



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

**Dated: 12 April, 2018**

## **Summer Temperature & Heat Wave: Current Status and Outlook for next two weeks**

### **Highlights of the past week**

#### **Heat wave**

Heat wave conditions were observed at one or two pockets of West Madhya Pradesh and West Rajasthan on one day each during the week (**Annexure I**).

Warm night conditions were observed at one or two pockets of West Madhya Pradesh on one day during the week.

#### **Maximum Temperature**

Maximum temperature above 40°C was reported at many places over West Rajasthan, Madhya Pradesh, Vidarbha, Marathwada on many days and over Saurashtra & Kutch one day; at isolated places over Madhya Maharashtra, Chhattisgarh, Telangana and Gujarat region one to two days during the week.

The highest maximum temperature of 43.2° C was recorded at Chandrapur (Vidarbha) on 5th March 2018 in the plains of the country during the week.

### **Chief synoptic conditions as on 12 April, 2018**

- A trough in westerlies with its axis at 5.8 km above mean sea level seen roughly along Long. 75° E to the north of Lat. 30°N.
  - A fresh Western Disturbance is likely to affect Western Himalayan region from 15<sup>th</sup> April.
  - A cyclonic circulation extending upto 0.9 km above mean sea level lies over southwest Uttar Pradesh & neighbourhood.
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- A cyclonic circulation at 0.9 km above mean sea level lies over eastern parts of Bangladesh & neighbourhood.
- A trough runs from east Bihar to Gangetic West Bengal at lower levels.
- Another cyclonic circulation lies over southeast Rajasthan and adjoining West Madhya Pradesh & Gujarat region at lower levels.
- A trough at 1.5 km above mean sea level runs from northwest Rajasthan to southwest Madhya Pradesh.
- Another trough in easterlies at 0.9 km above mean sea level runs from south Tamilnadu to North Interior Karnataka across South Interior Karnataka.

### Large scale features as on 12 April, 2018

- La-Nina conditions are prevailing over the equatorial Pacific Ocean at present and latest MMCFS model forecasts indicate its persistence during the forecast period.
- Madden Julian Oscillation (MJO) is in phase 1 with amplitude greater than 1 and likely to move in phase 2 with amplitude greater than 1 during next one week.
- Indian Ocean Dipole (IOD) is in neutral phase (+0.2°C) and likely to continue in same phase during next one week.

### Maximum temperature and Heat Wave Temperature outlook for week 1(12 to 18 April 2018) & Week 2(19 to 25 April 2018)

- Maximum temperatures are below normal over most parts of the country and the present synoptic conditions indicates rise in maximum temperatures over Northwest, Central and West India by 2-4°C during next one week, **however, Heat wave conditions would not occur over any part of the country during next 1<sup>st</sup> week.**
- **Overall, maximum temperatures are very likely to be near normal during the 1<sup>st</sup> week (Annexure II).**
- **During 2<sup>nd</sup> week, maximum temperatures are likely to be above 40°C over most parts of plains of northwest India, Central, East & north Peninsular India. However, heat wave is less likely to occur over any parts of the country during week 2 (Annexure II).**

**Next weekly update will be issued on next Thursday i.e. 19 April, 2018**

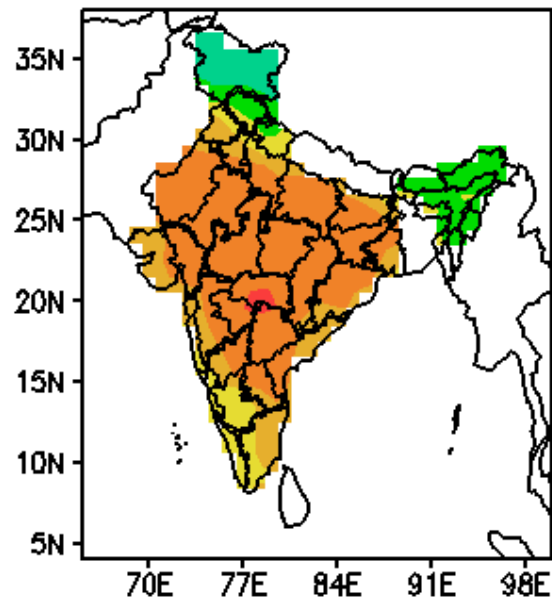
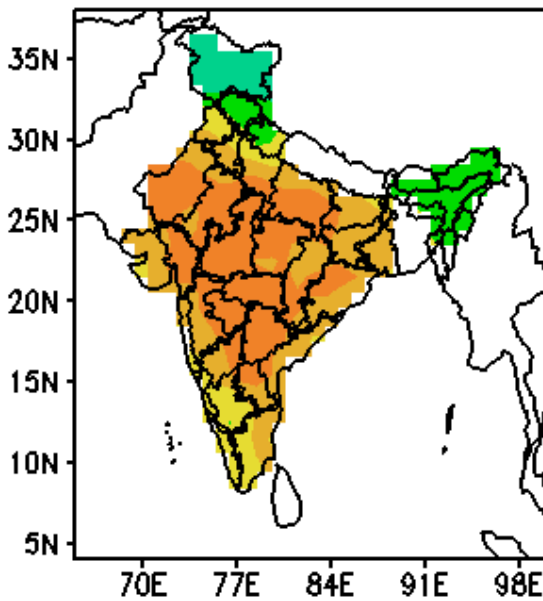
## Annexure I

