



Wednesday 12 July 2017

**MORNING**

**Time of Issue: 0800 hrs IST**

**ALL INDIA WEATHER SUMMARY AND FORECAST BULLETIN**

**Significant Weather Features**

- ◆ **The Northern Limit of Monsoon (NLM)** continues to pass through Lat. 26.0°N / Long. 70.0°E, Barmer, Sikar, Sonipat, Shimla, Una, Jammu and Lat.32.5°N / Long. 74.5°E.
- ◆ **Favourable conditions** developing for further advance of southwest monsoon into remaining parts of Jammu division and Himachal Pradesh; some more parts of Haryana and some parts of Punjab during next 48 hours.

**Main Weather Observations**

- ◆ **Rainfall occurred (From 0830 hours IST to 1730 hours IST of yesterday):** Rain Occurred at  
**Most places** over East Uttar Pradesh, Bihar, Nagaland, Manipur, Mizoram & Tripura and Gangetic West Bengal;  
**Many places** over Odisha, Konkan & Goa, East Madhya Pradesh and Sub-Himalaya West Bengal & Sikkim;  
**a Few places** over Jammu & Kashmir, West Uttar Pradesh, Himachal Pradesh, Gujarat, Madhya Maharashtra, Coastal Andhra Pradesh, Coastal Karnataka and Kerala;  
**Isolated places** over Haryana, Chandigarh & Delhi, Uttarakhand, Jharkhand, Chhattisgarh, Vidarbha, Telangana, Interior Karnataka and Rayalaseema, Assam & Meghalaya, Lakshadweep, Tamilnadu & Puducherry and Andaman & Nicobar Islands.  
**The amount of rainfall recorded at 1730 hours IST of yesterday (2 cm or more)** are: Canning and Digha-5 each; Lodi Road (New Delhi)-4; Solan, Karwar, Jamsedpur, Vishakhapatnam and Aminidevi-3 each; Kothagudem, Shahjahanpur, New Delhi (SFD) and Aya Nagar (New Delhi)-2 each.
- ◆ **Maximum temperature departures as on 11.07.2017:** Maximum temperatures were **appreciably above normal (3.0°C to 5.0°C)** at a few places over west Madhya Pradesh; at isolated places over Vidarbha and Tamilnadu & Puducherry; **above normal (1.6°C to 3.0°C)** at a few places over Konkan & Goa, Kerala and South Interior Karnataka; at isolated places over Andaman & Nicobar Islands, East Rajasthan, Saurashtra & Kutch and Marathawada. They were **markedly below normal (-5.0°C or less)** at isolated places over East Uttar Pradesh and East Madhya Pradesh; **appreciably below normal (-3.0°C to -5.0°C)** at most places over Bihar; at a few places over rest East Uttar Pradesh, Chhattisgarh and Assam & Meghalaya; at isolated places over Himachal Pradesh; **below normal (-1.6°C to -3.0°C)** at most places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Nagaland, Manipur, Mizoram & Tripura; at many places over Punjab, West Uttar Pradesh, Jharkhand and Arunachal Pradesh; at a few places over Jammu & Kashmir; at isolated places over Gangetic West Bengal and Odisha and near normal over rest parts of the country. The **highest maximum** temperature 40.5°C observed at **Ganganagar (West Rajasthan)**.
- ◆ **Minimum temperature departures as on 11-07-2017:** Minimum temperatures were **above normal (1.6°C to 3.0°C)** at many places over East Rajasthan; at a few places over Jammu & Kashmir, Himachal Pradesh, Rayalaseema & Tamilnadu; at isolated places over West Rajasthan, West Madhya Pradesh Gujarat state & Konkan & Goa. They were **markedly below normal (-5.1°C or less)** at isolated places over East Madhya Pradesh; **appreciably below normal (-3.1°C to -5.0°C)** at isolated places over Assam & Meghalaya; **below normal (-1.6°C to -3.0°C)** at many places over East Uttar Pradesh; at isolated places over Arunachal Pradesh & Coastal Karnataka and near normal over rest parts of the country.



**Meteorological Analysis (Based on 0530 hours IST)**

- ◆ **The Northern Limit of Monsoon (NLM)** continues to pass through Lat. 26.0°N / Long. 70.0°E, Barmer, Sikar, Sonipat, Shimla, Una, Jammu and Lat.32.5°N / Long. 74.5°E.
- ◆ **Favourable conditions** are developing for further advance of southwest monsoon into remaining parts of Jammu division and Himachal Pradesh; some more parts of Haryana and some parts of Punjab during next 48 hours.
- ◆ The low pressure area over East Uttar Pradesh & neighbourhood persists and the associated upper air cyclonic circulation extending upto 5.8 Km above mean sea level also persists. It is likely to become well marked low pressure area during next 48 hours.
- ◆ The trough at mean sea level from Punjab to northwest Bay of Bengal across centre of low pressure area over East Uttar Pradesh, Jharkhand and Gangetic West Bengal persists.
- ◆ The upper air cyclonic circulation over West Rajasthan & neighbourhood extending between 3.6 km and 5.8 km above mean sea level persists.
- ◆ The upper air cyclonic circulation over Kutch & neighbourhood extending between 2.1 km and 3.1 km above mean sea level persists.
- ◆ The off-shore trough at mean sea level from south Maharashtra coast to north Kerala coast persists.

