

सत्यमेव जयते



Years of Service to the Nation
राष्ट्र सेवा के 150 वर्ष



Outlook for the Monthly Rainfall and Temperatures during May 2024

India Meteorological Department
Ministry of Earth Sciences, Government of India



भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT



Rainfall during Pre-Monsoon Season 2024

RAINFALL STATISTICS - PRE-MONSOON 2024

MARCH 2024	1- Mar	TO	31-Mar
REGION	ACTUAL	NORMAL	% DEP
COUNTRY AS A WHOLE	28.5	29.9	-5.0
NORTHWEST INDIA	45.9	47.9	-4.0
EAST & NORTHEAST INDIA	52.6	59.7	-12.0
CENTRAL INDIA	15.9	7.8	104.0
SOUTH PENINSULA	3.3	15.5	-79.0

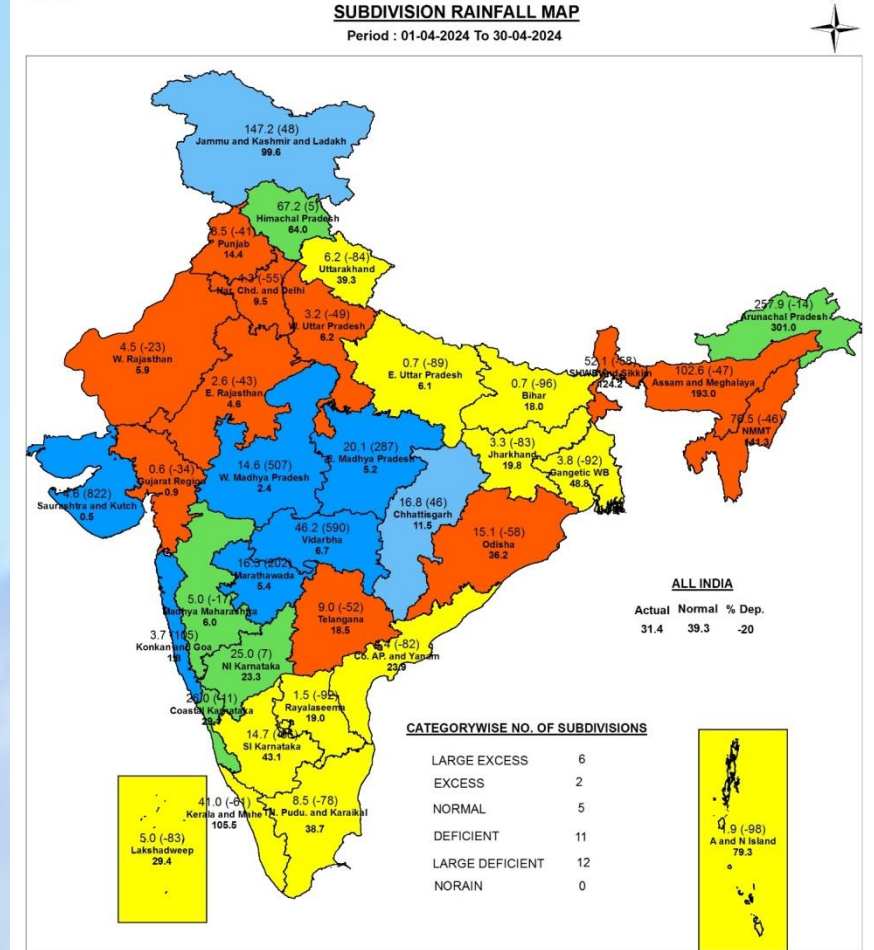
APRIL 2024	1- Apr	TO	30-Apr
REGION	ACTUAL	NORMAL	% DEP
COUNTRY AS A WHOLE	31.4	39.3	-20.0
NORTHWEST INDIA	38.7	31.9	21.0
EAST & NORTHEAST INDIA	75.2	123.5	-39.0
CENTRAL INDIA	15.1	9.2	64.0
SOUTH PENINSULA	12.6	33.9	-63.0

CUMULATIVE SEASONAL RAINFALL	1- Mar	TO	30-Apr
REGION	ACTUAL	NORMAL	% DEP
COUNTRY AS A WHOLE	59.9	69.2	-13.0
NORTHWEST INDIA	84.6	79.8	6.0
EAST & NORTHEAST INDIA	127.5	183.2	-30.0
CENTRAL INDIA	31.0	17.0	82.0
SOUTH PENINSULA	15.8	49.4	-68.0

(Based on real time data)

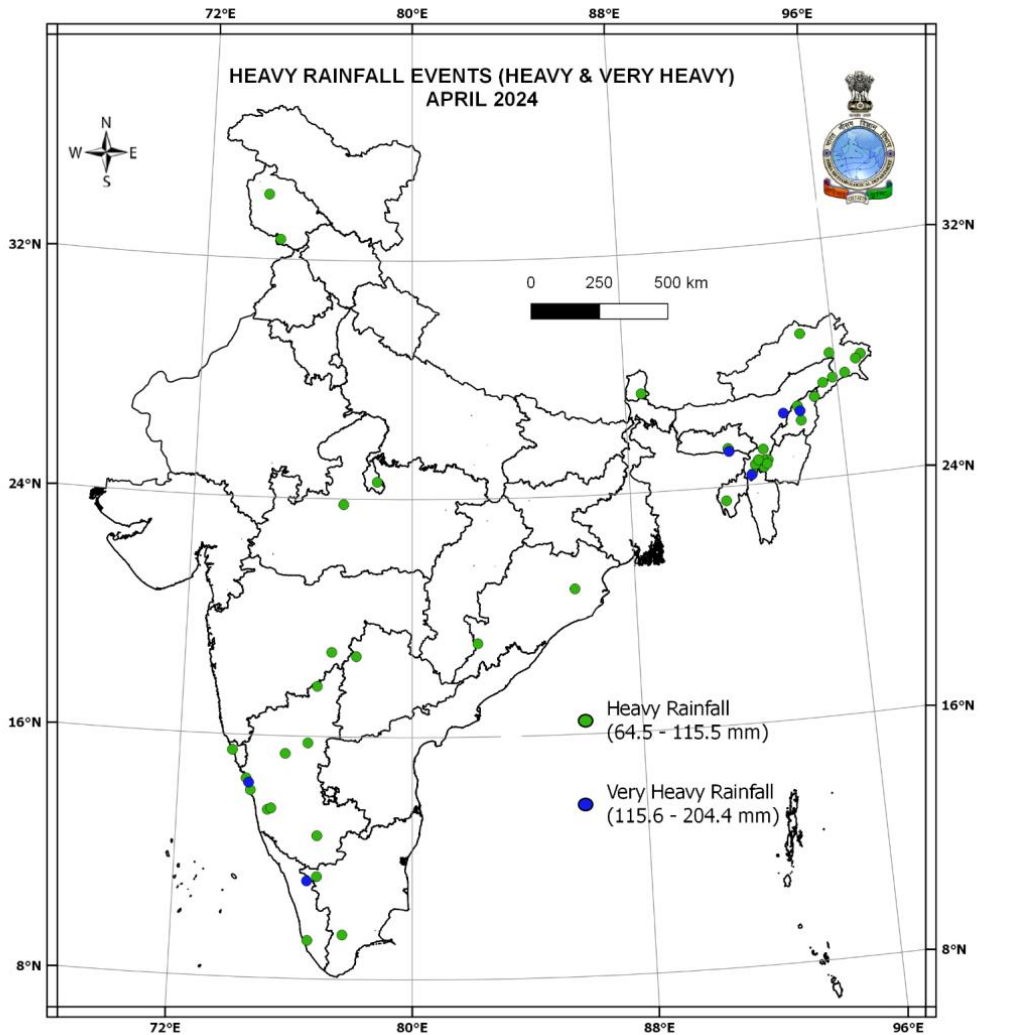


FOUR HOMOGENEOUS REGIONS OF INDIA



Heavy Rainfall Events occurred in April 2024

Location of Heavy Rainfall events in April 2024



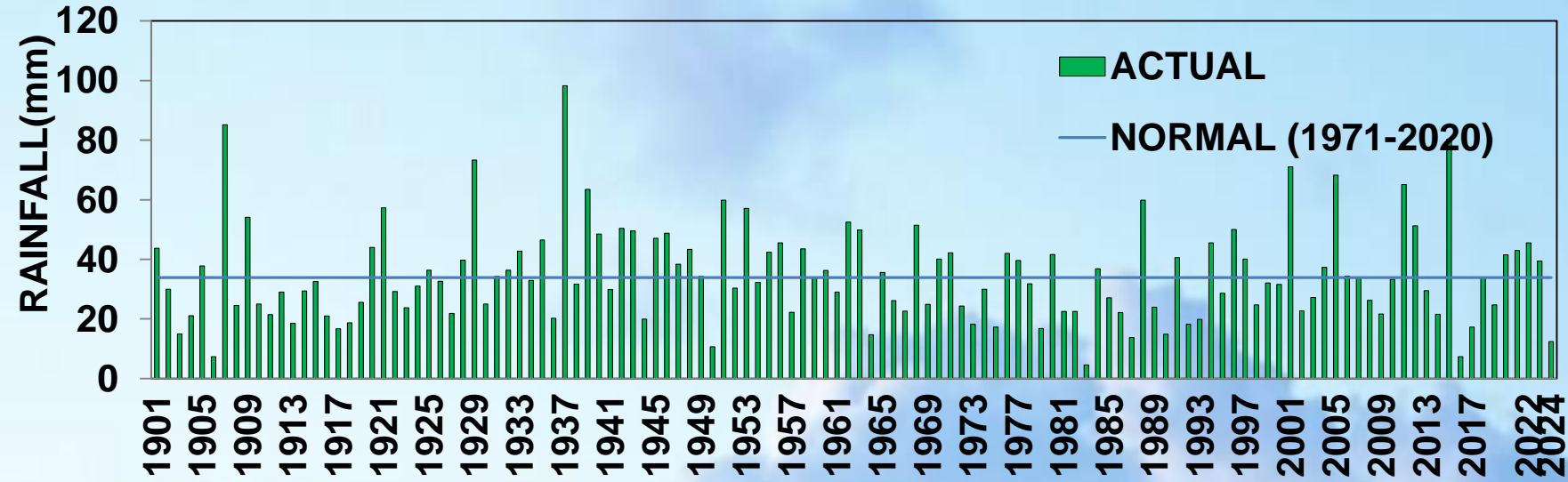
Number of Heavy, very Heavy/Ext. Heavy Rainfall events in April during last 5 years.

