राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

Monday, December 04, 2023
Time of Issue: 0800 hours IST
(MORNING)

All India Impact Based Weather Warning Bulletin

04 December (Day 1):

- **Heavy to very heavy rainfall** at a few places **with isolated extremely heavy rainfall** very likely over north coastal Tamil Nadu & Puducherry; **Heavy to very heavy rainfall with isolated extremely heavy rainfall** at isolated places over Rayalaseema, Coastal Andhra Pradesh; **Heavy rainfall** at isolated places over Telangana and Odisha.
- **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over East Madhya Pradesh, Kerala & Mahe and **with lightning** at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Vidarbha, Telangana and Tamil Nadu, Puducherry & Karaikal.
- **Dense Fog** very likely in isolated pockets over Punjab, Haryana-Chandigarh-Delhi.

Wind warning for next 3 days:

- **Southwest Bay of Bengal along & off north Tamil Nadu-Puducherry Coasts:** Gale wind speed reaching 75-85 kmph gusting to 95 kmph is prevailing over Southwest Bay of Bengal. It is likely to gradually increase becoming 80-90 kmph gusting to 100 kmph from 4th December morning for subsequent 12 hours. It will gradually decrease thereafter.
- **Westcentral Bay of Bengal and along & off south Andhra Pradesh Coast:** Squally wind speed reaching 70-80 kmph gusting to 90 kmph is prevailing over westcentral Bay of Bengal. It is likely to gradually increase becoming Gale Wind speed reaching 80-90 kmph gusting to 100 kmph from 4th morning and 90-100 kmph gusting to 110 kmph from 4th evening till 5th December noon. It would gradually decrease thereafter.
- **Along & off north Andhra Pradesh Coast:** Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely from 4th December evening, likely to gradually increase becoming 55-65 kmph gusting to 75 kmph from 5th December morning for subsequent 24 hours. It would gradually decrease thereafter.
- **Along & off Odisha Coast:** Squally wind speed reaching 35-45 kmph gusting to 55 kmph likely from 4th December evening, likely to gradually increase becoming 40-50 kmph gusting to 60 kmph from 5th December evening for subsequent 12 hours. It would gradually decrease thereafter.

05 December (Day 2):

- **Heavy to very heavy rainfall with extremely heavy rainfall** at isolated places very likely over Coastal Andhra Pradesh; **Heavy to very heavy rainfall** at isolated places over Odisha, Telangana; **Heavy rainfall** at isolated places over north coastal Tamil Nadu & Puducherry and Rayalaseema.
- **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** very likely at isolated places over Vidarbha, East Madhya Pradesh and **with lightning** at isolated places over Telangana and Tamil Nadu, Puducherry & Karaikal.
- **Gale Wind speed reaching 90-100 kmph gusting to 110 kmph** is very likely over Westcentral Bay of Bengal & along & off south Andhra Pradesh coast**; Squally weather with wind speed reaching 55-65 kmph gusting to 75 kmph** over north Andhra Pradesh coast; **Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph** over along & off Odisha coast; Fishermen are advised not to venture into these areas.

06 December (Day 3):

- **Heavy rainfall** likely at isolated places over north Coastal Andhra Pradesh and Odisha.
- **Thunderstorm accompanied with lightning & gusty winds (speed 30-40 kmph)** likely at isolated places over East Madhya Pradesh and Vidarbha.