**Weather Forecast for next 5 days \* upto 0830 hours IST of 17th July 2017**

- ◆ Meteorological sub-division wise detailed 5 days rainfall forecast is given in Table.
- ◆ No significant change in maximum temperatures over plains of northwest India during next 48 hours and fall by 2-3°C thereafter.
- ◆ No significant change in maximum temperatures over rest parts of the country during next 2-3 days.

**Weather Outlook for subsequent 2 days from 17th July to 19th July 2017**

- ◆ Rain very likely at most places over central & east India and along west coast.
- ◆ Rain very likely at isolated to few places over rest parts of the country.



Weather Warning during next 5 days \*

**12 JULY (Day 1): ♦** Heavy to very heavy rain very likely at isolated places over East Madhya Pradesh and Assam & Meghalaya; **heavy rain** very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

**13 JULY (Day 2): ♦** Heavy to very heavy rain very likely at isolated places over Madhya Pradesh; **heavy rain** very likely at isolated places over West Uttar Pradesh, East Rajasthan, Odisha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Coastal Karnataka and Konkan & Goa.

**14 JULY (Day 3): ♦** Heavy to very heavy rain with extremely heavy falls very likely at isolated places over Konkan & Goa and Gujarat region; **heavy rain at a few places with very heavy rain** very likely at isolated places over West Madhya Pradesh; **heavy to very heavy rain** very likely at isolated places over Saurashtra & Kutch, Madhya Maharashtra, East Rajasthan and **heavy rain** very likely at isolated places over southwest Rajasthan, East Madhya Pradesh, Odisha, Coastal Andhra Pradesh and Coastal Karnataka.

**15 July (Day 4): ♦** Heavy to very heavy rain at a few places with extremely heavy falls at isolated places over Gujarat state ; heavy to very heavy rain with extremely heavy falls at isolated places over Konkan & Goa; **heavy to very heavy rain** very likely at isolated places over Madhya Maharashtra & West Madhya Pradesh and **heavy rain** very likely at isolated places over southwest Rajasthan, Odisha, Coastal Andhra Pradesh and Coastal Karnataka.

**16 July (Day 5): ♦** Heavy to very heavy rain very likely at isolated places over Gujarat state and **heavy rain** very likely at isolated places over Konkan & Goa and Coastal Karnataka.



Table-1

**5 Day Rainfall Forecast (MORNING)**

12-July-2017

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

% Station Reporting Rainfall

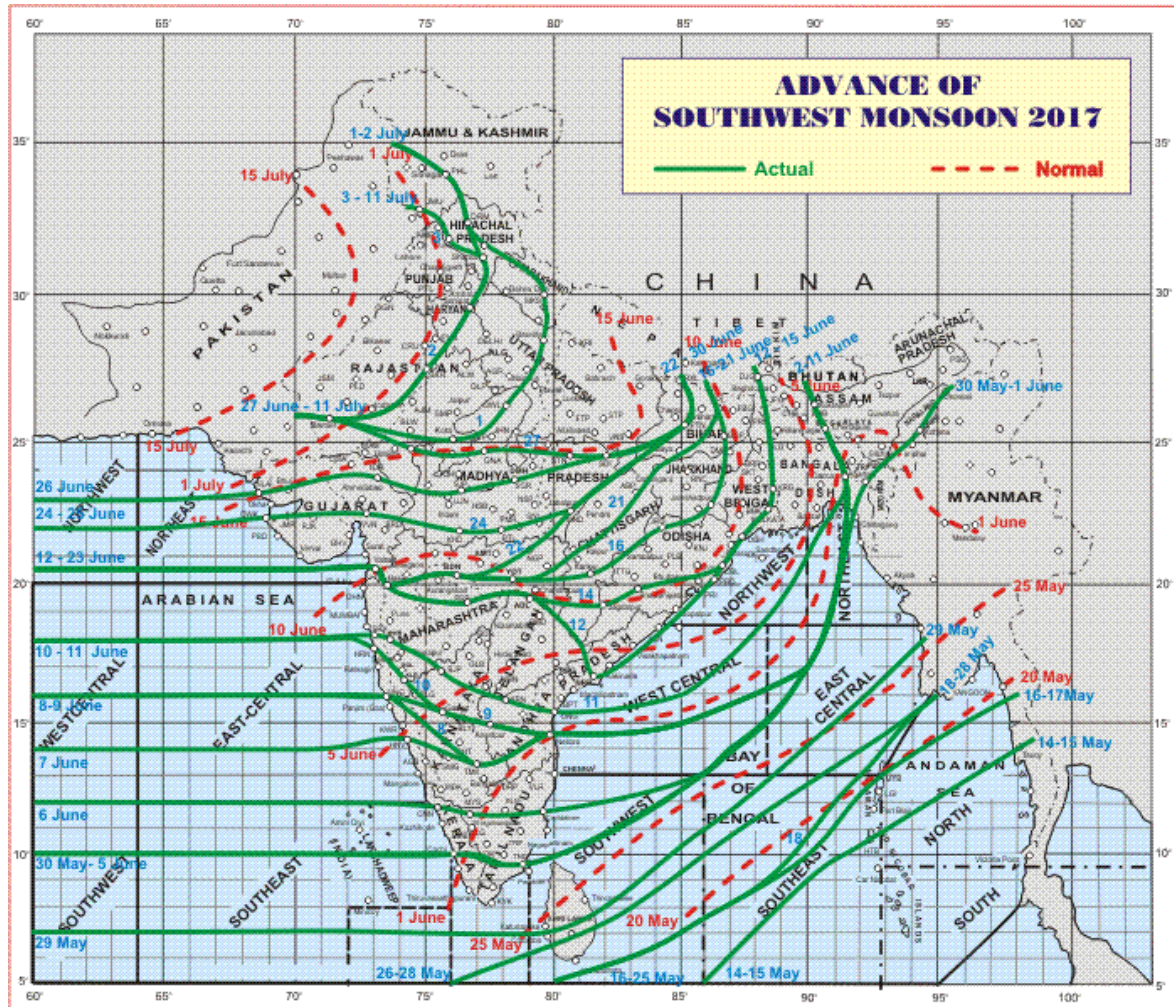
% Stations	Category	% Stations	Category
76-100	Widespread (WS/Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)
No Rain	Dry		

