

Government of India Ministry of Earth Sciences India Meteorological Department



Press Release Date: 15<sup>th</sup> May, 2024 Time of Issue: 1315 hours IST

## Subject:

- i. A fresh spell of heat wave likely to commence over Northwest India from 16<sup>th</sup> May and East India from 18<sup>th</sup> May, 2024.
- ii. Wet spell with isolated heavy rainfall accompanied with thunderstorms, lightning & gusty winds very likely to continue over south Peninsular India till 20<sup>th</sup> May, 2024.
- iii. Southwest Monsoon is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 19<sup>th</sup> May, 2024.

## Realised weather during past 24 hours till 0830 hours IST of today: (details in Annexure I)

- Heavy rainfall observed at isolated places over Coastal Andhra Pradesh, Tamil Nadu, North Interior Karnataka and Kerala.
- Hailstorm activity observed at isolated places over Madhya Pradesh, Konkan, Marathwada, Vidarbha and Madhya Maharashtra.
- Thunderstorm observed at many paces over Madhya Pradesh; at some places over Gangetic West Bengal, Jharkhand, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Marathwada, Rajasthan, Chhattisgarh, Coastal Andhra Pradesh, Telangana, Rayalaseema, Karnataka, Kerala and Tamil Nadu.
- **Gusty winds** data reported over the country (in Kmph) is attached in Annexure II
- ✤ Yesterday, the highest maximum temperature of 44.0°C was reported at Nuapada (Odisha) over the country.

## Weather Systems and Forecast & Warnings: (Annexure III)

- Southwest Monsoon is very likely to advance into South Andaman Sea, some parts of Southeast Bay of Bengal and Nicobar Islands around 19<sup>th</sup> May, 2024.
- A cyclonic circulation lies over southwest Bay of Bengal & adjoining south Sri Lank and a trough runs from this cyclonic circulation to Lakshadweep in lower tropospheric levels. Another trough runs from South Interior Karnataka to east Vidarbha in lower tropospheric levels. Under their influence:
  - Isolated light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (40-60 kmph) very likely over Konkan & Goa, Madhya Maharashtra, Marathawada during 15<sup>th</sup>-17<sup>th</sup>; over Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Gujarat Region on 15<sup>th</sup> & 16<sup>th</sup> May. Isolated Hailstorm activity very likely over Konkan on 15<sup>th</sup>, Madhya Maharashtra on 15<sup>th</sup> & 16<sup>th</sup> May, 2024.
  - Scattered to fairly widespread with light to moderate rainfall very likely over Andaman & Nicobar Islands during next 7 days. *Isolated heavy rainfall very likely over Nicobar Islands on 19th May.*
  - Scattered to Fairly widespread light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (40-50 kmph) likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Karnataka and Isolated light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) over Coastal Andhra Pradesh & Yanam, Telangana and Rayalaseema during next 7 days.

- ✓ Isolated heavy rainfall very likely over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe, Coastal & South Interior Karnataka during 15<sup>th</sup>-19<sup>th</sup>; North Interior Karnataka on 15<sup>th</sup> & 16<sup>th</sup> May, 2024.
- ✓ Isolated very heavy rainfall also very likely over Tamil Nadu on 15<sup>th</sup>, 18<sup>th</sup> & 19<sup>th</sup> and Kerala on 19<sup>th</sup> May, 2024.
- A cyclonic circulation lies over Assam & neighbourhood and a trough in westerlies runs roughly along long.
   88°E to the north of lat. 21°N in lower tropospheric levels. Under its influence:
  - Scattered to fairly widespread light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (40-50 kmph) very likely over Sub-Himalayan West Bengal & Sikkim during next 7 days.
  - Scattered light to moderate rainfall accompanied with thunderstorm, lightning & gusty winds (30-40 kmph) very likely over Arunachal Pradesh, Assam, Meghalaya, Nagaland, Manipur, Mizoram and Tripura on 15<sup>th</sup> and likely to increase to fairly widespread to widespread rainfall during 16<sup>th</sup> -19<sup>th</sup> May, 2024.
  - Isolated heavy rainfall also likely over Arunachal Pradesh during 16th-19th and Assam & Meghalaya during 17th-19th May, 2024.
- A fresh Western Disturbance likely to affect Western Himalayan region form 17<sup>th</sup> May. Under their influence; Isolated to scattered light to moderate rainfall activity very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand during 17<sup>th</sup>-19<sup>th</sup> May, 2024.