YEAR	Rainfall Category	Number of stations reported Events
2020	Heavy (64.5 to 115.5)	112
	V. Heavy (115.6 to 204.5)	13
	Ext Heavy (more than 204.5)	0
2021	Heavy (64.5 to 115.5)	49
	V. Heavy (115.6 to 204.5)	4
	Ext Heavy (more than 204.5)	0
2022	Heavy (64.5 to 115.5)	131
	V. Heavy (115.6 to 204.5)	31
	Ext Heavy (more than 204.5)	8
2023	Heavy (64.5 to 115.5)	33
	V. Heavy (115.6 to 204.5)	2
	Ext Heavy (more than 204.5)	0
2024	Heavy (64.5 to 115.5)	56
	V. Heavy (115.6 to 204.5)	6
	Ext Heavy (more than 204.5)	0



Rainfall Over the South Peninsular India during April 2024

Area Weighted Rainfall over South Peninsular India For APRIL (1901-2024)



Previous lowest rainfall years

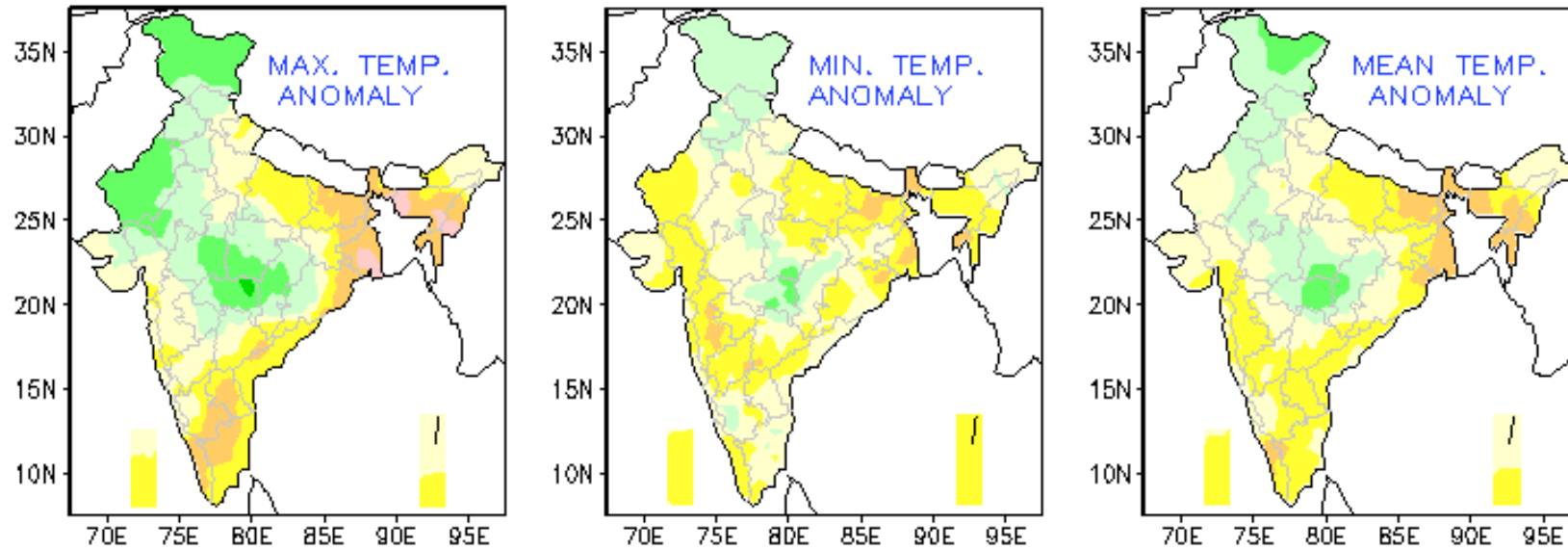
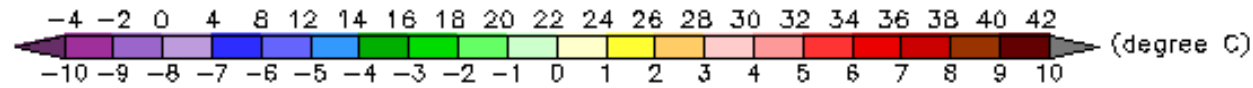
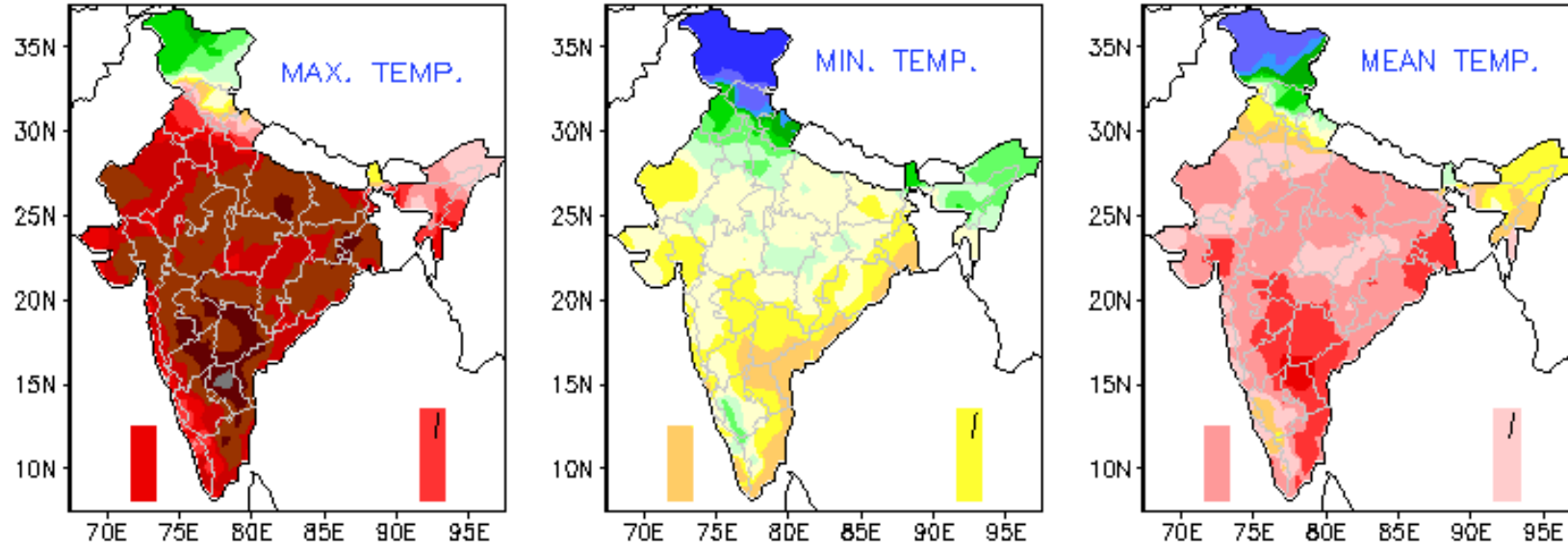
YEAR	April Rainfall South Peninsular India in mm
1983	4.6
1906	7.3
2016	7.3
1950	10.7
2024	12.6

Rainfall during April 2024 over South Peninsular India (12.6 mm) was 5th lowest since 1901(2nd lowest since 2001).



Temperature during April 2024

TEMPERATURE & ITS ANOMOLY FOR THE MONTH APRIL 2024



Temperatures during April 2024 for all India and homogeneous regions with its top ranks since 1901

APR 2024		Max Temp (°C)	Min Temp (°C)	Mean Temp (°C)
ALL INDIA	ACTUAL	35.67	22.45	29.06
	NORMAL	35.02	21.57	28.29
	ANOMALY	0.65	0.88	0.76
	Rank since 1901	11	6	8
NORTHWEST INDIA	ACTUAL	33.25	18.86	26.06
	NORMAL	33.45	18.54	26.00
	ANOMALY	-0.20	0.32	0.06
	Rank since 1901	48	33	43
EAST & NORTHEAST INDIA	ACTUAL	34.05	22.19	28.12
	NORMAL	31.80	20.41	26.11
	ANOMALY	2.25	1.78	2.01
	Rank since 1901	9	1	1
CENTRAL INDIA	ACTUAL	37.88	23.87	30.87
	NORMAL	37.90	23.17	30.54
	ANOMALY	-0.03	0.70	0.34
	Rank since 1901	49	12	26
SOUTH PENINSULAR INDIA	ACTUAL	37.25	25.53	31.39
	NORMAL	35.89	24.43	30.16
	ANOMALY	1.35	1.09	1.22
	Rank since 1901	2	2	2

Note : Values are rounded off to nearest two decimal



Five highest temperature records with corresponding ranks since 1901 along with year of occurrence for East & Northeast India and South Peninsular India (Maximum Temperature, Minimum Temperature and Mean Temperature)

East & Northeast India (April 2024)				
Year	TMin	Normal	Anomaly	Rank
2024	22.19	20.41	1.78	1
2022	21.99		1.58	2
1908	21.97		1.56	3
1954	21.64		1.23	4
1980	21.57		1.16	5

South Peninsular India (April 2024)				
Year	TMax	Normal	Anomaly	Rank
2016	37.57	35.89	1.68	1
2024	37.25		1.35	2
2017	37.07		1.18	3
2019	36.80		0.91	4
1906	36.63		0.74	5

