



Thursday 13 May 2021

EVENING

Time of Issue: 1645 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

- ◆ A Low Pressure Area lies over Lakshadweep Area & Adjoining southeast Arabian sea. Associated cyclonic circulation extends upto mid tropospheric levels, It is very likely to become a Well Marked Low Pressure Area over Lakshadweep area by 14th morning, concentrate into a Depression over the same region by 15th morning and intensify further into a Cyclonic Storm during subsequent 24 hours. It is very likely to intensify further and move north-northwestwards towards Gujarat & adjoining Pakistan coasts. It is likely to reach near Gujarat coast around 18th May evening. Under its influence, heavy to very heavy rainfall is likely at a few places over Lakshadweep during 13-16 with isolated extremely heavy falls on 13 and 14; heavy to very heavy rainfall is likely at a few places over Kerala during 13 to 16 with extremely heavy falls (≥ 20 cm) at isolated places on 14 & 15; with heavy to very heavy falls at isolated places over Tamilnadu very likely on 14, heavy to very heavy falls with extremely heavy falls at isolated places on 15 and heavy to very heavy falls at isolated places on 16; heavy falls at isolated places very likely over coastal & Ghat areas of south Interior Karnataka on 13; heavy to very heavy falls at isolated places on 14, heavy to very heavy falls at a few places with extremely heavy falls at isolated places on 15, heavy to very heavy fall at a few places on 16 and heavy to very heavy falls at isolated places on 17; heavy falls at isolated places very likely over south Konkan & Goa 15 and heavy to very heavy falls at a few paces on 16 & 17 May.
- ◆ A Western Disturbance as a trough runs along Longitude 74°E and north of Latitude 28°N in middle tropospheric levels. A cyclonic circulation lies over central parts of south Uttar Pradesh & neighbourhood and another cyclonic circulation lies over central Pakistan & neighbourhood in lower levels. Under the influence of these systems, fairly widespread to widespread rainfall with isolated **thunderstorm/lightning/gusty winds & hailstorm** very likely over Western Himalayan Region and scattered to fairly widespread rainfall with isolated **thunderstorm/lightening/gusty winds** over plains of northwest India during next 24 hours and decrease significantly thereafter. **Isolated heavy rainfall is also likely over Uttarakhand and Himachal Pradesh during next 24 hours.**
- ◆ Under the influence of an East-West trough from the cyclonic circulation over southeast Madhya Pradesh & neighbourhood to Assam across Jharkhand and Gangetic West Bengal at lower levels, fairly widespread to widespread rainfall/thunderstorm activity is very likely to continue over northeastern states and West Bengal & Sikkim and isolated to scattered rain/thundershower over rest parts of east India during next 2 days and decrease in intensity & distribution thereafter. Isolated heavy rainfall is also likely over Arunachal Pradesh and Assam & Meghalaya during next 24 hours.

Main Weather Observations

- ◆ **Rain/Thundershowers observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, East Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Lakshadweep.; at many places over Haryana, Chandigarh & Delhi, West Uttar Pradesh and Gangetic West Bengal; at a few places over Odisha, East Madhya Pradesh, West Rajasthan and Coastal & South Interior Karnataka and at isolated places over West Madhya Pradesh, East Rajasthan, Chhattisgarh, Telangana, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- ◆ **Rainfall recorded** (from 0830 hours IST of yesterday to 0830 hours IST of today) (4 cm or more): Aijal-21; Agathi-17; Haldwani-15; Dinara and Thiruvananthapuram-10 each; Enamaekel, Bangalore and Amini Divi-8 each; Hiriyur, Barauni and Bhojpur-7 each; Purulia, Singhik, Mudubidre, Hassan, Chandan and Baripada-6 each; Gorakhpur, Kochi and Minicoy-5 each; Tezpur, Lumding, Cannur and Kottayam-4 each.
- ◆ **Heavy Rainfall observed** (from 0830 hours IST of yesterday to 0830 hours IST of today): **Heavy to Very Heavy Rainfall** at isolated places over Uttarakhand, Nagaland, Manipur, Mizoram & Tripura and Lakshadweep and **heavy rainfall** at isolated places over Himachal Pradesh, Bihar, Odisha, South Interior Karnataka and Kerala.
- ◆ **Thunderstorm observed** (from 0830 to 1430 hours IST of today): **at isolated places over** Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Punjab, Haryana, Delhi, West Uttar Pradesh, Jharkhand, Odisha, Kerala, Tripura, Telangana, Rayalaseema and Kerala & Mahe.
- ◆ **Maximum Temperature Departures as on 12-05-2021:** Maximum temperatures were **markedly above normal (5.1°C or more) at most places** over Andaman & Nicobar Islands; **at many places** over Konkan & Goa; **at a few places** over Saurashtra & Kutch and Coastal Karnataka. They were **markedly below normal (-5.1°C or more) at many places** over Bihar; **at a few places** over Sub-Himalayan West Bengal & Sikkim; **at isolated places** over East Uttar Pradesh and Punjab; **appreciably below normal (-3.1°C to -5.0°C)** at most places over Haryana, Chandigarh & Delhi, Himachal Pradesh and Chhattisgarh; at many places over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Lakshadweep; at a few places over Gangetic West Bengal, Odisha and Uttarakhand; at isolated places over West Uttar Pradesh, West Rajasthan, Coastal Andhra Pradesh & Yanam and Rayalaseema; **below normal (-1.6°C to -3.0°C)** at most places over Madhya Pradesh and Jharkhand; at many places over interior Karnataka; at isolated places over Gujarat Region and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. Yesterday, the highest Maximum Temperature of **43.2 °C** was reported at **Chandrapur (Vidarbha)**.
- ◆ **Minimum Temperature Departures as on 13-05-2021:** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at a few places over Saurashtra & Kutch; at isolated places Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands. They are **appreciably below normal (-3.1°C to -5.0°C)** at many places over Uttar Pradesh and Bihar; at a few places over Haryana, Chandigarh & Delhi, Odisha and Gangetic West Bengal; at isolated places over Rajasthan, East Madhya Pradesh, Assam & Meghalaya and Telangana; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand and Jharkhand; at a few places over West Madhya Pradesh and Himachal Pradesh; at isolated places over Punjab, Rayalaseema and Sub-Himalayan West Bengal & Sikkim and near **normal** over rest parts of the country. Today, the lowest minimum temperature of **16.5°C** reported at Fatehgarh (**East Uttar Pradesh**) over the plains of the country.

