

Climate information for Health

Based on GFS and Extended Range Weather Forecast

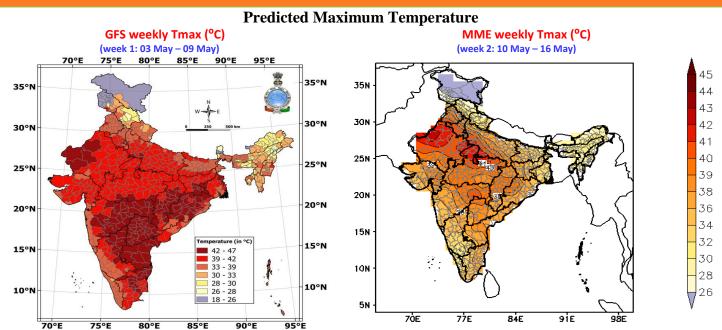
(Valid from 03rd May to 16th May 2024)

Issued on 03rd May, 2024

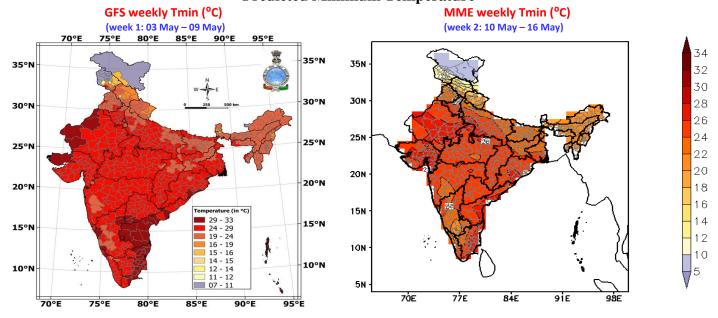
Office of Climate Research and Services, India Meteorological Department, Pune

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

Weekly Prediction of maximum and minimum temperature



Predicted Minimum Temperature



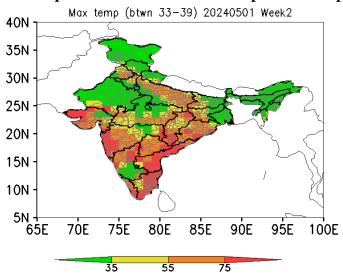
Weather Warning

Major districts of Maharashtra, Chhattisgarh, Telangana, Odisha, Andhra Pradesh, some districts of Karnataka, Jharkhand, Tamil Nadu, few districts of Uttar Pradesh (Agra), Rajasthan (Barmer, Jaiselmer, Jodhpur), Madhya Pradesh (Balaghat, Betul, Burhanpur) and West Bengal (Puruliya) will experience maximum temperature above 42°C during 03rd to 09th May 2024.