07 December (Day 4):

- **No warnings**

08 December (Day 5):

- **No warnings**

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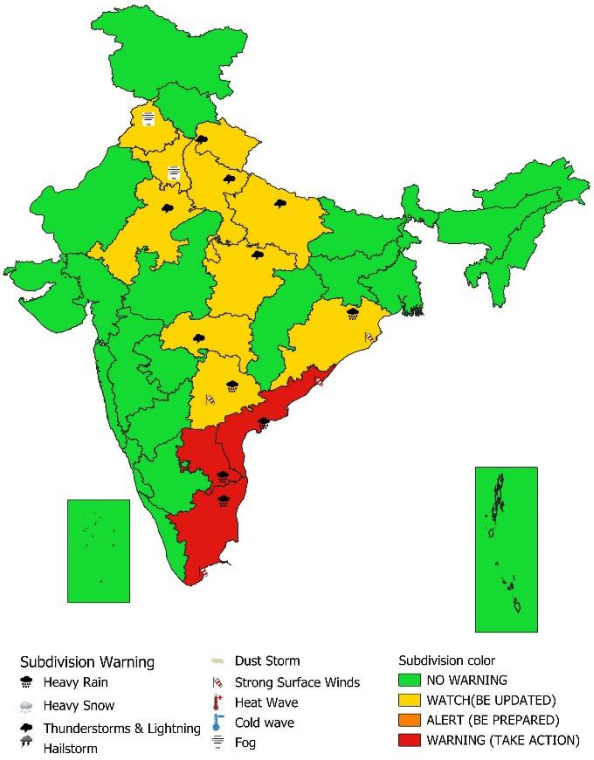
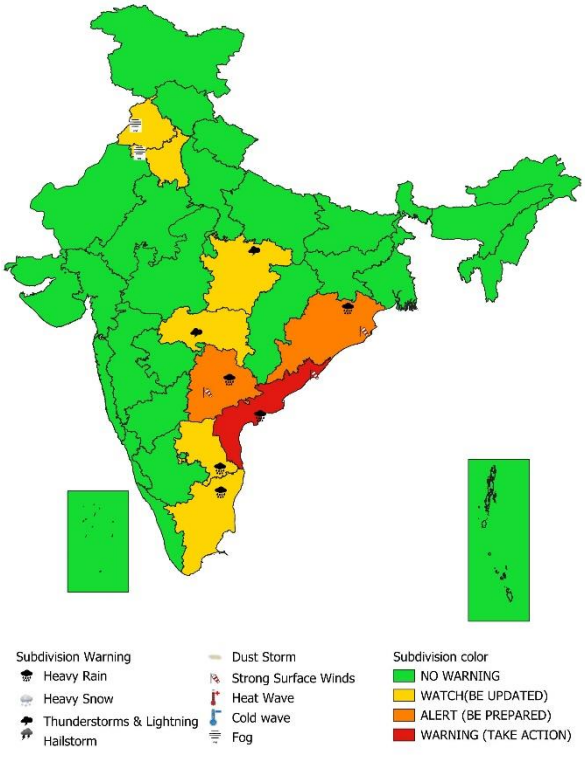
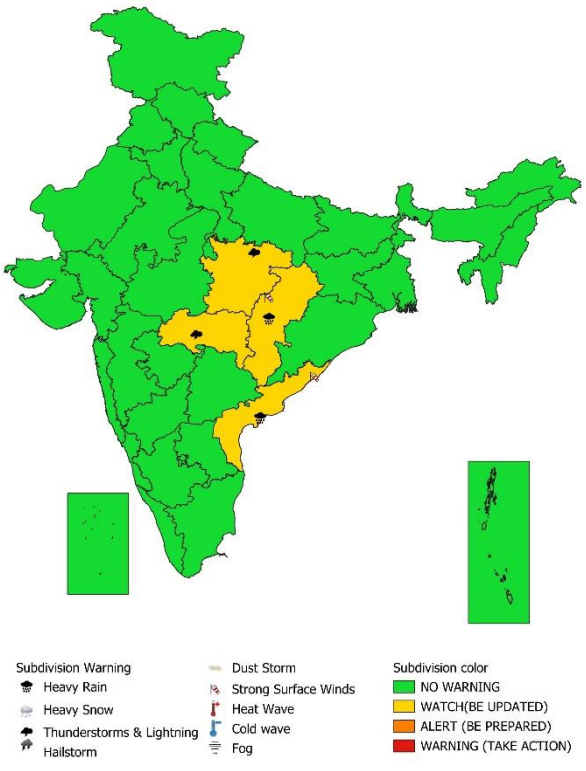
SUBDIVISIONWISE WEATHER WARNING FOR DAY 1
(4-12-2023)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 2
(5-12-2023)



SUBDIVISIONWISE WEATHER WARNING FOR DAY 3
(6-12-2023)



