

## Climate information for Health

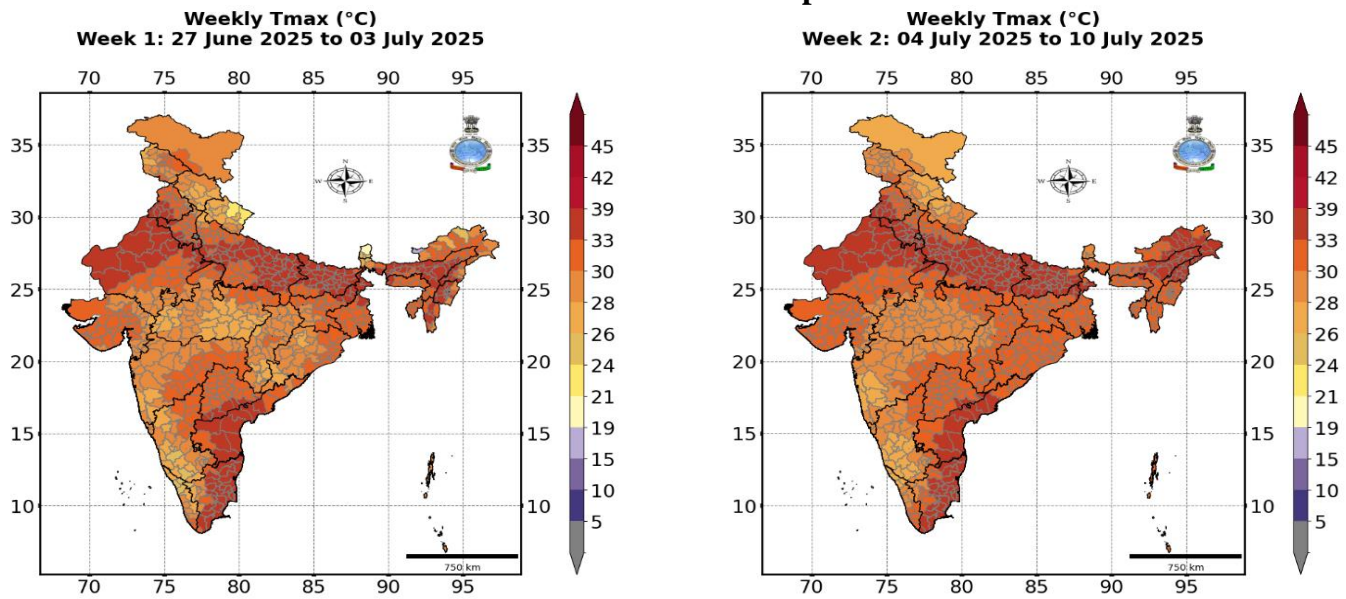
Issued on 27<sup>th</sup> June 2025

(Valid from 27<sup>th</sup> June to 10<sup>th</sup> July 2025)