## Maximum temperature observation and forecast for next 5 days:

- Areas having maximum temperatures greater than 40°C: Yesterday, maximum temperatures were in the range of 40- 42°C in some parts of Haryana-Chandigarh-Delhi, Rajasthan, East Uttar Pradesh, East Madhya Pradesh, Saurashtra & Kutch and Vidarbha and in isolated pockets of Madhya Maharashtra, Marathwada, Telangana, Chhattisgarh, Odisha, Jharkhand and West Uttar Pradesh.
- Gradual rise by about 3-4°C in maximum temperatures very likely over many parts of Northwest & East India during next 4 days and no significant change thereafter.
- Gradual rise by about 2-4°C in maximum temperatures very likely over many parts of Central India and Gujarat during next 4-5 days.
- No significant change in maximum temperatures very likely over rest parts of the country.

### Heat Wave and Hot & Humid weather warning for next 5 days:

- Heat wave conditions very likely in isolated/some pockets over West Rajasthan during 15<sup>th</sup>-19<sup>th</sup>; over Punjab, south Haryana during 16<sup>th</sup>-19<sup>th</sup> and north Madhya Pradesh, East Rajasthan, Uttar Pradesh, Bihar during 17<sup>th</sup>-19<sup>th</sup> May, 2024. Severe Heat wave conditions also very likely in isolated/some parts of West Rajasthan during 17<sup>th</sup>-19<sup>th</sup>; Punjab, south Haryana on 18<sup>th</sup> & 19<sup>th</sup>; East Rajasthan on 19<sup>th</sup> May, 2024.
- Heat wave conditions very likely in isolated pockets over Gujarat Region during 15<sup>th</sup>-17<sup>th</sup>; Konkan on 15<sup>th</sup> & 16<sup>th</sup>; Saurashtra & Kutch on 16<sup>th</sup> & 17<sup>th</sup>; Delhi, Jharkhand, Gangetic West Bengal, Odisha on 18<sup>th</sup> & 19<sup>th</sup> May, 2024.
- Hot and humid weather very likely to prevail over Assam & Meghalaya, Tripura, Sub-Himalayan West Bengal, Bihar on 15<sup>th</sup> & 16<sup>th</sup> May.

For more details, kindly refer: https://mausam.imd.gov.in/responsive/all\_india\_forcast\_bulletin.php

## Realised Rainfall during past 24 hours till 0830 hours IST of today:

Light to moderate rainfall accompanied with isolated thunderstorm & lightning observed at many places over Kerala & Mahe, North Interior Karnataka; at a few places over Tamil Nadu, Puducherry & Karaikal, Lakshadweep, coastal & South Interior Karnataka, East Madhya Pradesh, Andaman & Nicobar Islands, Sub-Himalayan West Bengal & Sikkim, and at isolated places over Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Konkan & Goa, Madhya Maharashtra, Marathwada, Gujarat Region, West Madhya Pradesh, Vidarbha, Chhattisgarh, Uttarakhand, West Uttar Pradesh, Rajasthan, Gangetic West Bengal, Odisha, Jharkhand, Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

### Significant amount of rainfall (in cm):

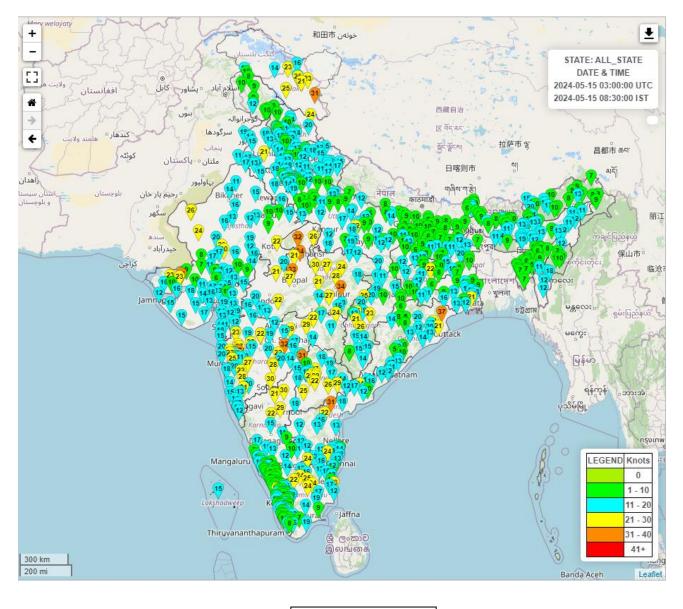
- Kerala: Neryamangalam ARG (Ernakulam district) 9; Erimayur ARG (Palakkad district) 6, Varkala (Thiruvananthapuram district) & Anchal ARG (Kollam district) 5 each,
- Tamil Nadu: Kovilankulam (dist Virudhunagar), Aruppukottai KVK AWS (dist Virudhunagar) 8 each, Udumalpet (dist Tiruppur) 6, Kilanilai (dist Pudukkottai), Thangachimadam (dist Ramanathapuram), PWD Makkinampatti (dist Coimbatore), Devakottai (dist Sivagangai), Sendurai (dist Ariyalur), Rajapalayam (dist Virudhunagar), Thirparappu (dist Kanniyakumari) 5 each, Sulur (dist Coimbatore), Sankarankoil (dist Tenkasi), Old Taluk Office Srivaikuntam (dist Thoothukudi), Srivilliputhur (dist Virudhunagar) 4 each,
- Coastal Andhra Pradesh: Tenali (dist Guntur) 7, Jangamaheswarapuram (dist Palnadu) 5,
- North Interior Karnataka: Hukkeri (dist Belagavi) 7, Zalki Cross (dist Vijayapura) 6, Mahalingapur (dist Bagalkote) 5, Hidkal Dam (dist Belagavi) 5, Jewargi (dist Kalaburgi) 5, Kushtagi (dist Koppal) 4, Rabkavi (dist Bagalkote) 3, Londa (dist Belagavi) 3, Yedrami (dist Kalaburgi) 3,

