Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release
Date: 11th March 2026
Time of Issue: 1530 hours IST

Special Bulletin-04

Subject: Heat wave to severe heat wave conditions likely to continue over Gujarat state during 11th-13th March and abating thereafter.

1. Day and night temperature status (refer Annexure II)

During past 24 hours ending at 0830 hours IST of today:

- **Heat wave to severe heat wave conditions** prevailed in many places of Saurashtra & Kutch, in some places of Gujarat region and in isolated pockets over Himachal Pradesh, north Konkan; **Heat wave conditions** prevailed in isolated pockets of Vidarbha.

- **Maximum/day temperatures** were in the range of 38-42°C at many places over West Rajasthan, Gujarat state; at a few places over Chhattisgarh, Marathwada, Madhya Maharashtra, East Madhya Pradesh; at isolated places over East Rajasthan, West Madhya Pradesh, Vidarbha, Odisha, North Interior Karnataka, Kerala & Mahe; 35-38°C at many places over Coastal Andhra Pradesh & Yanam, Rayalaseema; at a few places over Haryana-Chandigarh-Delhi, Tamil Nadu, Puducherry & Karaikal; at isolated places over Telangana, West Uttar Pradesh. Yesterday, the highest maximum temperature of **42.0°C** was reported at **Rajkot (Gujarat Region)**.
- **Maximum Temperatures/day temperatures** were markedly above normal (5.1°C or more) at most places over Saurashtra & Kutch; at many places over Gujarat Region, Himachal Pradesh, Jammu & Kashmir-Ladakh, Rajasthan, Punjab, Haryana Chandigarh; at a few places over Delhi, Madhya Pradesh, Arunachal Pradesh; at isolated places over Uttarakhand, West Uttar Pradesh, Assam, Sub-Himalayan West Bengal & Sikkim, East Uttar Pradesh, north Konkan, Vidarbha, Chhattisgarh & Telangana; appreciably above normal (3.1°C to 5.0°C) at isolated places over Odisha, Madhya Maharashtra, Marathawada, Kerala & Mahe; above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over Nagaland, Manipur, Mizoram & Tripura; at isolated places over Coastal Andhra Pradesh & Yanam, Jharkhand, North Interior Karnataka and near normal over rest parts of the country.
- **Minimum/night temperatures** were in the range of 14–18°C over Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Madhya Pradesh, Sikkim, Assam & Meghalaya, Madhya Maharashtra, South Interior Karnataka. They were in the range of 18–22°C over remaining parts of the plains of the country, except Bihar, Gangetic West Bengal, Odisha, Konkan & Goa, Gujarat State, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Tamil Nadu, Andaman & Nicobar Islands and Lakshadweep, where they are in the range of 22–27°C. The lowest minimum temperature of **9.2°C** was observed at **Pali AWS (Rajasthan)** over the plains of India.
- **Minimum/night Temperature** were markedly above normal (5.1°C or more) over Jammu-Kashmir, Himachal Pradesh, Uttarakhand, West Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha, Gujarat State; appreciably above normal (3.1°C to 5.0°C) over Punjab, Haryana, Chandigarh & Delhi, remaining parts of Rajasthan, Madhya Pradesh, Jharkhand, Chhattisgarh, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura; above normal (1.6°C to 3.0°C) over Maharashtra, Kerala & Mahe and below normal (-3.0°C to -1.6°C) at isolated places over Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema and near normal over rest parts of the country.