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

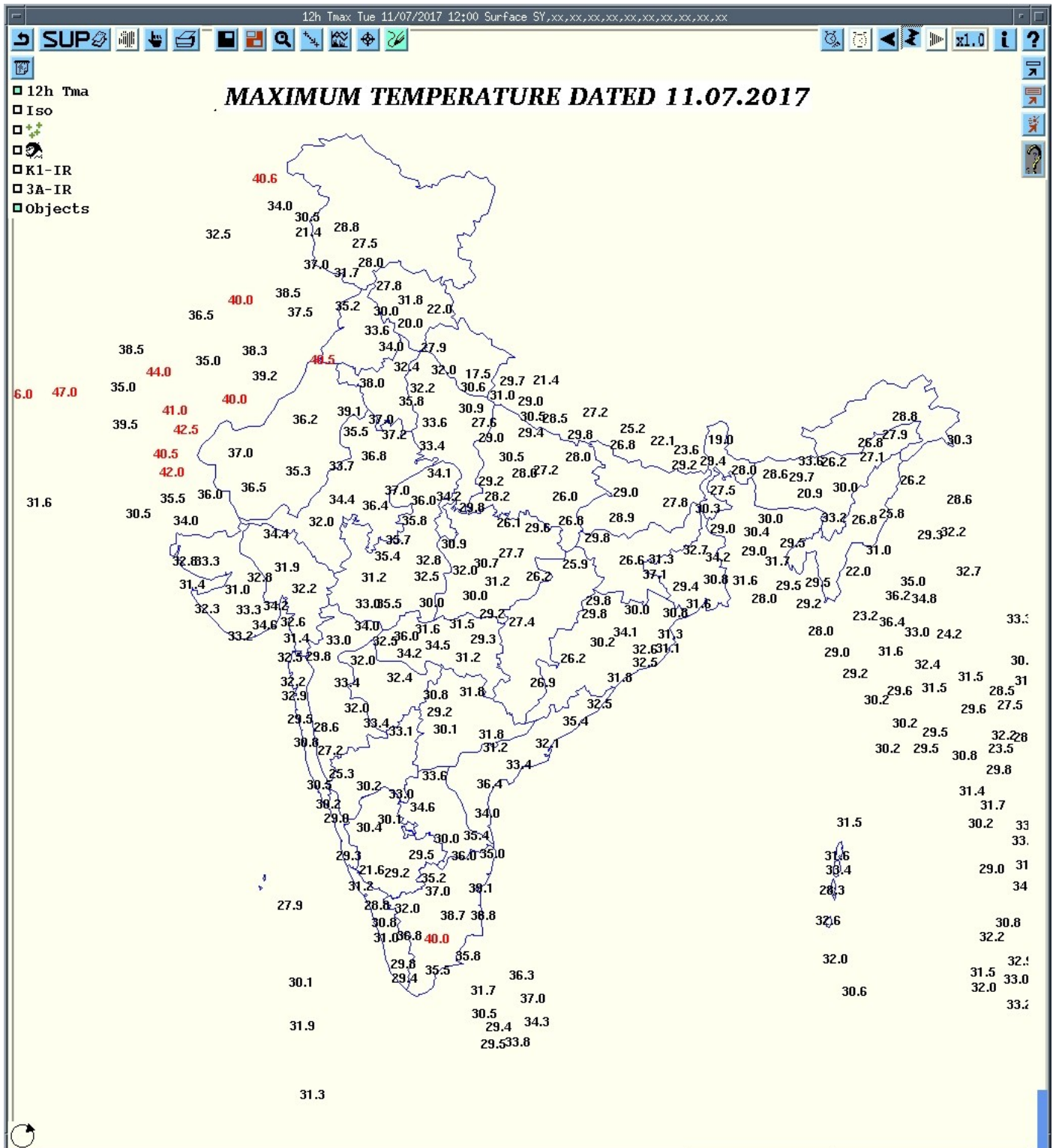
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**Fig. 1: Maximum Temperature during past 24 hours**



