

Saturday 18 June 2022

MID-DAY

Time of Issue: 1400 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advance of Southwest Monsoon:

- ◆ Southwest Monsoon has further advanced into entire Westcentral Bay of Bengal, most parts of northwest Bay of Bengal, some parts of Gangetic West Bengal, Jharkhand and some more parts of Bihar today, the 18th June, 2022.
- ◆ The Northern Limit of Monsoon (NLM) now passes through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porebandar, Bhavnagar, Khandwa, Gondia, Durg, Bhawanipatna, Kalingapatnam, Lat.20.0°N/87.0°E, Haldia, Bardhaman, Dumka, Banka and Motihari, 27.0°N/84°E.
- ◆ Conditions are favorable for further advance of monsoon into some more parts Madhya Pradesh, remaining parts of Vidarbha, Andhra Pradesh and northwest Bay of Bengal, some more parts of Chhattisgarh and Odisha, some more parts of Gangetic West Bengal, Jharkhand and Bihar and northeast Uttar Pradesh during next 2-3 days.

Rainfall/thunderstorm Forecast & Warnings:

- ◆ Under the influence of strong southerly/southwesterly winds from Bay of Bengal to Northeast & adjoining East India:
 - o Isolated heavy rainfall likely to continue over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during subsequent 2 days. Isolated extremely heavy rainfall also very likely over Assam & Meghalaya on 18th and over Meghalaya on 19th June 2022.
 - o Isolated heavy rainfall likely over Bihar, Jharkhand, Odisha and Gangetic West Bengal during 18th-20th and over Odisha on 18th & during 20th-22nd June, 2022.
- ◆ Under the influence of Western Disturbance at middle tropospheric levels and southwesterly winds from Arabian Sea to northwest India at lower tropospheric levels:
 - o Isolated heavy rainfall very likely over West Madhya Pradesh & Vidarbha on 18th & 19th; over East Madhya Pradesh during 18th-20th and Chhattisgarh during 19th-22nd June.
 - o Isolated heavy rainfall likely over Himachal Pradesh on 18th and over Haryana, Chandigarh & Delhi during 18th-20th; over Punjab during 19th-21st and over East Rajasthan on 18th & 19th June.
- ◆ Under the influence of westerly winds along the west coast and a trough from North Interior Karnataka to interior Tamil Nadu in lower tropospheric levels:
 - o Isolated heavy/very heavy rainfall very likely over Coastal Andhra Pradesh, Telangana, Rayalaseema, Kerala & Mahe, Coastal & South Interior Karnataka and Konkan & Goa during next 5 days; Tamilnadu, Puducherry & Karaikal and Lakshadweep on 18th; over ghat areas of Madhya Maharashtra & Gujarat Region during 20th-22nd and over Saurashtra on 22nd June, 2022.

Main Weather Observations

* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

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(Circle to the Nation since 1975)

◆ **Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at most places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Chhattisgarh, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal Karnataka, Kerala & Mahe, Lakshadweep; **at many places over** Konkan & Goa, Interior Karnataka, Madhya Pradesh; **at a few places over** Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand, Rajasthan, Vidarbha, Bihar, Odisha, Andaman & Nicobar Islands, Marathwada, Rayalaseema, Coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal; **at isolated places over** Uttar Pradesh, Gujarat state, Madhya Maharashtra, Telangana.

◆ Isolated **extremely heavy rainfall** occurred over Assam & Meghalaya and Sub-Himalayan West Bengal; **heavy to very heavy rainfall** over Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal & Kerala and **heavy rainfall** over Rayalaseema, Coastal & South Interior Karnataka, Tamilnadu, Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh and Sikkim.