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Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day
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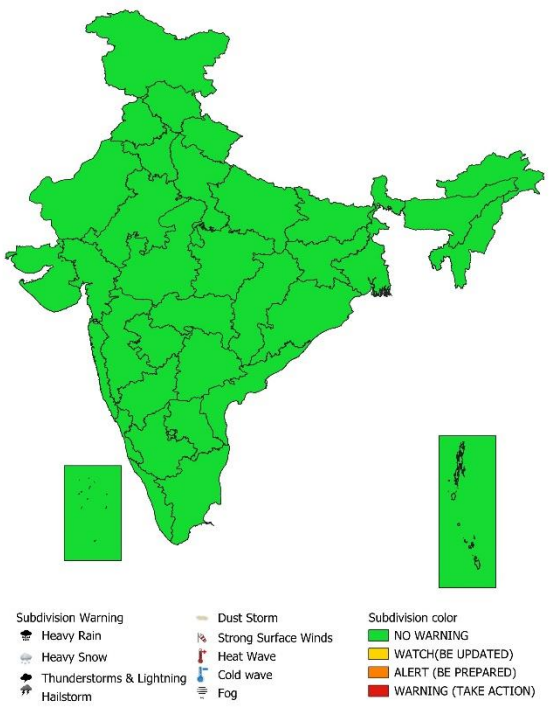
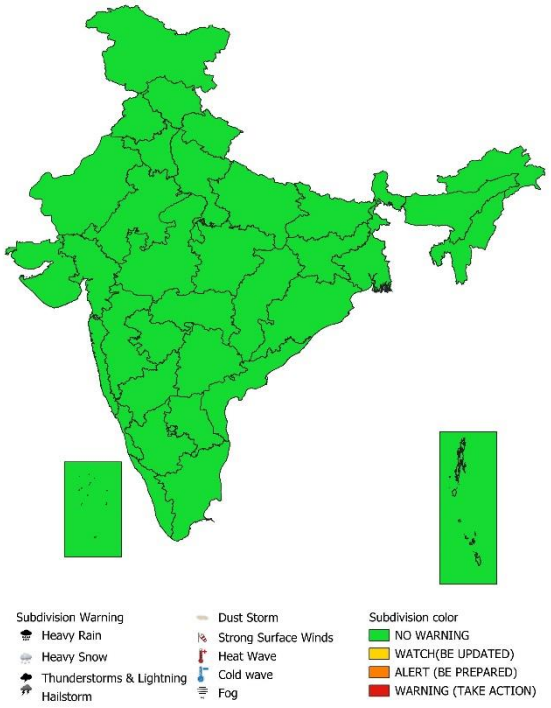
SUBDIVISIONWISE WEATHER WARNING FOR DAY 4
(7-12-2023)



Subdivision Warning
Heavy Rain
Heavy Snow
Thunderstorms & Lightning
Hailstorm
Dust Storm
Strong Surface Winds
Heat Wave
Cold wave
Fog
Subdivision color
NO WARNING
WATCH(BE UPDATED)
ALERT (BE PREPARED)
WARNING (TAKE ACTION)

SUBDIVISIONWISE WEATHER WARNING FOR DAY 5
(8-12-2023)



Subdivision Warning
Heavy Rain
Heavy Snow
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Hailstorm
Dust Storm
Strong Surface Winds
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NO WARNING
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i) Damage Expected over coastal districts of South Andhra Pradesh (Nellore, Tirupati Prakasam, Bapatla, Guntur, Krishna and West Godavari) and adjoining coastal districts of North Tamil Nadu-Puducherry:

- Major damage to thatched houses/ huts. Roof tops may blow off. Unattached metal sheets may fly.
- Possibilities of damage to vulnerable structure.
- Breaking of tree branches, uprooting of large avenue trees. Major damage to banana and papaya trees. Large dead limbs blown from trees.
- Minor damage to power and communication lines due to breaking of branches and uprooting of trees.
- Major damage to Kutcha and minor damage to Pucca roads due to heavy rain.
- Damage to paddy crops, horticultural crops and orchards.
- Sea water inundation in low lying areas after erosion of Kutcha embankments
- Inundation of low lying areas in coastal districts due to heavy rainfall and flash flood
- Localized Flooding of roads and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic due to water logging and squally winds
- Localized Landslides/Mudslides
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