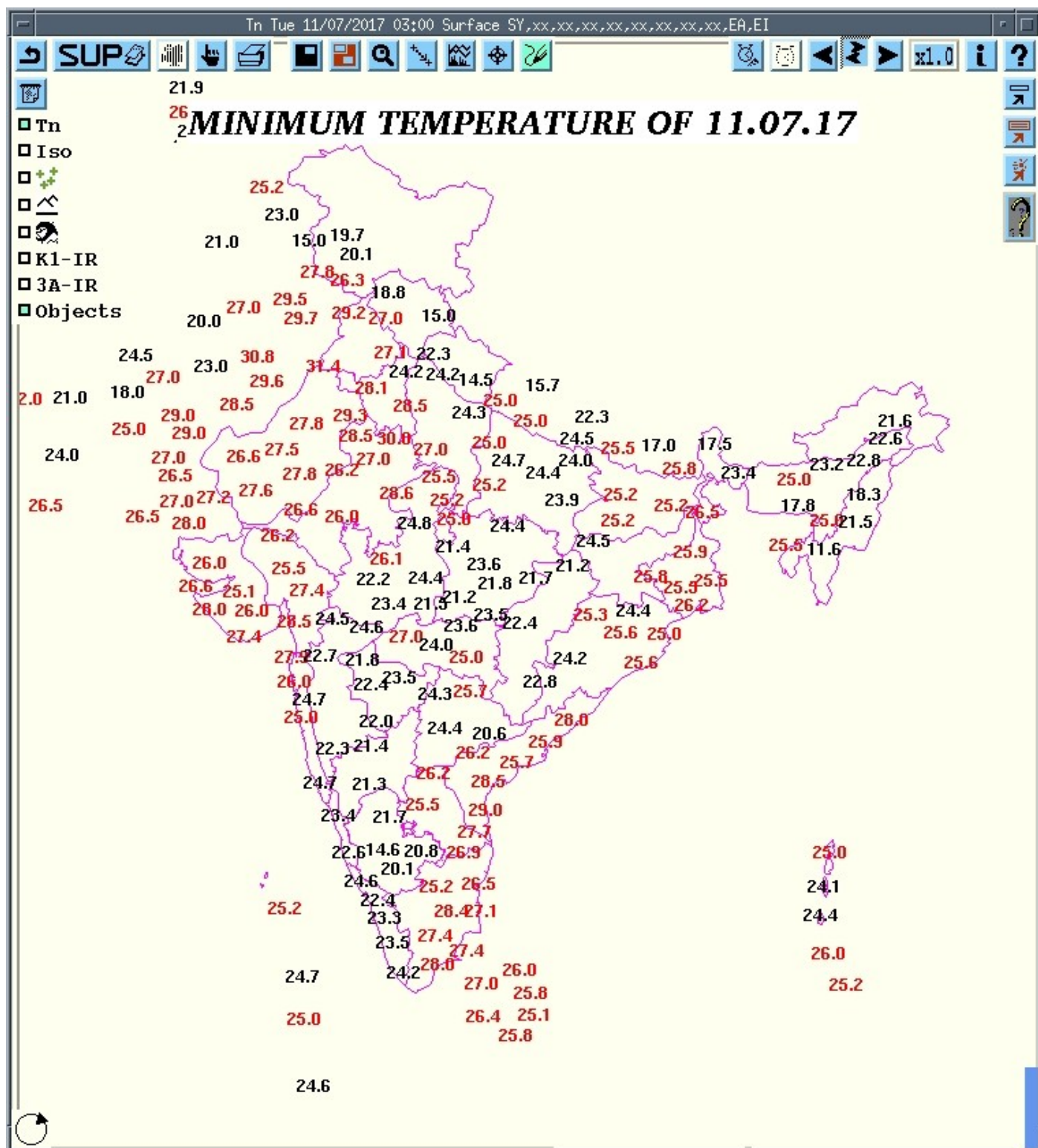
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**Fig. 2: Minimum Temperature during past 24 hours**