### **ANNEXURE II**

### **Reported maximum wind speed (kmph) during past 24 hours till 0830 hours IST of today:**

- **Odisha:** Bhadrak 68, Jagatsinghpur, Cuttack 38 each;
- Madhya Maharashtra: Pune 68, Raigad 53, Satara 51;
- West Madhya Pradesh: Ashoknagar 63, Sehore 62, Shivpuri 60, Bhopal 52, Indore 43, Khandwa 41, Shajapur/ Guna 39, Rajgarh/ Badwani 37,
- East Madhya Pradesh: Mandla 63, Sagar 56, Jabalpur 52, Seoni 50, Damoh 50, Katni 45, Balaghat 37, Singrauli 37, Shahdol 34, Chhatarpur 34, Satna 32
- Marathwada: Parbhani 59, Osmanabad 51;
- **Telangana:** Nizamabad 57, Garikapadu 53, Siddipet, Ranga\_Reddy 50 each, Nalgonda 48;
- Coastal Andhra Pradesh: Prakasam 57, Eluru 44, Prakasam 40;
- Saurashtra & Kutch: Bachau\_AMFU 57, Kandla, Bhuj 42;
- Jammu & Kashmir: Leh 57, Kargil 46;
- Rajasthan: Shirohi 55, Jaisalmer 48, Barmer 44, Baran 40;
- North Interior Karnataka: Yadgir 55, Koppal 53, Haveri 40, Bagalkot 38;
- Vidarbha: Washim, Yavatamal 53 each, Bhandara 44, Nagpur 42;
- Chhattisgarh: Kanker 48, Mungeli, Durg 46, Mahasamund 42;
- **Tamil Nadu:** Namakkal 46, Karaikal 42, Erode, Karur, Tiruchirappalli, Krishnagiri, Ranipet 44 each;
- Jharkhand: Bokaro 40;
- Uttar Pradesh: Jalaun 40;
- Punjab: Barnala 38;

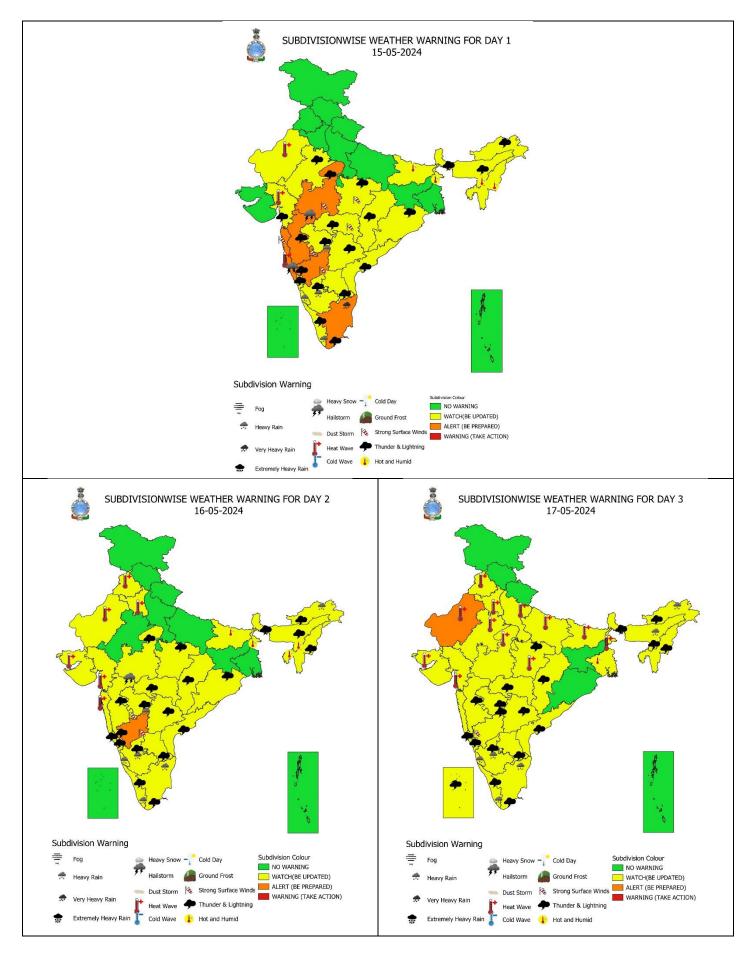
## Gusty winds reported over the country (in knots) from 0830 hrs IST of 14.05.2024 to 0830 hrs IST of 15.05.2024