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(Created by the National Press)

Meteorological Analysis (Based on 1430 hours IST)

- ◆ The Low Pressure Area over Southeast Arabian Sea & adjoining Lakshadweep area, now lies over Lakshadweep Area & Adjoining southeast Arabian sea. Associated cyclonic circulation extends upto mid tropospheric levels, It is very likely to become a Well Marked Low Pressure Area over Lakshadweep area by 14th morning, concentrate into a Depression over the same region by 15th morning and intensify further into a Cyclonic Storm during subsequent 24 hours. It is very likely to intensify further and move north-northwestwards towards Gujarat & adjoining Pakistan coasts. It is likely to reach near Gujarat coast around 18th May evening.
- ◆ The Western Disturbance as a trough in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along longitude 74°E to the north of latitude 28°N persists.
- ◆ The cyclonic circulation over southeast Madhya Pradesh & neighbourhood extending upto 0.9 km above mean sea level persists.
- ◆ The North-South trough/wind discontinuity from the above cyclonic circulation over southeast Madhya Pradesh & neighbourhood to south Tamilnadu across Vidarbha, Telangana and Rayalaseema at 0.9 km above mean sea level persists.
- ◆ The East-West trough from the cyclonic circulation over southeast Madhya Pradesh & neighbourhood to Assam across Jharkhand and Gangetic West Bengal at 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over central parts of south Uttar Pradesh & neighbourhood extending upto 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over central Pakistan & neighbourhood extending upto 1.5 km above mean sea level persists.

Weather Forecast for next 5 days * upto 0830 hours IST of 18th May 2021

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures over most parts of East India during next 2 days and gradual rise by 2-3°C thereafter.
- ◆ No significant change in maximum temperatures over most parts of the country during next 3-4 days.

Weather Outlook for subsequent 2 days from 18th May 2021 to 20th May 2021

- ◆ Under the influence of the likely formation of a **Cyclonic Storm** over Eastcentral Arabian Sea around 16th May and its north-northwestwards movement, widespread rainfall along with heavy to very heavy rainfall at a few places are likely over Saurashtra & Kutch on 18th May and isolated heavy to very heavy falls over Kutch & adjoining southwest Rajasthan on 19th May. Gale wind speed reaching 60-70 kmph gusting to 80 kmph very likely over northeast Arabian Sea and along & off Gujarat coast from 18th May morning and it is likely to increase gradually till 18th evening.
- ◆ Fairly widespread to widespread rainfall/thundershowers with isolated heavy to very heavy falls likely over extreme south peninsula and Lakshadweep islands; fairly widespread to widespread rainfall/thundershowers with isolated heavy rainfall likely over Northeast India; scattered to fairly widespread rain/thundershowers over the coastal areas of Maharashtra and over Andaman & Nicobar Islands and isolated to scattered rain/thundershowers over remaining parts of peninsular India, interior Maharashtra, parts of Northwest & Central India.
- ◆ Under the influence of a Western Disturbance, scattered to fairly widespread rainfall/snowfall/thunderstorms likely over Western Himalayan Region.

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Weather Warning during next 5 days *

13 May (Day 1): ♦ **Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Punjab and Haryana, Chandigarh & Delhi; **with lightning, hail & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand; **with lightning & gusty wind (speed reaching 40-50 kmph)** at isolated places over Gangetic West Bengal and Odisha; **with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm/Duststorm/Hailstorm** (speed reaching 40-50 kmph) very likely at isolated places over north Rajasthan.

♦ **Heavy to Very Heavy Rainfall** very likely at a few places with **Extremely Heavy Falls** at isolated places over Lakshadweep; **Heavy to Very Heavy Rainfall** at isolated places over Kerala & Mahe and **Heavy Rainfall** at isolated places over Himachal Pradesh, Uttarakhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally Weather (wind speed reaching 40-50 kmph gusting to 60kmph)** very likely over **Southwest and adjoining Southeast Arabian Sea and adjoining Equatorial Indian Ocean**, Maldives, Comorin and Lakshadweep area. Sea conditions over southeast Arabian Sea and adjoining Lakshadweep - Maldives area & equatorial Indian Ocean will be rough to very rough. **Fishermen are advised not to venture into these areas.**

14 May (Day 2): ♦ **Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph)** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places over Punjab and Haryana, Chandigarh & Delhi, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Rajasthan, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka.

