



**Government of India  
Earth System Science Organization  
Ministry of Earth Sciences  
India Meteorological Department**

**Dated: 11 April, 2019**

## **Summer Temperature & Heat Wave: Current Status and Outlook for next two weeks (11-24 April, 2019)**

### **Highlights of the past week (04 to 10 April, 2019)**

- Heat wave conditions at many places with severe heat wave conditions at isolated places have been reported over Rajasthan on one day. Heat wave conditions had been reported over most parts of East & West Rajasthan on one day each; over many parts of West Rajasthan on two to three days and of East Madhya Pradesh on one day during the week.
- Heat wave conditions have been reported at some parts of East and West Rajasthan on two to three days and over Gujarat State, Madhya Pradesh and Chhattisgarh on one day each during the week.
- Heat wave conditions at isolated places have been reported over East Uttar Pradesh, Chhattisgarh, East Rajasthan, Madhya Pradesh, Vidarbha, Himachal Pradesh and Haryana, Chandigarh & Delhi on one or two days during the week.
- The highest maximum temperature of 45.0°C had been recorded at Khargone (West Madhya Pradesh) on 4th April 2019 over the plains of the country during the week (**Annexure I**).

### **Chief synoptic conditions as on 11 April, 2019**

- A Western Disturbance as a cyclonic circulation lies over Jammu & Kashmir and neighbourhood at 3.1 km above mean sea level.
  - The other Western Disturbance as a cyclonic circulation lies over eastern parts of Iran and adjoining Afghanistan at 3.1 km above mean sea level.
  - An east-west trough runs from West Rajasthan to Interior Odisha at lower levels with the embedded cyclonic circulation over central parts of Madhya Pradesh.
  - A cyclonic circulation lies over Sub- Himalayan West Bengal and adjoining Bihar at lower levels.
  - A north-south trough/ wind discontinuity runs from South Interior Karnataka to Comorin area at lower levels.
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### Large scale features as on 11 April, 2019

- Currently, weak El Niño conditions have developed over equatorial Pacific Ocean and the latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates that these conditions are likely to persist in early part of the summer season and likely to weaken thereafter.
- At present, neutral Indian Ocean Dipole (IOD) conditions are observed over Indian Ocean and the latest MMCFS forecast indicates neutral IOD conditions are likely to continue for coming forecasted seasons.
- The Madden–Julian Oscillation (MJO) at present lies over Indian Ocean (Phase -2) with very weak amplitude. It is very likely to continue to be in same phase with amplitude near 1 towards end of the next one week.

### Maximum Temperature for week 1 & 2: (11-24 April, 2019)

- Above normal (by 2-3°C) day maximum temperatures are likely over most parts of Western Himalayan Region, Uttar Pradesh, Bihar, East Assam, Arunachal Pradesh and east coast of India; and below normal or near normal likely over rest parts of the country during week 1.
- **The prevailing heat wave conditions over some pockets of Rajasthan very likely to abate by tomorrow and the prevailing heat wave conditions over isolated pockets of Madhya Pradesh likely occur on tomorrow and abate thereafter.**
- Near Normal or below normal day maximum temperatures are likely over most parts of the country except Jammu & Kashmir, Odisha, south Chhattisgarh, north coastal Andhra Pradesh, Tamilnadu, West coast of India during week 2 (**Annexure V**).
- **Development of heat wave conditions is less likely over any parts of the country during week-2 (Annexure II).**

**Next weekly update will be issued on next Thursday i.e. 18 April, 2019**

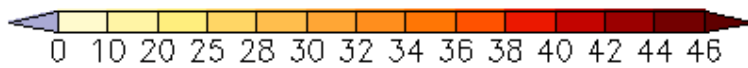
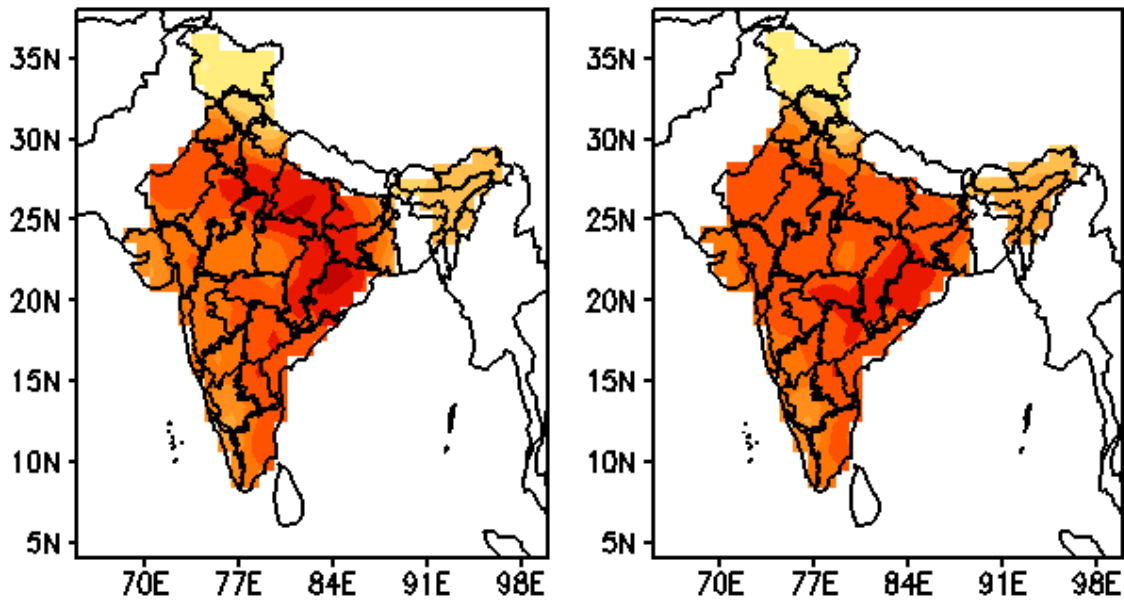
## Annexure I