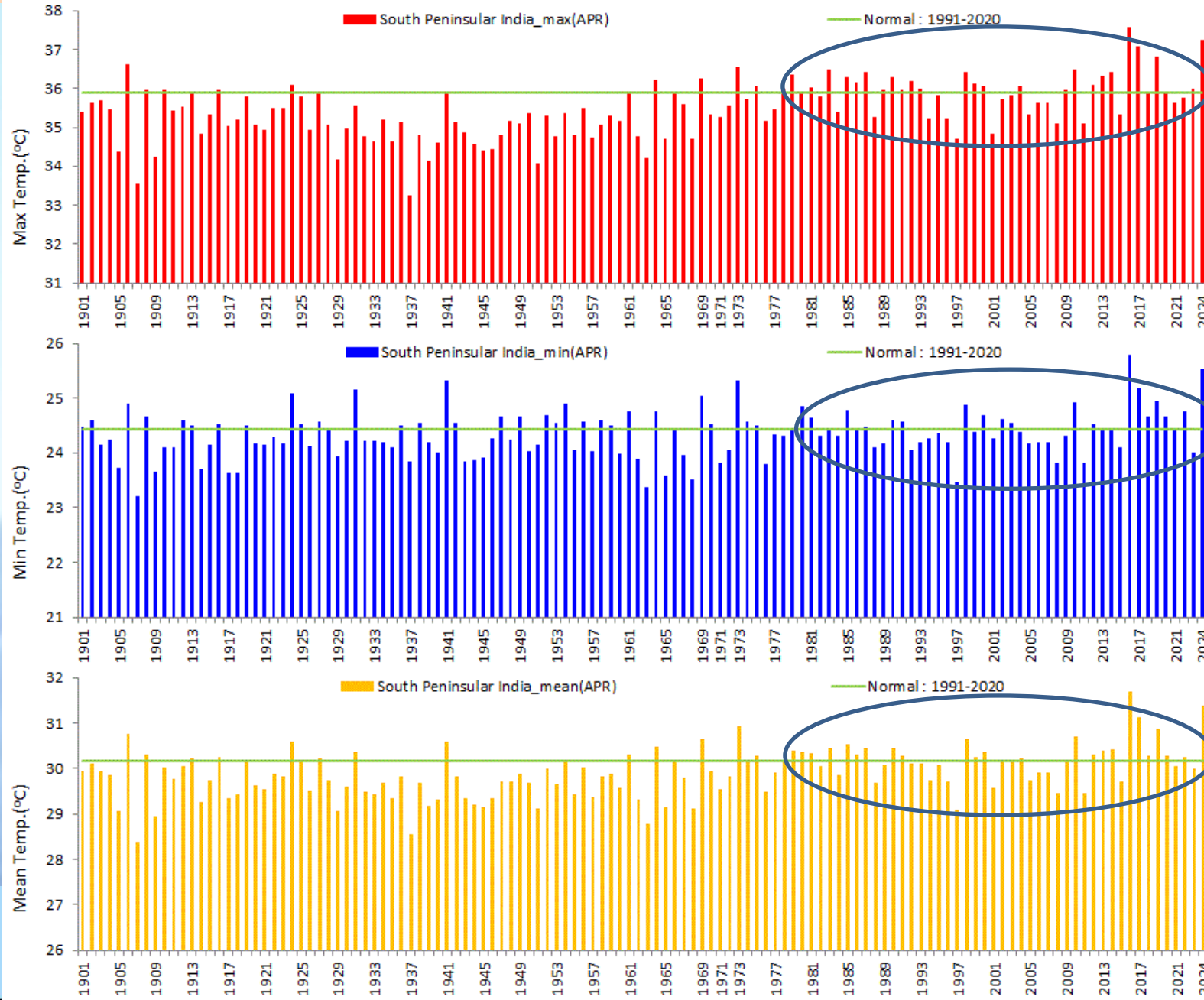
East & Northeast India (April 2024)				
Year	TMean	Normal	Anomaly	Rank
2024	28.12	26.11	2.01	1
1908	28.09		1.98	2
1973	28.03		1.93	3
1960	27.91		1.81	4
1938	27.86		1.75	5

South Peninsular India (April 2024)				
Year	TMin	Normal	Anomaly	Rank
2016	25.80	24.43	1.36	1
2024	25.53		1.09	2
1973	25.32		0.88	3
1941	25.31		0.88	4
2017	25.17		0.74	5

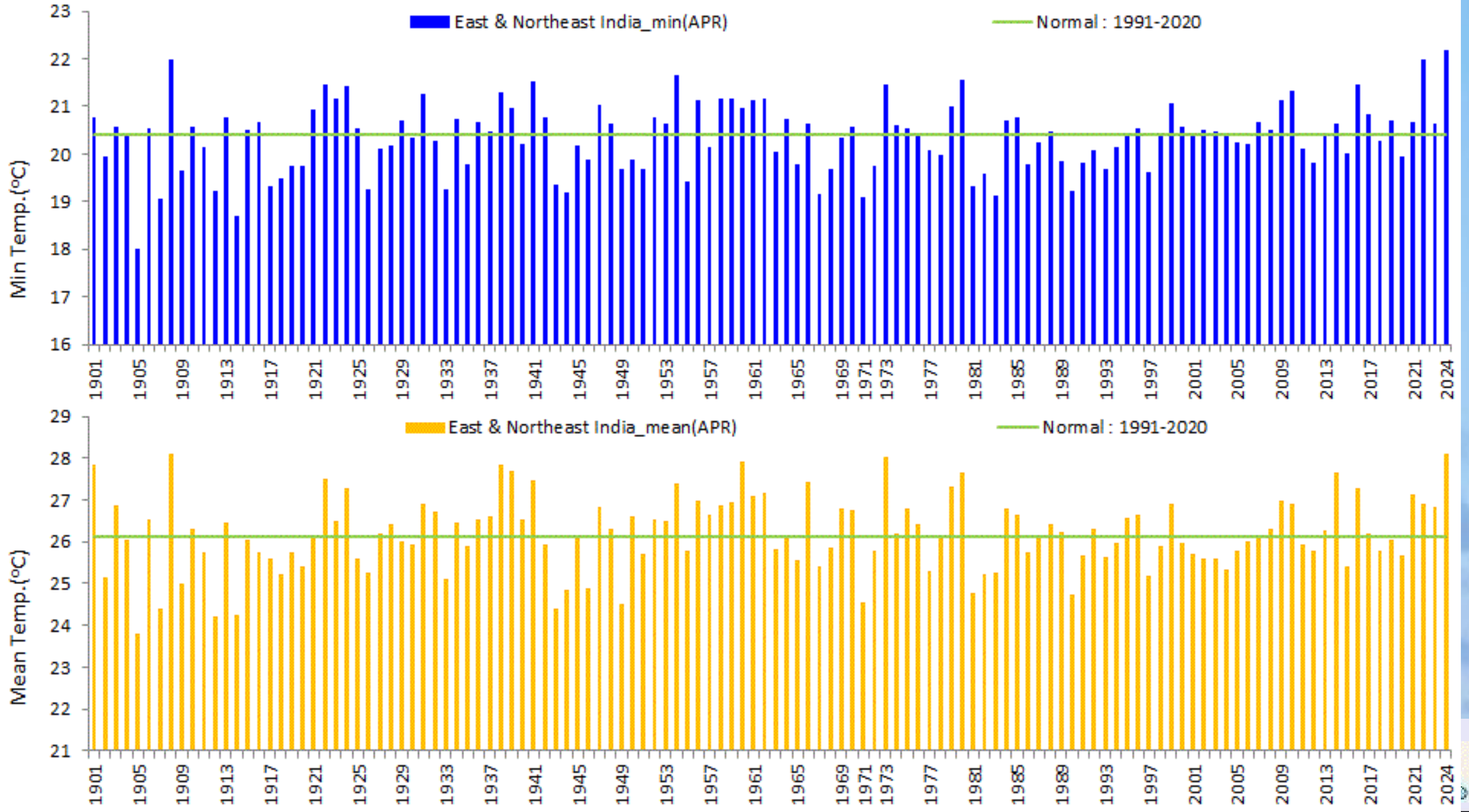
South Peninsular India (April 2024)				
Year	TMean	Normal	Anomaly	Rank
2016	31.68	30.16	1.52	1
2024	31.39		1.22	2
2017	31.12		0.96	3
1973	30.93		0.77	4
2019	30.87		0.71	5



Time series of monthly average maximum, average minimum and mean temperature over the South Peninsular India during April 1901-2024.



Time series of monthly average minimum and mean temperature over the East & Northeast India During April 1901-2024.



Disastrous Weather Events: April 2024

As per media reports 32 persons reportedly died in April 2024.

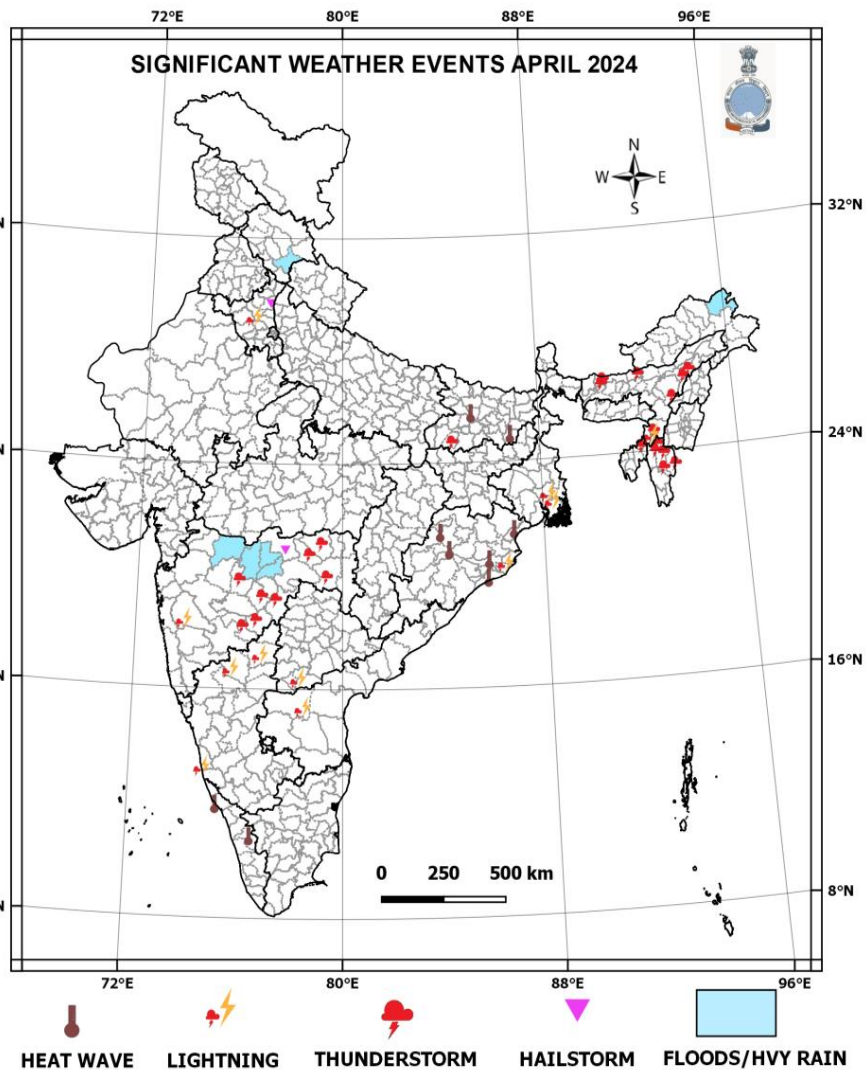
Hailstorm: Damage to crops, reported in Amaravati district of Maharashtra on 10 April and Karnal district of Haryana on 19 April.