♦ **Heavy to Very Heavy Rainfall** very likely at a few places with **Extremely Heavy Falls** at isolated places over Lakshadweep and Kerala & Mahe; **Heavy to Very Heavy Rainfall** at isolated places over Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal and **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim.

♦ **Squally Weather (wind speed reaching 40-50 kmph gusting to 60kmph)** very likely over **Southwest and adjoining Southeast Arabian Sea and adjoining equatorial Indian Ocean, Maldives, Comorin and Lakshadweep area** and along & off Kerala coast. Sea conditions over southeast Arabian Sea and adjoining Lakshadweep - Maldives area & equatorial Indian Ocean will be rough to very rough. **Fishermen are advised not to venture into these areas.**

15 May (Day 3): ♦ **Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph)** very likely at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa.

♦ **Heavy to Very Heavy Rainfall** very likely at a few places with **Extremely Heavy Falls** at isolated places over Coastal & South Interior Karnataka and Kerala & Mahe; **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places Tamil Nadu, Puducherry & Karaikal and Lakshadweep and **Heavy Rainfall** at isolated places over Madhya Maharashtra (ghat areas), Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema and North Interior Karnataka.

♦ **Squally wind speed** very likely 50- 60 kmph gusting to 70 kmph over southeast Arabian Sea and adjoining Lakshadweep – Maldives area and adjoining equatorial Indian Ocean and also along & off Kerala - Karnataka coasts. Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely along & off south Maharashtra & Goa coasts. **Squally Weather (wind speed reaching 40-50 kmph gusting to 60kmph)** also very likely over **Southwest and adjoining Southeast Arabian Sea and adjoining equatorial Indian Ocean**. Sea condition over eastcentral Arabian Sea will be very rough to high. **Fishermen are advised not to venture into these areas. Tidal wave Warning:** Tidal wave of about 1 meter height above the astronomical tide is very likely to inundate low lying areas of Lakshadweep Islands on 15th & 16th May.

♦ **16 May (Day 4):** ♦ **Thunderstorm with lightning & gusty wind (speed reaching 30-40)** likely at isolated places over Gujarat state, Madhya Maharashtra, Marathwada, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Vidarbha and Chhattisgarh.

♦ **Heavy to very heavy rainfall** likely at a few places with **Extremely Heavy Falls** at isolated places likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at a few places over South Interior Karnataka and at isolated places Madhya Maharashtra (ghat areas), Coastal & North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **Heavy Rainfall** at isolated places over Coastal Andhra Pradesh & Yanam and Rayalaseema.

♦ Gale wind speed reaching 60 – 70 kmph gusting to 80 kmph over east-central Arabian Sea and adjoining southeast Arabian Sea and Lakshadweep area. Gale winds speed also likely reaching 60-70 kmph gusting to 80 kmph along & off Kerala - Karnataka coasts. Squally wind speed also likely to reach 50-60 kmph gusting to 70 kmph along & off south Maharashtra –Goa coasts on 16th May. ♦ **Squally Weather (wind speed reaching 40-50 kmph gusting to 60kmph)** also very likely over **Southwest and adjoining Southeast Arabian Sea and adjoining equatorial Indian Ocean**. Sea condition over High to very High over northeast Arabian Sea. **Fishermen are advised not to venture into these areas. Tidal wave Warning :** Tidal wave of about 1 meter height above the astronomical tide is very likely to inundate low lying areas of Lakshadweep Islands on 15th & 16th May.

17 May (Day 5): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Gujarat Region, Telangana, Rayalaseema, Coastal & North Interior Karnataka, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Rajasthan, Madhya Pradesh, Chhattisgarh and Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ Heavy to very heavy rainfall likely at a few places with **Extremely Heavy Falls** at isolated places likely over Konkan & Goa; Heavy to very heavy rainfall at isolated places over Madhya Maharashtra (ghat areas), Coastal Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over Saurashtra & Kutch, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely over northeast Arabian sea and along & off south Gujarat & Daman and Diu coast. Sea condition over very likely to be very rough to High over northeast Arabian sea & off Gujarat coast.

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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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Table-1
5 Day Rainfall Forecast (EVENING)
13-May-2021

