

Wednesday 01 June 2022

MORNING

Time of Issue: 0745 hours IST

ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN

Significant Weather Features

Advancement of Southwest Monsoon:

◆ Conditions are favourable for further advance of Southwest monsoon into some more parts of central Arabian Sea, some more parts of Karnataka, some parts of Konkan & Goa, some more parts of Tamil Nadu, remaining parts of southwest Bay of Bengal, some more parts of westcentral Bay of Bengal, northeast Bay of Bengal, northeastern states and Sub-Himalayan West Bengal & Sikkim during next 2-3 days.

Rainfall/thunderstorm Forecast & Warnings:

◆ Under the influence of monsoonal westerly winds from Arabian Sea over the south peninsular India in lower & middle tropospheric levels:

i) **Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over Southeast Arabian Sea along & off Kerala coast & Lakshadweep, Comorin area & Gulf of Mannar on 01st June; over Southwest Arabian Sea during next 5 days; over Southeast Bay of Bengal & adjoining south Andaman Sea during 02nd-04th June and over Southwest Bay of Bengal, Gulf of Mannar & south Tamilnadu coast during 02nd-04th June, 2022. Fishermen are advised not to venture into these areas.

◆ Lower level Southwesterly winds from Bay of Bengal to northeast India are very likely to strengthen from 02nd June. Under its influence:

i) Rainfall activity is likely to increase over Northeast India from tomorrow, the 1st June, 2022 with widespread rainfall with isolated **heavy to very heavy** falls very likely over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim during 02nd-04th June. Isolated **heavy** rainfall likely over Mizoram & Tripura on 01st & 02nd June; over Arunachal Pradesh during 01st-04th June.

◆ A fresh Western Disturbance seen as a trough with its axis at 5.8 km above mean sea level runs roughly along Long.65°E & to north of Lat.32°N. An east-west trough runs from Haryana to Bangladesh at lower tropospheric levels. Under their influence: Isolated/scattered rainfall likely over Jammu & Kashmir and Himachal Pradesh during next 3 days.

◆ No heat wave conditions likely over the country during next 5 days.

Main Weather Observations

◆ **Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday):** at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Gangetic West Bengal and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, East Rajasthan, East Madhya Pradesh, Vidarbha, Marathwada, Tamilnadu, Puducherry & Karaikal, Chhattisgarh, Jharkhand, Odisha and Madhya Maharashtra.

◆ **Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today):** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Assam & Meghalaya, Odisha, Gangetic West Bengal, Tripura, Tamilnadu, Puducherry & Karaikal and Coastal Karnataka.

◆ **Chief amount of Rainfall observed: (from 0830 hours IST to 1730 hours IST of yesterday):** (2 cm or more): Aijal and Silchar-3; Kohima and Bankura-2 each.

◆ **Maximum Temperature Departures (as on 31-05-2022):** Maximum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at isolated places over Odisha, Gangetic West Bengal and Assam & Meghalaya; **above normal (1.6°C to 3.0°C)** at a few places over Rajasthan and Madhya Maharashtra and at isolated places over Himachal Pradesh, East Uttar Pradesh, Madhya Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam, West Bengal & Sikkim and Andaman & Nicobar Islands. They were **below normal (-1.6°C to -3.0°C)** at isolated places over West Uttar Pradesh, Tamilnadu, Puducherry & Karaikal and Bihar and near normal over rest parts of the country. **Yesterday**, the highest maximum temperature of **45.5°C** was reported at **Nowgong** (East Madhya Pradesh).

Minimum Temperature Departures (as on 31-05-2022): Minimum temperatures were **appreciably above normal (3.1°C to 5.0°C)** at many places over Bihar; **above normal (1.6°C to 3.0°C)** at most places over Uttarakhand, West Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim; at many places over Punjab, East Uttar Pradesh, Arunachal Pradesh and Jharkhand; at a few places over Assam & Meghalaya, Odisha, Vidarbha and Telangana and at isolated places over Gangetic West Bengal, Rajasthan, Madhya Pradesh and Coastal Andhra Pradesh & Yanam. They were **below normal (-1.6°C to -3.0°C)** at a few places over Jammu & Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, Haryana, Chandigarh & Delhi and Tamilnadu, Puducherry & Karaikal and near normal over rest parts of the country. **Yesterday**, the **lowest minimum** temperature of **19.7°C** was reported at Dharmapuri (**Tamilnadu, Puducherry & Karaikal**) over the plains of the country.

