert (Be Prepared To Take Action) Warning (Take Action) Probabilistic Forecast Terms Probability of Occurrence (%)		

* 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)





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*	Heavy: 64.5 to 115.5 tm //cm *
ain/ 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
leat Wave	(b). Based on Actual maximum temperature Heat Wave: When actual maximum temperature ≥45°C.
	Severe Heat Wave: When actual maximum temperature ≥45 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
/arm Night	Warm Night: When minimum temperature departure 4.5 °C to 6.4 °C.
	Severe Warm Night: When minimum temperature departure >6.4 °C.
	When minimum temperature of a station $\leq 10^{\circ}$ C for plains and $\leq 0^{\circ}$ C for hilly regions. (a). Based on departure
	Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.
Cold Wave	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
	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
	Moderate Fog: When the visibility between 500-200 metres
Fog	Dense Fog: when the visibility between 50- 200 metres
	Very Dense Fog: when the visibility < 50 metres
understorm	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.
	Ice deposits on ground
Frost	Air temperature ≤4°C (over Plains)
	A strong wind that rises suddenly, lasts for atleast 1 minute.
	Moderate: Wind speed 52-61 kmph
Squall	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
Sea State	High 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)
Cyclone	Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots) Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)
	Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots) Super Cyclone Strom: Wind speed >220 kmph (>119 knots)

For a colour warning uses not mean ked Alert, ked colour warning means "Take Action". For cast 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)