◆ **Chief amount of Rainfall observed (from 0830 hours IST to 1730 hours IST of yesterday) (4 cm or more):** **Assam & Meghalaya:** Barpeta: Beki Mathungari-40; **Arunachal Pradesh:** West Kameng: Bhalukpong-14, Kalaktang-11; Lohit: Tezu-8; East Siang: Pasighat-7; **Gangetic West Bengal:** Hooghly: Harinkhola-8; **Sub-Himalayan West Bengal & Sikkim:** Jalpaiguri: Buxaduar-35, Hasimara-23, Alipurduar-10; **Nagaland, Manipur, Mizoram & Tripura:** West Tripura: Arundhatinagar-18, Agartala Aero-17; Gomati: Amarpur-9; Tamenglong: Tamenglong-9; **Tamilnadu:** Krishnagiri: Uthangarai-8; Tirupathur: Tirupathur PTO-8; **Rayalaseema:** Anantapuramu: Pamidi- 7; **Kerala:** Kottayam: Poonjar-12; Ernakulam: Neryamangalam ARG-10; **Coastal Karnataka:** Dakshina Kannada: Puttur HMS-7; **South Interior Karnataka:** Bengaluru Urban: Hesaraghatta-11; **West Madhya Pradesh:** Vidisha: Ganjbasoda-11, Nateran-7; Morena: Morena-aws-7, Sheopur: Badoda-7; **East Madhya Pradesh:** Mandla: Narayanganj-7, Anuppur: Jaithari-7, Balaghat: Lalburra-7; **Chhattisgarh:** Janjgir: Champa-11, Janjgir-7, Bilaspur: Marwahi-6, **Bihar:** Purnia: Purnia-11; **Jharkhand:** East Singhbhum: Jamshedpur Aero-7;

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today):** at isolated places over Jammu & Kashmir, Himachal Pradesh, East Rajasthan, Haryana, Chandigarh & Delhi, Madhya Pradesh, Chhattisgarh, Odisha, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

◆ **Maximum Temperature Departures (as on 17-06-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at a few places over Madhya Maharashtra; at isolated places over Kerala & Mahe; **above normal (1.6°C to 3.0°C)** at most places over Coastal & North Interior Karnataka; at many places over Marathwada; at a few places over East Uttar Pradesh, Gujarat Region and Telangana; at isolated places over Gangetic West Bengal, Odisha, Saurashtra & Kutch and Konkan & Goa. They were **markedly below normal (-5.1°C or less)** at many places over Punjab and Nagaland, Manipur, Mizoram & Tripura; at few places over Himachal Pradesh, Arunachal Pradesh and Assam & Meghalaya; at isolated places over Haryana, Chandigarh & Delhi; **appreciably below normal (-3.1°C to -5.0°C)** at many places over East Madhya Pradesh; at a few places over Sub-Himalayan West Bengal & Sikkim and Tamilnadu, Puducherry & Karaikal; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad and West Uttar Pradesh; **below normal (-1.6°C to -3.0°C)** at a few places over West Rajasthan and Lakshadweep; at isolated places over West Madhya Pradesh, Gangetic West Bengal and Rayalaseema and **near normal** over rest parts of the country. **Yesterday**, the highest maximum temperature of **42.1°C** was reported at **Churu (West Rajasthan)**.

◆ **Minimum Temperature Departures (as on 18-06-2022):** Minimum temperatures are **above normal (1.6°C to 3.0°C)** at a few places over East Uttar Pradesh, Vidarbha and at isolated places over Saurashtra & Kutch, Madhya Maharashtra, Marathwada, Telangana, Andaman-Nicobar Islands. They are **markedly below normal (-3.1°C to -5.0°C)** at isolated places over West Rajasthan and East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at a few places over Haryana, Chandigarh & Delhi, West Madhya Pradesh; at isolated places over East Rajasthan, Punjab; **below normal (-1.6°C to -3.0°C)** at many places over Jharkhand, Nagaland, Manipur, Mizoram & Tripura, Tamilnadu, Puducherry & Karaikal; at a few places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Arunachal Pradesh, Assam-Meghalaya; at isolated places over Gangetic West Bengal, Chhattisgarh, Lakshadweep and **near normal** over rest parts of the country. Today, the **lowest minimum** temperature of **20.0°C** reported at Udgir (**North Interior Karnataka**) over the plains of the country.