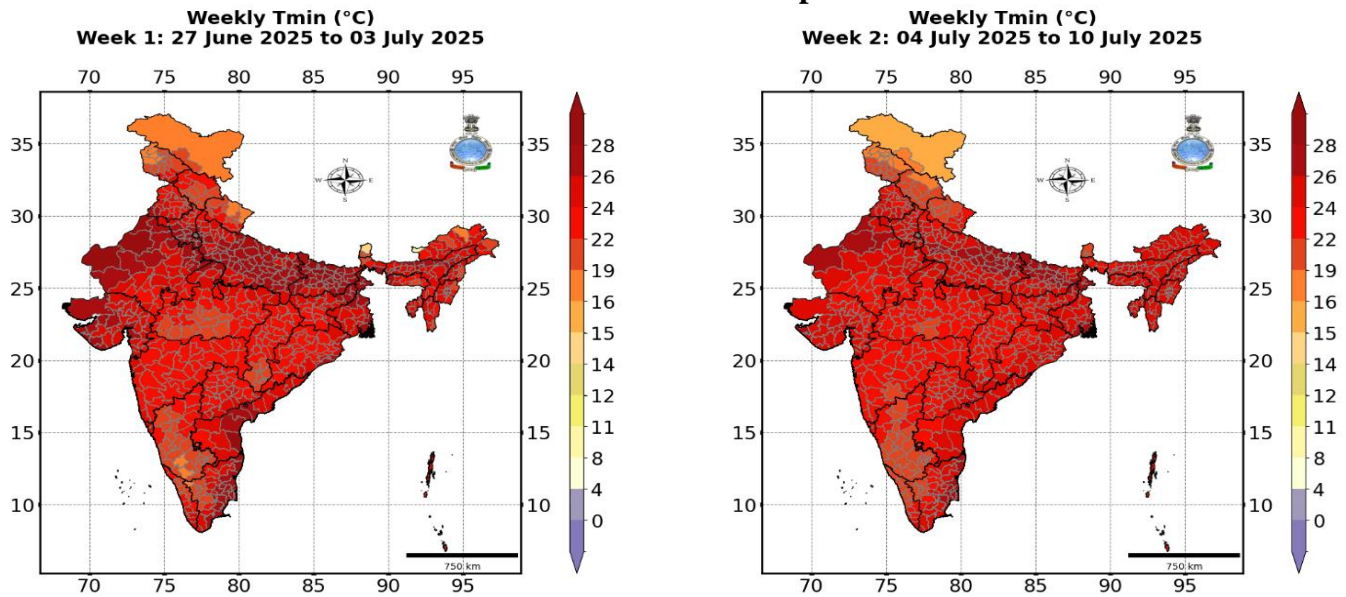
Climate information for coming two weeks is provided for the transmission windows of temperature favourable for development of vector borne diseases like malaria and dengue based on GFS and ERFs.