2. Forecasts of Temperatures and Heat wave (refer Annexure I for Weather Warnings)

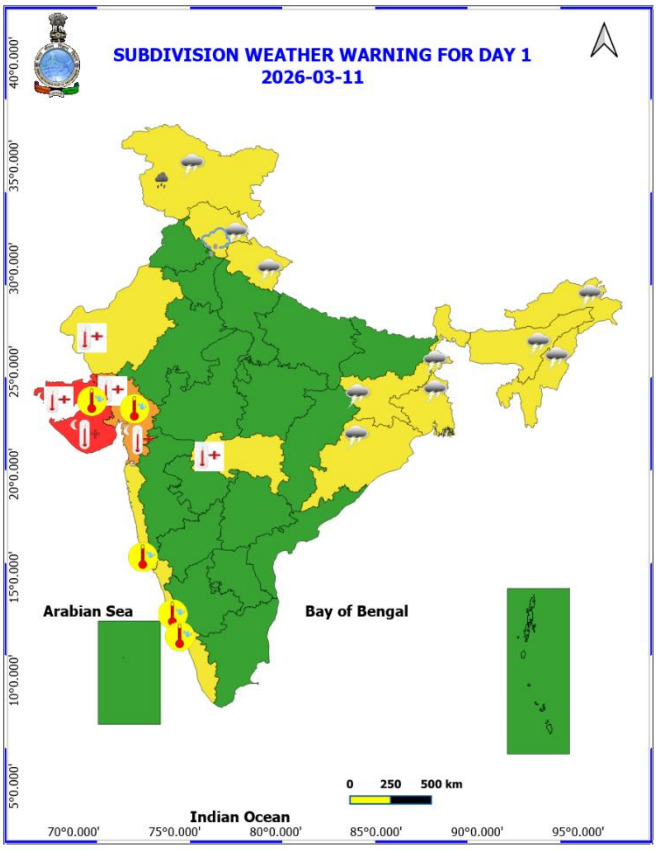
- Gradual fall in maximum temperature by 4-6°C likely over Western Himalayan region during next 7days & no significant change in maximum temperature likely over plains of Northwest India during next 24 hours; gradual fall by 2-4°C during subsequent 4 days and no significant change thereafter.
- **No significant change in maximum temperatures likely over Gujarat State during next 2 days and gradual fall by 2-4°C during subsequent 5 days.**
- No significant change in maximum temperatures likely over Central India during next 3 days and gradual fall by 3-5°C during subsequent 4 days.
- No significant change in maximum temperatures likely over East India during next 24 hours; gradual rise by 2-3°C during subsequent 3 days and gradual fall by 2-3°C during subsequent 3 days**.**
- No significant change in maximum temperatures likely over Northeast India during next 24 hours and gradual fall by 3-4°C during subsequent 4 days, no significant change thereafter for subsequent 2 days.
- Gradual fall in maximum temperature by 2-4°C likely over coastal Maharashtra during next 5 days and no significant change in maximum temperatures likely over interior Maharashtra during next 3 days and gradual fall by 2-3°C during subsequent 4 days**.**
- No significant change in maximum temperature likely over South Peninsular India during next 2 days and gradual rise by 2-3°C during subsequent 3 days, no significant change thereafter for subsequent 2 days.

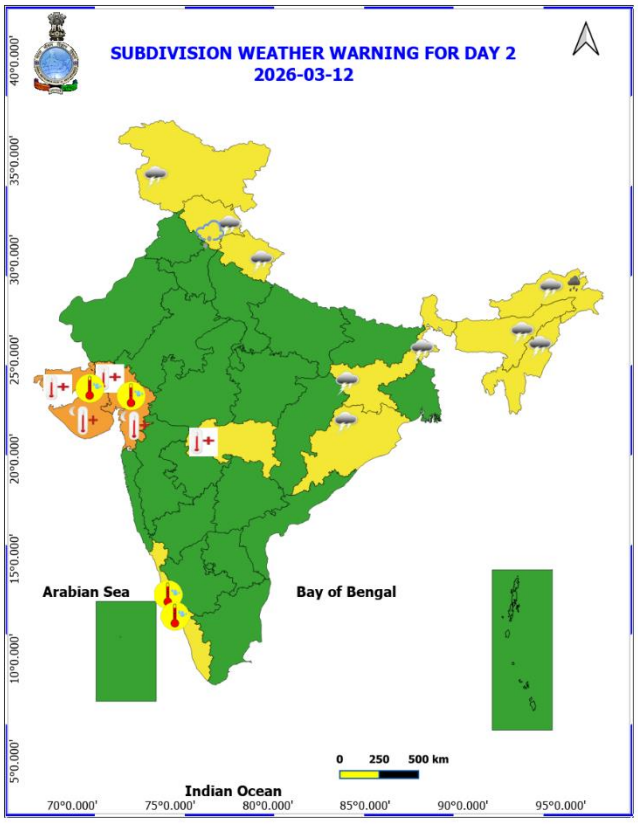
✓ Heat Wave Warnings (refer Annexure I for Weather Warnings)