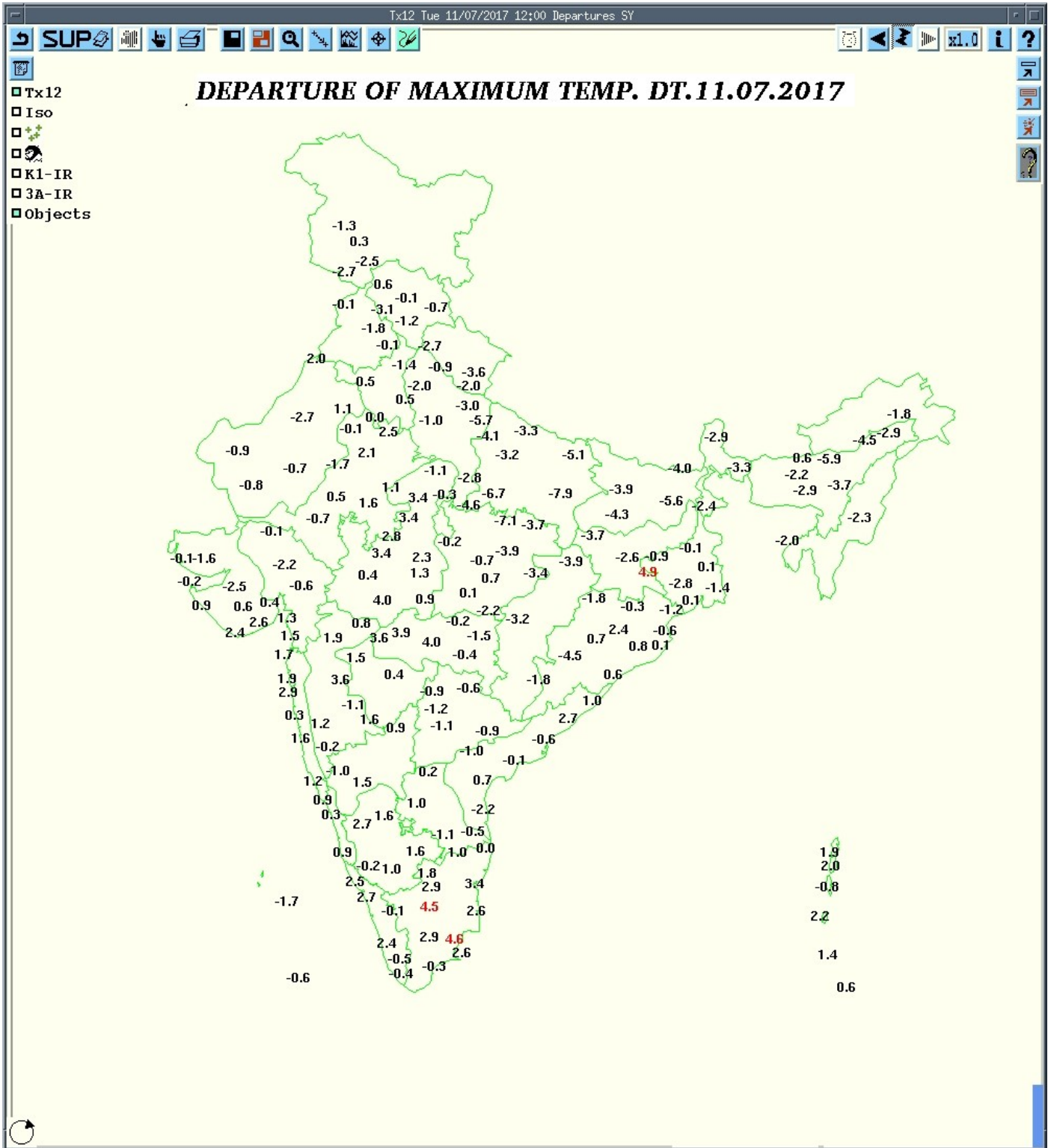
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Fig. 3 : Departure from Normal of Maximum Temperatures