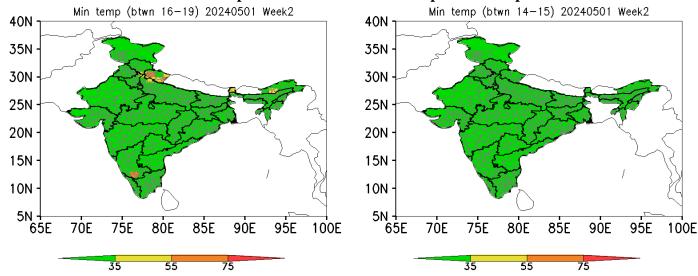
	GFS based weekly evolution of transmission window for Malaria and Dengue for Week-I				
Week	VBD	Threshold	temp.	Regions within the range of predicted temperatures for	
		Th-Tmax	Th-	Tmax/Tmin or both in Threshold temperatures range.	
			Tmin		
	Malaria	33-39 ⁰ C	16-19 ⁰ C	All districts of Goa, Uttarakhand (except Chamoli,	
	(Plasmodium			Rudraprayag), Punjab (except Firozpur), Kerala (except	
	falciparum)			Wayanad), major districts of Bihar, some districts of	
				Jammu & Kashmir, Himachal Pradesh, Haryana, Delhi,	
				Uttar Pradesh, Assam, Tripura, West Bengal, Odisha,	
				Gujarat, Maharashtra, Karnataka, Tamil Nadu, few districts	
				of Rajasthan (Sirohi), Jharkhand (Sahebganj), Sikkim	
				(East, West Sikkim), Meghalaya (South, West and South-	
				West Garo Hills), Mizoram (Saiha), Manipur (Churachandpur, Chandel, Tamenglong), Nagaland	
				(Kiphire, Tuensang) and Andhra Pradesh (Srikakulam,	
03 rd to				Vishakhapatnam).	
09th May	Malaria	33-39 ⁰ C	14-15 ⁰ C	All districts of Goa, Uttarakhand (except Champawat,	
2024	(Plasmodium			Chamoli, Rudraprayag), Punjab (except Firozpur), Kerala	
	Vivax)			(except Wayanad), major districts of Bihar, some districts	
				of Haryana, Delhi, Uttar Pradesh, Assam, Tripura, West	
				Bengal, Odisha, Gujarat, Maharashtra, Karnataka, Tamil	
				Nadu, few districts of Jammu & Kashmir (Kathua, Samba),	
				Himachal Pradesh (Hamirpur, Kangra, Una), Rajasthan	
				(Sirohi), Jharkhand (Sahebganj), Meghalaya (South, West	
				and South-West Garo Hills), Mizoram (Saiha), Manipur	
				(Churachandpur, Chandel, Tamenglong) and Andhra	
	Dangua	Not	11.9 ⁰ C	Pradesh (Srikakulam, Vishakhapatnam). Nil.	
	Dengue	known	11.9 C	INII.	
ER	 FS based weekl		of transmi	ssion window for Malaria and Dengue for Week-II	
Liv	Malaria	33-39 ⁰ C	16-19 ⁰ C	Goa, Jharkhand, Andhra Pradesh, major parts of	
	(Plasmodium			Uttarakhand, Uttar Pradesh, Bihar, West Bengal, Odisha,	
	falciparum)			Telangana, Gujarat, Karnataka, Tamil Nadu, some parts of	
				Himachal Pradesh, Punjab, Haryana, Madhya Pradesh,	
				Chhattisgarh Kerala, isolated parts of Jammu & Kashmir,	
10th 40				Rajasthan, Assam and Manipur.	
10 th to 16 th May	Malaria	33-39 ⁰ C	14-15 ⁰ C	Goa, Jharkhand, Andhra Pradesh, major parts of Uttar	
2024	(Plasmodium			Pradesh, Bihar, West Bengal, Odisha, Telangana, Gujarat,	
2027	Vivax)			Karnataka, Tamil Nadu, some parts of Himachal Pradesh,	
				Punjab, Haryana, Uttarakhand, Madhya Pradesh,	
				Chhattisgarh Kerala, isolated parts of Jammu & Kashmir	
	D	N.	11.000	and Rajasthan.	
	Dengue	Not known	11.9°C	Some parts of Jammu & Kashmir and isolated parts of Himachal Pradesh.	
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Weekly probabilistic outlook for prevalence of transmission window for Malaria

Predicted probabilistic Maximum Temperature map



Predicted probabilistic Minimum Temperature map



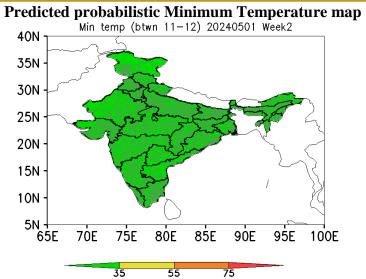
	Probabilistic weekly evolution of transmission window for Malaria (Plasmodium falciparum).				
	Second week (10 th to 16 th May 2024):				
1	75 probability level	Major districts of Andhra Pradesh, Tamil Nadu, some districts of Gujarat, Maharashtra, Karnataka, Telangana, Chhattisgarh, Odisha, Kerala, few districts of Rajasthan and Goa.			
2	55-75 probability level	Major districts of Uttar Pradesh, Odisha, Telangana, Kerala, some districts of Uttarakhand, Punjab, Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh, Gujarat, Maharashtra, Goa, Karnataka, Andhra Pradesh, few districts of Haryana, Rajasthan and Tamil Nadu.			
3	35-55 probability level	Sikkim, some districts of Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Bihar, Mizoram, Odisha, Jharkhand, Chhattisgarh, Madhya Pradesh, Rajasthan, Gujarat, Maharashtra, Tamil Nadu, few districts of Jammu & Kashmir, Arunachal Pradesh, Andhra Pradesh, Karnataka and Kerala.			
4	Less than 35 probability level	Major districts in rest of states.			