(ii) Action Suggested for coastal districts of South Andhra Pradesh and adjoining coastal districts of North Tamil Nadu-Puducherry:

- Total suspension of fishing operations.
- Surface transport and shipping operations need to be regulated
- Onshore & Off shore operation need to be regulated as per guidelines
- Coastal hutment dwellers to be in safer places.
- People in affected areas to remain indoors.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

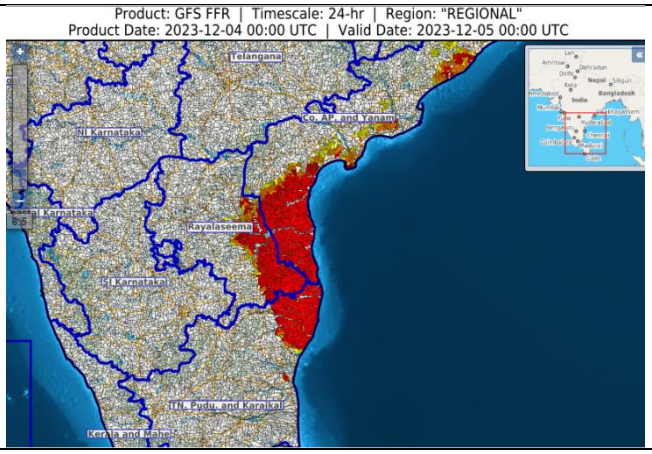
Fishermen Warning:

Fishermen are advised not to venture into:

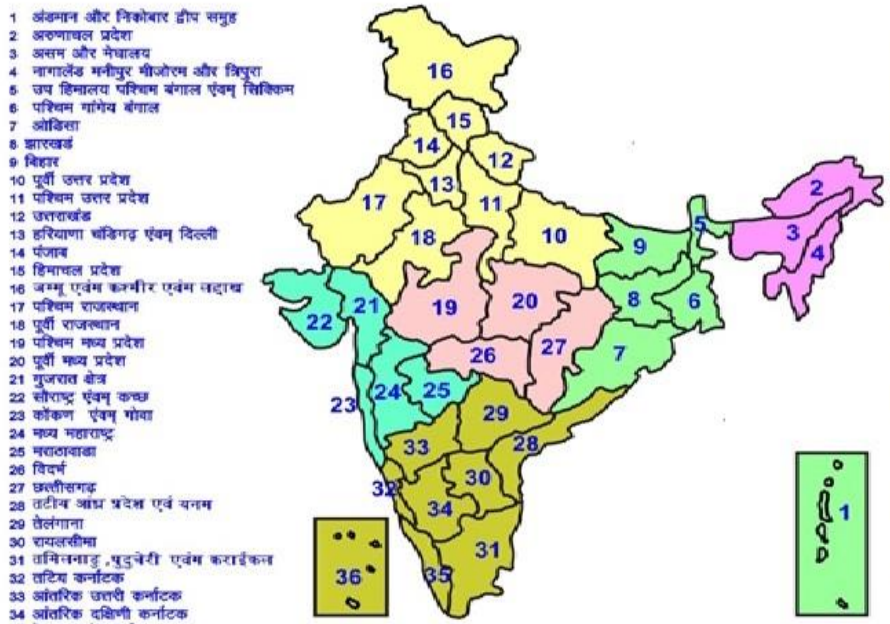
— Southwest Bay of Bengal and along & off North Tamil Nadu-Puducherry Coasts till 5th December.
— Westcentral Bay of Bengal and along & off Andhra Pradesh Coast till 6th December.
— Along & off Odisha coast from 4th December evening till 6th December

24 hours Outlook for the Flash Flood Risk (FFR) till 0530 IST of 05-12-2023:

Moderate to High flash flood risk likely over few watersheds & neighbourhoods of Coastal AP & Yanam and adjoining part of Rayalaseema Met Sub-divisions during next 24 hours.



LEGENDS



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 Widespred (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 ≥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

(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

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 °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

Fog

Phenomenon of small droplets suspended in air and the horizontal visibility < 1km

- **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 ≤4°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 Strom**: Wind speed >220 kmph (>119 knots)

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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