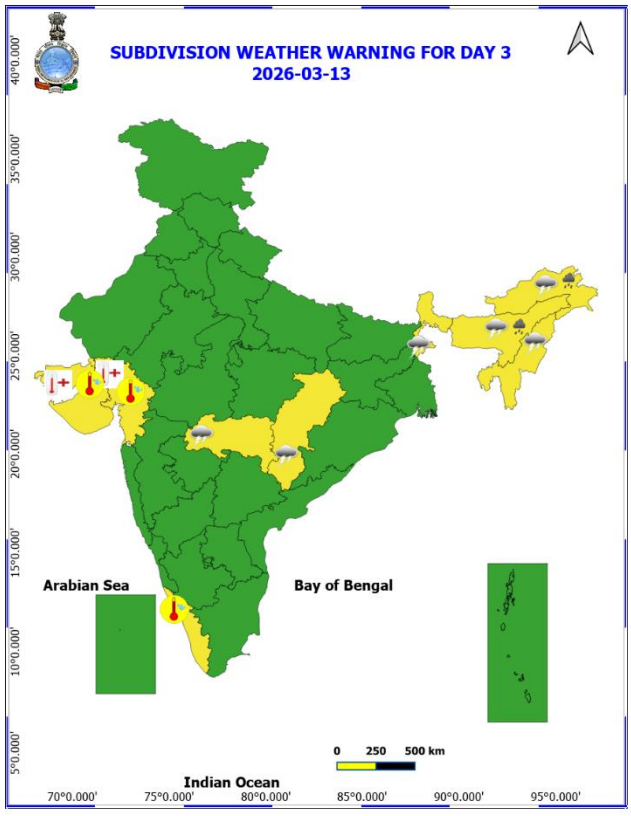
- **Heat wave to severe heat wave conditions** very likely in many/some places over Gujarat Region on 11th; Saurashtra & Kutch on 11th & 12th and **heat wave conditions** in isolated pockets over Gujarat Region on 12th & 13th and over Saurashtra & Kutch on 13th March.
- **Heat wave conditions** in isolated pockets over West Rajasthan on 11th; Vidarbha on 11th & 12th March.
- **Hot & humid conditions** very likely to prevail in isolated pockets over Konkan on 11th; coastal areas of Gujarat State and Kerala & Mahe during 11th-13th; Coastal Karnataka on 11th & 12th March.
- **Warm night conditions** very likely to prevail in isolated pockets over Gujarat State on 11th & 12th March.

For more details, kindly refer National Weather Bulletin:
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 detailed daily Press Release refer to https://internal.imd.gov.in/press_release/20260307_pr_4789.pdf

ANNEXURE I


SUBDIVISION WEATHER WARNING FOR DAY 1
2026-03-11
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km
40°0.000'
35°0.000'
30°0.000'
25°0.000'
20°0.000'
15°0.000'
10°0.000'
5°0.000'
70°0.000'
75°0.000'
80°0.000'
85°0.000'
90°0.000'
95°0.000'


SUBDIVISION WEATHER WARNING FOR DAY 2
2026-03-12
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km
40°0.000'
35°0.000'
30°0.000'
25°0.000'
20°0.000'
15°0.000'
10°0.000'
5°0.000'
70°0.000'
75°0.000'
80°0.000'
85°0.000'
90°0.000'
95°0.000'