### Weekly Prediction of maximum and minimum temperature

#### Predicted Maximum Temperature



#### Predicted Minimum Temperature

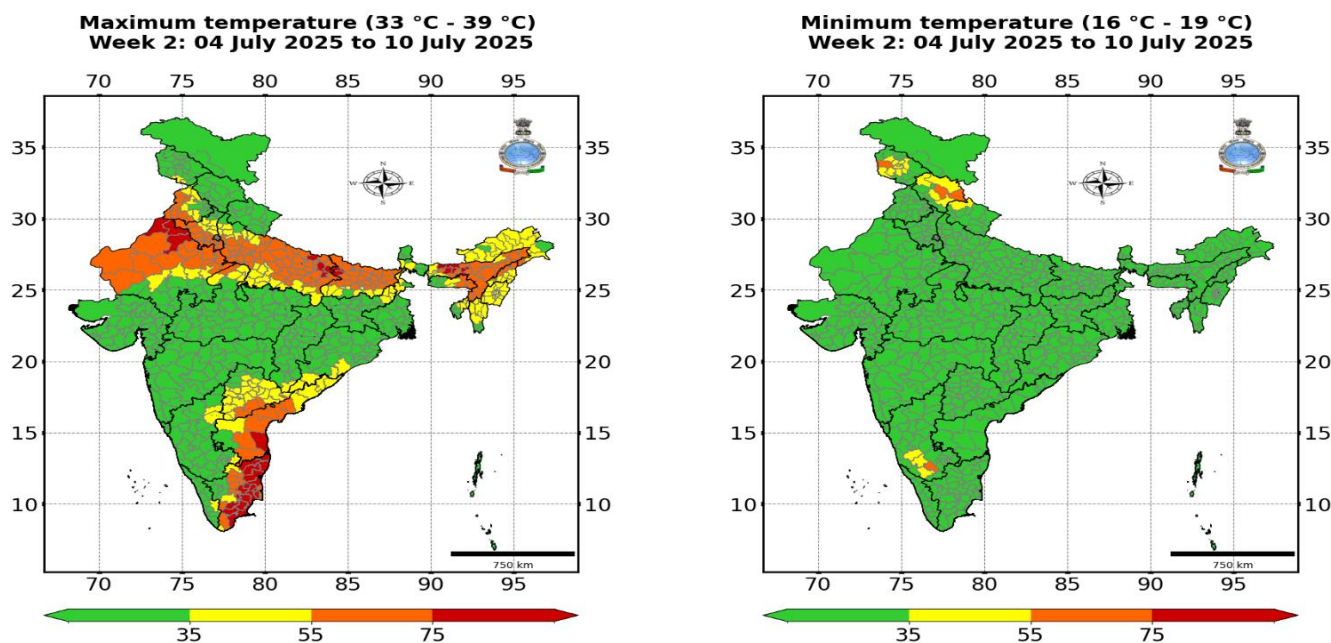


#### Weather Warning

No districts will experience maximum temperature above 39°C and minimum temperature below 4°C during 27<sup>th</sup> June to 03<sup>rd</sup> July 2025.

GFS based weekly evolution of transmission window for Malaria and Dengue for Week-I 27 <sup>th</sup> June to 03 <sup>rd</sup> July 2025			
VBD	Threshold temp.		Regions within the range of predicted temperatures for Tmax/Tmin or both in Threshold temperatures range.
	Th-Tmax	Th-Tmin	
Malaria ( <i>Plasmodium falciparum</i> )	33-39 <sup>0</sup> C	16-19 <sup>0</sup> C	All districts of Ladakh (except Kargil), major districts of Uttar Pradesh, Bihar, Assam, Manipur, Nagaland, Andhra Pradesh, Tamil Nadu, some districts of Jammu & Kashmir, Punjab, Haryana, Rajasthan, Jharkhand, West Bengal, Telangana, few districts of Uttarakhand (Chamoli, Pithoragarh), Madhya Pradesh (Bhind), Arunachal Pradesh (Upper Siang), Mizoram (Aizawl, Lunglei, Serchhip), Meghalaya (South West & West Garo Hills) and Karnataka (Hassan, Mysore).
Malaria ( <i>Plasmodium Vivax</i> )	33-39 <sup>0</sup> C	14-15 <sup>0</sup> C	Major districts of Uttar Pradesh, Bihar, Assam, Manipur, Nagaland, Andhra Pradesh, Tamil Nadu, some districts of Punjab, Haryana, Rajasthan, Jharkhand, West Bengal, Telangana, few districts of Madhya Pradesh (Bhind), Sikkim (North), Meghalaya (South West & West Garo Hills) and Mizoram (Aizawl, Lunglei, Serchhip).
Dengue	Not known	11.9 <sup>0</sup> C	Nil.
ERFS based weekly evolution of transmission window for Malaria and Dengue for Week-II 04 <sup>th</sup> July to 10 <sup>th</sup> July 2025			
Malaria ( <i>Plasmodium falciparum</i> )	33-39 <sup>0</sup> C	16-19 <sup>0</sup> C	All districts of Ladakh (except Leh), Bihar (except Arariya, Kishanganj), Nagaland (except Peren), major districts of Haryana, Uttar Pradesh, Arunachal Pradesh, Assam, Andhra Pradesh, Tamil Nadu, some districts of Jammu & Kashmir, Punjab, Rajasthan, few districts of Himachal Pradesh (Lahul&Spiti), Madhya Pradesh (Bhind, Morena), Jharkhand (Gooda, Pakur, Sahebganj), Meghalaya (Ri Bhoi), West Bengal (Dakshin Dinajpur, Malda) and Telangana (Khammam, Nalgonda, Suryapet).
Malaria ( <i>Plasmodium Vivax</i> )	33-39 <sup>0</sup> C	14-15 <sup>0</sup> C	All districts of Bihar (except Arariya, Kishanganj), Nagaland (except Peren), major districts of Haryana, Uttar Pradesh, Arunachal Pradesh, Assam, Andhra Pradesh, Tamil Nadu, some districts of Punjab, Rajasthan, few districts of Madhya Pradesh (Bhind, Morena), Jharkhand (Gooda, Pakur, Sahebganj), Meghalaya (Ri Bhoi), West Bengal (Dakshin Dinajpur, Malda) and Telangana (Khammam, Nalgonda, Suryapet).
Dengue	Not known	11.9 <sup>0</sup> C	Nil.