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(Copies to the Meteorology Dept.)

Meteorological Analysis (Based on 0530 hours IST)

- ◆ The Northern Limit of Monsoon (NLM) continue to pass through lat. 15°N/ Long. 60°E, lat. 15°N/ Long. 70°E, Karwar, Chikmagalur, Bengaluru, Dharmapuri, lat. 10°N/ Long. 80°E, lat. 11.0°N/ Long. 83°E, 14.0°N/86°E, 20.0°N/91°E and 22.0°N/93°E.
- ◆ Conditions are favourable for further advance of Southwest monsoon into some more parts of central Arabian Sea, some more parts of Karnataka, some parts of Konkan & Goa, some more parts of Tamil Nadu, remaining parts of southwest Bay of Bengal, some more parts of Westcentral Bay of Bengal, northeast Bay of Bengal, northeastern states and Sub-Himalayan West Bengal & Sikkim during next 2-3 days.
- ◆ The Western Disturbance as a trough in middle tropospheric westerlies between 3.1 km & 4.5 km above mean sea level roughly along Long.78°E & to north of Lat.30°N persists.
- ◆ The induced cyclonic circulation over Haryana & neighbourhood extending upto 0.9 km above mean sea level persists.
- ◆ The east-west trough from the above cyclonic circulation over Haryana & neighbourhood to Bangladesh across south Uttar Pradesh, south Bihar, Jharkhand, Gangetic West Bengal extending upto 0.9 km above mean sea level persists.
- ◆ The cyclonic circulation over Bangladesh at 3.1 km above mean sea level with a trough aloft with its axis at 5.8 km above mean sea level roughly along Long.89°E & to north of Lat.22°N persists.
- ◆ The other Western Disturbance as a trough with its axis at 5.8 km above mean sea level now runs roughly along Long.66°E & to north of Lat.32°N.

Weather Forecast for next 5 days * upto 0830 hours IST of 05th June, 2022

- ◆ Meteorological sub-division wise detailed 5 days precipitation forecast is given in Table-1.
- ◆ Gradual rise in maximum temperatures by 2-3°C very likely over most parts of Northwest and Central India during next 2 days and no significant change thereafter.
- ◆ No significant change in maximum temperatures very likely over rest parts of the country during next 5 days.

Weather Outlook for subsequent 2 days during 06th June- 08th June, 2022

- ◆ Fairly widespread to widespread light/moderate rainfall likely over Sub-Himalayan West Bengal & Sikkim, northeast India and Islands.
- ◆ Scattered to fairly widespread light/moderate rainfall likely over parts of Peninsular India. Isolated rainfall/snowfall also likely over higher reaches of Kashmir.
- ◆ Dry weather likely over rest parts of the country.

Weather Warning during next 5 days *

01 June (Day 1): ♦ Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Arunachal Pradesh, Assam-Meghalaya, Sub-Himalayan West Bengal & Sikkim and Mizoram & Tripura.

♦**Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph)** at isolated places very likely over south Konkan-Goa, Marathwada, Madhya Maharashtra and Telangana; **with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph)** at isolated places over Jammu & Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Rayalaseema and Coastal Andhra Pradesh-Yanam and **with lightning** at isolated places over Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, , Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

♦**Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast Arabian Sea, Lakshadweep area, Comorin area, along and off Kerala coast and gulf of Mannar. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea. Fishermen are advised not to venture into these areas.

02 June (Day 2): ♦ Heavy to very heavy rainfall at isolated places very likely over Assam-Meghalaya and Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Mizoram & Tripura.