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Meteorological Analysis (Based on 0830 hours IST)

- ◆ Southwest Monsoon has further advanced into entire Westcentral Bay of Bengal, most parts of northwest Bay of Bengal, some parts of Gangetic West Bengal, Jharkhand and some more parts of Bihar today, the 18th June, 2022.
- ◆ The Northern Limit of Monsoon (NLM) now passes through Lat. 22°N/ Long. 60°E, Lat. 22°N/ Long. 65°E, Porebandar, Bhavnagar, Khandwa, Gondia, Durg, Bhawanipatna, Kalingapatnam, Lat.20.0°N/87.0°E, Haldia, Bardhaman, Dumka, Banka and Motihari, 27.0°N/84°E.
- ◆ Conditions are favorable for further advance of monsoon into some more parts Madhya Pradesh, remaining parts of Vidarbha, Andhra Pradesh and northwest Bay of Bengal, some more parts of Chhattisgarh and Odisha, some more parts of Gangetic West Bengal, Jharkhand and Bihar and northeast Uttar Pradesh during next 2-3 days.
- ◆ The trough from southwest Rajasthan & neighbourhood to Northwest Arabian Sea now runs from southwest Rajasthan & neighbourhood to Central Arabian Sea at 3.1 km above mean sea level.
- ◆ The east-west trough at mean sea level from northwest Uttar Pradesh to Manipur now runs from north Rajasthan to Manipur across Uttar Pradesh, Bihar, Sub-Himalayan West Bengal and Assam.
- ◆ The cyclonic circulation over Haryana & neighbourhood now lies over west Haryana & adjoining Punjab between 0.9 km & 1.5 km above mean sea level.
- ◆ The cyclonic circulation over north Tamil Nadu & neighbourhood now lies over southwest Bay of Bengal off Tamilnadu coast between 3.1 km & 5.8 km above mean sea level.
- ◆ The trough from North Interior Karnataka to south Tamilnadu now runs from North Interior Karnataka to interior Tamilnadu and extends upto 1.5 km above mean sea level.
- ◆ A fresh Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level runs roughly along Long.72°E to the north of Lat.25°N.
- ◆ The north-south trough from northeast Bihar to interior Odisha at 3.1 km above mean sea level has become less marked.
- ◆ The cyclonic circulation over southwest Rajasthan & neighbourhood at 3.1 km above mean sea level less marked.
- ◆ The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long.78°E to the north of Lat. 30° has moved away east northeastwards.

Weather Forecast for next 5 days * upto 0830 hours IST of 23rd June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ No significant change in maximum temperatures very likely over most parts of the country during next 5 days.

Weather Outlook for subsequent 2 days during 23rd June-25th June, 2022

- ◆ Widespread light/moderate rainfall likely to continue over Sub-Himalayan West Bengal & Sikkim, Northeast India.
- ◆ Scattered to fairly widespread rainfall likely over peninsular India, West, central & east India and Islands.
- ◆ Isolated to scattered rainfall likely over rest parts of the country.

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Weather Warning during next 5 days *

18 June (Day 1): ♦ Heavy to very heavy rainfall with extremely heavy falls at isolated places very likely over Assam & Meghalaya; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Coastal & South Interior Karnataka and Kerala & Mahe and **heavy rainfall** at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, Punjab, Bihar, Jharkhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Lakshadweep and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Gujarat state, Marathwada.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, east central Arabian Sea, Lakshadweep area, along and off Kerala, Karnataka coasts, north east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

19 June (Day 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Gangetic West Bengal, Bihar, Jharkhand, Konkan & Goa, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Bihar, Jharkhand, West Bengal & Sikkim, Gujarat state, Marathwada.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, south Maharashtra, south Gujarat coasts, south east Arabian Sea, Lakshadweep area, Comorin area, north east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

20 June (Day 3): ♦ Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Konkan & Goa ; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Gujarat Region, Telangana, Rayalaseema, Kerala & Mahe Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Konkan & Goa, East Madhya Pradesh, Chhattisgarh, Coastal Karnataka, South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand, Odisha, Gangetic West Bengal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka coasts, south east and east central Arabian Sea, north east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, north Gujarat and adjoining north east Arabian Sea. Fishermen are advised not to venture into these seas.

21 June (Day 4): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Punjab, Odisha, Chhattisgarh, Gujarat Region, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka coasts, south east and east central Arabian Sea, north east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, north Gujarat and adjoining north east Arabian Sea. Fishermen are advised not to venture into these seas.

