



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

**Dated: 07 June, 2018**

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

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

- Heat wave conditions prevailed in some parts of West Rajasthan on many days and over East Rajasthan on one day during the week (**Annexure I**).
- The highest maximum temperature of 49.7°C was recorded at Ganganagar (West Rajasthan) on 1<sup>st</sup> June 2018 in the plains during the week.

### **Chief synoptic conditions as on 07 June, 2018**

- An East-west trough runs from northwest Rajasthan to Bihar across northeast Rajasthan, north Madhya Pradesh & southeast Uttar Pradesh with an embedded cyclonic circulation over northwest Madhya Pradesh & neighbourhood at lower levels.
  - A cyclonic circulation lies over East Uttar Pradesh & neighbourhood between 3.1 km & 4.5 km above mean sea level.
  - An off-shore trough at mean sea level runs from south Maharashtra coast to north Kerala coast.
  - An east-west shear zone runs roughly along Lat. 15°N across south Peninsular India between 3.1 & 7.6 km above mean sea level.
  - A cyclonic circulation lies over westcentral & adjoining northwest Bay of Bengal between 2.1 km & 4.5 km above mean sea level. Under its influence, a low Pressure area is very likely to develop over North Bay of Bengal during next 48 hours. It is likely to concentrate into a depression during the subsequent 48 hours and move north-northeastwards towards West Bengal-Bangladesh Coasts.
  - A cyclonic circulation lies over Assam & neighbourhood between 1.5 km & 3.1 km above mean sea level.
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### Large scale features as on 07 June, 2018

- Currently ENSO neutral conditions are present over the equatorial Pacific Ocean and the same is likely to continue during the forecast period.
- Madden Julian Oscillation (MJO) is in phase 6 with high amplitude (more than 1) and likely to be in same phase with decreasing amplitude for first half of the week and to move in phase 5 in second half of the week with negligible amplitude.
- Indian Ocean Dipole (IOD) is in neutral phase (-0.3°C). Numerical model guidance indicates that IOD conditions will continue to be in neutral phase during next two weeks.

### Forecast for next two week

#### Maximum temperature and Heat Wave Temperature outlook for week 1(07 to 13 June, 2018) & Week 2(14 to 20 June, 2018)

- The maximum temperatures are very likely to be above 40°C over plains of northwest India and Central India during the 1<sup>st</sup> week. These are likely to be near normal or below normal over most parts of the country. **Hence, no significant heat wave spell is expected over any part of the country during 1<sup>st</sup> week.**
- **During 2<sup>nd</sup> week, maximum temperatures are likely to rise over most parts of the country as compared to 1<sup>st</sup> week. However, they are likely to be normal or below normal over the most parts of the country. Hence, no significant heat wave spell is expected over any part of the country during week 2 also (Annexure II).**

**Next weekly update will be issued on next Thursday i.e. 14 June, 2018**

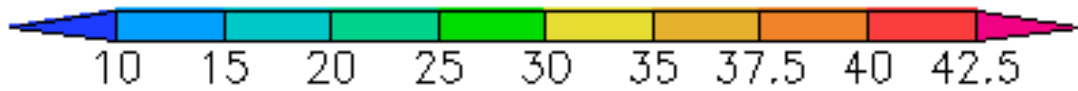
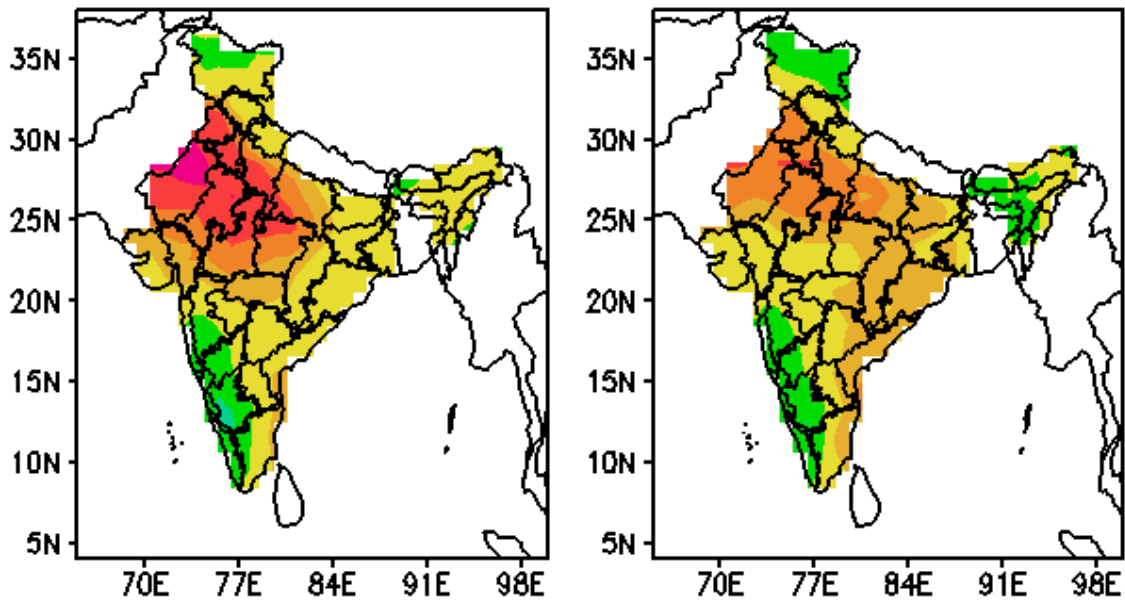
## Annexure I