Heavy Rains & Landslides: occurred on 25th April at Dibang valley district (Himachal Pradesh) and 10 April at Akola, Buldhana, Jalgaon, Washim (Maharashtra)

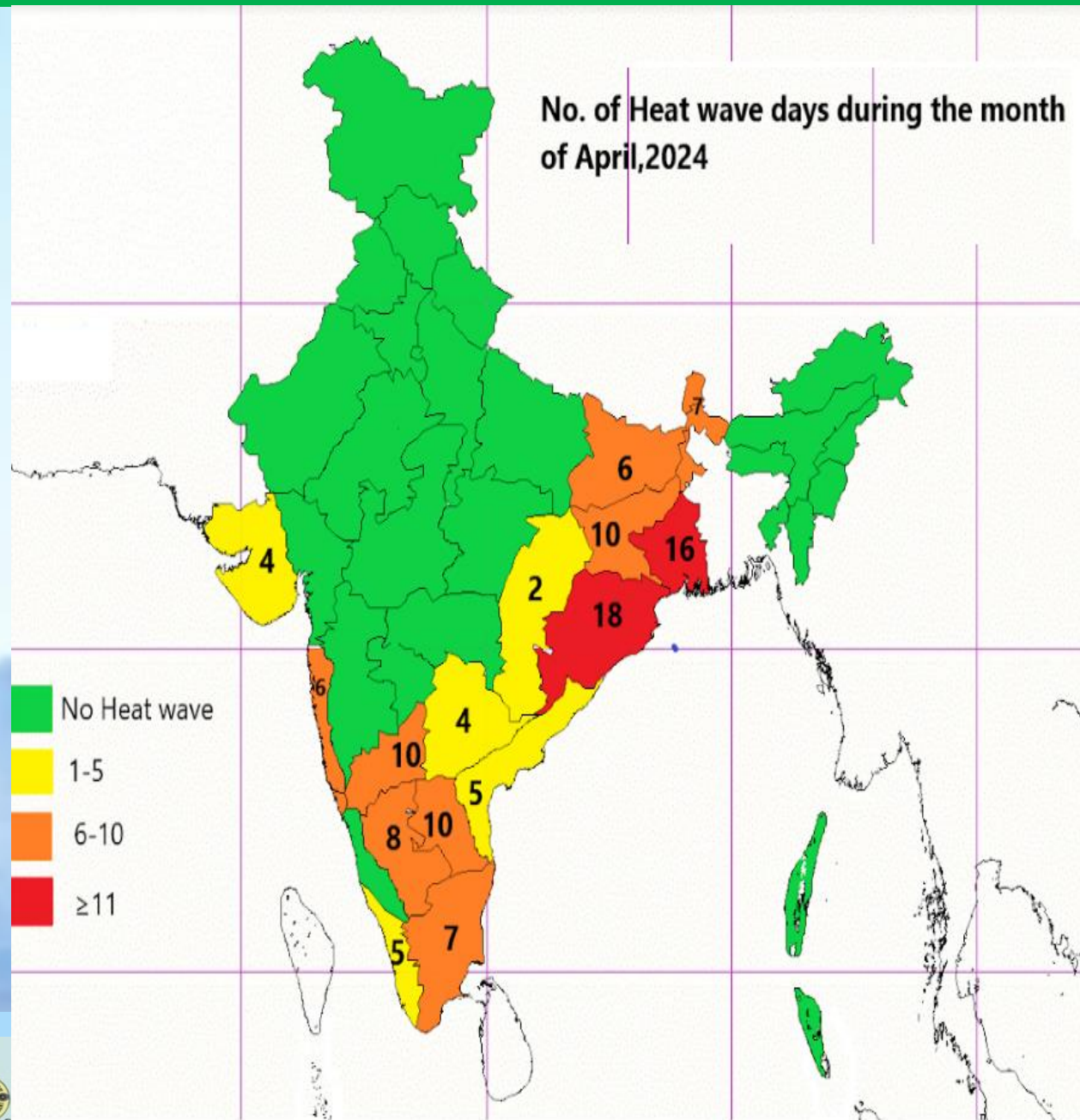
Heat Wave: Claimed death in Balasore, Boudh, Cuttack, Puri, Sambalpur (Odisha:5) on 14-15 April, Banka, Vaishali (Bihar:2) on 23-24 April and Kannur, Palakkad (Kerala: 2) on 28 April.

Lightning:

DATE	DEATH	LIVESTOCK	DISTRICT (STATE) AFFECTED
11, 20 Apr.	4		Bijapur/Vijayapura. Gulbarga/ Kalaburagi,Udupi(Karnataka)
16 Apr.	4		Kendrapara (Odisha)
1, 9, 17 Apr.	3		Hailakandi (Assam)
6 Apr.	2		Hooghly, North 24 Parganas(West Bengal)
19 Apr.	1	28	Nandyal (Andhra Pradesh)
24 Apr.	1		Jind (Haryana)
15 Apr.	1		Pune (Maharashtra)
12 Apr.	1		Nagarkurnool (Telangana)



Heat wave during April 2024

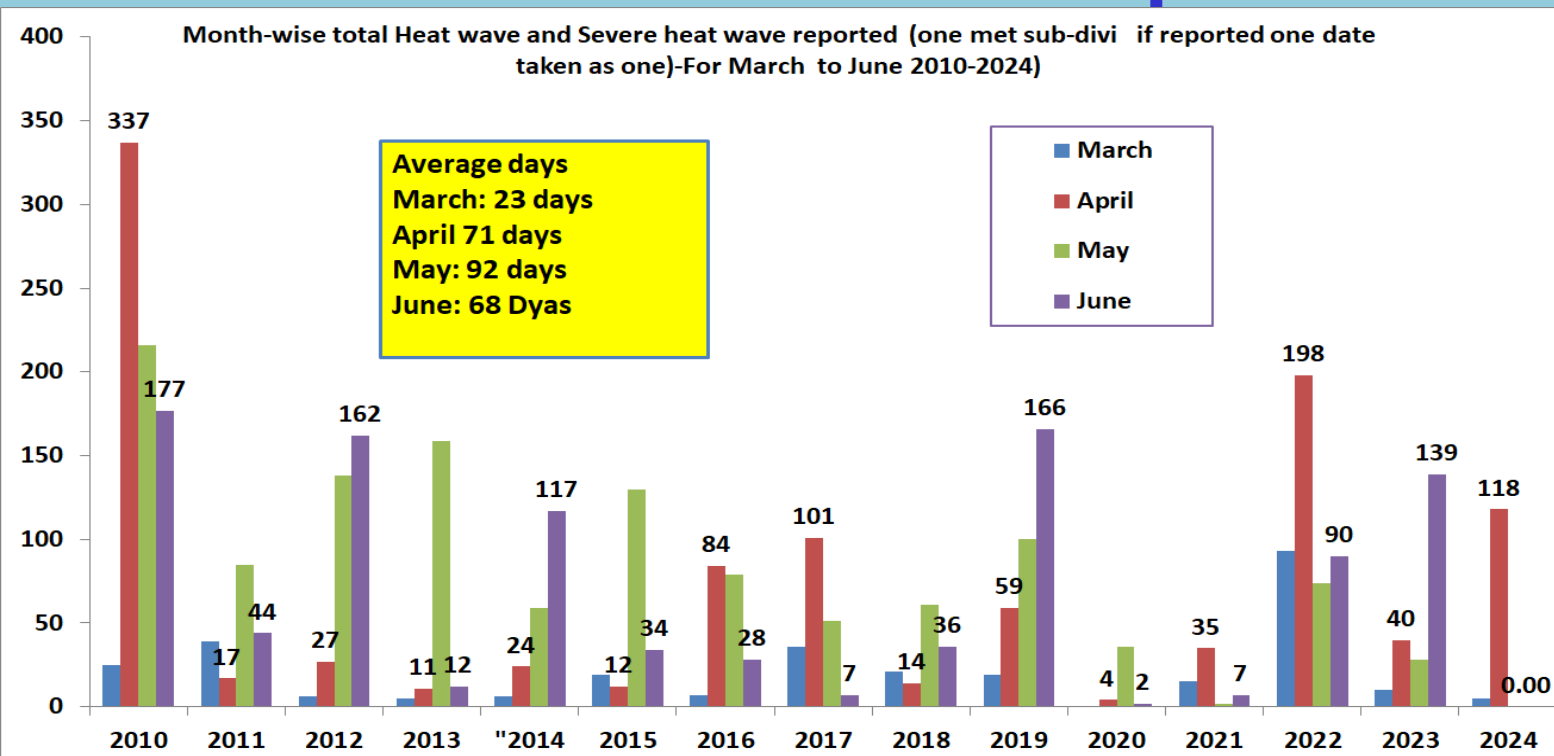


- No major heat wave in March 2024.
- Two spells of heat wave in April, 2024.
 - 5-7 April over eastern India, SE Peninsular
 - 15-30 April: Odisha and WB,
 - intensified and expanded to Bihar Jharkhand, Southeast Peninsular India and interior Karnataka from 24 April.