♦**Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph gusting to 60 kmph)** at isolated places very likely over Andaman & Nicobar Islands and Gangetic West Bengal and **with lightning** at isolated places over Bihar, Assam & Meghalaya, Nagaland, Manipur, Kerala & Mahe and Lakshadweep.

♦**Squally weather** (wind speed 40-50 kmph gusting to 60 kmph) very likely over southeast Bay of Bengal and adjoining Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over south west Arabian Sea, south west Bay of Bengal, gulf of Mannar and south Tamil Nadu. Fishermen are advised not to venture into these areas.

03 June (Day 3): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam-Meghalaya and **heavy rainfall** at isolated places over Andaman & Nicobar Islands and Arunachal Pradesh.

♦**Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph)** at isolated places likely over Andaman & Nicobar Islands; **with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph)** at isolated places over Bihar and **with lightning** at isolated places over Kerala & Mahe and Lakshadweep.

♦**Squally weather (wind speed 30-40 kmph gusting to 50 kmph)** likely over southeast Bay of Bengal and adjoining Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea, south west Bay of Bengal, gulf of Mannar and south Tamil Nadu. Fishermen are advised not to venture into these areas.

04 June (Day 4): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam-Meghalaya and **heavy rainfall** at isolated places over Andaman & Nicobar Islands and Arunachal Pradesh.

♦**Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph)** at isolated places likely over Andaman & Nicobar Islands; **with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph)** at isolated places over Bihar and **with lightning** at isolated places over Kerala & Mahe and Lakshadweep.

♦**Squally weather (wind speed 30-40 kmph gusting to 50 kmph)** likely over southeast Bay of Bengal and adjoining Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea, southwest Bay of Bengal, gulf of Mannar and south Tamil Nadu. Fishermen are advised not to venture into these areas.

05 June (Day 5): ♦ Heavy to very heavy rainfall at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam-Meghalaya and **heavy rainfall** at isolated places over Andaman & Nicobar Islands and Arunachal Pradesh.

♦**Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph)** at isolated places likely over Andaman & Nicobar Islands; **with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph)** at isolated places over Bihar and **with lightning** at isolated places over Kerala & Mahe and Lakshadweep.

♦**Squally weather (wind speed 30-40 kmph gusting to 50 kmph)** likely over southeast Bay of Bengal and adjoining Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea, southwest Bay of Bengal, gulf of Mannar and south Tamil Nadu. Fishermen are advised not to venture into these areas.

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Table-1
5 Day Rainfall Forecast (MORNING)
01-June-2022