	Probabilistic weekly evolution of transmission window for Malaria (Plasmodium vivax)					
	Second week (10 th to 16 th May 2024):					
1	75 probability level	Major districts of Andhra Pradesh, Tamil Nadu, some districts of Gujarat, Maharashtra, Karnataka, Telangana, Chhattisgarh, Odisha, Kerala, few districts of Rajasthan and Goa.				
2	55-75 probability level	Major districts of Uttar Pradesh, Odisha, Telangana, Kerala, some districts of Punjab, Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh, Gujarat, Maharashtra, Goa, Karnataka, Andhra Pradesh, few districts of Haryana, Rajasthan and Tamil Nadu.				
3	35-55 probability level	Some districts of Himachal Pradesh, Uttarakhand, Punjab, Haryana, Uttar Pradesh, Bihar, Mizoram, Odisha, Jharkhand, Chhattisgarh, Madhya Pradesh, Rajasthan, Gujarat, Maharashtra, Tamil Nadu, few districts of Jammu & Kashmir, Andhra Pradesh, Karnataka and Kerala.				
4	Less than 35 probability level	Major districts in rest of states.				

Glossary:

<u>SN</u>	Malaria VBD	Threshold minimum temp (Th-Tmin)	Threshold maximum temp (Th-Tmax)
1	Plasmodium falciparum	16-19°C	22 2000
2	Plasmodium vivax	14-15°C	33-39°C

Weekly probabilistic outlook for prevalence of transmission window for Dengue



	Probabilistic weekly evolution of transmission window for Dengue			
	Second week (10 th to 16 th May 2024):			
1	75 probability level	Nil.		
2	55-75 probability level	Nil.		
3	35-55 probability level	Nil.		
4	Less than 35 probability level	All st	ates.	

Glossary:

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

<u>Verification of previous week 26th April to 02nd May 2024 weather warning issued for development of vector borne diseases.</u>

Following table provides the verification of previous week 26th April to 02nd May 2024 temperature

forecast issued in last week bulletin with realized temperature.

forecast issued in last week bulletin with realized temperature.					
Week	VBD	Threshold	Regions within the range of	Regions within the range of realised	
		temp.	predicted temperatures for	temperatures for Tmax/Tmin or both	
			Tmax/Tmin or both in Threshold	in Threshold temperatures range.	
			temperatures range.		
26 th Apr to 02 nd May 2024	Malaria (Plasmodium falciparum and Vivax)	33-39 ℃	All districts of Punjab, Delhi, Mizoram, Goa, Uttarakhand (except Chamoli, Rudraprayag), Manipur (except Chandel, Ukhrul), Kerala (except Kollam), major districts of Haryana, Assam, Meghalaya, Nagaland, Tripura, some districts of Uttar Pradesh, West Bengal, Arunachal Pradesh, Maharashtra, Karnataka, Tamil Nadu, few districts of Jammu & Kashmir (Kathua, Jammu, Samba), Himachal Pradesh (Kangra, Solan, Una) and Rajasthan (Sirohi).	All districts of Delhi, Rajasthan, Gujarat, Goa, Madhya Pradesh (except Sidhi, Rewa, Burhanpur), Kerala (except Kozikod), major districts of Haryana, Uttar Pradesh, Bihar, Karnataka, Tamil Nadu, some districts of Maharashtra, Chhattisgarh, Jharkhand, Assam West Bengal, Odisha, Andhra Pradesh, few districts of Arunachal Pradesh (Tawang), Manipur (Chandel), Mizoram (Lawngtlai) and Meghalaya (Southwest & West Garo Hills).	
	Malaria (Plasmodium falciparum) Malaria (Plasmodium	16-19°C	All districts of Sikkim, major districts of Uttarakhand, few districts of Jammu & Kashmir (Kathua, Samba), Himachal Pradesh (Kangra, Shimla, Una) and West Bengal (Kalimpong). Some districts of Himachal Pradesh.	All districts of Sikkim, major districts of Punjab, Arunachal Pradesh, Nagaland, some districts of Haryana, Uttar Pradesh, Assam, Meghalaya, few districts of Himachal Pradesh (Solan) Uttarakhand (Haridwar, Nanital, Udham Singh Nagar), Rajasthan (Ganganagar, Hanumangarh) and West Bengal (Darjeeling, Jalpaiguri, Kalimpong). Few districts of Uttarakhand (Almora, Dehradun).	
	vivax)				
	Dengue virus	11.9°C	Hamirpur district of Himachal Pradesh.	Few districts of Himachal Pradesh (Chamba, Kangra, Shimla).	