22 June (Day 5): ♦ Heavy to very heavy rainfall at a few places likely over Madhya Maharashtra, Konkan & Goa and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Chhattisgarh, Odisha, Gujarat state, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka coasts, south east and east central Arabian Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

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 (MID-DAY)
18-June-2022

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

% Station Reporting Rainfall

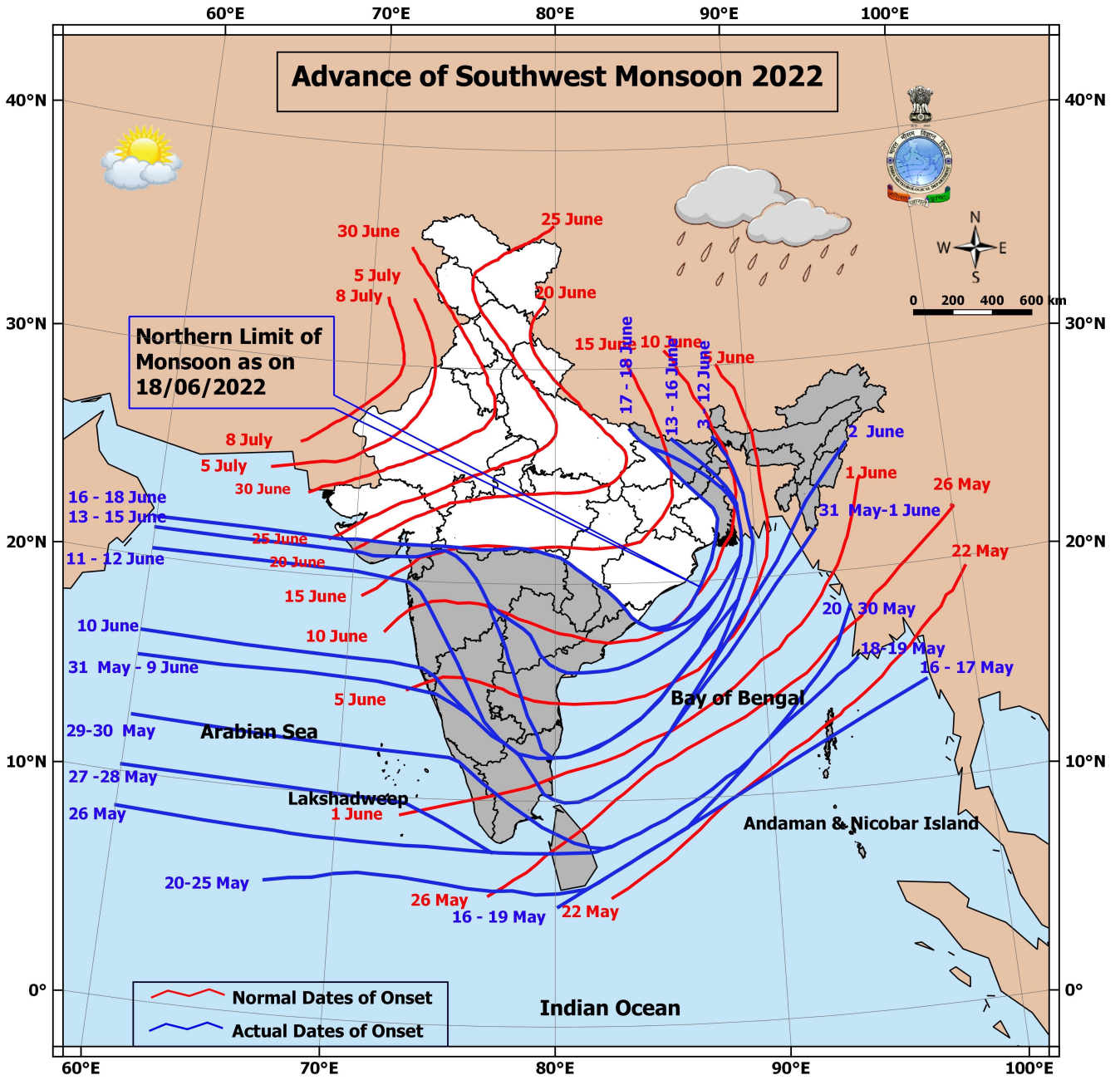
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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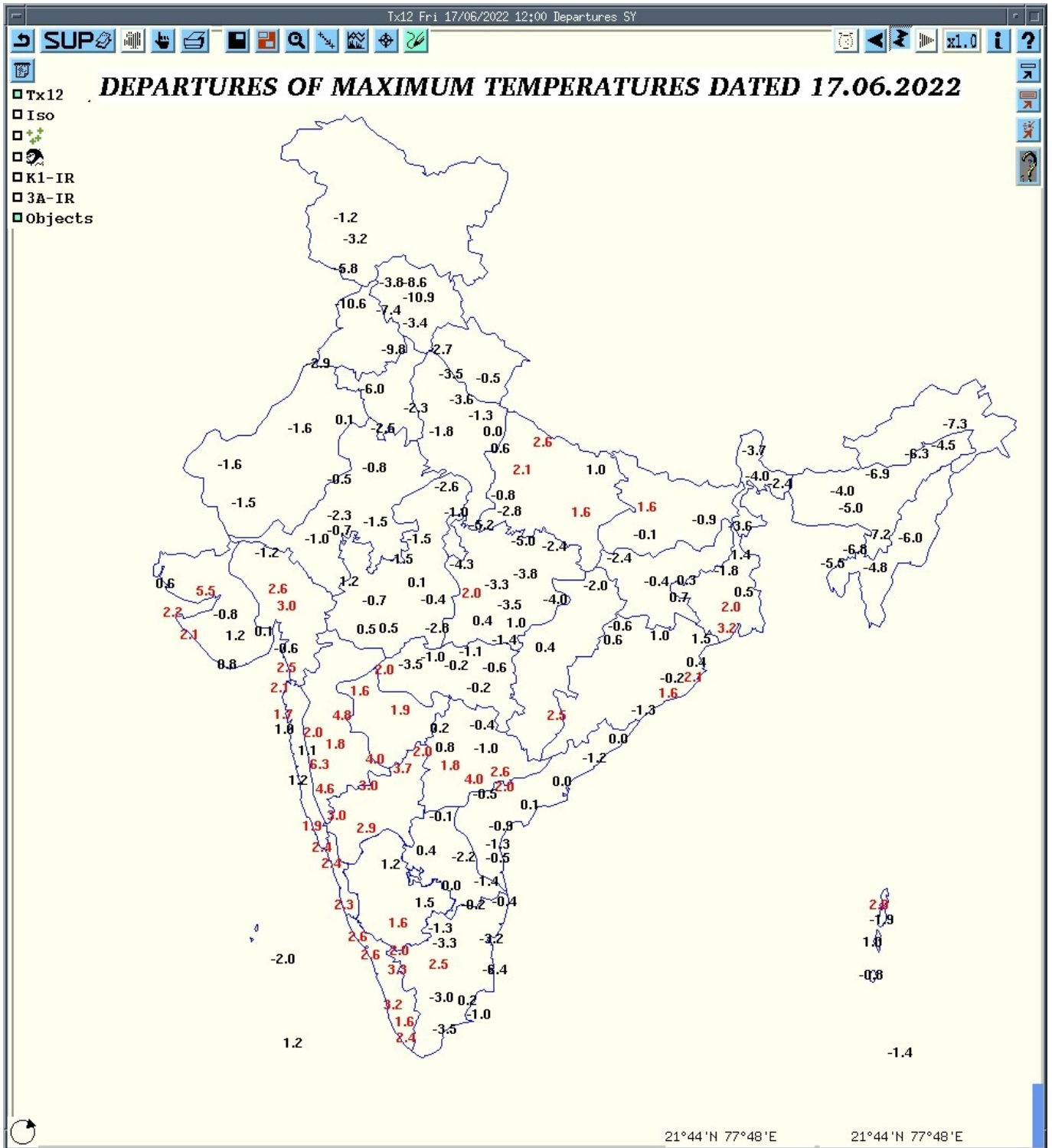
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(As per the Met Act 1975)