SUBDIVISION WEATHER WARNING FOR DAY 3
2026-03-13
Arabian Sea
Bay of Bengal
Indian Ocean
0 250 500 km
40°0.000'
35°0.000'
30°0.000'
25°0.000'
20°0.000'
15°0.000'
10°0.000'
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70°0.000'
75°0.000'
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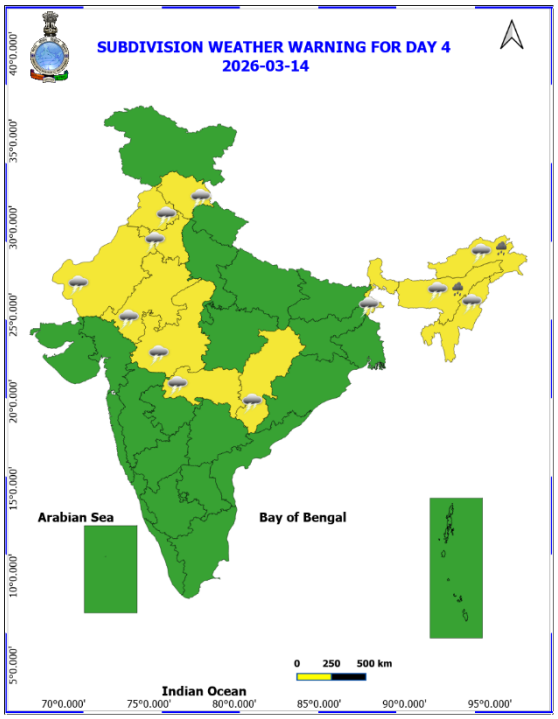
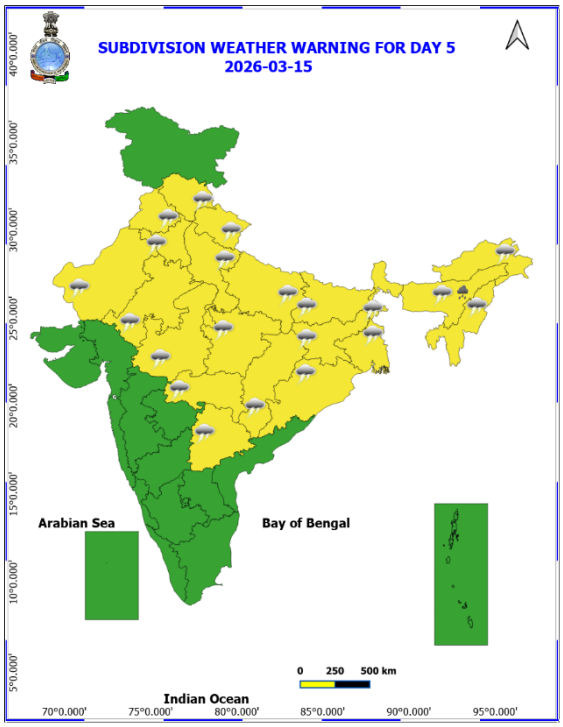
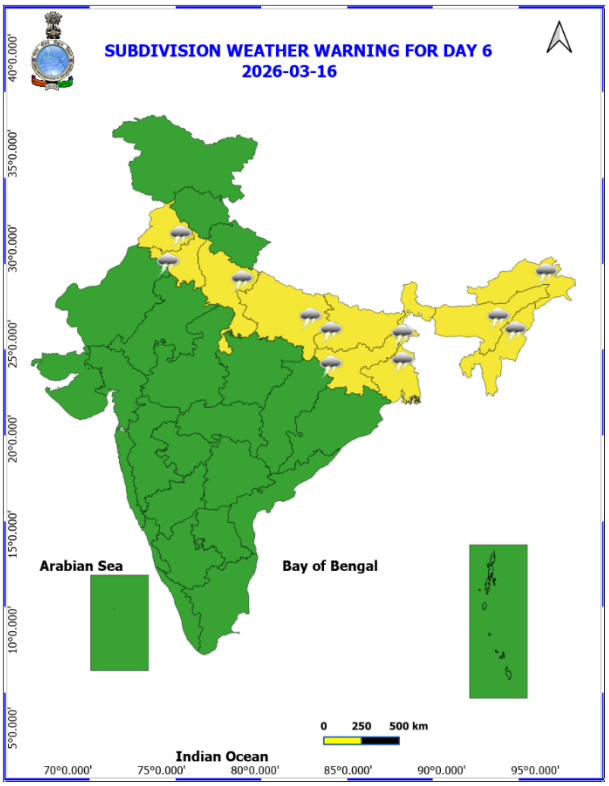
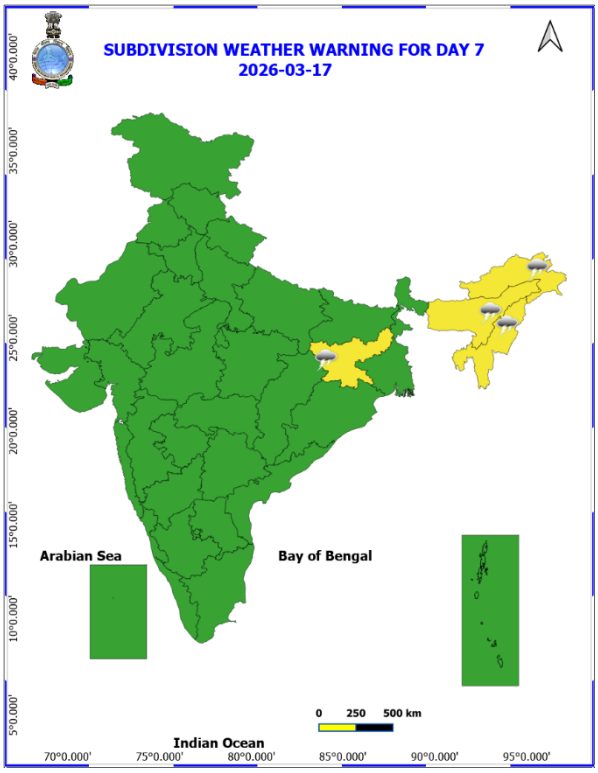
90°0.000'
95°0.000'