## Weekly probabilistic outlook for prevalence of transmission window for Malaria

Predicted probabilistic Maximum & Minimum Temperature map for Malaria (*Plasmodium falciparum*)Probabilistic weekly evolution of transmission window for Malaria (*Plasmodium falciparum*).**Second week (04<sup>th</sup> July to 10<sup>th</sup> July 2025):**

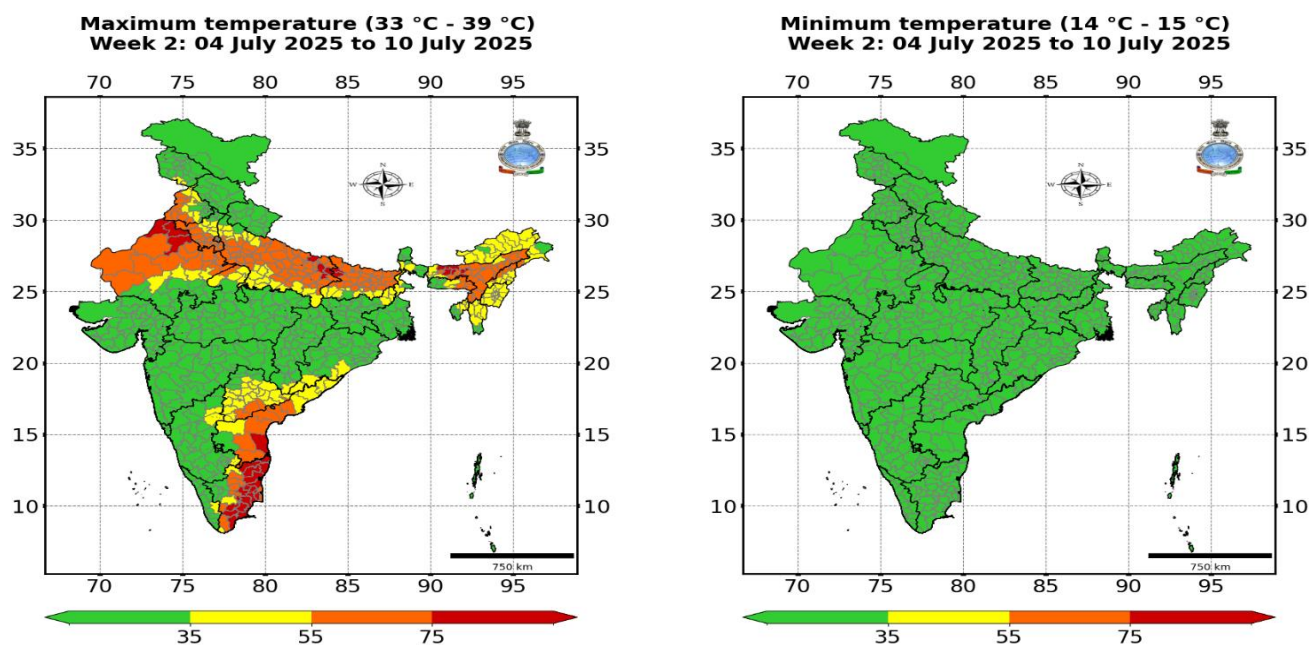
1	<b>75</b> probability level	Major districts of Tamil Nadu, some districts of Uttar Pradesh, Assam, few districts of Rajasthan (Churu, Ganganagar, Hanumangarh), Bihar (Gopalganj, Siwan) and Andhra Pradesh (Nellore).
2	<b>55-75</b> probability level	Major districts of Haryana, Uttar Pradesh, Bihar, Assam, Andhra Pradesh, some districts of Punjab, Rajasthan, Meghalaya, Nagaland, Tamil Nadu, few districts of Jammu & Kashmir (Punch), Himachal Pradesh (Kinnaur, Kullu), Madhya Pradesh (Morena), Arunachal Pradesh (Longding, Tirap), Manipur (Jiribam), Telangana (Nagarkurnool, Nalgonda, Suryapet) and Karnataka (Mandhya).
3	<b>35-55</b> probability level	All districts of Manipur (except Jiribham), Mizoram (except Lawngtlai, Saiha), major districts of Jammu & Kashmir, Arunachal Pradesh, Nagaland, Telangana, some districts of Himachal Pradesh, Punjab, Haryana, Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, Assam, Tripura, West Bengal, Odisha, Andhra Pradesh, Karnataka, few districts of Uttarakhand (Uttarkashi), Chhattisgarh (Sukma), Meghalaya (North Garo Hills, South West & West Khasi Hills), Tamil Nadu (Dindigul, Kanyakumari, Krishnagiri) and Kerala (Idukki).
4	<b>Less than 35</b> probability level	Major districts in rest of states.