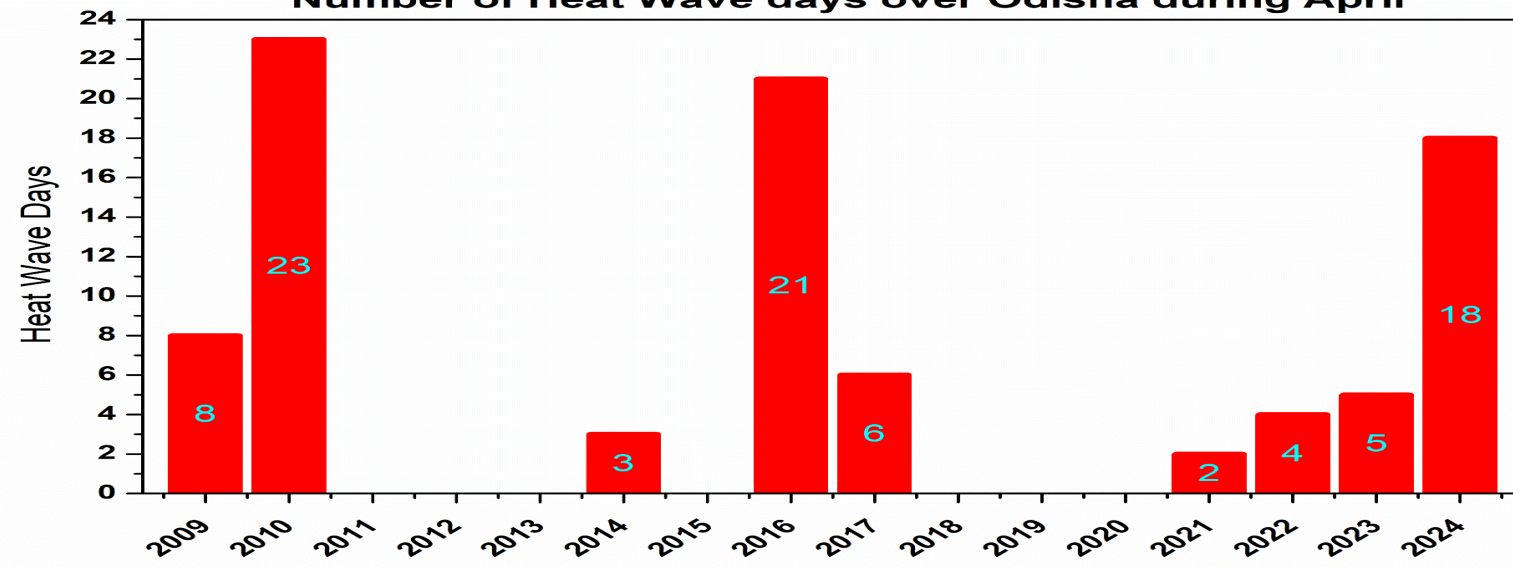
Reasons:

- Longer dry spell with absence of TS/Rain
- Anticyclone persisted in most dates at lower levels over west central Bay and adjoining eastern coasts of India.
- This caused Sea breeze Cut-Off over Odisha and West Bengal in most dates

Heat wave Statistics April 2024 and data since 2009



Number of Heat Wave days over Odisha during April



- Higher days of Heat wave to severe heat wave days over Eastern parts of India and southeast Peninsular India during April 2024
- Number of heat wave days in April 2024 is highest during 2010-2024(15 years) over GWB and highest over Odisha during 2017-2024(9-years)
- Longest spell in April- Odisha got longest spell in April 2024 during 15-30 April(16 days), after April 2016 when it prevailed during 9-30 April 2016(21 days)

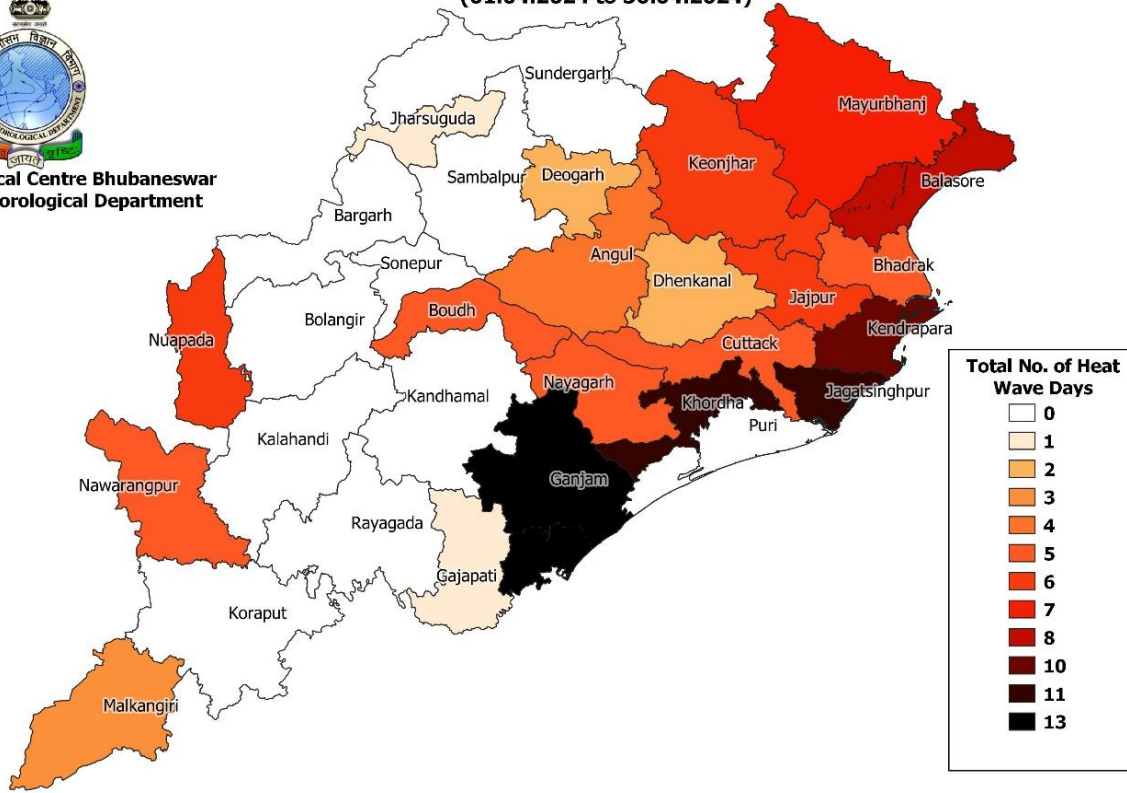


Heat wave Statistics April 2024 –Odsiha



Heat Wave Days (01.04.2024 to 30.04.2024)

Meteorological Centre Bhubaneswar
India Meteorological Department



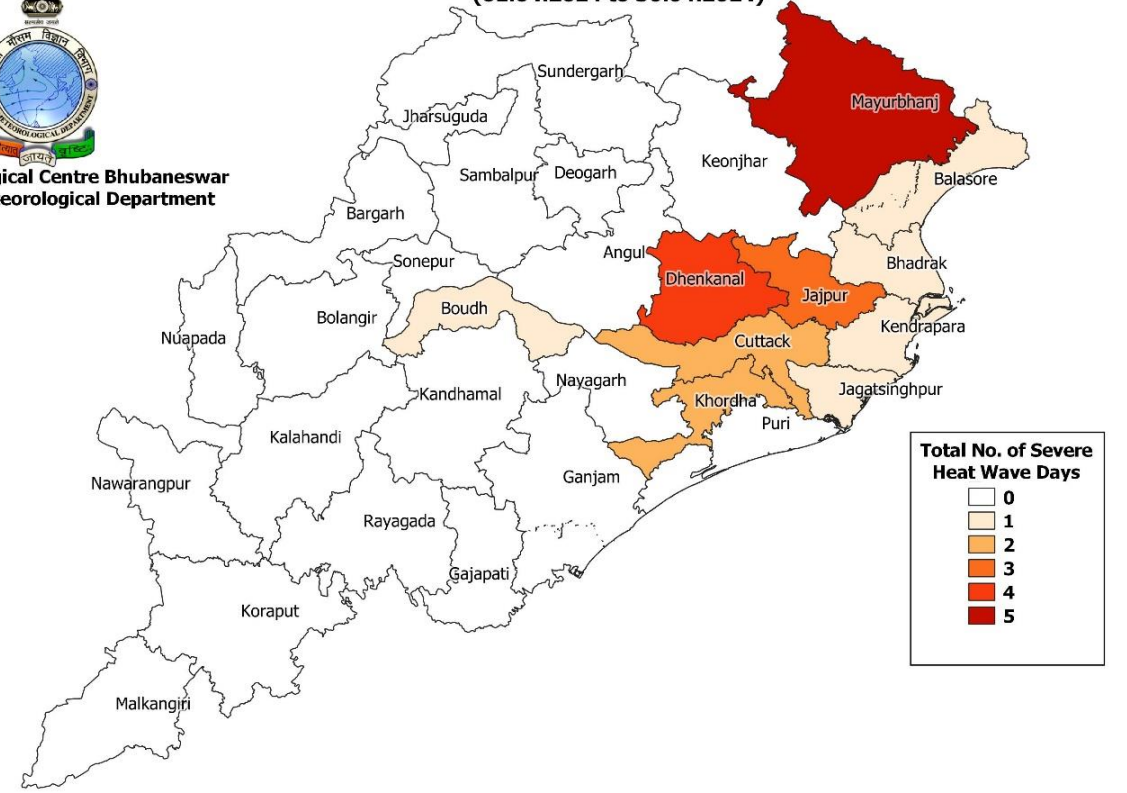
Meteorological Centre Bhubaneswar

Date: 01/05/2024



Severe Heat Wave Days (01.04.2024 to 30.04.2024)