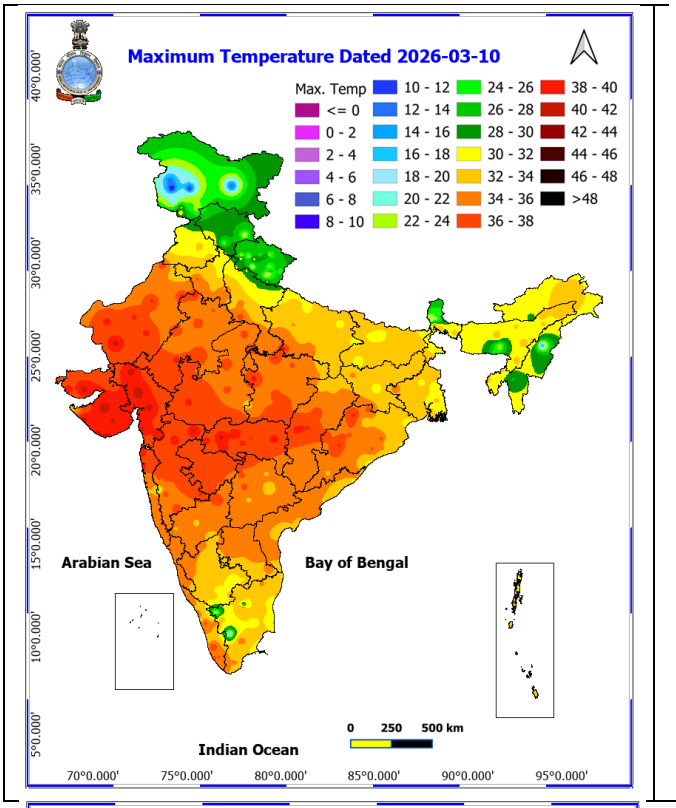


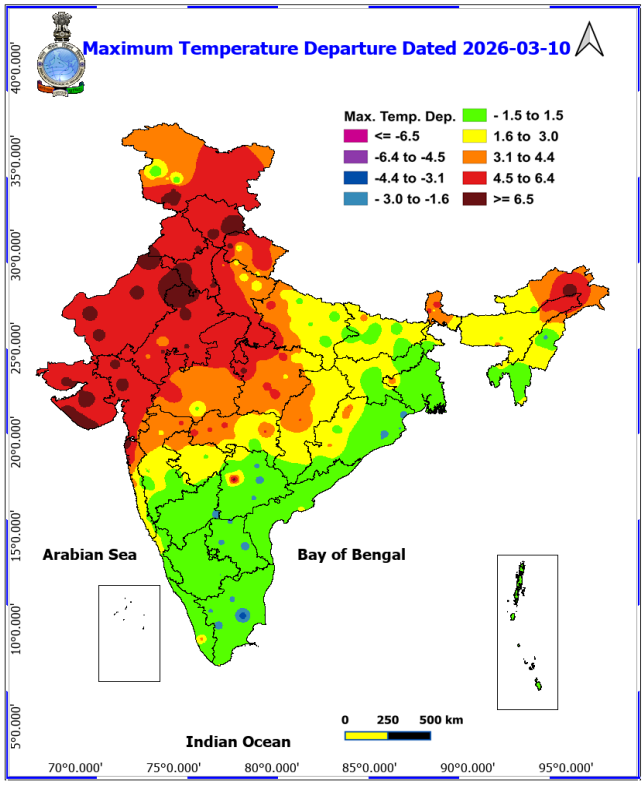
- **Action may be taken based on ORANGE AND REDCOLOUR warnings.**
- **Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.**
- **As the lead period increases forecast accuracy decreases.**

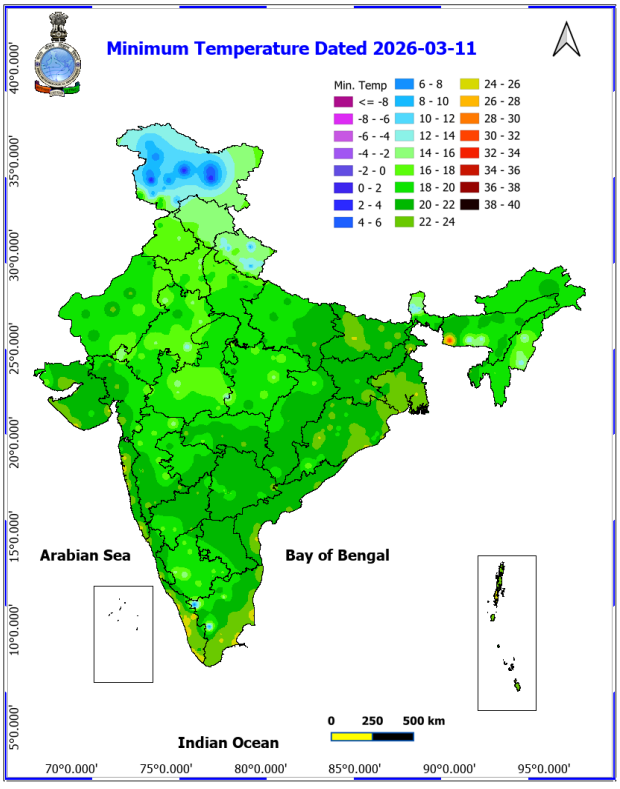
Detailed district-wise Multi-Hazard weather warning for next five days available at https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php