**Glossary:**

SN	Malaria VBD	Threshold minimum temp (Th-Tmin)	Threshold maximum temp (Th-Tmax)
1	<i>Plasmodium falciparum</i>	16-19°C	33-39°C



## Weekly probabilistic outlook for prevalence of transmission window for Malaria

Predicted probabilistic Maximum& Minimum Temperature map for Malaria (*Plasmodium vivax*)Probabilistic weekly evolution of transmission window for Malaria (*Plasmodium vivax*).Second week (04<sup>th</sup> July to 10<sup>th</sup> July 2025):

1	<u>75</u> probability level	Major districts of Tamil Nadu, some districts of Uttar Pradesh, Assam, few districts of Rajasthan (Churu, Ganganagar, Hanumangarh), Bihar (Gopalganj, Siwan) and Andhra Pradesh (Nellore).
2	<u>55-75</u> probability level	Major districts of Haryana, Uttar Pradesh, Bihar, Assam, Andhra Pradesh, some districts of Punjab, Rajasthan, Meghalaya, Nagaland, Tamil Nadu, few districts of Madhya Pradesh (Morena), Arunachal Pradesh (Longding, Tirap), Manipur (Jiribam) and Telangana (Nagarkurnool, Nalgonda, Suryapet).
3	<u>35-55</u> probability level	All districts of Manipur (except Jiribham), Mizoram (except Lawngtlai, Saiha), major districts of Arunachal Pradesh, Nagaland, Telangana, some districts of Punjab, Haryana, Rajasthan, Uttar Pradesh, Madhya Pradesh, Bihar, Jharkhand, West Bengal, Assam, Tripura, Odisha, Andhra Pradesh, few districts of Jammu & Kashmir (Jammu, Samba), Chhattisgarh (Sukma), Meghalaya (North Garo Hills, South West & West Khasi Hills), Karnataka (Kolar, Raichur, Yadgir), Tamil Nadu (Dindigul, Kanyakumari, Krishnagiri) and Kerala (Idukki).
4	<u>Less than 35</u> probability level	Major districts in rest of states.