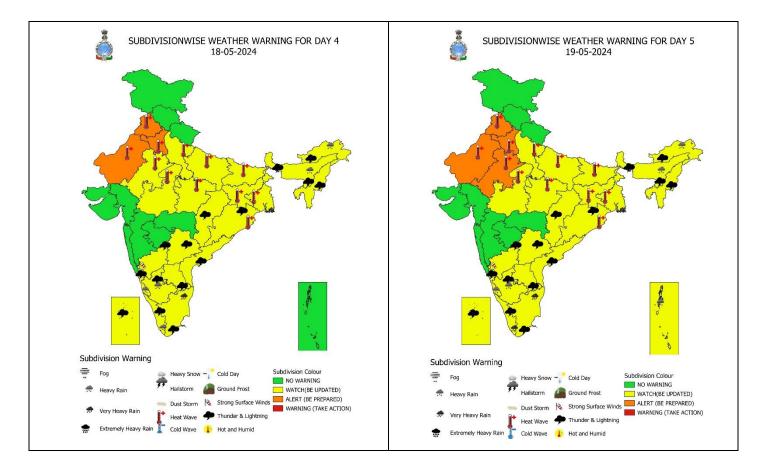


1 Knot = 1.852 kmph	

### For more details, kindly refer: <u>http://aws.imd.gov.in:8091/</u>

### **ANNEXURE III**





# Impact expected and action suggested due to thunderstorms, lightning & gusty winds/hailstorm over Konkan on 15<sup>th</sup> and North Interior Karnataka, Madhya Maharashtra on 15<sup>th</sup> & 16<sup>th</sup> May, 2024.

### Impact expected:

- Strong wind/hail may damage plantation, horticulture and standing crops.
- ➢ Hail may injure people and cattle at open places.
- > Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- ➢ Loose objects may fly.

#### Action suggested:

- > Stay indoors, close windows & doors and avoid travel if possible.
- > Take safe shelters; do not take shelter under trees.
- > Do not lie on concrete floors and do not lean against concrete walls.
- ➢ Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- > Keep away from all the objects that conduct electricity.

# IMPACT & ACTION SUGGESTED due to very heavy rainfall over Tamil Nadu on 15<sup>th</sup>, 18<sup>th</sup> & 19<sup>th</sup>; Kerala on 19<sup>th</sup> May, 2024.

## A. 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 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
- 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)

### **B. 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.

### **IMPACT & ACTION SUGGESTED due to Heat Wave Conditions:**

### Orange alert Areas (Punjab, Haryana, Rajasthan)

- ✓ 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 (Uttar Pradesh, Madhya Pradesh, Bihar, Konkan, Gujarat State, Jharkhand, Gangetic West Bengal, Odisha)

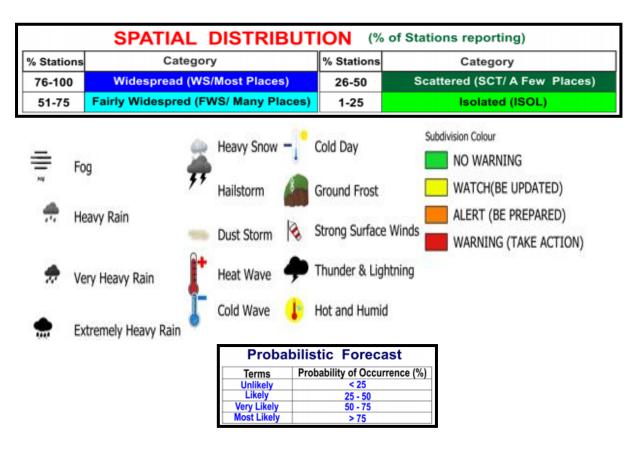
- ✓ Moderate temperature & heat is tolerable for general public but moderate health concern likely for vulnerable people e.g. infants, elderly, people with chronic diseases.
- ✓ Avoid heat exposure.
- ✓ Wear lightweight, light colour, loose, cotton clothes.
- ✓ Cover your head, use a cloth, hat or umbrella.