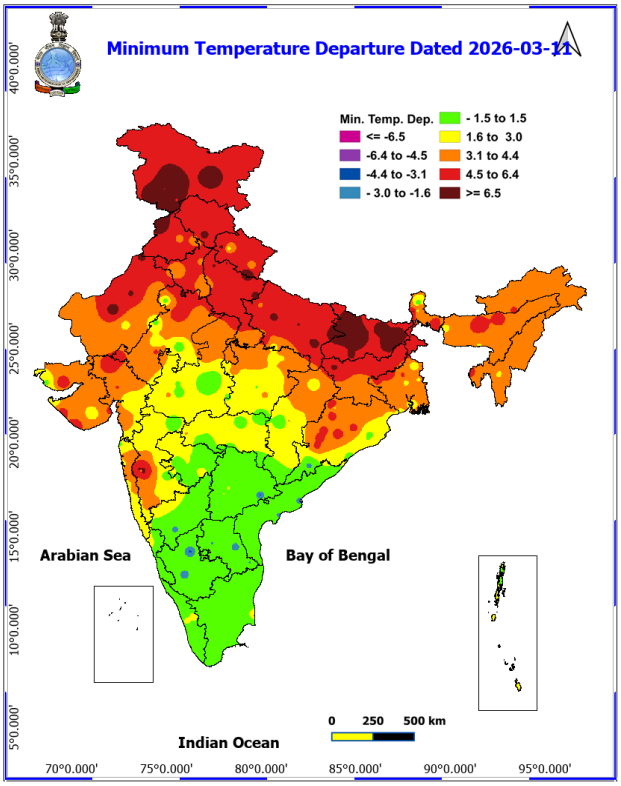
ANNEXURE II

Maximum and Minimum temperatures and their Departures









Impact expected and action suggested due Heat wave/severe heat wave conditions

- **Heat wave to severe heat wave conditions** very likely in many/some places over Gujarat Region on 11th; Saurashtra & Kutch on 11th & 12th and **heat wave conditions** in isolated pockets over Gujarat Region on 12th & 13th and over Saurashtra & Kutch on 13th March.
- **Heat wave conditions** in isolated pockets over West Rajasthan on 11th; Vidarbha on 11th & 12th March.

Red alert Areas

Very high likelihood of developing heat illness and heat stroke in all ages

Orange alert Areas

- High temperature & increased likelihood of heat illness symptoms in people who are either exposed to sun for a prolonged period or doing heavy work.
- High health concern for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure– keep cool. Avoid dehydration.
- Drink sufficient water- even if not thirsty.
- Use ORS, homemade drinks like lassi, torani (rice water), lemon water, buttermilk, etc. to keep yourself hydrated.

Yellow alert Areas

- Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- Avoid heat exposure.
- Wear lightweight, light colour, loose, cotton clothes.
- Cover your head, use a cloth, hat or umbrella.

Agromet advisories for likely impact of Above normal Temperatures

- Agromet advisories for likely impact of Hailstorms
- Use hail nets or hail caps in fruit orchards and vegetable plants to protect them from mechanical damage in Himachal Pradesh.

Likely Impact of Above normal Temperatures

- Increased evapotranspiration leading to soil moisture depletion and moisture stress, which may adversely affect crop growth, seed development and yield.
- Accelerated crop maturity, shortened grain filling duration and shrivelled grain formation, resulting in possible yield reduction in wheat crop.
- Increased moisture stress and reduced grain filling in cereals and other rabi crops such as rabi maize, sorghum and other late sown rabi crops (vegetative to reproductive stages).
- Flower drop, poor pod setting, premature pod drying and reduction in seed size and seed weight in oilseed and pulse crops.
- Reduced tuber bulking and early plant senescence in tuber crops such as potato.
- Flower drop, fruit sunscald and reduction in marketable yield in vegetable crops such as tomato, capsicum, cabbage and cauliflower.
- Flower drop, reduced fruit setting, premature fruit drop, fruit sunburn (or sunscald), reduction in fruit size, uneven ripening, deformities such as spongy tissue (especially in mango), along with an overall decrease in yield and quality in horticultural crops (such as mango, apple, orange, etc.),
- Increased crop water requirements and higher risk of water stress under limited irrigation conditions.
- Reduced feed intake, milk yield and egg production along with increased water requirement in livestock and poultry.