METEOROLOGICAL SUB-DIVISIONWISE DEPARTURE OF REALISED MAXIMUM TEMPERATURE - 2019								
Sr.No	MET.SUB-DIVISIONS	04 APR	05 APR	06 APR	07 APR	08 APR	09 APR	10 APR
1	ANDAMAN & NICO.ISLANDS	BN	N	N	N	BN	N	N
2	ARUNACHAL PRADESH	N	N	N	N	N	N	N
3	ASSAM & MEGHALAYA	ABN	N	N	N	N	N	N
4	NAGA.MANI.MIZO.& TRIPURA	N	N	N	ABN	N	N	BN
5	SUB-HIM.W. BENG. & SIKKIM	ABN	N	N	ABN	ABN	N	N
6	GANGETIC WEST BENGAL	BN	N	N	N	ABN	N	ABN
7	ODISHA	N	N	N	N	N	N	N
8	JHARKHAND	AN	N	N	N	N	AN	N
9	BIHAR	N	N	N	MBN	MBN	N	ABN
10	EAST UTTAR PRADESH	N	N	N	N	N	N	N
11	WEST UTTAR PRADESH	N	N	N	N	N	N	AN
12	UTTARAKHAND	AAN	AN	N	N	N	N	N
13	HARYANA CHD. & DELHI	AAN	AAN	N	N	AN	N	AAN
14	PUNJAB	AAN	AAN	AAN	N	N	AN	MAN
15	HIMACHAL PRADESH	MAN	MAN	N	AAN	N	AAN	N
16	JAMMU & KASHMIR	MAN	MAN	MAN	MAN	AAN	MAN	MAN
17	WEST RAJASTHAN	MAN	MAN	MAN	MAN	AAN	MAN	AAN
18	EAST RAJASTHAN	MAN	MAN	N	N	AAN	AAN	AAN
19	WEST MADHYA PRADESH	AAN	N	N	AAN	N	AAN	AAN
20	EAST MADHYA PRADESH	AAN	N	N	N	AN	AAN	AAN
21	GUJARAT REGION D.D. & N.H.	N	N	N	N	N	N	AN
22	SAURASTRA KUTCH & DIU	N	AN	N	N	N	N	AN
23	KONKAN & GOA	N	N	N	N	N	N	N
24	MADHYA MAHARASHTRA	N	N	N	N	N	N	N
25	MARATHAWADA	N	N	AN	N	AN	AAN	N
26	VIDARBHA	AAN	N	N	N	N	AAN	AAN
27	CHHATTISGARH	N	N	N	N	N	N	N
28	COASTAL ANDHRA PRADESH	N	N	N	N	N	N	N
29	TELANGANA	N	N	N	N	N	N	N
30	RAYALASEEMA	N	AN	AN	N	AN	N	AN
31	TAMILNADU & PUDUCHERRY	N	AN	AN	N	AN	N	AN
32	COASTAL KARNATAKA	N	N	AN	N	AN	N	AN
33	NORTH INT.KARNATAKA	N	N	N	N	AN	N	AN
34	SOUTH INT.KARNATAKA	N	N	N	N	AN	N	AN
35	KERALA	AN	N	N	AN	AN	N	AN
36	LAKSHADWEEP	N	N	N	N	AN	N	N
<b>Highest Maximum Temperature (°C)</b>		<b>45.0</b>	<b>43.8</b>	<b>43.6</b>	<b>44.0</b>	<b>44.5</b>	<b>44.1</b>	<b>44.2</b>
<b>Station(s) observed HMT</b>		Khargoun	Churu	Khargoun	Khargoun	Khargoun	Nagpur	Brahmapuri
<b>Station(s) lies in Met-Subdivision(s)</b>		West M.P.	West Raj.	West M.P.	West M.P.	West M.P.	Vidarbha	Vidarbha
<b>LEGENDS:</b>								
<b>N</b>	<b>NORMAL (N+1,N-1)°C</b>	<b>BN</b>	<b>BELOW NORMAL (N-2)°C</b>		<b>ABN</b>	<b>APRECIABLY BELOW NORMAL (N-3, -4)°C</b>		
<b>AN</b>	<b>ABOVE NORMAL (N+2)°C</b>	<b>MBN</b>	<b>MARKEDLY BELOW NORMAL (N-5 &amp; BELOW ) °C</b>					
<b>AAN</b>	<b>APRECIABLY ABOVE NORMAL (N+3,+4)°C</b>			<b>MAN</b>	<b>MARKEDLY ABOVE NORMAL (N+5 &amp; ABOVE ) °C</b>			

**MME Bias Corrected  $T_{max}$  forecast ( $^{\circ}C$ )**

(Week1: 12Apr-18Apr)

(Week2: 19Apr-25Apr)



**MME Bias Corrected  $T_{max}$  Anomaly ( $^{\circ}C$ )**

(Week1: 12Apr-18Apr)

(Week2: 19Apr-25Apr)