Fig. 4 : Departure from Normal of Maximum Temperatures



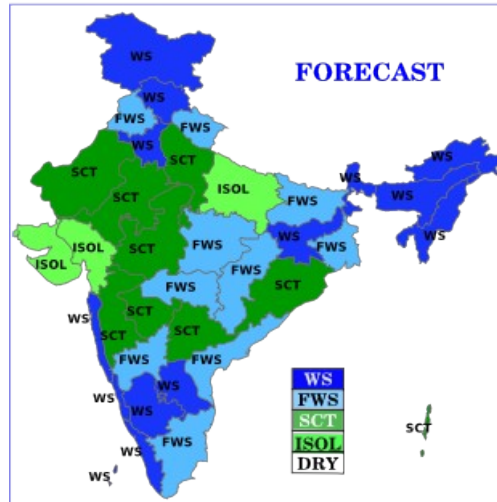
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Saturday 18 June 2022



18 June (Day 1): ♦ **Heavy to very heavy rainfall with extremely heavy falls** at isolated places very likely over Assam & Meghalaya; **heavy to very heavy rainfall** at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Coastal & South Interior Karnataka and Kerala & Mahe and **heavy rainfall** at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, East Rajasthan, Punjab, Bihar, Jharkhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Gangetic West Bengal, Odisha, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Lakshadweep and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Gujarat state, Marathwada.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over south east Arabian Sea, east central Arabian Sea, Lakshadweep area, along and off Kerala, Karnataka coasts, north east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

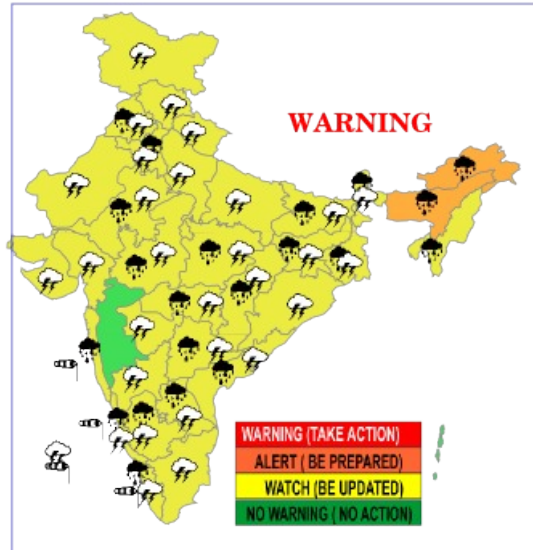
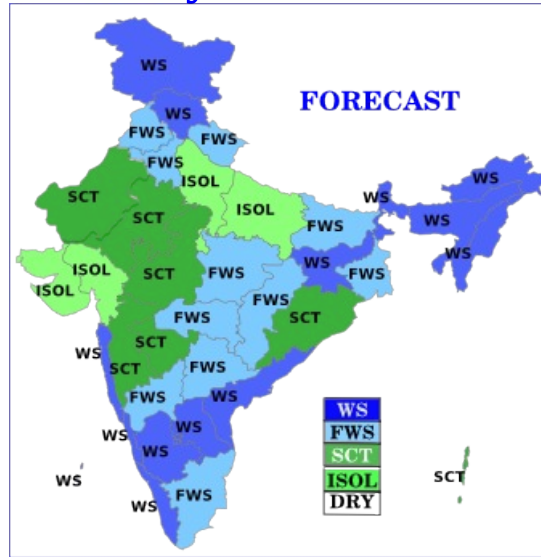
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Sunday 19 June 2022



19 June (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Arunachal Pradesh, Assam & Meghalaya, Rayalaseema, Sub-Himalayan West Bengal & Sikkim, Kerala & Mahe; **heavy rainfall** at isolated places over Nagaland, Manipur, Mizoram, Tripura, Punjab, Haryana, Chandigarh & Delhi, East Rajasthan, Gangetic West Bengal, Bihar, Jharkhand, Konkan & Goa, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe, Lakshadweep, Bihar, Jharkhand, West Bengal & Sikkim, Gujarat state, Marathwada.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off Kerala, Karnataka, Goa, south Maharashtra, south Gujarat coasts, south east Arabian Sea, Lakshadweep area, Comorin area, north east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