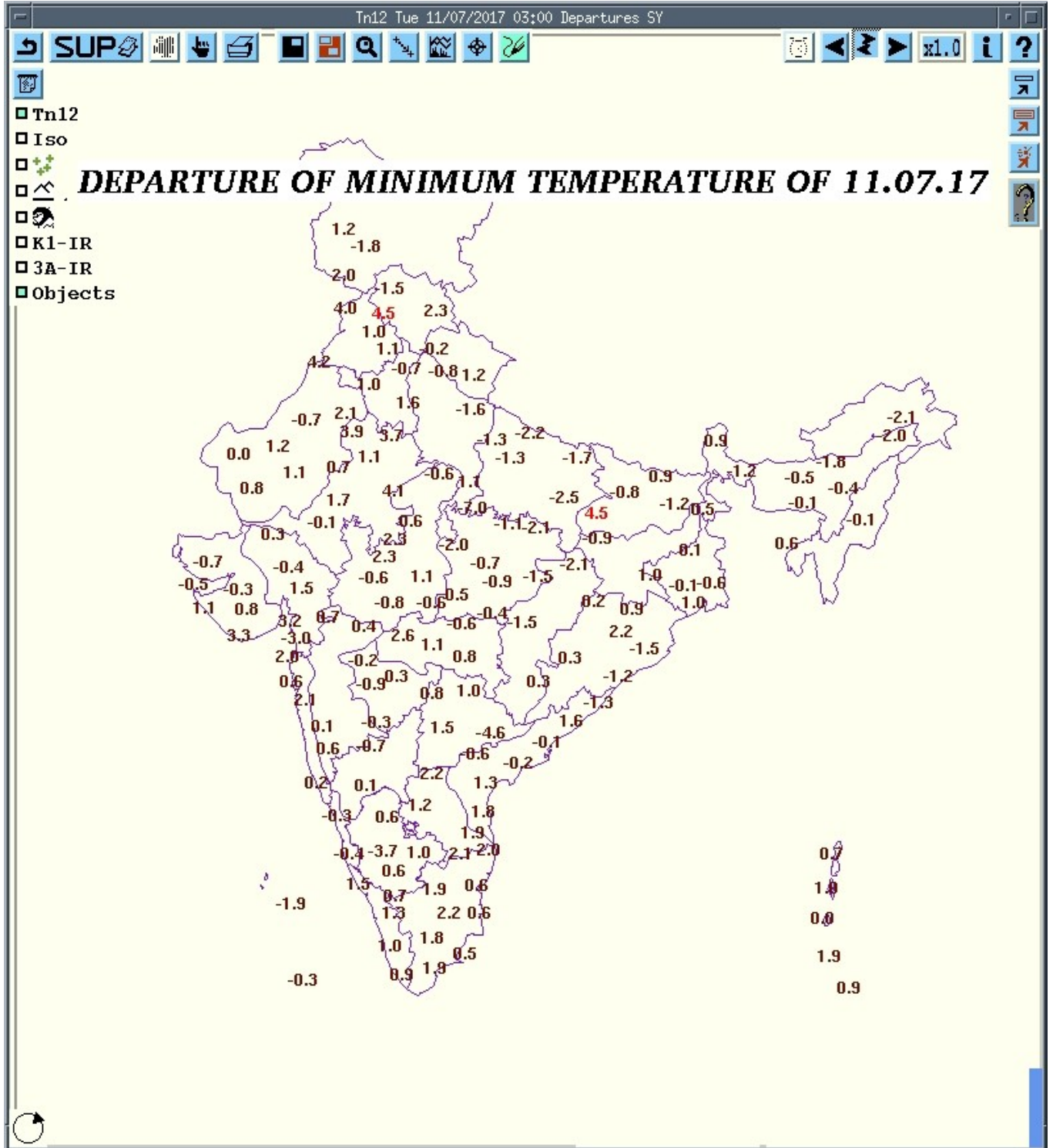
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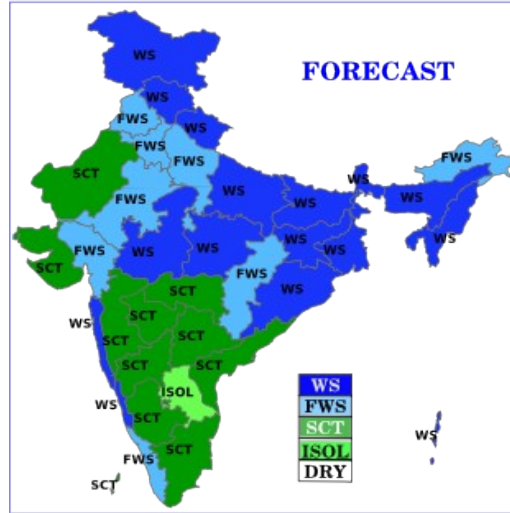
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Fig. 4 : Departure from Normal of Minimum Temperatures



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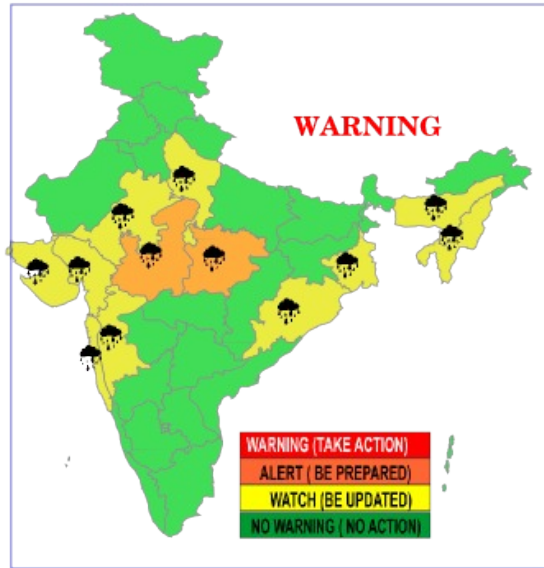
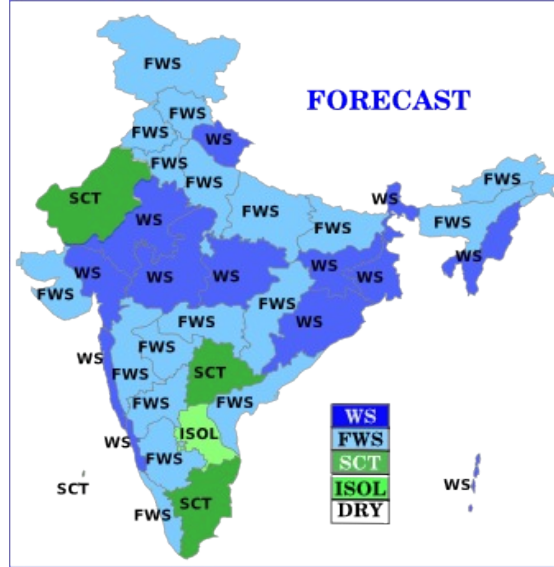
**12 JULY (Day 1): ♦** Heavy to very heavy rain very likely at isolated places over East Madhya Pradesh and Assam & Meghalaya; heavy rain very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Nagaland, Manipur, Mizoram & Tripura and Konkan & Goa.