### Agromet advisories for Heavy Rainfall, Hailstorm & Gusty winds likely over various parts of the country:

- Use hail nets or hail caps in fruit orchards to prevent mechanical damage and provide mechanical support to horticultural crops & staking to vegetables in Konkan and Madhya Maharashtra.
- Make provision for draining out excess water from crop fields to avoid water stagnation in Tamil Nadu, Kerala, Karnataka and Arunachal Pradesh.
- Apply light and frequent irrigation to standing crops to avoid heat stress; provide mulching to conserve soil moisture and minimise evaporation in Punjab, Haryana, West Rajasthan, Gujarat and Konkan.
- Provide mechanical support to horticultural crops & amp; staking to vegetables to prevent damage from gusty winds.

## 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; dist: District: NH: National Highway; KVK: Krishi Vigyan Kendra; DVC: Damodar Valley Corporation; PTO: Part Time Office.
- \* 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.



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Very Heavy: 115.6 to 204.4 mm/cm *         When maximum temperature of a station reaches >40° C for plains and >30° C for hilly regi         Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.         Severe Heat Wave: Maximum Temperature Departure from normal 26.5° C         (b). Based on Actual maximum temperature >44°C.         Severe Heat Wave: When actual maximum temperature >44°C.         Severe Heat Wave: When actual maximum temperature >44°C.         Orienta for heat wave for costals lations         When maximum temperature departure for normal. Heat Wave may be described provided maximum temperature departure 6.4°C.         Severe Heat Wave: When minimum temperature departure 4.5°C to 6.4°C.         Severe Warn Night: When minimum temperature departure 4.5°C to 6.4°C.         Severe Warn Night: When minimum temperature departure 6.5°C         (c) Based on departure         Cold Wave: When minimum temperature departure 5.4°C.         Severe Cold Wave: When Minimum Temperature for normal. 4.5°C to 6.4°C.         Severe Cold Wave: When Minimum Temperature (of Plains and ≤0°C for hilly regions.         (c) For Cosatal Stations         When Minimum Temperature 5.4.5°C & actual Minimum Temperature is 5.4.5°C.         (b) Based on departure         Cold Wave: When Minimum Temperature is 5.4.5°C & actual Minimum Temperature is 5.5°C.         (c) For Cosatal Stations         When Minimum Temperature departure is 5.4.5°C & actu		NO WARNING (NO ACTION)	WOSt Likely	> /5		
When maximum temperature of a station reaches >40° C for plains and >30° C for hilly regions (a) Based on Departure from normal 4.5° C to 6.4° C.         Severe Heat Wave: Maximum Temperature Departure from normal 4.5° C to 6.4° C.         Severe Heat Wave: When actual maximum temperature >44°C.         Heat Wave: Wave actual maximum temperature >44°C.         C). Criteria for heat Wave for costal stations         When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature 34°C.         When maximum temperature departure 4.5°C to 6.4°C.         Severe Near Night: When minimum temperature departure 4.5°C to 6.4°C.         Severe Warn Night: When minimum temperature departure 4.5°C to 6.4°C.         Severe Cold Wave: When minimum temperature departure 4.5°C to 6.4°C.         Severe Cold Wave: When minimum temperature departure 5.5°C         (b) Based on departure         Cold Wave: When Minimum Temperature Departure from normal 4.5°C to 6.4°C.         Severe Cold Wave: When Minimum Temperature (for Plains and 20°C for hilly regions.         (c) For Coastal Stations         When Minimum Temperature is 5.4.5°C & actual Minimum Temperature is 5.5°C         (c) For Coastal Stations         When Minimum Temperature beparture from normal 4.5°C to 6.4°C.         Severe Cold Wave: When Minimum Temperature is 5.2.0°C         (c) For Coastal Stations         When Minimum Temperature is 5.4.5°C & actual Minimum Temperature is 5.15	in/ Snow	Very Heavy: 115.6 to 204.4 mm/cm*				
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b). Based on Actual maximum temperature         Heat Wave         (b). Based on Actual maximum temperature 249°C.         Were Heat Wave: When actual maximum temperature 247°C         (c). Criteria for heat wave for costal stations         When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximum temperature 237°C         Winn Might: When minimum temperature departure 4.5°C to 6.4 °C.         Severe Warm Night: When minimum temperature departure 5.0°C to 6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: When Minimum Temperature beparture from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is 5 -4.5 °C to -6.4 °C.         Severe Cold Wave: When Minimum Temperature is 5 -15 °C         When minimum temperature departure is 5 -2.0 °C         (c) For Coastal Stations         When minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.<	0					
at Wave       Heat Wave: When actual maximum temperature 249°C.         Severe Heat Wave: When actual maximum temperature 247°C       (-). Criteria for heat wave for cossals stations         When maximum temperature departure is >4.5°C from normal. Heat Wave may be described provided maximu temperature aparture 3.5°C for b 6.4 °C.         Severe Warm Night: When minimum temperature departure 4.5°C to 6.4 °C.         Severe Warm Night: When minimum temperature departure 4.5°C to 6.4 °C.         Severe Warm Night: When minimum temperature departure 4.5°C to -6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4 °C.         Severe Cold Wave: Minimum Temperature (for Plains and ≤0°C for hilly regions.         (a). 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 from normal -4.5°C to -6.4°C.         Severe Cold Wave: When Minimum Temperature is ≤ 4.5°C & actual Minimum Temperature is ≤ 15°C         When Minimum Temperature Departure from normal -4.5°C to -6.4°C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C.         Severe Cold Day: Maximum Temperature Departure from normal	8+					