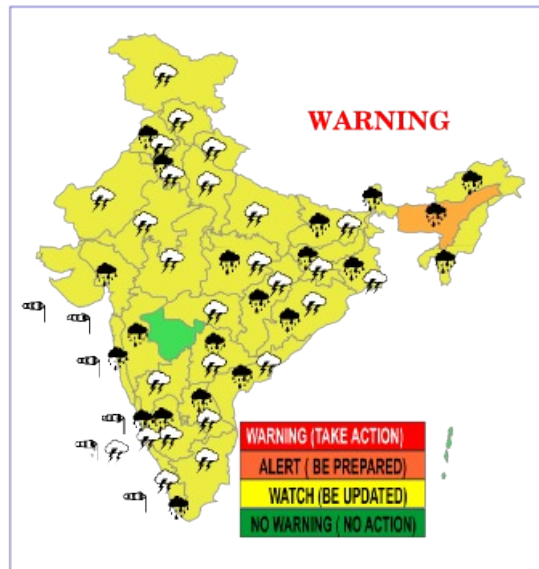
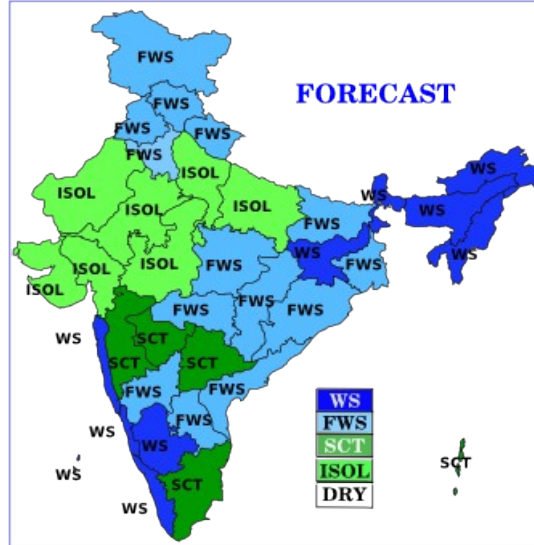
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(Copies to the Media upto 1070)

Monday 20 June 2022



20 June (Day 3): ♦ Heavy to very heavy rainfall at isolated places very likely over Assam & Meghalaya, Konkan & Goa ; **heavy rainfall** at isolated places over Arunachal Pradesh, Nagaland, Manipur, Mizoram, Tripura, Gujarat Region, Telangana, Rayalaseema, Kerala & Mahe Punjab, Haryana, Chandigarh & Delhi, Gangetic West Bengal & Sikkim, Odisha, Bihar, Jharkhand, Konkan & Goa, East Madhya Pradesh, Chhattisgarh, Coastal Karnataka, South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places very likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand, Odisha, Gangetic West Bengal.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka coasts, south east and east central Arabian Sea, north east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, north Gujarat and adjoining north east Arabian Sea. Fishermen are advised not to venture into these seas.

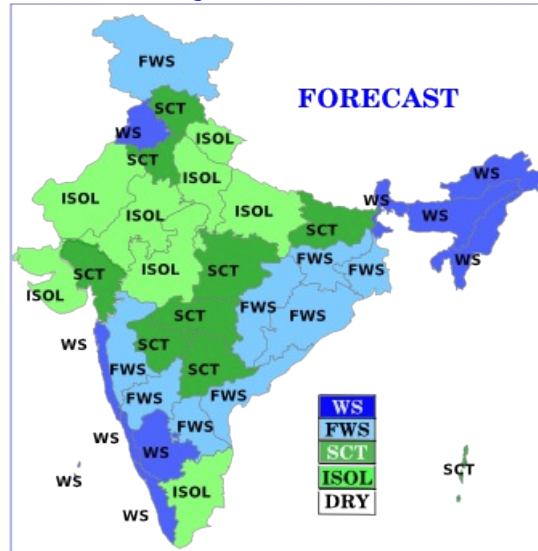
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(Copies to the National Press 1977)

Tuesday 21 June 2022



21 June (Day 4): ♦ Heavy to very heavy rainfall at a few places likely over Konkan & Goa and **heavy rainfall** at isolated places over Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Punjab, Odisha, Chhattisgarh, Gujarat Region, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka coasts, south east and east central Arabian Sea, north east Bay of Bengal. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea, north Gujarat and adjoining north east Arabian Sea. Fishermen are advised not to venture into these seas.