Met-Sub-Division	13-May Today	14May Fri	15May Sat	16May Sun	17May Mon
1. Andaman & Nicobar Islands	ISOL	ISOL	ISOL	SCT	SCT
2. Arunachal Pradesh	WS	FWS	SCT	SCT	SCT
3. Assam & Meghalaya	WS	FWS	SCT	SCT	SCT
4. N. M. M. & T.	FWS	FWS	SCT	SCT	ISOL
5. S.H. West Bengal & Sikkim	WS	WS	FWS	SCT	SCT
6. Gangetic West Bengal	FWS	FWS	SCT	ISOL	ISOL
7. Odisha	FWS	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	FWS	SCT	SCT	ISOL	ISOL
9. Bihar	SCT	ISOL	ISOL	DRY	DRY
10. East Uttar Pradesh	SCT	ISOL	DRY	DRY	DRY
11. West Uttar Pradesh	SCT	ISOL	DRY	DRY	DRY
12. Uttarakhand	WS	SCT	ISOL	ISOL	DRY
13. Haryana, Chd & Delhi	FWS	ISOL	DRY	DRY	ISOL
14. Punjab	FWS	ISOL	DRY	DRY	ISOL
15. Himachal Pradesh	WS	SCT	ISOL	ISOL	DRY
16. J & K and Ladakh	FWS	SCT	ISOL	ISOL	ISOL
17. West Rajsthan	ISOL	ISOL	DRY	DRY	ISOL
18. East Rajasthan	ISOL	ISOL	DRY	DRY	ISOL
19. West Madhya Pradesh	ISOL	DRY	DRY	ISOL	ISOL
20. East Madhya Pradesh	ISOL	ISOL	DRY	DRY	ISOL
21. Gujarat Region	DRY	DRY	ISOL	SCT	SCT
22. Saurashtra & Kutch	DRY	ISOL	ISOL	ISOL	FWS
23. Konkan & Goa	ISOL	ISOL	FWS	WS	WS
24. Madhya Maharashtra	ISOL	ISOL	SCT	FWS	WS
25. Marathawada	ISOL	ISOL	ISOL	SCT	SCT
26. Vidharbha	ISOL	ISOL	ISOL	ISOL	ISOL
27. Chhattisgarh	ISOL	ISOL	ISOL	ISOL	ISOL
28. Coastal A. P. & Yanam	ISOL	ISOL	FWS	SCT	SCT
29. Telangana	ISOL	ISOL	ISOL	SCT	SCT
30. Rayalaseema	ISOL	ISOL	FWS	WS	SCT
31. T.N.,Puducherry & Karaikal	SCT	FWS	WS	WS	FWS
32. Coastal Karnataka	FWS	WS	WS	WS	WS
33. North Interior Karnataka	ISOL	ISOL	FWS	WS	FWS
34. South Interior Karnataka	FWS	FWS	WS	WS	FWS
35. Kerala & Mahe	WS	WS	WS	WS	WS
36. Lakshadweep	WS	WS	WS	WS	WS