Severe Heat Wave: When actual maximum temperature 247°C         (c). Criteria for heat wave for coastal stations         When maximum temperature departure is v4.5°C form normal. Heat Wave may be described provided maximu temperature 23°C         When maximum temperature departure is v4.5°C to 6.4 °C.         Severe Warm Night: When minimum temperature departure 4.5°C to 6.4 °C.         Severe Warm Night: When minimum temperature departure 5.5°C to 6.4 °C.         Severe Warm Night: Winn minimum temperature departure 5.5°C to 6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: When Minimum Temperature is 5.4.0 °C         Severe Cold Wave: When Minimum Temperature is 5.4.0 °C         Severe Cold Wave: When Minimum Temperature is 5.4.0 °C         Severe Cold Wave: When Minimum Temperature is 5.4.0 °C         Cold Wave: When Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: When winimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day:	leat Wave					
When maximum temperature is >4.5°C from normal. Heat Wave may be described provided maximum temperature >37°C         When maximum temperature remains 40°C         Warm Night: When minimum temperature departure >6.4 °C.         Severe Warm Night: When minimum temperature departure >6.4 °C.         Severe Warm Night: When minimum temperature departure >6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave: When Minimum Temperature (for Plains and ≤0°C for hilly regions.         (a). Based on departure         (b) Based on actual Minimum Temperature (s ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature beparture from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Seve						
Imperature 237°C         When maximum temperature remains 40°C         Wirm Night: When minimum temperature departure >6.4 °C.         Severe Warm Night: When minimum temperature departure >6.4 °C.         Severe Warm Night: Winnem Temperature of a station ≤10°C for plains and ≤0°C for hilly regions. <ul> <li>(a). Based on departure.</li> <li>Coid Wave: Minimum Temperature Departure from normal &lt;4.5 °C to -6.4 °C.</li> <li>Severe Coid Wave: Minimum Temperature (for Plains only)</li> <li>Coid Wave: When Minimum Temperature is ≤ 4.0 °C</li> <li>Severe Coid Wave: When Minimum Temperature is ≤ 2.0 °C.</li> <li>(c) For Coastal Stations</li> <li>When minimum temperature of a station ≤10°C for plains and ≤0°C for hilly regions</li> <li>Based on departure</li> <li>Coid Day: Maximum Temperature is ≤ 4.5 °C &amp; actual Minimum Temperature is ≤ 15 °C</li> </ul> Image: Coid Day: Maximum Temperature Departure from normal <4.5 °C to -6.4 °C.		( c). Criteria for heat wave for coas	stal stations			
Imm         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.           Severe Warm Night:         When minimum temperature departure >6.4 °C.           Severe Cold Wave:         Minimum Temperature Departure from normal 4.5 °C to -6.4 °C.           Severe Cold Wave:         Minimum Temperature Departure from normal 4.5 °C to -6.4 °C.           Severe Cold Wave:         Minimum Temperature Departure from normal 4.5 °C to -6.4 °C.           Severe Cold Wave:         When Minimum Temperature is \$ 4.0 °C           Cold Wave:         When Minimum Temperature is \$ 4.0 °C           Severe Cold Wave:         When Minimum Temperature is \$ 4.0 °C           Severe Cold Wave:         When Minimum Temperature is \$ 4.0 °C           Severe Cold Wave:         When Minimum Temperature is \$ 4.0 °C           Severe Cold Wave:         When Minimum Temperature of a station \$ 10°C for plains and \$ 0°C for hilly regions           Based on departure         Cold Day:         Maximum Temperature beparture from normal 4.5 °C to -6.4 °C.           Severe Cold Day:         Maximum Temperature beparture from normal 5.6 °C         Phenomenon of small droplets suspended in air and the horizontal visibility < 1kr		When maximum temperature departure i		eat Wave may be described provided maxim		
Severe Warm Night:         Severe Warm Night:         When minimum temperature departure >6.4 °C.           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 -4.5 °C to -6.4 °C.           Severe Cold Wave:         Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.           Severe Cold Wave:         When Minimum Temperature is ≤ 4.0 °C           (c) For Coastal Stations         When Minimum Temperature departure is ≤ 4.0 °C           When Minimum Temperature departure is ≤ 4.0 °C.         (c) For Coastal Stations           When Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.           Severe Cold Day:         Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.           Severe Cold Day:         Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.           Severe Cold Day:         Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.           Severe Cold Day:         Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.           Severe Cold Day:         Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.           Severe Cold Day:         Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.	1.					
Understand       Use of the main might which maintain deriver a station static departure 50.4 °C.         Ord Wave:       When minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave:       Severe Cold Wave: Minimum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Wave:       When Minimum Temperature is stat0 °C         Cold Wave:       When Minimum Temperature is stat0 °C         Cold Wave:       When Minimum Temperature is stat0 °C         Cold Wave:       When Minimum Temperature is stat0 °C for plains and s0°C for hilly regions         Based on departure       Cold Day: Maximum Temperature is stat0 °C for plains and s0°C for hilly regions         Based on departure       Cold Day: Maximum Temperature is stat0 °C for plains and s0°C for hilly regions         Based on departure       Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day:       Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day:       Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day:       Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day:       Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day:       Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe	arm Night					