METEOROLOGICAL SUB-DIVISIONWISE INTENSITY OF REALISED MAXIMUM TEMPERATURE - 2018								
S.No	MET.SUB-DIVISIONS	31 MAY	01 JUN	02 JUN	03 JUN	04 JUN	05 JUN	06 JUN
1	ANDAMAN & NICO.ISLANDS	N	N	N	N	N	N	N
2	ARUNACHAL PRADESH	N	N	N	N	N	N	N
3	ASSAM & MEGHALAYA	N	N	N	AN	AN	AAN	N
4	NAGA.MANI.MIZO.& TRIPURA	N	N	N	N	N	AN	N
5	SUB-HIM.W. BENG. & SIKKIM	N	N	N	N	AN	N	AAN
6	GANGETIC WEST BENGAL	N	N	BN	N	N	N	N
7	ODISHA	N	N	BN	N	AN	N	N
8	JHARKHAND	N	N	ABN	BN	AN	N	N
9	BIHAR	N	ABN	N	N	AN	N	N
10	EAST UTTAR PRADESH	BN	N	N	BN	N	N	N
11	WEST UTTAR PRADESH	N <sup>+</sup>	N	N	N	N	N	N
12	UTTARAKHAND	N	N	N	N	N	N	N
13	HARYANA CHD. & DELHI	AN	AN	N	N	AN	N	N
14	PUNJAB	N	N	N	N	N	N	MBN
15	HIMACHAL PRADESH	N	N	N	N	N	N	N
16	JAMMU & KASHMIR	N	AN	N	N	MAN	AAN	N
17	WEST RAJASTHAN	N <sup>+</sup>	N <sup>+</sup>	N <sup>+</sup>	AAN <sup>+</sup>	N <sup>+</sup>	AAN <sup>+</sup>	N <sup>+</sup>
18	EAST RAJASTHAN	N	N <sup>+</sup>	N	AN	AAN	AAN	N
19	WEST MADHYA PRADESH	N	AN	N	N	AN	N	N
20	EAST MADHYA PRADESH	N <sup>+</sup>	N	N	N	N	N	N
21	GUJARAT REGION D.D. & N.H.	N	N	N	N	N	AN	N
22	SAURASTRA KUTCH & DIU	N	AN	N	N	N	N	N
23	KONKAN & GOA	N	AN	N	N	N	N	N
24	MADHYA MAHARASHTRA	N	N	N	N	AN	N	N
25	MARATHAWADA	N	N	ABN	N	N	N	N
26	VIDARBHA	N <sup>+</sup>	N	N	N	N	N	N
27	CHHATTISGARH	BN	N	BN	BN	AN	N	N
28	COASTAL ANDHRA PRADESH	N	N	N	N	N	N	N
29	TELANGANA	N	N	MBN	N	N	N	N
30	RAYALASEEMA	AN	N	N	N	N	N	N
31	TAMILNADU & PUDUCHERRY	N	N	N	N	N	N	N
32	COASTAL KARNATAKA	N	N	N	N	N	N	N
33	NORTH INT. KARNATAKA	N	N	N	N	AN	N	N
34	SOUTH INT. KARNATAKA	N	N	N	N	AN	N	N
35	KERALA	N	N	N	N	AN	N	N
36	LAKSHADWEEP	N	N	N	N	N	N	N
<b>Highest Maximum Temperature (°C)</b>		<b>48.1</b>	<b>49.7</b>	<b>48.0</b>	<b>48.2</b>	<b>47.6</b>	<b>48.5</b>	<b>44.9</b>
<b>Station(s) observed HMT</b>		Ganganagar	Churu	Phalodi	Ganganagar	Phalodi	Churu	Barmer
<b>Station(s) lies in Met-Subdivision(s)</b>		West.Raj	W.Raj	W.Raj	West.Raj	W.Raj	W.Raj	W.Raj
<b>LEGENDS:</b>								
N	NORMAL (N+1,N-1)°C	BN	BELOW NORMAL (N-2)°C	ABN	APRECIABLY BELOW NORMAL (N-3.1 to -4.9)°C			
AN	ABOVE NORMAL (N+2)°C			MBN	MARKEDLY BELOW NORMAL (N-5 AND BELOW) °C			
AAN	APRECIABLY ABOVE NORMAL (N+3.1 to +4.9)°C			MAN	MARKEDLY ABOVE NORMAL (N+5 AND ABOVE) °C			
<sup>+</sup> Heat wave conditions (Departure from Normal is (+4.5°C to +6.4°C)				<sup>++</sup> Severe Heat wave conditions (Departure from Normal is (> +6.4°C)				
<b>REMARK:- Intensity of Max. Temp. has been assigned as realised over at least many (51%) parts of the Sub-division.</b>								

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

(Week1: 08Jun-14Jun)

(Week2: 15Jun-21Jun)



### MME Bias Corrected Tmax Anomaly (Deg)

(Week1: 08Jun-14Jun)

(Week2: 15Jun-21Jun)

