



Government of India
Ministry of Earth Sciences
India Meteorological Department

Press Release

Date: 13th January, 2022

Time of Issue: 1245 hrs IST

Subject:

- I. Wet spell over East & adjoining Central India during next 2 days and decrease significantly thereafter.**
- II. Dense to very dense fog over North India during next 4-5 days.**
- III. A Western Disturbance (WD) would affect northwest Himalayas on 16th & 17th and Another WD affect Northwest India from 18th to 20th January, 2022.**

Weather Observed during past 24 hours ending at 0830 hrs IST of today:

- **Rainfall (in cm):** **Telangana:** Parvathagiri (Warangal Rural)- 10; Noothankal (Suryapet)- 8; Kollapur (Nagarkurnool) and Garla (Mahabubabad)-7 each; **Odisha:** Cuttack: Naraj-5, Narsinghpur-4, Gajpati: Mohana-3, Bhadrak-3, Ganjam: Purushottampur, Gopalpur-3 each, Kalahandi: Narla-3, Malkangiri-3, Nawarangpur: Raighar, Umarmkote-3 each, Rayagada: Munigada-3; **Coastal Andhra Pradesh:** Vizianagaram: Srungavarapukota-5, Gantiyada-4, East Godavari: Kunavaram-4, Guntur: Bapatla-4; **Royalaseema:** Kurnool: Pagidyala-5, Kurnool-4.
- **Thunderstorm accompanied with Hail** observed in isolated places over Chhattisgarh, Jharkhand, West Bengal & Sikkim, Bihar and Telangana.
- **Severe Cold Day conditions** observed in some parts of West Madhya Pradesh and **Cold day conditions** in some parts over East Rajasthan and Gujarat state; in isolated pockets over Punjab, East Madhya Pradesh and West Rajasthan.
- **Dense to very dense fog** in isolated pockets over Punjab, Delhi, Rajasthan, Uttar Pradesh, West Madhya Pradesh, Bihar and Tripura.

Forecast & Warnings:

I. Wet spell over East & adjoining Central India:

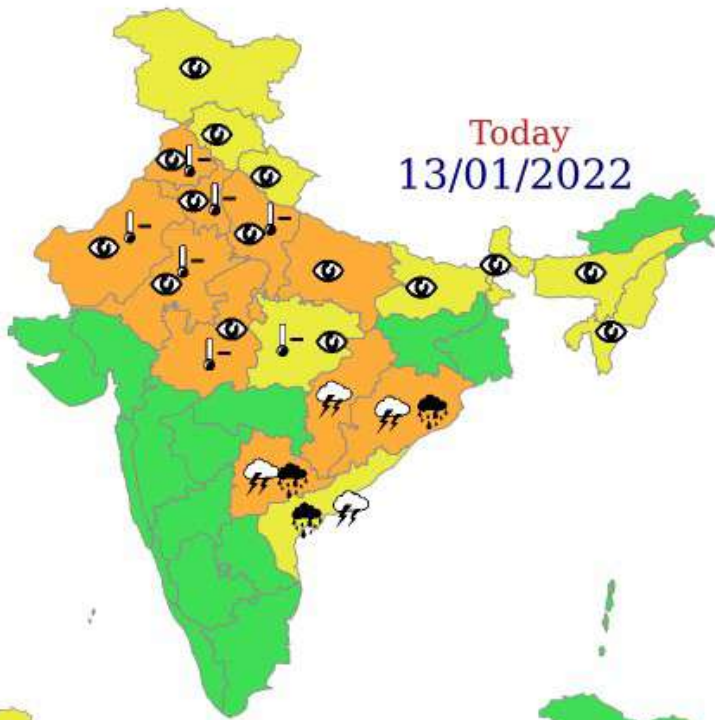
- A feeble Western Disturbance seen as a trough in upper tropospheric levels runs along Long. 72°E to the north of Lat. 32°N.
- A trough runs from North Interior Karnataka to north interior Odisha in lower tropospheric levels.
- A cyclonic circulation lies over south Konkan in lower tropospheric levels.
- Under the influence of above systems:
 - ✓ Isolated light rainfall/snowfall very likely over higher reaches of Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad on 13th & 14th January, 2022.