(a). Based on departure         Cold Wave: Minimum Temperature Departure from normal ≤ 4.5 °C to -6.4 °C.         Severe Cold Wave: Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.0 °C         Severe Cold Wave: When Minimum Temperature is ≤ 4.5 °C & actual Minimum Temperature is ≤ 15 °C         When Minimum Temperature departure is ≤ 4.5 °C & actual Minimum Temperature is ≤ 15 °C         When Minimum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 5.6 °C         Phenomenon of small droplets suspended in air and the horizont		Severe warm Night: When minimum te	emperature departure >6	4-0.		
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 departure is ≤ 4.5 °C & actual Minimum Temperature is ≤ 15 °C         When minimum temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C         Moderate Fog: When the visibility between 50- 200 metres         Dense Fog: When the visibility between 50- 200 metres         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Suffam       An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.         Storm       Ket deposits on ground         Air temper		(a). Based on departure				
b) Based on actual Minimum Temperature (for Plains only)         cold Wave         b) Based on actual 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 ≤ 4.0 °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         Unable         c) Gold Day         Cold Day: Maximum Temperature Departure from normal = 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal = 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal = 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal = 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal = 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal = 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal = 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal = 4.5 °C to -6.4 °C.         Severe Severe Seventhe visibility between 500-200 metres         Dense Fog: When the visibility between 50-200 metres         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)      <		· · · · · · · · · · · · · · · · · · ·				
Old Wave       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 \$ 2.0 °C       (c) For Coastal Stations         When Minimum Temperature departure is \$ 2.0 °C       (c) For Coastal Stations         When Minimum Temperature departure is \$ 2.0 °C       (c) For Coastal Stations         When Minimum Temperature departure from normal 4.5 °C to -6.4 °C.       Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.       Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.       Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.       Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.       Severe Cold Day: Maximum Temperature Supperside din air and the horizontal visibility C 1kr         Moderate Fog: When the visibility between 50-200 metres       Dense Fog: when the visibility between 50-200 metres         Storm       Storm       Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Storm       Lee deposits on ground <td><b>_</b>_</td> <td></td> <td></td> <td></td>	<b>_</b> _					
Severe Cold Wave: When Minimum Temperature is \$ 2.0 °C         (c) For Coastal Stations         When Minimum Temperature departure is \$ 2.0 °C         (c) For Coastal Stations         When Minimum Temperature departure is \$ 2.0 °C         (c) For Coastal Stations         When Minimum Temperature departure is \$ 2.0 °C         (c) For Coastal Stations         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 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal 4.5 °C         Phenomenon of small droplets suspended in air and the horizontal visibility < 1kr	Cold Wave					
(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         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C to -6.4 °C.         Severe Cold Day: Maximum Temperature Departure from normal -4.5 °C         Phenomenon of small droplets suspended in air and the horizontal visibility < 1kr						
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:       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 < 1kr Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 500-200 metres         Pense Fog:       Wory Dense Fog: when the visibility between 500-200 metres         Very Dense Fog: when the visibility between 500-200 metres         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Storm       Lee deposits on ground Air temperature ≤4°C ( over Plains)         Moderate:       Wind speed 52-61 kmph Severe:         Wind speed 62-87 kmph Very Severe:       Wind speed 62-87 kmph         Very Se						
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 Dense Fog: when the visibility between 500-200 metres         Fog       Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)         Sudden electrical discharges manifested by a flash of light (Lightning)         Moderate:       Sudden electrical discharges manifested by a flash of light (Lightning)         Moderate:       No ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.         Storm       Ice deposits on ground         Air temperature ≤4°C (over Plains)       Energet (Cover Plains)         Sequal       Reget 62-87 kmph         Very Severe:       Wind speed 614-62 kmph (22-33 knots		• •	is ≤-4.5 °C & actual I	/inimum Temperature is ≤ 15 °C		
Based on departure         Cold Day:         Based on departure         Cold Day:         Maximum         Cold Day:         Maximum         Moderate         Fog         Phenomenon of small droplets suspended in air and the horizontal visibility <1kr						
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 < 1kr	0		station ≤10°C for pl	ains and $\leq 0^{\circ}$ C for hilly regions		
Severe Cold Day:       Severe Cold Day: Maximum Temperature Departure from normal ≤ -6.5 °C         Phenomenon of small droplets suspended in air and the horizontal visibility < 1km	-		arture from normal -4.5	C to -6.4 °C.		