Met-Sub-Division	01-Jun Today	02Jun Thu	03Jun Fri	04Jun Sat	05Jun Sun
1. Andaman & Nicobar Islands	WS	WS	WS	WS	WS
2. Arunachal Pradesh	WS	WS	WS	WS	WS
3. Assam & Meghalaya	WS	WS	WS	WS	WS
4. N. M. M. & T.	FWS	FWS	FWS	FWS	FWS
5. S.H. West Bengal & Sikkim	FWS	WS	WS	WS	WS
6. Gangetic West Bengal	SCT	SCT	ISOL	ISOL	ISOL
7. Odisha	ISOL	ISOL	ISOL	ISOL	ISOL
8. Jharkhand	ISOL	ISOL	ISOL	ISOL	ISOL
9. Bihar	ISOL	SCT	SCT	SCT	SCT
10. East Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
11. West Uttar Pradesh	DRY	DRY	DRY	DRY	DRY
12. Uttarakhand	DRY	DRY	DRY	DRY	DRY
13. Haryana, Chd & Delhi	DRY	DRY	DRY	DRY	DRY
14. Punjab	DRY	ISOL	DRY	DRY	DRY
15. Himachal Pradesh	ISOL	ISOL	DRY	DRY	DRY
16. J & K and Ladakh	SCT	ISOL	ISOL	ISOL	ISOL
17. West Rajsthan	DRY	DRY	DRY	DRY	DRY
18. East Rajasthan	DRY	DRY	DRY	DRY	DRY
19. West Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
20. East Madhya Pradesh	DRY	DRY	DRY	DRY	DRY
21. Gujarat Region	DRY	DRY	DRY	DRY	DRY
22. Saurashtra & Kutch	DRY	DRY	DRY	DRY	DRY
23. Konkan & Goa	SCT	SCT	ISOL	ISOL	ISOL
24. Madhya Maharashtra	ISOL	ISOL	ISOL	ISOL	ISOL
25. Marathawada	ISOL	DRY	DRY	DRY	DRY
26. Vidharbha	ISOL	DRY	DRY	DRY	DRY
27. Chhattisgarh	ISOL	DRY	DRY	DRY	DRY
28. Coastal A. P. & Yanam	ISOL	ISOL	ISOL	ISOL	ISOL
29. Telangana	ISOL	ISOL	DRY	DRY	DRY
30. Rayalaseema	SCT	ISOL	ISOL	ISOL	ISOL
31. T.N.,Puducherry & Karaikal	SCT	SCT	ISOL	ISOL	ISOL
32. Coastal Karnataka	FWS	WS	WS	WS	WS
33. North Interior Karnataka	SCT	SCT	SCT	SCT	SCT
34. South Interior Karnataka	SCT	FWS	FWS	FWS	FWS
35. Kerala & Mahe	FWS	WS	WS	WS	WS
36. Lakshadweep	WS	WS	WS	WS	WS

% Station Reporting Rainfall

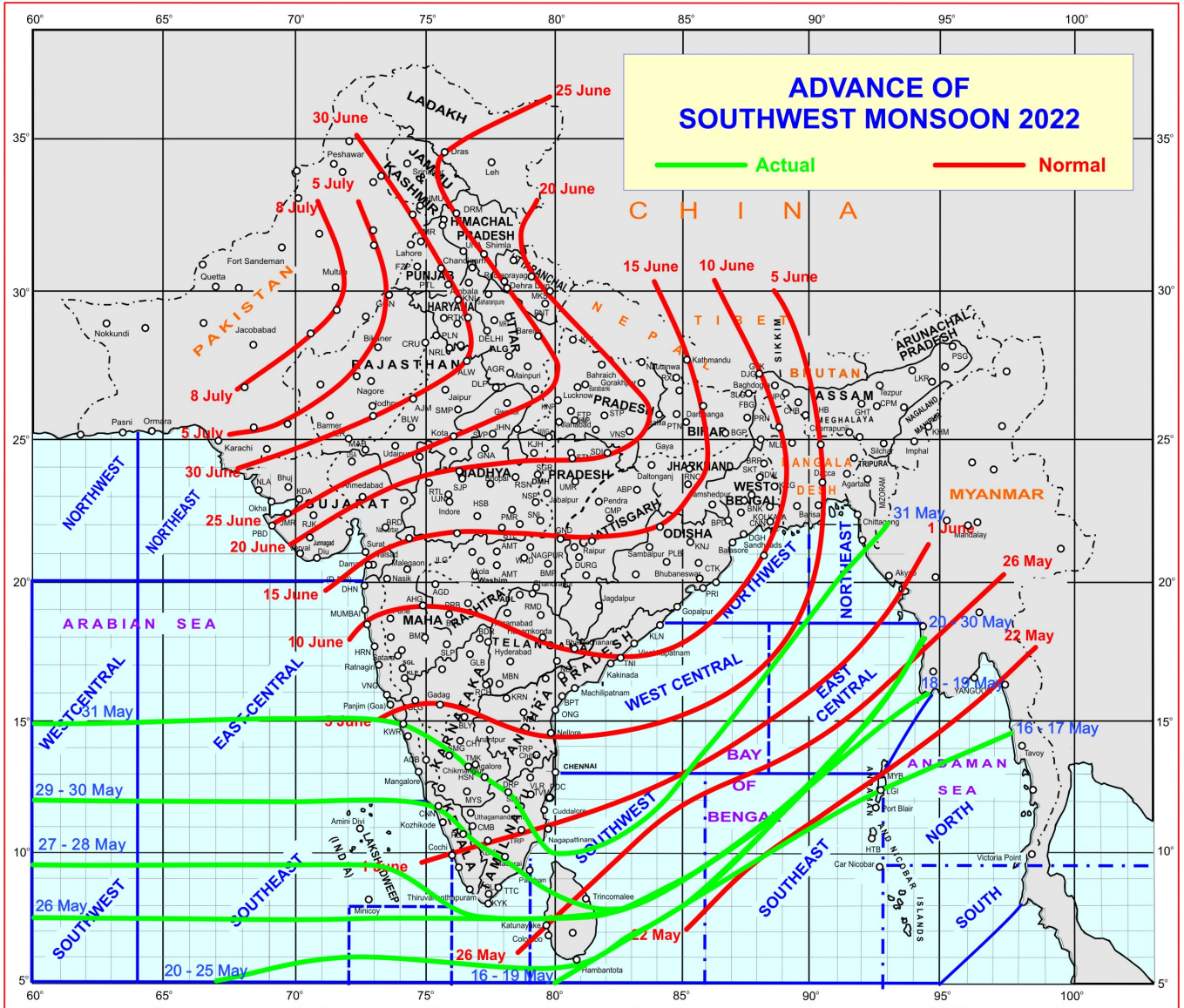
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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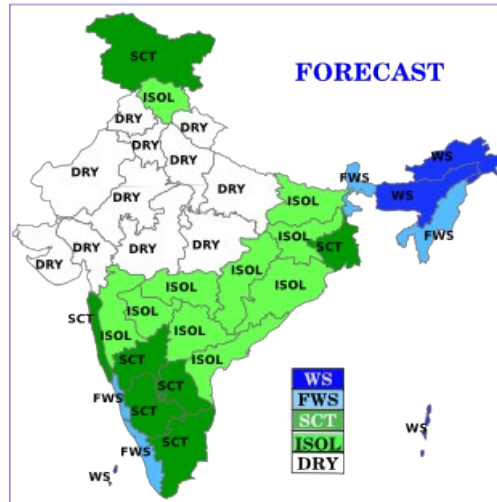
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Wednesday 01 June 2022