% Station Reporting Rainfall

% 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)
No Rain	Dry		

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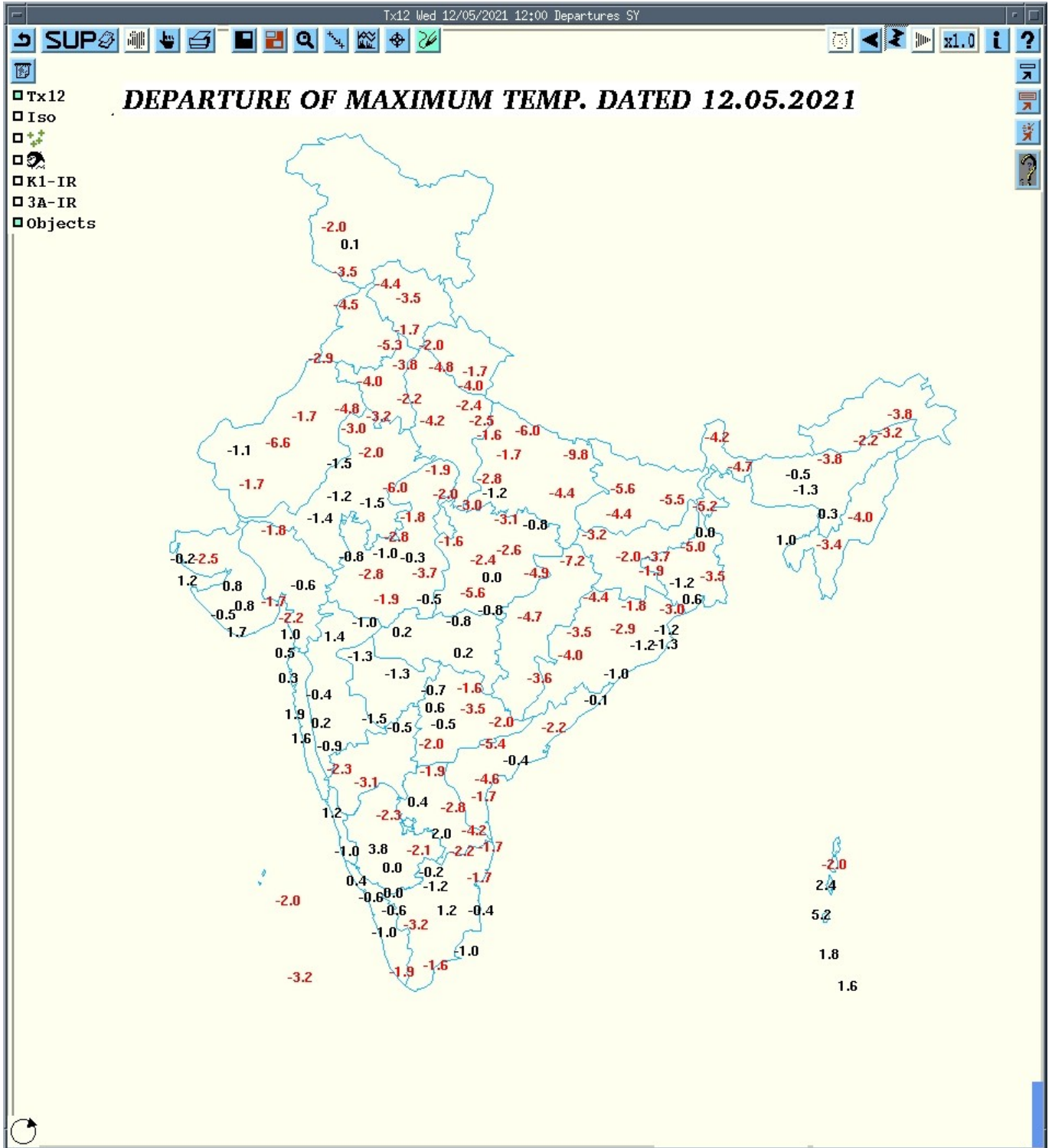
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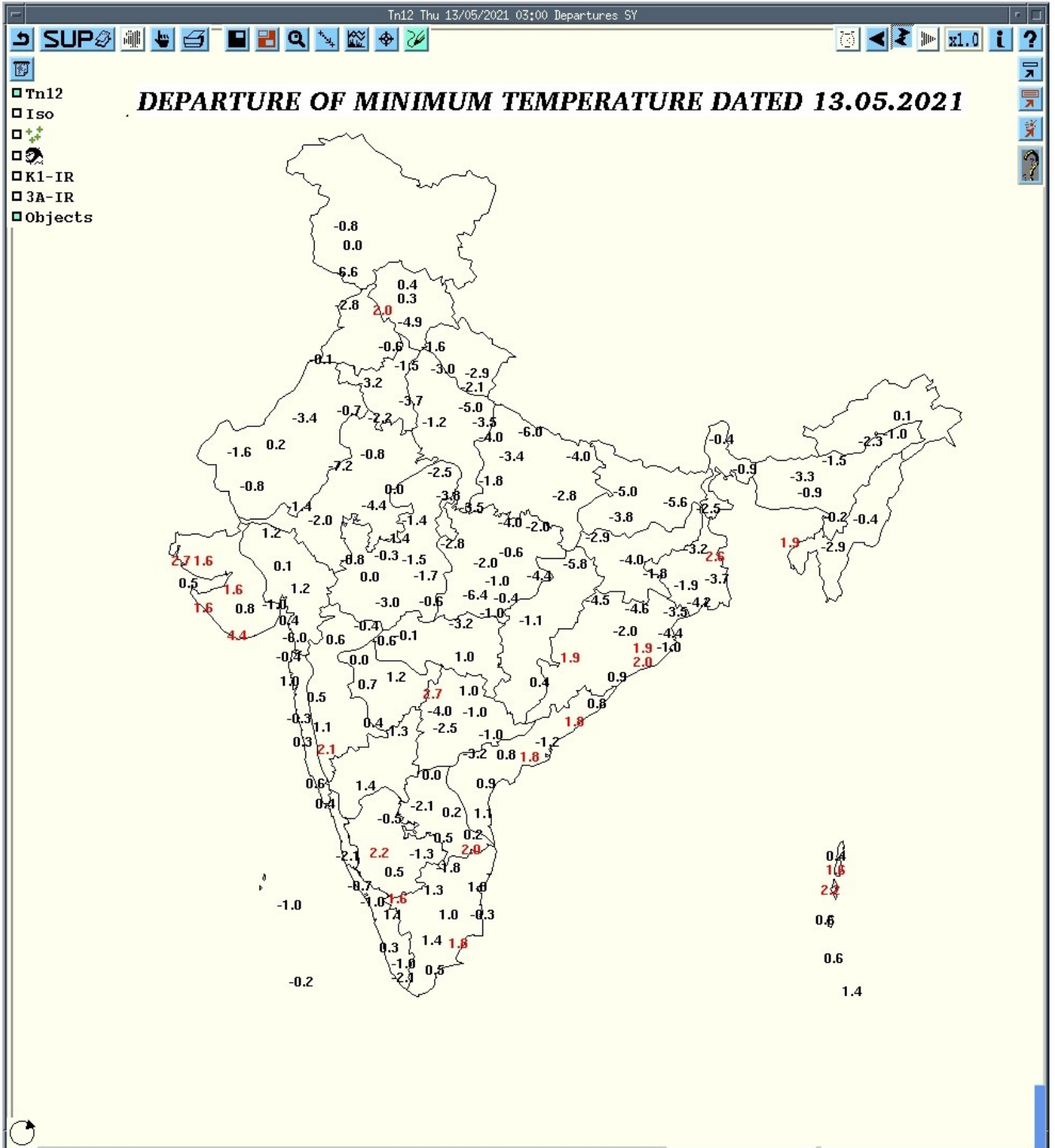
Fig. 4 : Departure from Normal of Maximum Temperatures



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Fig. 5 : Departure from Normal of Minimum Temperatures



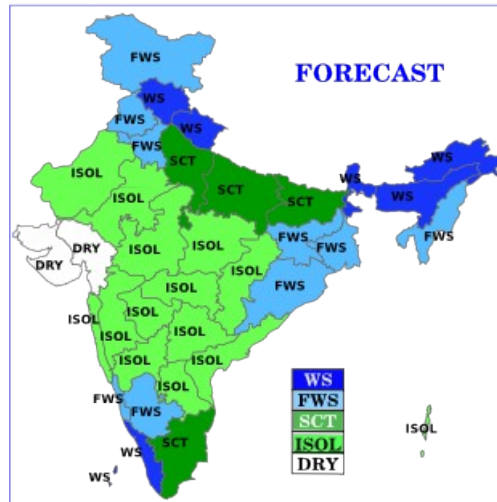
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(Created by the MetInfo app 10/7/20)