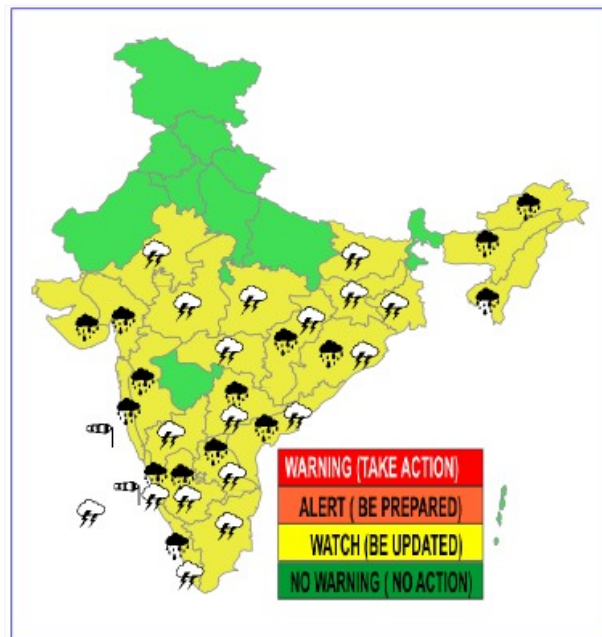
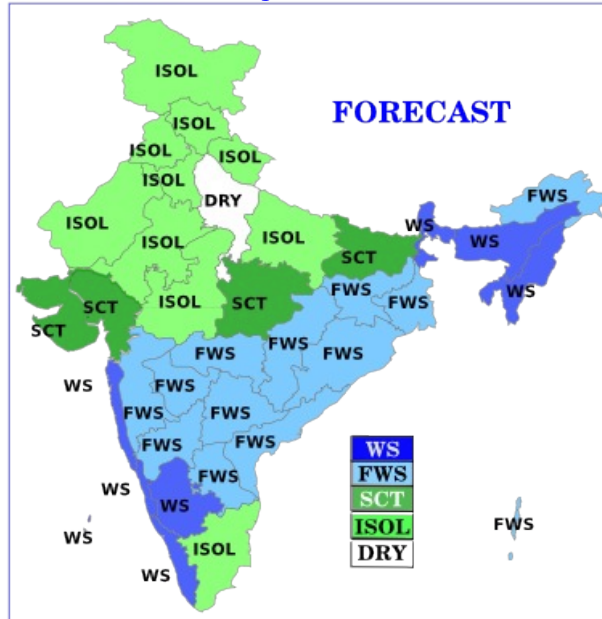
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(Circle as the Nation since 1975)

Wednesday 22 June 2022



22 June (Day 5): ♦ **Heavy to very heavy rainfall** at a few places likely over Madhya Maharashtra, Konkan & Goa and **heavy rainfall** at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram, Tripura, Chhattisgarh, Odisha, Gujarat state, Rayalaseema, Coastal & South Interior Karnataka.

♦ **Thunderstorm accompanied with lightning** at isolated places likely over East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep, Bihar, Jharkhand.

♦ **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over along and off south Gujarat, Maharashtra, Goa, Karnataka coasts, south east and east central Arabian Sea. Strong winds of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea and adjoining west central Arabian Sea. Fishermen are advised not to venture into these seas.

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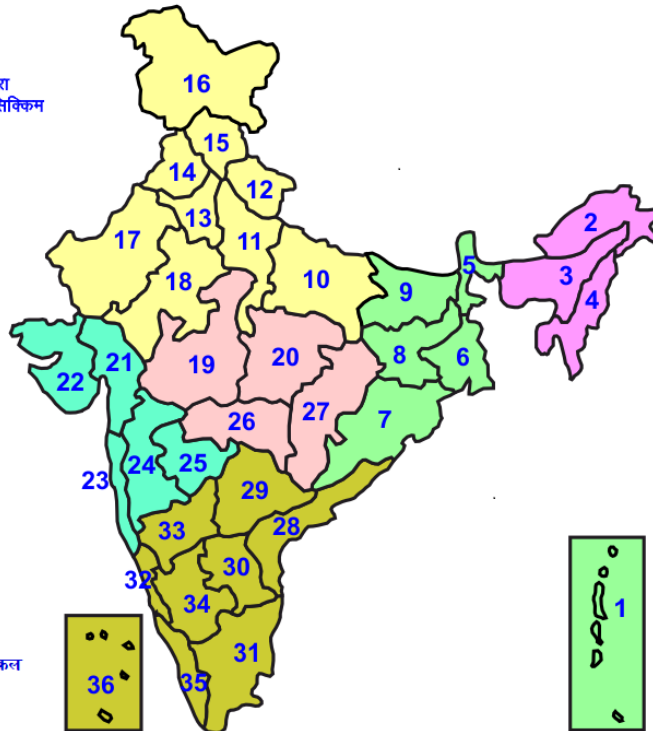
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LEGENDS

- 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. Marathawada
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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(Copies of the Manual are 1077)

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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