- ✓ Fairly widespread to widespread light/moderate rainfall very likely over Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Telangana and Coastal Andhra Pradesh during 13th to 14th and isolated to scattered light/moderate rainfall over Vidarbha & Chhattisgarh during 13th to 14th January.
- ✓ **Isolated Heavy rainfall very likely over** Odisha, Coastal Andhra Pradesh and Telangana on 13th January, 2022.
- ✓ **Isolated thunderstorms with lightning/Hail** very likely over Chhattisgarh, Telangana and Odisha on today, the 13th January.
- ✓ Fairly widespread precipitation very likely over Arunachal Pradesh on 13th and significant decrease thereafter with isolate rainfall on 14th & 15th January. Isolated rainfall very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 13th -15th January.
- **Under the influence of a cyclonic circulation over Southwest Bay of Bengal and another over south Tamil Nadu in lower tropospheric levels;** isolated light rainfall/thundershower over Tamilnadu, Puducherry & Karaikal and Kerala & Mahe during next 5 days.
- **Two fresh Western Disturbances very likely to affect northwest India, the 1st from 16th January and likely to cause isolated to scattered precipitation on 16th & 17th; the 2nd from 18th and likely to cause light/moderate scattered to fairly widespread precipitation over Western Himalayan Region and light isolated to scattered rainfall over adjoining plains for subsequent 2-3 days.**

II. Minimum Temperatures, Cold wave and Fog:

- ✓ Minimum temperatures are above normal by 2-4°C over many parts of Punjab, Haryana, Chandigarh, Uttar Pradesh and east & northeast India; these are near normal or below normal by 2-3°C over rest parts of north India
- ✓ No significant change in minimum temperatures very likely over northwest & central India during next 4-5 days.
- ✓ No significant change in minimum temperatures over Gujarat state next 2 days and gradual rise by 2-4°C thereafter.
- ✓ No significant change in minimum temperatures over East India during next 3 days and fall by 2-3°C thereafter.
- ✓ **Cold wave conditions** in isolated pockets very likely over northeast Rajasthan, West Uttar Pradesh and West Madhya Pradesh during next 3 days.
- ✓ **Cold day conditions** in isolated pockets very likely over Gujarat state, Punjab, Haryana & Chandigarh, West Uttar Pradesh, Madhya Pradesh and north Rajasthan during next 2 days.
- ✓ **Dense/Very Dense Fog** in isolated pockets in night/morning hours very likely over Western Himalayan region, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days; Punjab, Haryana, Chandigarh & Delhi, north Rajasthan during next 3 days and over Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim during next 5 days.

For more details refer: https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php



Impact expected and action suggested due to Dense/Very Dense fog in the night/morning hours very likely over Western Himalayan region, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 2 days; Punjab, Haryana, Chandigarh & Delhi, north Rajasthan during next 3 days and over Uttar Pradesh, Bihar and Sub-Himalayan West Bengal & Sikkim during next 5 days.

Impact expected:

- **Transport and Aviation:**
 - May affect some airports, highways and railway routes in the areas of met- sub-division.
 - Difficult driving conditions with slower journey times.
 - Some road traffic collisions
- **Power Sector:**
 - Chances of Tripping of Power lines in the very dense fog routes
- **Human Health:**
 - Lung related health impacts: Dense fog contains particulate matter and other pollutants and in case exposed it gets lodged in the lungs, clogging them and decreasing their functional capacity which increases episodes of wheezing, coughing and shortness of breath
 - Impact on people having asthma bronchitis: Long time exposure to dense fog may cause respiratory problem for people having asthma bronchitis and other lung related health problems.
 - Causes Eye Irritation: Dense fog contains pollutions of various types and these Pollutants in the air if exposed may tend to irritate the membranes of the eye causing various infections leading to redness or swelling of the eye.

Action suggested:

- **Transport and Aviation:**
 - Careful while driving or outing through any transport.
 - Use fog lights during driving.
 - Be in touch with airlines and Railway and State transport for schedule of your journey.
- **Power Sector:**
 - To keep ready Maintenance Team
- **Human Health:** To avoid outing until unless emergency and to cover the face.

Impact expected and action suggested due to Thunderstorm, Lightning & Hail over Odisha, Chhattisgarh and Telangana on today, the 13th January.

Impact expected:

- Hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.

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.

Legends:

Heavy Rain: 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

Region wise classification of meteorological Sub-Divisions:

- 1) **Northwest India:** Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and 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)



Probabilistic Forecast	
Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