Meteorological Centre Bhubaneswar
India Meteorological Department



Meteorological Centre Bhubaneswar

Date: 01/05/2024



Major synoptic features and Significant weather in April 2024:

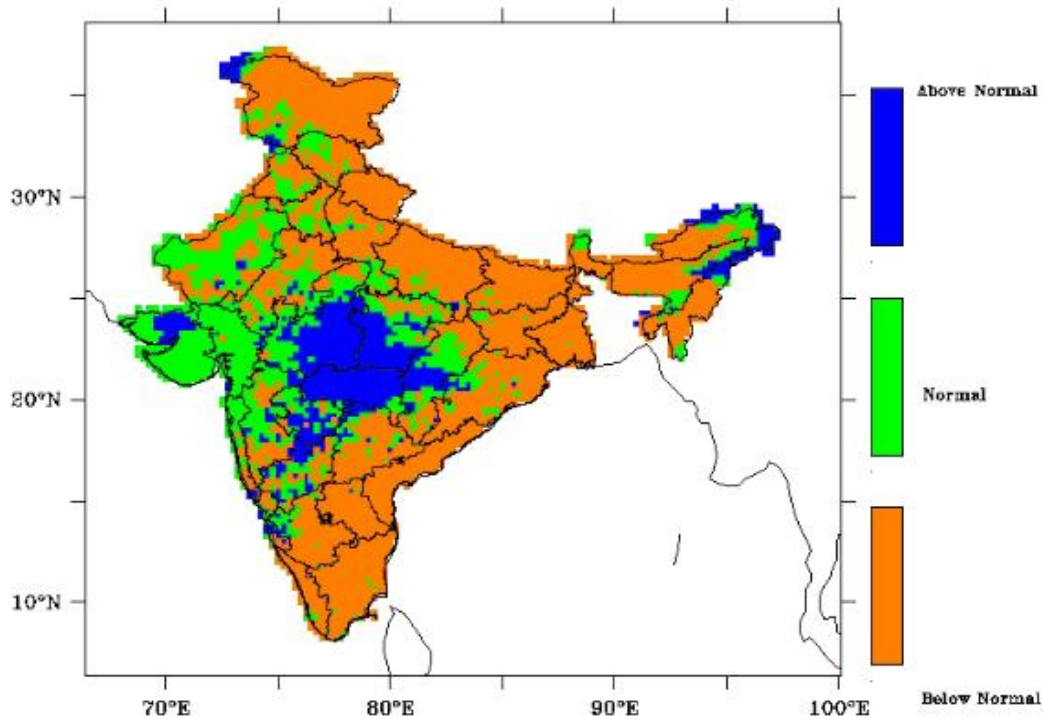
- No heat waves over north & central India during April 2024 due to WDs moved from far west
- ✓ 5 active WDs (1-8, 9-12, 11-17, 17-21, 24-29 April). 4 of them were very slow moving.
- ✓ Caused Rain/snow over western Himalayan states (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand) and adjoining plains of India for 2-4 days. Isolated heavy rain/snow also reported for 3-5 days in the month.
- ✓ Most active WD moved from Iran to Pakistan during 11-17 April, leading to unusual heavy rain spell during 15-17 April and associated flash floods occurred over Dubai-Oman, Afghanistan.
- ✓ They caused rain/TS and hail storm over plains of north and central India at regular intervals.
- Higher days of Heat wave days over Eastern India and southeast Peninsular India during April 2024
- Longer dry spell with absence of TS/Rain
- Anticyclone persisted in most dates at lower levels over west central Bay and adjoining eastern coasts of India.
- This caused Sea breeze Cut-Off over Odisha and West Bengal in most dates
- ✓ Many areas of west coast Kerala to Konkan including Mumbai experienced hot and humid weather.
- lower level winds with moisture incursions from north Bay of Bengal, caused heavy rainfall over Arunachal Pradesh, Assam & Tripura during some dates in the month



Verification of April 2024 Rainfall forecast

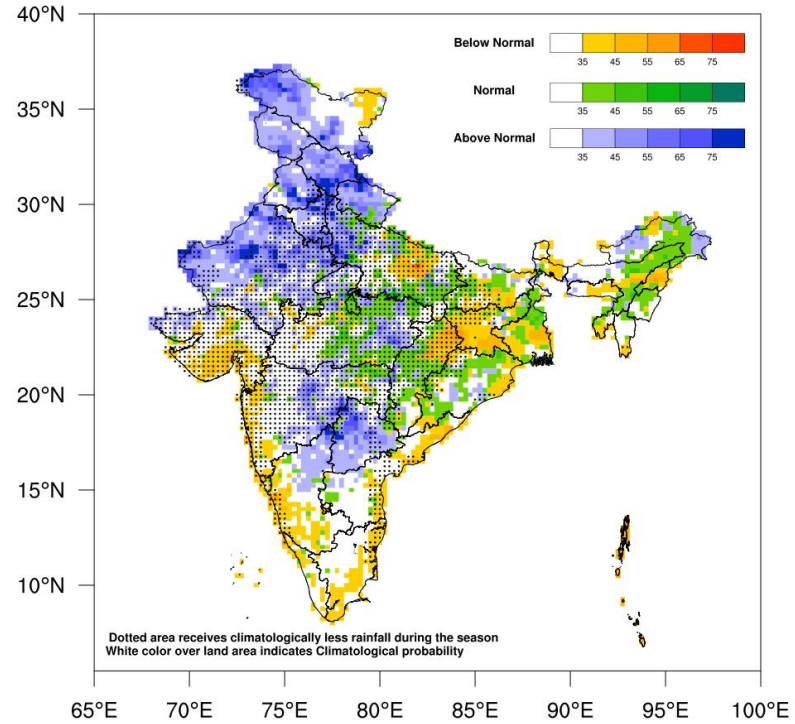
Observed Rainfall Category

Observed Rainfall Category
Year 2024 (APR)



Rainfall forecast for April 2024 issued on 1st April 2024

probability rainfall forecast for 2024 APR



- ❖ Normal to above normal rainfall was experienced over Central India and adjoining areas of northwest and peninsular India and some parts of northeast India. Below normal rainfall was observed over other parts of the country.

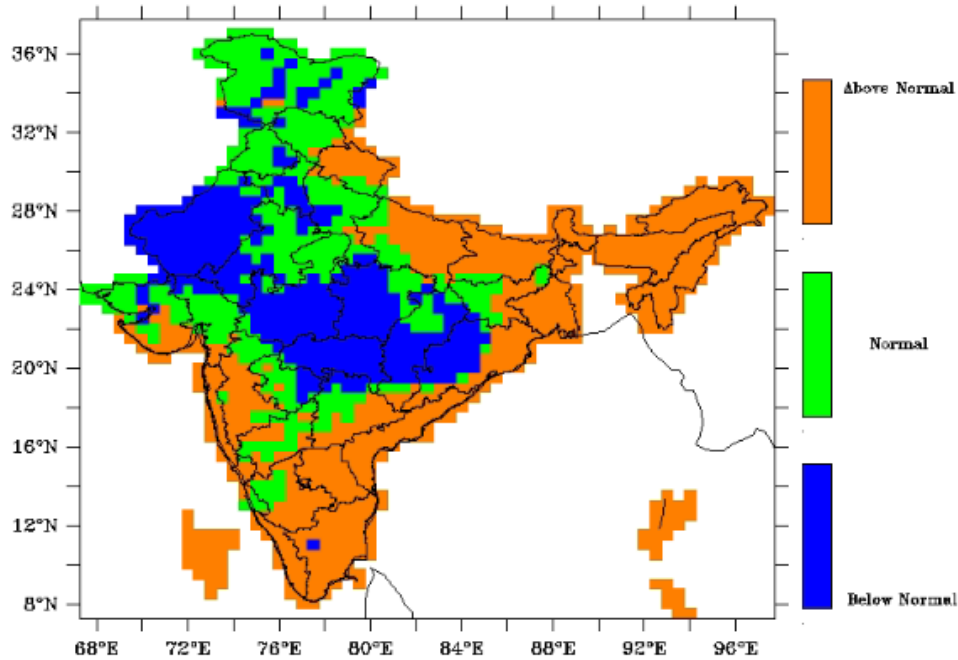


Verification of April 2024 Temperature (Tmax) forecast

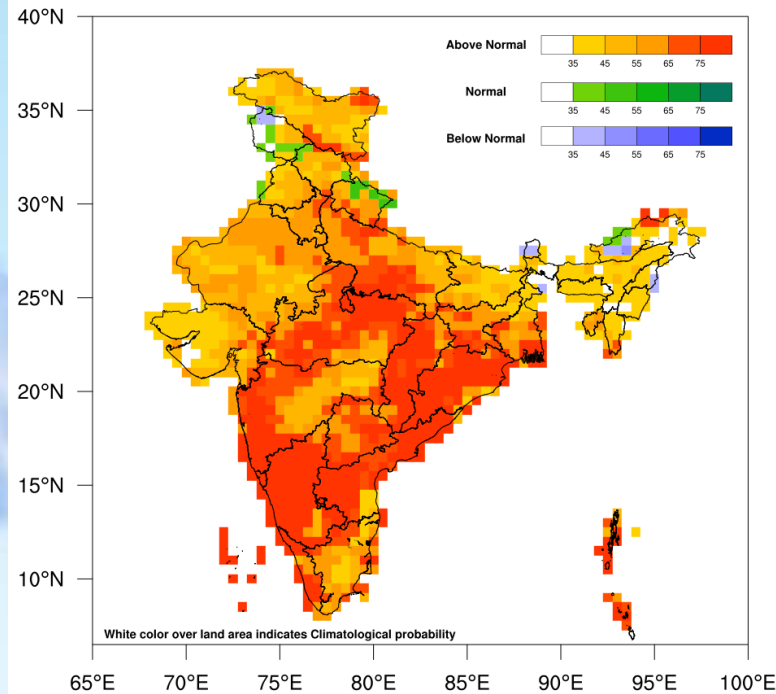
Maximum Temperature forecast for April 2024 issued on 1st April 2024)

Observed Temperature (Tmax) Category

Observed Tmax Category
Year 2024 (APR)



Maximum Temperature Outlook for April 2024



- ❖ Below normal Maximum Temperature was experienced over most parts of Northwest and central India. Above normal Maximum temperature observed over remaining areas of the country.
- ❖ Maximum temperature probability forecast could not predict below normal maximum temperature over Northwest and central India.