Phenomenon of small droplets suspended in air and the horizontal visibility < 1km	Cold Day					
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         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.         Storm       Ice deposits on ground         Air temperature ≤4°C (over Plains)       Moderate: Wind speed 52-61 kmph         Sequall       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 52-87 kmph         Very high: Wind speed 52-87 kmph         Cyclonic Storm: Wind speed 51-17 kmph (34-63 knots) & Wave height 6-14 metre         Phenomenal: Wind speed 62-87 kmph (34-63 knots) & Wave height 6-14 metre         Phenomenal: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 81-117 kmph (34-63 knots)         Severe Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64- 89 knots)         Extremely Severe Cyclonic Storm: Wind speed 118-165 kmph (90-119 knots)						
Fog       Dense Fog: when the visibility between 50- 200 metres         Very Dense Fog: when the visibility < 50 metres				and the horizontal visibility < 1k		
Fog       Very Dense Fog: when the visibility < 50 metres	0					
With the second of the sec	Fog					
An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.         Storm       Ice deposits on ground         Air temperature ≤4°C (over Plains)         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 62-87 kmph         Very Severe: Wind speed 63-117 kmph (32-33 knots) & Wave height 2.5-6 metre         High to very rough: Wind speed 63-117 kmph (34-63 knots) & Wave height 6.14 metre         Phenomenal: Wind speed 62-87 kmph (34-47 knots)         Severe: Vind speed 62-87 kmph (48-63 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (48-63 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (90 -119 knots)		very benaer og. when the visibility vo	o metres			
storm       Ice deposits on ground         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 52-61 kmph         Severe: Wind speed 52-61 kmph         Very Severe: Wind speed 52-87 kmph         Very Severe: Wind speed 52-87 kmph         Very Severe: Wind speed 62-87 kmph         Severe: Wind speed 62-87 kmph         Very Severe: Wind speed 63-117 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 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64-89 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64-89 knots)         Extremely Severe Cyclonic Storm: Wind speed 118-165 kmph (90-119 knots)	<i>yy</i> understorm	Sudden electrical discharges man sound (thunder)	ifested by a flash of	ight (Lightning) and a sharp rumbling		
Air temperature ≤4°C (over Plains)         Severe: Wind speed 52-61 kmph         Very Severe: Wind speed 62-87 kmph         Very Severe: Wind speed 52-61 kmph (22-33 knots) & Wave height 2.5-6 metre         High to very nough: Wind speed 41-62 kmph (34-63 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 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 69 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (90 - 119 knots)	Dust/Sand	An ensemble of particles of dust c turbulent wind.	or sand energetically	lifted to great heights by a strong and		
Air temperature ≤4°C (over Plains)         Severe: Wind speed 52-61 kmph         Very Severe: Wind speed 62-87 kmph         Very Severe: Wind speed 52-61 kmph (22-33 knots) & Wave height 2.5-6 metre         High to very nough: Wind speed 41-62 kmph (34-63 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 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 69 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (90 - 119 knots)	11	Ice deposits on around				
Frost       A strong wind that rises suddenly, lasts for atleast 1 minute.         Moderate: Wind speed 52-61 kmph       Severe: Wind speed 52-61 kmph         Severe: Wind speed 62-87 kmph       Very Severe: Wind speed >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 63-117 kmph (>63 knots) & Wave height >14 metre       Phenomenal: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)       Very Severe Cyclonic Storm: Wind speed 118-165 kmph (90 -119 knots)	>>	•				
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 63-117 kmph (>63 knots) & Wave height >14 metre         Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (90 -119 knots)	Frost					
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 63-117 kmph (>63 knots) & Wave height >14 metre         Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (90 -119 knots)		A strong wind that rises sudd	enly, lasts for atle	east 1 minute.		
Squall       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 rough: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre         Phenomenal: Wind speed 63-117 kmph (>63 knots) & Wave height >14 metre         Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (90 -119 knots)	$\bigcirc$					
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 63-117 kmph (>63 knots) & Wave height >14 metre         Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)         Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (90 -119 knots)	77	Severe: Wind speed 62-87 kmph				
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)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)         Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)	Squall	Very Severe: Wind speed >87 kmph				
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)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)         Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)		Effect of various waves in the cos	over specific area			
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)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)         Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)	6.6			Wave height 2.5-6 metre		
ea State       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)         Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)         Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 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)	Sea State					
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)						
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)	6					
	Cyclone					