Agromet advisories for likely impact of Above normal Temperatures

- In **Gujarat,** apply light irrigation in wheat (grain filling stage), chickpea, cumin and vegetable crops in the morning and evening hours. Apply mulching with crop residues in vegetable crops to prevent heat damage and conservation of soil moisture. Protect vegetable nurseries and orchards against hot winds by physical barrier like wet gunny bag barriers of hay or sorghum.
- In **Maharashtra**, provide light and frequent irrigation during the evening or early morning hours to sapota, chilli, brinjal and tomato. Apply irrigation at frequent intervals to reduce premature fruit drop and sun scorching in mango and undertake pre-harvest bagging of mango fruits using newspaper bags to prevent sun scalding in **Konkan**. Apply irrigation in late sown *rabi* crops like wheat, groundnut, sesame, safflower, sorghum, orchards and vegetables as per requirement and use straw mulch to reduce evaporation losses in **Vidarbha**.
- In **Rajasthan,** provide protective irrigation in cumin, isabgol, mustard and gram during morning or evening hours to minimize heat stress.
- In **Punjab**, maintain optimum soil moisture through irrigation in mustard, gobhi sarson and potato. Provide irrigation to wheat at grain filling stage as required.
- In **Haryana,** provide light irrigation to mustard and gram at flowering and pod formation stages. Maintain optimum soil moisture in wheat during grain filling stage.
- In **Uttar Pradesh**, provide light irrigation in wheat (grain filling stage), mustard and gram crops during morning or evening hours to reduce adverse impacts of heat.
- In **Madhya Pradesh**, provide light and frequent irrigation in wheat and chickpea during critical stages. Complete harvesting of matured mustard during morning/evening hours and keep the produce in safe places.
- In **Chhattisgarh**, provide **light and frequent irrigation** in standing crops such as **wheat, chickpea, lentil and mustard** to minimize heat stress and maintain adequate soil moisture.
- Take appropriate action for conservation of soil moisture through mulching, proper field bunding, and avoiding unnecessary intercultivation.

Livestock / Poultry

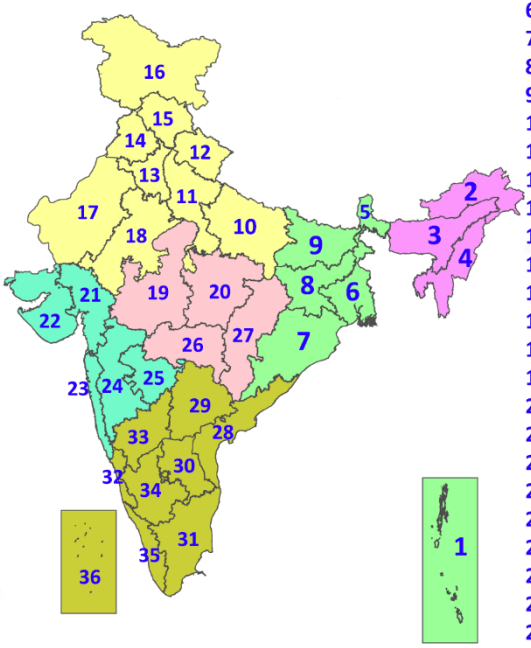
- Provide clean, hygienic and plenty of drinking water to animals.
- To reduce the effect of heat wave/high temperature, cover the roof of poultry sheds with grass.

राष्ट्रीय मौसम पूर्वानुमान केन्द्र
भारत मौसम विज्ञान विभाग
पृथ्वी विज्ञान मंत्रालय

National Weather Forecasting Centre
India Meteorological Department
Ministry of Earth Sciences

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और 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. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & 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. Marathwada
26. Vidarbha
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)

Fog
Heavy Rain
Very Heavy Rain
Extremely Heavy Rain
Thunder & Lightning
Hailstorm
Dust Raising Winds

Heavy Snow
Dust Storm
Heat Wave
Warm Night
Hot Day
Hot & Humid
Strong Surface Winds

Cold Wave
Cold Day
Ground Frost

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
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

* 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

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)

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