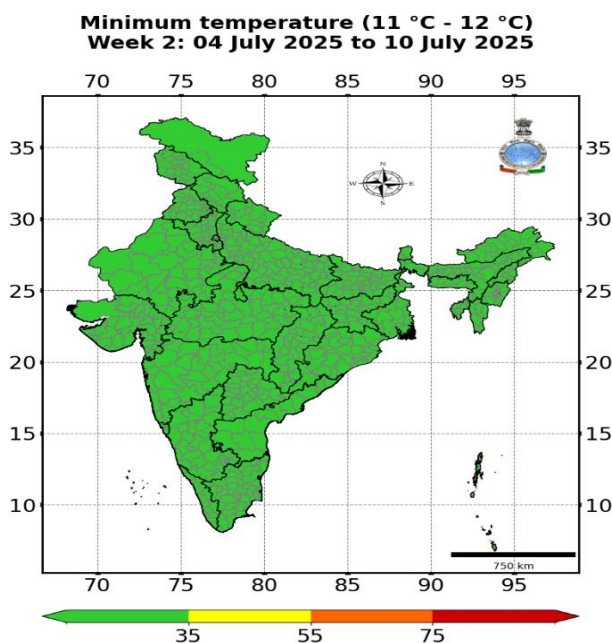
## Glossary:

SN	Malaria VBD	Threshold minimum temp (Th-Tmin)	Threshold maximum temp (Th-Tmax)
1	<i>Plasmodium vivax</i>	14-15°C	33-39°C

## Weekly to fortnightly probabilistic outlook for window prevalence of transmission for vector borne diseases

### Weekly probabilistic outlook for prevalence of transmission window for Dengue

#### Predicted probabilistic Minimum Temperature map



#### Probabilistic weekly evolution of transmission window for Dengue

##### Second week (04<sup>th</sup> July to 10<sup>th</sup> July 2025):

1	<u>75</u> probability level		Nil
2	<u>55-75</u> probability level		Nil
3	<u>35-55</u> probability level		Nil
4	<u>Less than 35</u> probability level		All states.

#### Glossary:

SN	VBD	Threshold minimum temp (Th-Tmin)	Threshold maximum temp (Th-Tmax)
1	Dengue virus	11.9°C	Not known

**Verification of previous week 20<sup>th</sup> June to 26<sup>th</sup> June 2025 weather warning issued on 20<sup>th</sup> June 2025 for development of vector borne diseases.**

Following table provides the verification of previous week 20<sup>th</sup> June to 26<sup>th</sup> June 2025 temperature forecast issued in last week bulletin with realized temperature.

VBD	Threshold temp.	Predicted (Forecasted) temperature (20 <sup>th</sup> Jun to 26 <sup>th</sup> Jun 2025)	Realised (Observed) temperature (20 <sup>th</sup> Jun to 26 <sup>th</sup> Jun 2025)
		Regions within the range of <b>predicted</b> temperatures for Tmax/Tmin or both in Threshold temperatures range.	Regions within the range of <b>realised</b> temperatures for Tmax/Tmin or both in Threshold temperatures range.
Malaria (Plasmodium falciparum and Vivax)	33-39 °C	Major districts of Telangana, Andhra Pradesh, Tamil Nadu, some districts of Punjab, Uttar Pradesh, Bihar, Rajasthan, Maharashtra, few districts of Jammu & Kashmir (Samba) and Odisha (Jagatsinghapur, Kendraparha).	Major districts of Andhra Pradesh, Haryana, Tamil Nadu, some districts of Uttar Pradesh, Rajasthan, Telangana and few districts of Punjab (Fazilka, Mansa, Muktsar).
Malaria (Plasmodium falciparum)	16-19°C	All districts of Ladakh (except Leh), some districts of Jammu & Kashmir, Himachal Pradesh, few districts of Uttarakhand (Chamoli), Arunachal Pradesh (Upper Siang), Karnataka (Mysore) and Tamil Nadu (Nilgiri).	All districts of Ladakh, Sikkim, major districts of Jammu & Kashmir, some districts of Himachal Pradesh, few districts of Uttarakhand (Chamoli), Arunachal Pradesh (Tawang), Manipur (Chandel), West Bengal (Kalimpong), Karnataka (Mysore), Tamil Nadu (Nilgiri) and Kerala (Malappuram).
Malaria (Plasmodium vivax)	14-15°C	Nil.	Nil.
Dengue virus	11.9°C	Nil.	Nil.