Thursday 13 May 2021



13 May (Day 1): ♦ **Thunderstorm with lightning, hail & gusty winds (speed reaching 40-50 kmph)** very likely at isolated places over Punjab and Haryana, Chandigarh & Delhi; **with lightning, hail & gusty winds (speed reaching 30-40 kmph)** at isolated places over Himachal Pradesh, Uttarakhand; **with lightning & gusty wind (speed reaching 40-50 kmph)** at isolated places over Gangetic West Bengal and Odisha; **with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places over Uttar Pradesh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Madhya Pradesh, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm/Duststorm/Hailstorm** (speed reaching 40-50 kmph) very likely at isolated places over north Rajasthan.

♦ **Heavy to Very Heavy Rainfall** very likely at a few places with **Extremely Heavy Falls** at isolated places over Lakshadweep; **Heavy to Very Heavy Rainfall** at isolated places over Kerala & Mahe and **Heavy Rainfall** at isolated places over Himachal Pradesh, Uttarakhand, West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Squally Weather** (wind speed reaching 40-50 kmph gusting to 60kmph) very likely over Southwest and adjoining Southeast Arabian Sea and adjoining Equatorial Indian Ocean, Maldives, Comorin and Lakshadweep area. Sea conditions over southeast Arabian Sea and adjoining Lakshadweep - Maldives area & equatorial Indian Ocean will be rough to very rough. **Fishermen are advised not to venture into these areas.**

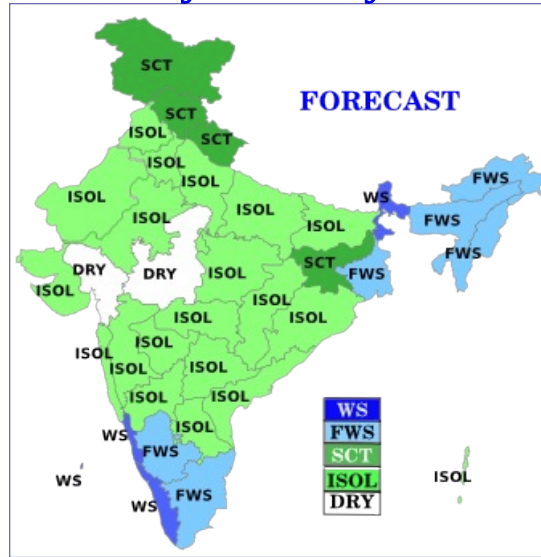
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Friday 14 May 2021



14 May (Day 2): ♦ **Thunderstorm with lightning & gusty wind (speed reaching 40-50 kmph)** very likely at isolated places over Gangetic West Bengal; **with lightning & gusty wind (speed reaching 30-40 kmph)** at isolated places over Punjab and Haryana, Chandigarh & Delhi, Jharkhand, West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Konkan & Goa, Telangana, Coastal Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Rajasthan, Vidarbha, Chhattisgarh, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Andhra Pradesh & Yanam, Rayalaseema and Interior Karnataka.

♦ **Heavy to Very Heavy Rainfall** very likely at a few places with **Extremely Heavy Falls** at isolated places over Lakshadweep and Kerala & Mahe; **Heavy to Very Heavy Rainfall** at isolated places over Coastal & South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal and **Heavy rainfall** very likely at isolated places over Sub-Himalayan West Bengal & Sikkim.

♦ **Squally Weather (wind speed reaching 40-50 kmph gusting to 60kmph)** very likely over Southwest and adjoining Southeast Arabian Sea and adjoining equatorial Indian Ocean, Maldives, Comorin and Lakshadweep area and along & off Kerala coast. Sea conditions over southeast Arabian Sea and adjoining Lakshadweep - Maldives area & equatorial Indian Ocean will be rough to very rough. **Fishermen are advised not to venture into these areas.**

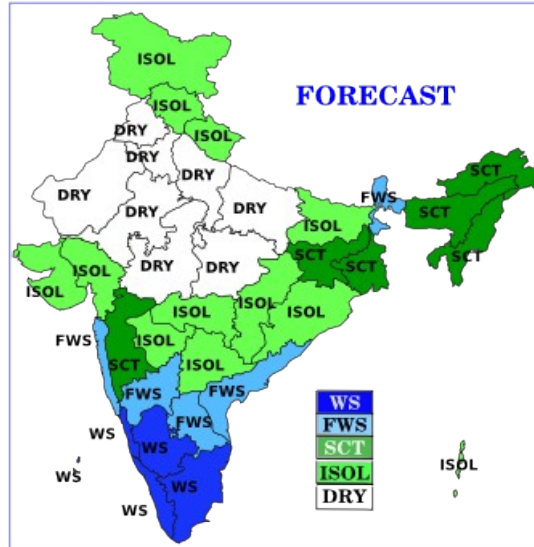
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(Copies to the Media upto 1000)

Saturday 15 May 2021



15 May (Day 3): ♦ **Thunderstorm with lightning & gusty wind (speed reaching 30-40 kmph)** very likely at isolated places over Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gujarat state, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Vidarbha, Chhattisgarh, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Konkan & Goa.