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**Thursday 13 July 2017**



**13 JULY (Day 2):♦ Heavy to very heavy rain** very likely at isolated places over Madhya Pradesh; **heavy rain** very likely at isolated places over West Uttar Pradesh, East Rajasthan, Odisha, Gangetic West Bengal, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, Madhya Maharashtra, Coastal Karnataka and Konkan & Goa.

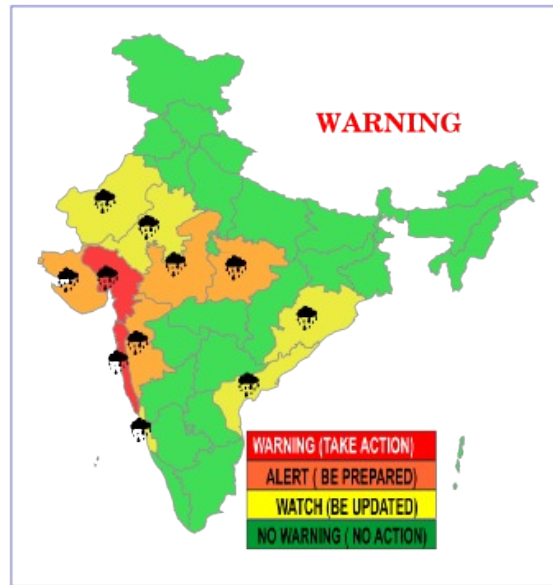
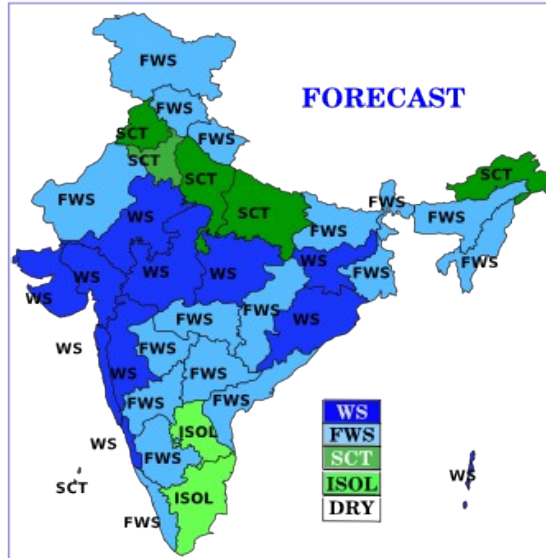
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**Friday 14 July 2017**



**14 JULY (Day 3): ♦ Heavy to very heavy rain** with extremely heavy falls very likely at isolated places over Konkan & Goa and Gujarat region; **heavy rain at a few places with very heavy rain** very likely at isolated places over West Madhya Pradesh; **heavy to very heavy rain** very likely at isolated places over Saurashtra & Kutch, Madhya Maharashtra, East Rajasthan and **heavy rain** very likely at isolated places over southwest Rajasthan, East Madhya Pradesh, Odisha, Coastal Andhra Pradesh and Coastal Karnataka.

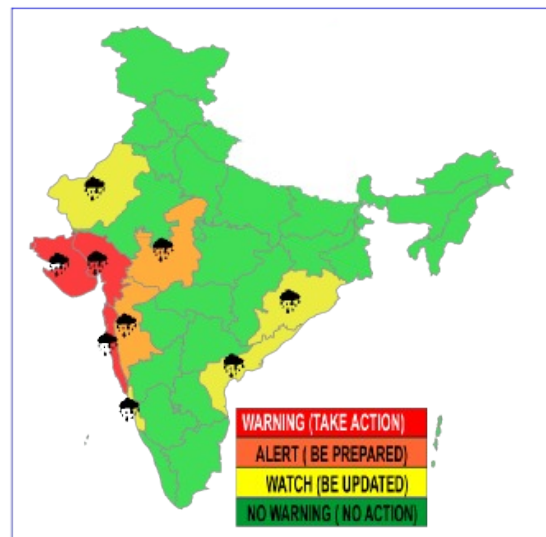
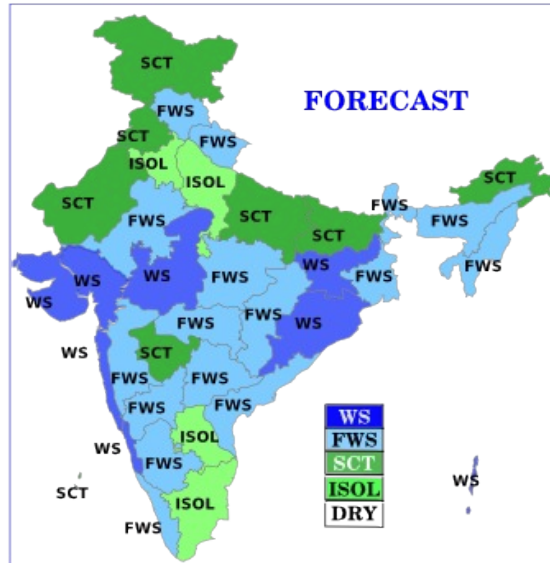
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**Saturday 15 July 2017**



**15 July (Day 4): ♦ Heavy to very heavy rain at a few places with extremely heavy falls** at isolated places over Gujarat state ; heavy to very heavy rain with extremely heavy falls at isolated places over Konkan & Goa; **heavy to very heavy rain** very likely at isolated places over Madhya Maharashtra & West Madhya Pradesh and **heavy rain** very likely at isolated places over southwest Rajasthan, Odisha, Coastal Andhra Pradesh and Coastal Karnataka.