01 June (Day 1): ♦ Heavy rainfall at isolated places very likely over Andaman & Nicobar Islands, Arunachal Pradesh, Assam-Meghalaya, Sub-Himalayan West Bengal & Sikkim and Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph)** at isolated places very likely over south Konkan-Goa, Marathwada, Madhya Maharashtra and Telangana; **with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph)** at isolated places over Jammu & Kashmir Ladakh-Gilgit-Baltistan-Muzaffarabad, Jharkhand, Gangetic West Bengal, Andaman & Nicobar Islands, Rayalaseema and Coastal Andhra Pradesh-Yanam and **with lightning** at isolated places over Vidarbha, Chhattisgarh, Bihar, Sub-Himalayan West Bengal & Sikkim, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Karnataka, Tamilnadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

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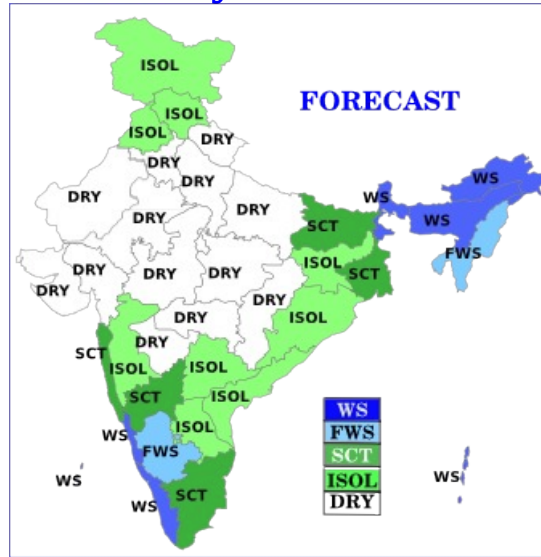
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(Copies to the Meteorologist (GPO))