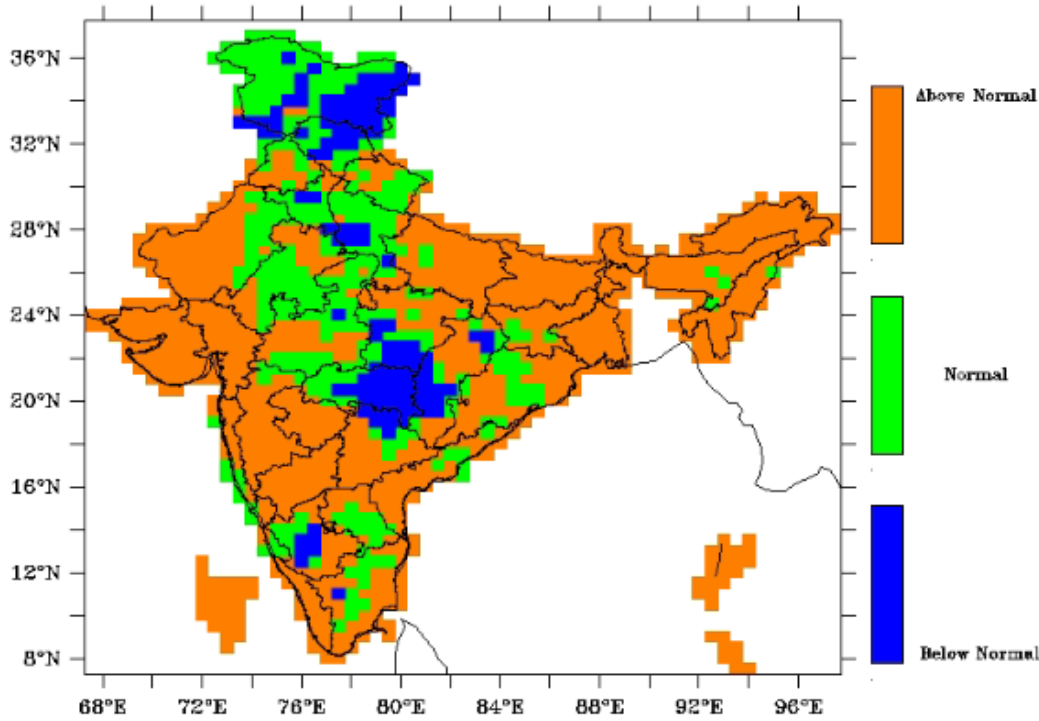


Verification of April 2024 Temperature (Tmin) forecast

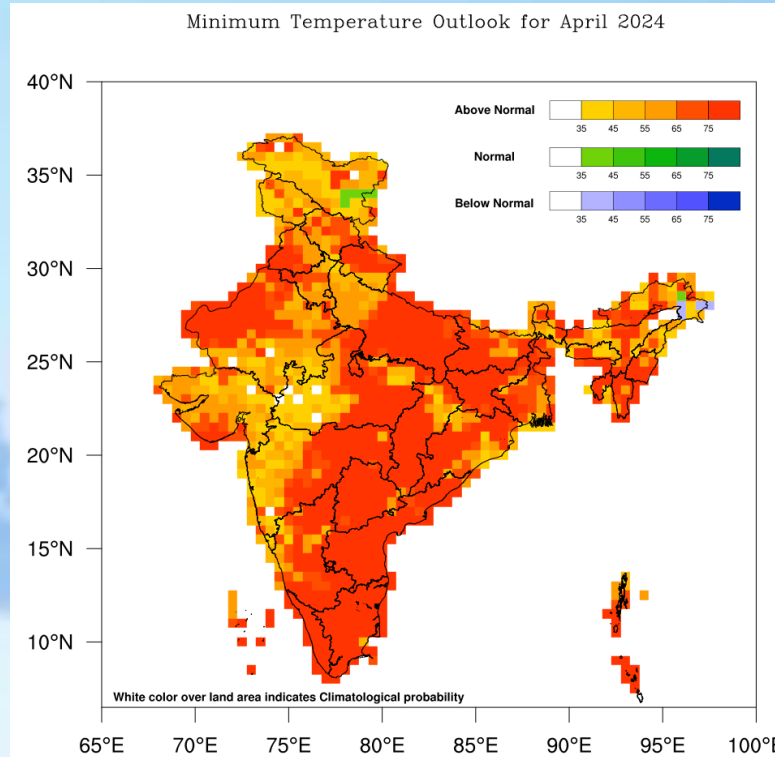
Observed Temperature (Tmin) Category

Minimum Temperature forecast for April 2024 issued on 1st April 2024

Observed Tmin Category
Year 2024 (APR)



Minimum Temperature Outlook for April 2024

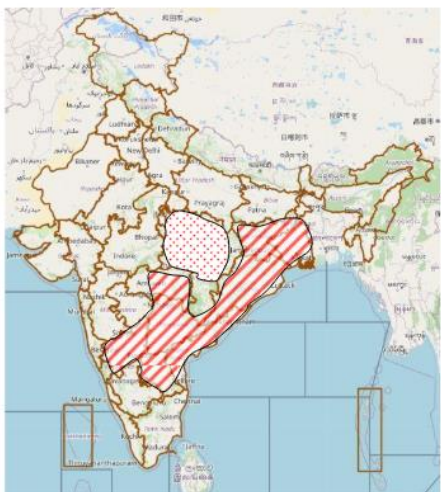


- ❖ Above Normal Minimum Temperature was experienced over most parts of country except some regions over Central, Northwest and peninsular India where below normal minimum temperature was observed.
- ❖ Below normal minimum temperature over some regions over Central, Northwest and peninsular India could not be predicted well.

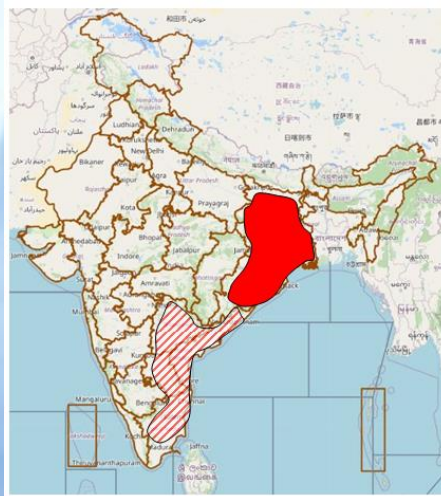


Forecast for week 1 and realised heat waves during the week

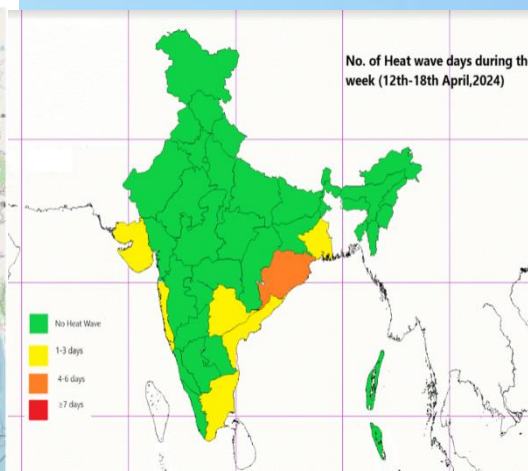
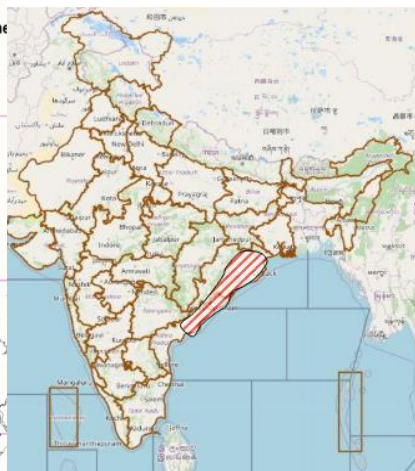
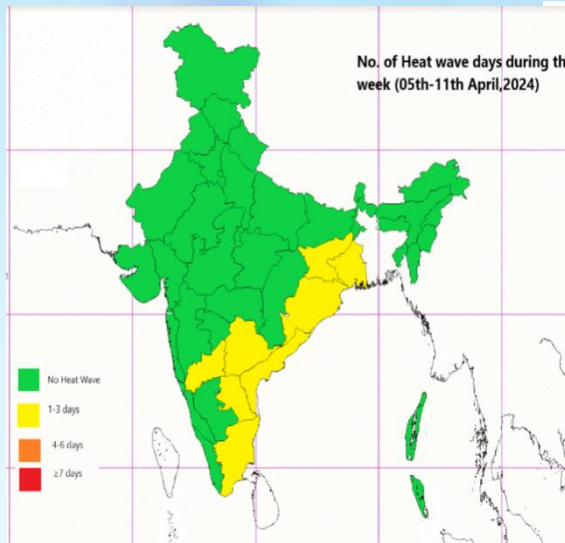
Week 1: 05.04.2024 - 11.04.2024