♦ **Heavy to Very Heavy Rainfall** very likely at a few places with **Extremely Heavy Falls** at isolated places over Coastal & South Interior Karnataka and Kerala & Mahe; **Heavy to very heavy rainfall with extremely heavy falls** likely at isolated places Tamil Nadu, Puducherry & Karaikal and Lakshadweep and **Heavy Rainfall** at isolated places over Madhya Maharashtra (ghat areas), Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema and North Interior Karnataka.

♦ **Squally wind speed** very likely 50- 60 kmph gusting to 70 kmph over southeast Arabian Sea and adjoining Lakshadweep – Maldives area and adjoining equatorial Indian Ocean and also along & off Kerala - Karnataka coasts. Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely along & off south Maharashtra & Goa coasts. **Squally Weather (wind speed reaching 40-50 kmph gusting to 60kmph)** also very likely over **Southwest and adjoining Southeast Arabian Sea and adjoining equatorial India Ocean**. Sea condition over eastcentral Arabian Sea will be very rough to high. **Fishermen are advised not to venture into these areas.** **Tidal wave Warning:** Tidal wave of about 1 meter height above the astronomical tide is very likely to inundate low lying areas of Lakshadweep Islands on 15th & 16th May.

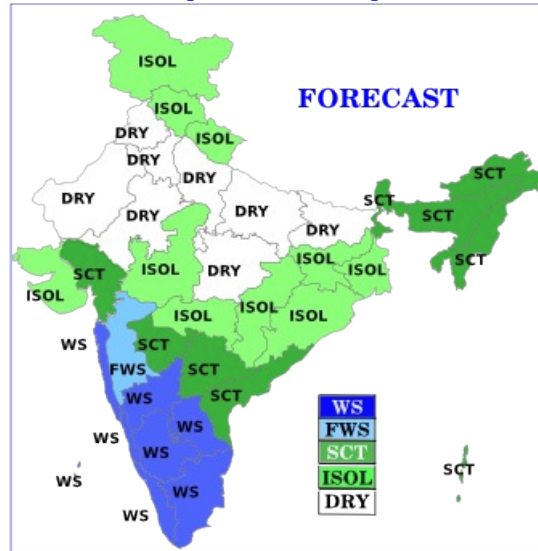
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(Created by the National Press 477)

Sunday 16 May 2021



◆16 May (Day 4): ◆ **Thunderstorm with lightning & gusty wind (speed reaching 30-40)** likely at isolated places over Gujarat state, Madhya Maharashtra, Marathwada, Rayalaseema, Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Vidarbha and Chhattisgarh.

◆ **Heavy to very heavy rainfall** likely at a few places with **Extremely Heavy Falls** at isolated places likely over Konkan & Goa; **Heavy to Very Heavy Rainfall** at a few places over South Interior Karnataka and at isolated places Madhya Maharashtra (ghat areas), Coastal & North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep and **Heavy Rainfall** at isolated places over Coastal Andhra Pradesh & Yanam and Rayalaseema.

◆ Gale wind speed reaching 60 – 70 kmph gusting to 80 kmph over east-central Arabian Sea and adjoining southeast Arabian Sea and Lakshadweep area. Gale winds speed also likely reaching 60-70 kmph gusting to 80 kmph along & off Kerala - Karnataka coasts Squally wind speed also likely to reach 50-60 kmph gusting to 70 kmph along & off south Maharashtra –Goa coasts on 16th May. ◆ **Squally Weather (wind speed reaching 40-50 kmph gusting to 60kmph) also very likely over Southwest and adjoining Southeast Arabian Sea and adjoining equatorial Indian Ocean.** Sea condition over High to very High over northeast Arabian Sea. **Fishermen are advised not to venture into these areas. Tidal wave Warning** :Tidal wave of about 1 meter height above the astronomical tide is very likely to inundate low lying areas of Lakshadweep Islands on 15th & 16th May.