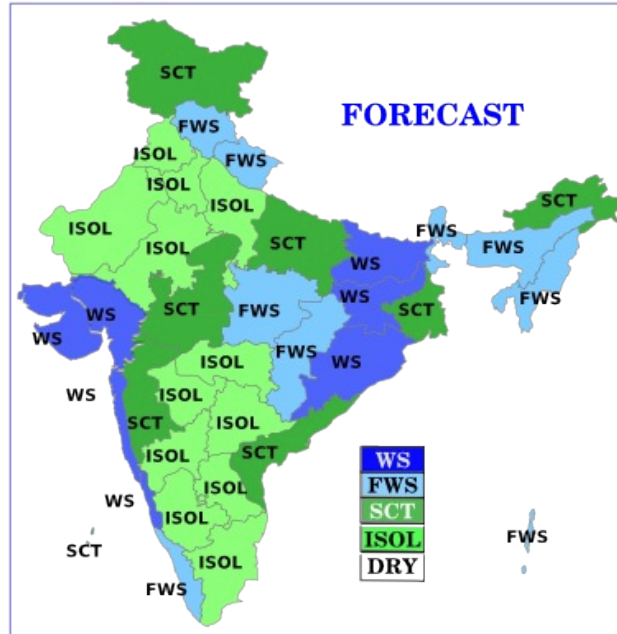
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**Sunday 16 July 2017**



**16 July (Day 5): ♦ Heavy to very heavy rain** very likely at isolated places over Gujarat state and **heavy rain** very likely at isolated places over Konkan & Goa and Coastal Karnataka.

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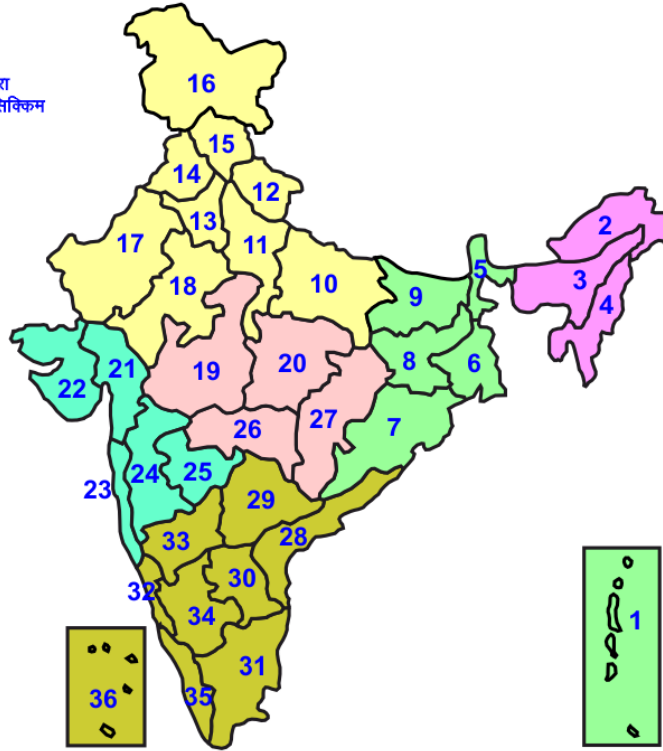
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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समुह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड मनीपुर मीजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल एवं सिक्किम
- 6 पश्चिम गंगेय बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा चंडीगढ़ एवं दिल्ली
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर
- 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 तटिय आंध्र प्रदेश
- 29 तेलंगाना
- 30 रायलसीमा
- 31 तमिलनाडु
- 32 तटिय कर्नाटक
- 33 आंतरिक उत्तरी कर्नाटक
- 34 आंतरिक दक्षिणी कर्नाटक
- 35 केरल
- 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
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
29. Telangana
30. Rayalaseema
31. Tamilnadu & Pondi
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala
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)
Dry (No station reported Rainfall)			

## WARNING

<b>WARNING (TAKE ACTION)</b>
<b>ALERT ( BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING ( NO ACTION)</b>

## 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

<b>WARNING (TAKE ACTION)</b>
<b>ALERT (BE PREPARED)</b>
<b>WATCH (BE UPDATED)</b>
<b>NO WARNING (NO ACTION)</b>

### 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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

Severe Heat Wave: Maximum Temperature Departure from normal  $\geq 6.5^{\circ}\text{C}$

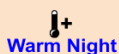
(b). Based on Actual maximum temperature

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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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)

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

For more details kindly visit [www.imd.gov.in](http://www.imd.gov.in) or contact : +91 11 24631913, +91 11 24629798

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