METEOROLOGICAL SUB-DIVISIONWISE DISTRIBUTION OF REALISED MAXIMUM TEMPERATURE - 2018								
Sr.No	MET.SUB-DIVISIONS	05 APR	06 APR	07 APR	08 APR	09 APR	10 APR	11 APR
1	ANDAMAN & NICO.ISLANDS	N	N	N	N	N	N	N
2	ARUNACHAL PRADESH	AN	N	N	N	AN	N	N
3	ASSAM & MEGHALAYA	AN	N	N	N	N	N	N
4	NAGA.MANI.MIZO.& TRIPURA	N	N	N	AN	N	N	N
5	SUB-HIM.W. BENG. & SIKKIM	N	N	N	N	N	BN	N
6	GANGETIC WEST BENGAL	N	N	N	ABN	N	ABN	N
7	ODISHA	N	N	N	N	N	N	N
8	JHARKHAND	N	N	N	BN	BN	N	N
9	BIHAR	MBN	MBN	ABN	ABN	ABN	N	N
10	EAST UTTAR PRADESH	N	N	ABN	ABN	BN	BN	N
11	WEST UTTAR PRADESH	AN	N	N	N	ABN	N	N
12	UTTARAKHAND	AAN	AAN	N	N	BN	N	N
13	HARYANA CHD. & DELHI	AAN	AN	N	AN	N	N	MBN
14	PUNJAB	AAN	AAN	N	N	N	N	N
15	HIMACHAL PRADESH	N	AAN	N	N	AN	N	MBN
16	JAMMU & KASHMIR	MAN	AAN	N	N	N	N	N
17	WEST RAJASTHAN	AAN	N	AAN	AAN	AAN <sup>+</sup>	N	N
18	EAST RAJASTHAN	AAN	N	N	AN	AN	N	N
19	WEST MADHYA PRADESH	AAN <sup>+</sup>	N	N	N	N	N	N
20	EAST MADHYA PRADESH	AAN	N	N	N	N	N	N
21	GUJARAT REGION D.D. & N.H.	N	N	N	N	N	N	N
22	SAURASTRA KUTCH & DIU	N	AN	N	N	N	N	N
23	KONKAN & GOA	N	N	N	N	AN	AN	AN
24	MADHYA MAHARASHTRA	AN	N	N	N	N	N	N
25	MARATHAWADA	AN	N	N	N	N	N	N
26	VIDARBHA	AN	N	N	N	N	N	N
27	CHHATTISGARH	AN	N	N	N	BN	N	BN
28	COASTAL ANDHRA PRADESH	N	N	N	N	N	N	N
29	TELANGANA	N	N	N	ABN	BN	N	BN
30	RAYALASEEMA	N	N	N	N	N	N	N
31	TAMILNADU & PUDUCHERRY	N	N	N	N	N	N	N
32	COASTAL KARNATAKA	AN	N	N	AAN	AN	AN	N
33	NORTH INT.KARNATAKA	N	N	N	BN	N	N	N
34	SOUTH INT.KARNATAKA	N	N	N	N	N	N	N
35	KERALA	N	N	N	N	N	AN	N
36	LAKSHADWEEP	N	N	N	N	N	N	N
LEGENDS:								
N	NORMAL (N+1,N-1) <sup>o</sup> C	BN	BELOW NORMAL (N-2) <sup>o</sup> C		ABN	APRECIABLY BELOW NORMAL (N-3.1 to -4.9) <sup>o</sup> C		
AN	ABOVE NORMAL (N+2) <sup>o</sup> C			MBN	MARKEDLY BELOW NORMAL (N-5 AND BELOW) <sup>o</sup> C			
AAN	APRECIABLY ABOVE NORMAL (N+3.1 to +4.9) <sup>o</sup> C			MAN	MARKEDLY ABOVE NORMAL (N+5 AND ABOVE) <sup>o</sup> C			
<sup>+</sup>	Heat wave conditions (Departure from Normal is (+4.5 <sup>o</sup> C to +6.4 <sup>o</sup> C)			<sup>++</sup>	Severe Heat wave conditions (Departure from Normal is (> +6.4 <sup>o</sup> C)			

### MME Bias Corrected Actual Tmax (Deg C)

(Week1: 13Apr-19Apr)

(Week2: 20Apr-26Apr)



### MME Bias Corrected Tmax Anomaly (Deg)

(Week1: 13Apr-19Apr)

(Week2: 20Apr-26Apr)