Thursday 02 June 2022



02 June (Day 2): ♦ **Heavy to very heavy rainfall** at isolated places very likely over Assam-Meghalaya and Sub-Himalayan West Bengal & Sikkim and **heavy rainfall** at isolated places over Andaman & Nicobar Islands, Arunachal Pradesh, Mizoram & Tripura.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 30-40 kmph gusting to 60 kmph)** at isolated places very likely over Andaman & Nicobar Islands and Gangetic West Bengal and **with lightning** at isolated places over Bihar, Assam & Meghalaya, Nagaland, Manipur, Kerala & Mahe and Lakshadweep.

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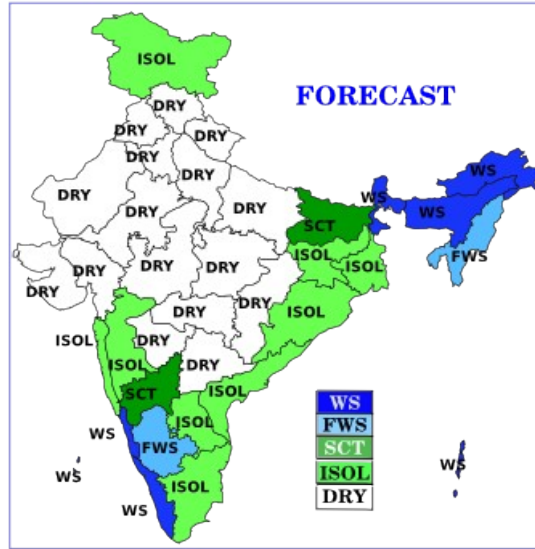
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Friday 03 June 2022



03 June (Day 3): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam-Meghalaya and **heavy rainfall** at isolated places over Andaman & Nicobar Islands and Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph)** at isolated places likely over Andaman & Nicobar Islands; **with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph)** at isolated places over Bihar and **with lightning** at isolated places over Kerala & Mahe and Lakshadweep.

♦ **Squally weather (wind speed 30-40 kmph gusting to 50 kmph)** likely over southeast Bay of Bengal and adjoining Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea, south west Bay of Bengal, gulf of Mannar and south Tamil Nadu. Fishermen are advised not to venture into these areas.

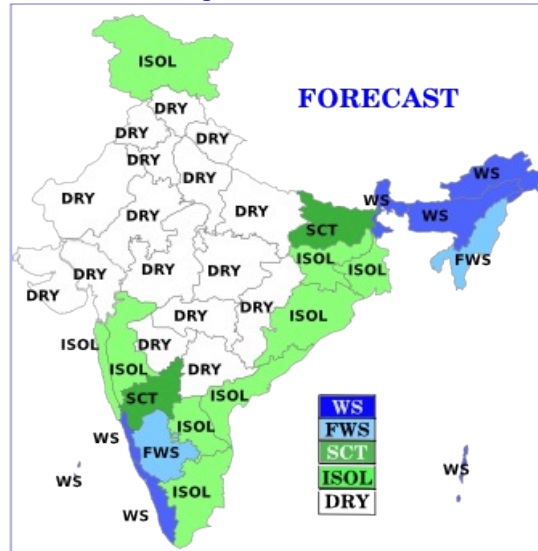
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Saturday 04 June 2022



04 June (Day 4): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam-Meghalaya and **heavy rainfall** at isolated places over Andaman & Nicobar Islands and Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph)** at isolated places likely over Andaman & Nicobar Islands; **with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph)** at isolated places over Bihar and **with lightning** at isolated places over Kerala & Mahe and Lakshadweep.