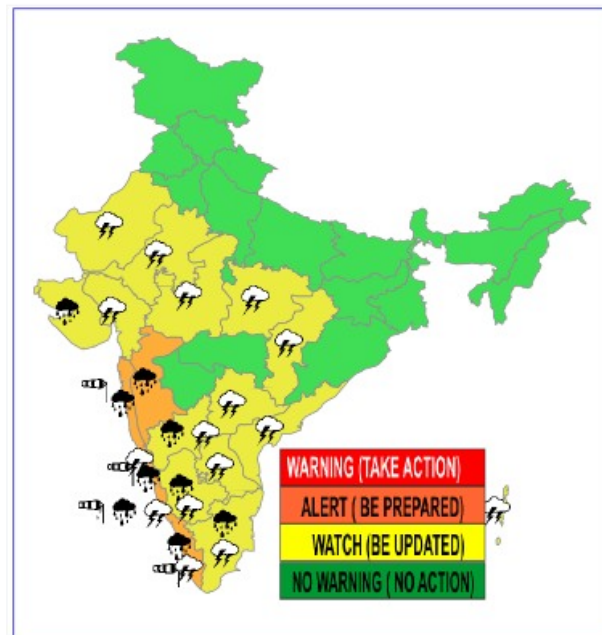
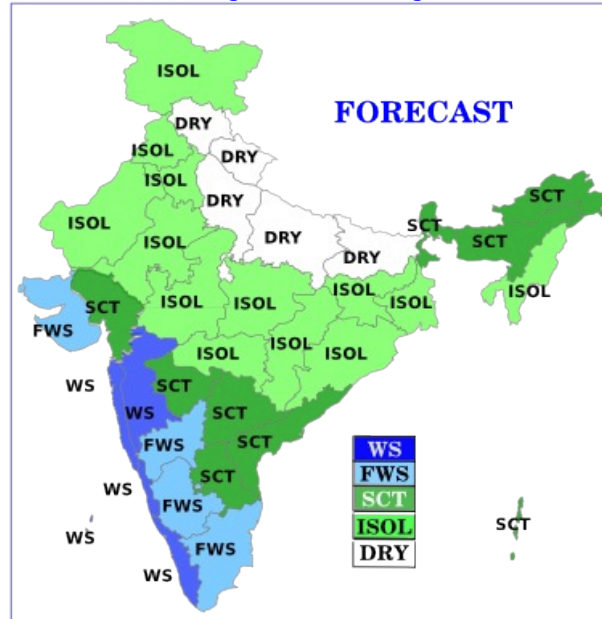
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Monday 17 May 2021



17 May (Day 5): ♦ **Thunderstorm with lightning & gusty winds (speed reaching 30-40 kmph)** likely at isolated places over Gujarat Region, Telangana, Rayalaseema, Coastal & North Interior Karnataka, Kerala & Mahe and Lakshadweep; **with lightning** at isolated places over Rajasthan, Madhya Pradesh, Chhattisgarh and Andaman & Nicobar Islands, Coastal Andhra Pradesh & Yanam, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ Heavy to very heavy rainfall likely at a few places with Extremely Heavy Falls at isolated places likely over Konkan & Goa; Heavy to very heavy rainfall at isolated places over Madhya Maharashtra (ghat areas), Coastal Karnataka and Kerala & Mahe and Heavy Rainfall at isolated places over Saurashtra & Kutch, South Interior Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ Squally wind speed reaching 40-50 kmph gusting to 60 kmph likely over northeast Arabian sea and along & off south Gujarat & Daman and Diu coast. Sea condition over very likely to be very rough to High over northeast Arabian sea & off Gujarat coast.

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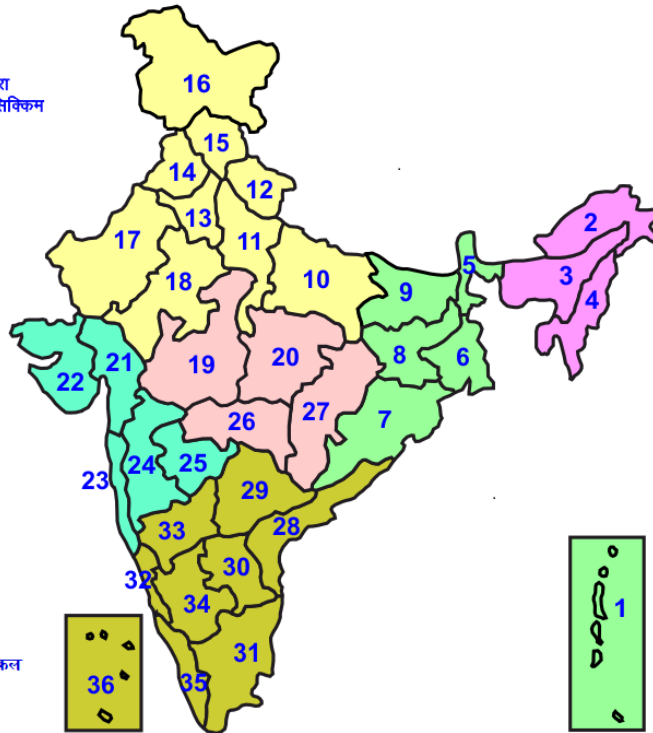
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LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगोय बंगाल
- 7 ओडिशा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडिगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात क्षेत्र
- 22 सौराष्ट्र एवं कच्छ
- 23 कोंकण एवं गोवा
- 24 मध्य महाराष्ट्र
- 25 मराठावाडा
- 26 विदर्भ
- 27 छत्तीसगढ़
- 28 तटीय आंध्र प्रदेश एवं यनम
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु, पुदुचेरी एवं कराईकल
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल एवं 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. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & 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. Vidharbha
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)

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 $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ 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 $\geq 6.5^{\circ}\text{C}$

(b). Based on Actual maximum temperature

Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$.

Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$

(c) Criteria for heat wave for coastal stations

When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$



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 $> 6.4^{\circ}\text{C}$.



Cold Wave

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ 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 $\geq -6.5^{\circ}\text{C}$

(b) Based on actual Minimum Temperature (for Plains only)

Cold Wave : When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$

Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$

(c) For Coastal Stations

When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ or actual Minimum Temperature is $\leq 15^{\circ}\text{C}$



Cold Day

When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ 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 $\leq -6.5^{\circ}\text{C}$



Fog

Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$

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 $\leq 4^{\circ}\text{C}$ (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 Storm: Wind speed > 220 kmph (> 119 knots)

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