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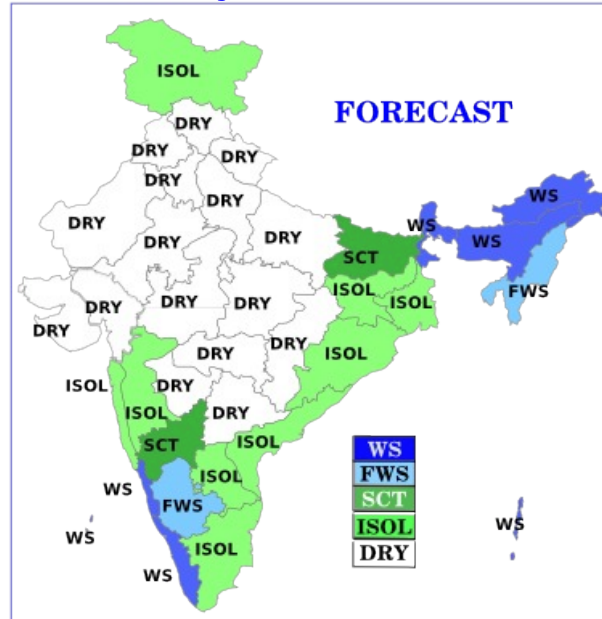
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Sunday 05 June 2022



05 June (Day 5): ♦ **Heavy to very heavy rainfall** at isolated places likely over Sub-Himalayan West Bengal & Sikkim and Assam-Meghalaya and **heavy rainfall** at isolated places over Andaman & Nicobar Islands and Arunachal Pradesh.

♦ **Thunderstorm accompanied with lightning/gusty winds (speed 40-50 kmph gusting to 60 kmph)** at isolated places likely over Andaman & Nicobar Islands; **with lightning/gusty winds (speed 30-40 kmph gusting to 50 kmph)** at isolated places over Bihar and **with lightning** at isolated places over Kerala & Mahe and Lakshadweep.

♦ **Squally weather (wind speed 30-40 kmph gusting to 50 kmph)** likely over southeast Bay of Bengal and adjoining Andaman Sea. **Strong winds** of 40-50 kmph gusting to 60 kmph likely over southwest Arabian Sea, southwest Bay of Bengal, gulf of Mannar and south Tamil Nadu. Fishermen are advised not to venture into these areas.

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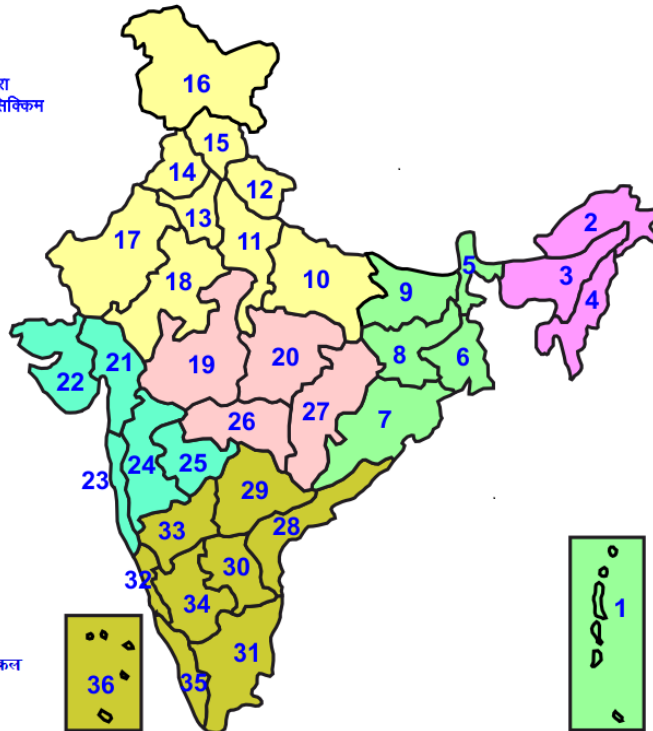
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(Created by the National class 1077)

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

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

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

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(Copies to the Media upto 1070)

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 Strom: Wind speed > 220 kmph (> 119 knots)

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