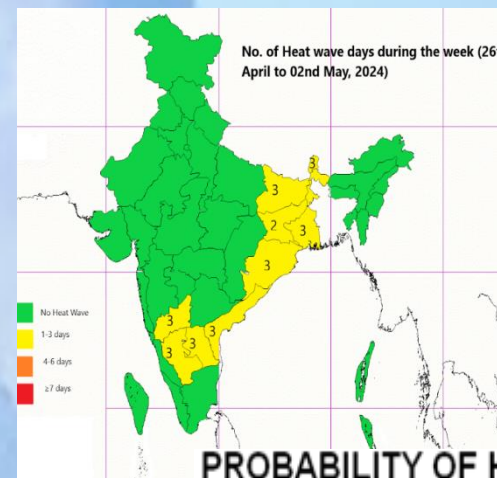
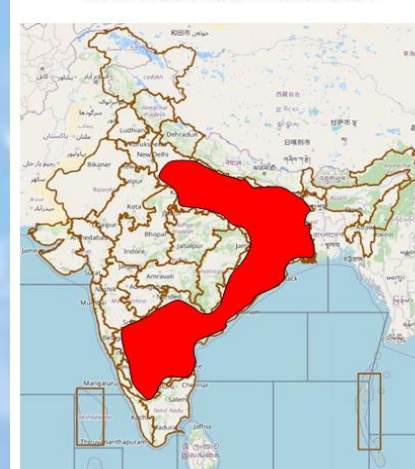
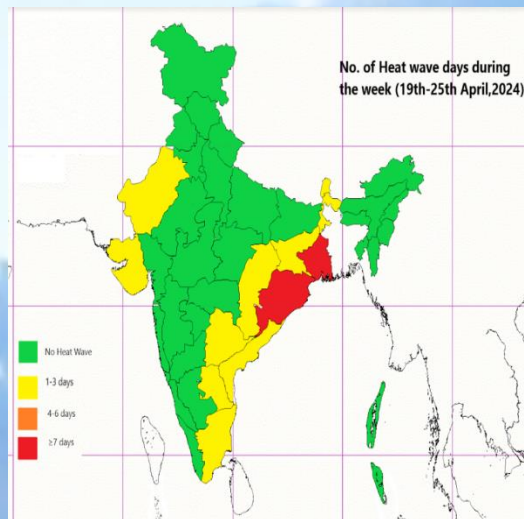
Week 1: 19.04.2024 - 25.04.2024



Week 1: 12.04.2024 - 18.04.2024



Week 1: 26.04.2024 - 02.05.2024

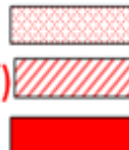


PROBABILITY OF HEATWAVE CONFIDENCE

LOW (1-33% PROBABILITY)

MODERATE (34-67% PROBABILITY)

HIGH (68-100% PROBABILITY)

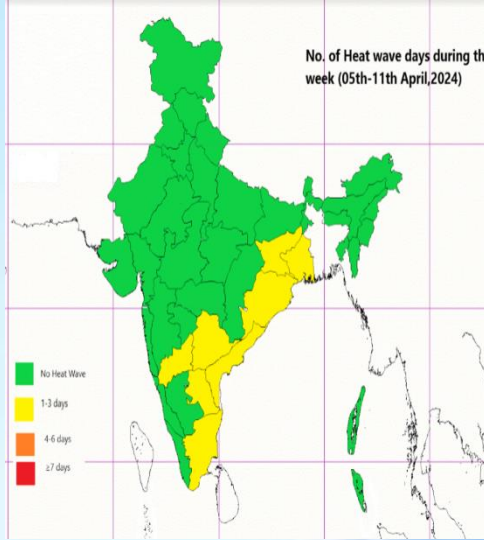


Forecast for week 2 and realised heat waves during the week

Week2: 05.04.2024 - 11.04.2024



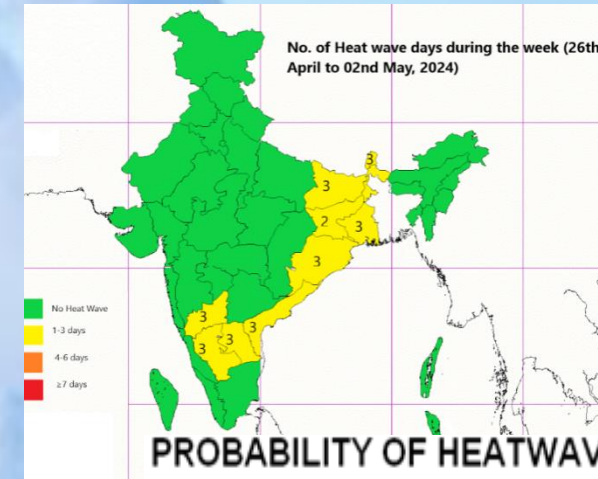
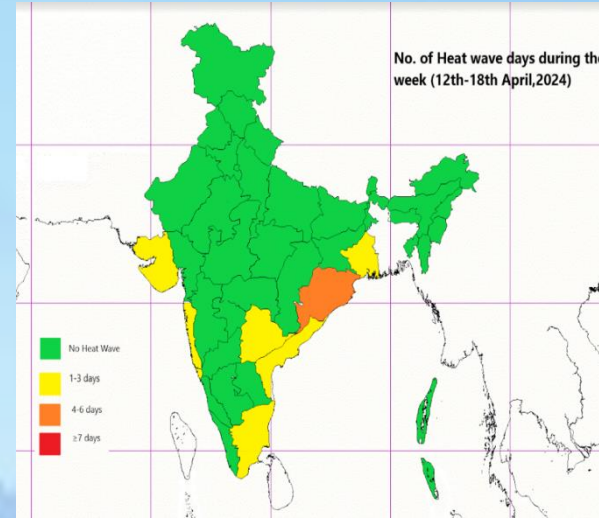
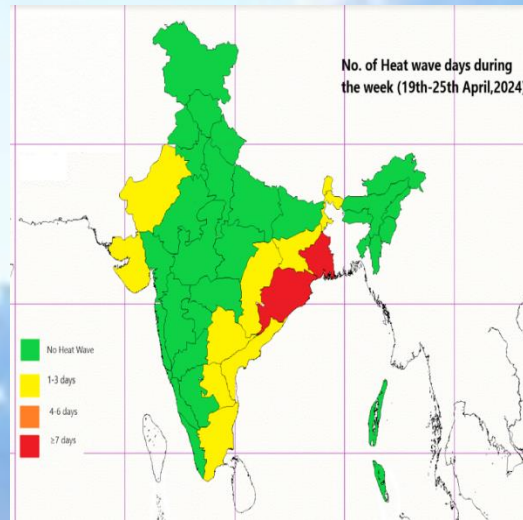
Week 2: 19.04.2024 - 25.04.2024



Week2: 12.04.2024 - 18.04.2024



Week 2: 26.04.2024 - 02.05.2024



PROBABILITY OF HEATWAVE CONFIDENCE

LOW (1-33% PROBABILITY)

MODERATE (34-67% PROBABILITY)

HIGH (68-100% PROBABILITY)



Heat Wave warning issued in April 2024

- Heat Wave Warning for Heat Wave Spell 1 was provided 4-5 days in advance for different Meteorological Subdivisions.
- Heat Wave Warnings for Heat Wave Spell 2, which started over Odisha on 15th April was first provided on 11th April 2024 (5 days in advance). Severe Heat Wave Warning with **Orange Colour** was issued on 17th April for East India and **Red Colour** Warning was first issued on 21st April 2024.

Heat Wave Spell1 during 1st Week of April

Heat Wave Spell2 from 15th April onwards

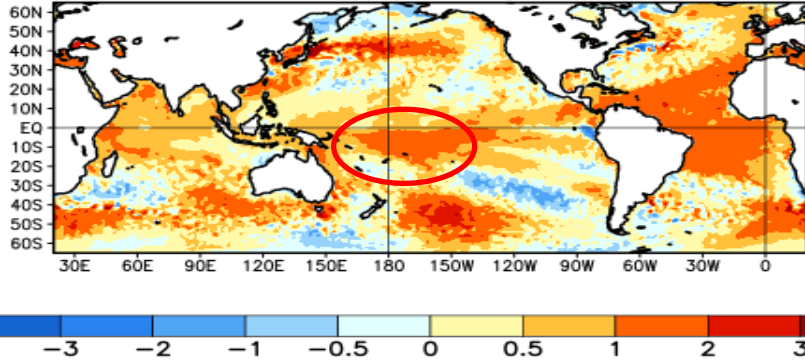
	1	2	3	4	5	6	7	8		15	16	17	18	19	20	21	22	23	24	25	26	27	28	
SHWB & Sikkim						DATES			SHWB & Sikkim								HW	SHW	SHW	HW	HW		HW	
Gangetic West Bengal					HW	HW			Gangetic West Bengal		HW	HW	HW	SHW	SHW	SHW	SHW	SHW	SHW	SHW	SHW	SHW	SHW	SHW
Odisha					SHW	HW			Odisha	HW	HW	HW	HW	HW	HW	HW	HW	SHW	HW	HW	HW	SHW	SHW	
Jharkhand					HW	HW			Jharkhand							HW				HW	HW			
Bihar									Bihar						HW	HW			HW	HW	HW		SHW	
Saurashtra & Kutch									Saurashtra & Kutch		SHW	SHW	HW											
Konkan & Goa									Konkan & Goa		HW												HW	
Chhattisgarh									Chhattisgarh						HW									
Coastal Andhra Pradesh				HW			HW	SHW	Coastal Andhra Pradesh										HW	HW				
Telangana							HW	HW	Telangana				HW	HW									HW	
Rayalaseema				HW			HW	HW	Rayalaseema				HW					HW	HW		HW		HW	
Tamilnadu & Puducherry							HW	HW	Tamilnadu & Puducherry					HW			HW							
Coastal Karnataka									Coastal Karnataka								HW							
North Interior Karnataka	HW	HW	HW	HW			HW	HW	North Interior Karnataka								HW	HW	HW	HW	HW			
South Interior Karnataka									South Interior Karnataka								HW	HW	HW	HW	HW			
Kerala									Kerala												HW	HW		

SHW -> Severe Heat Wave & HW Heat Wave



Latest Global SST Departures (°C) and ENSO Conditions over Pacific

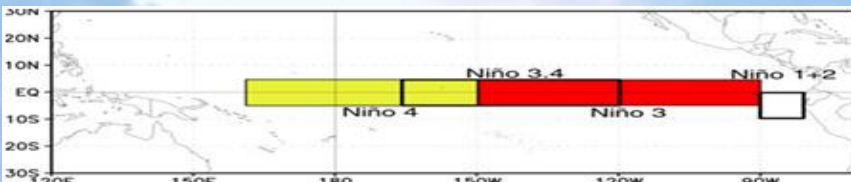
Average SST Anomalies
24 MAR 2024 – 20 APR 2024



The latest weekly SST departures are:

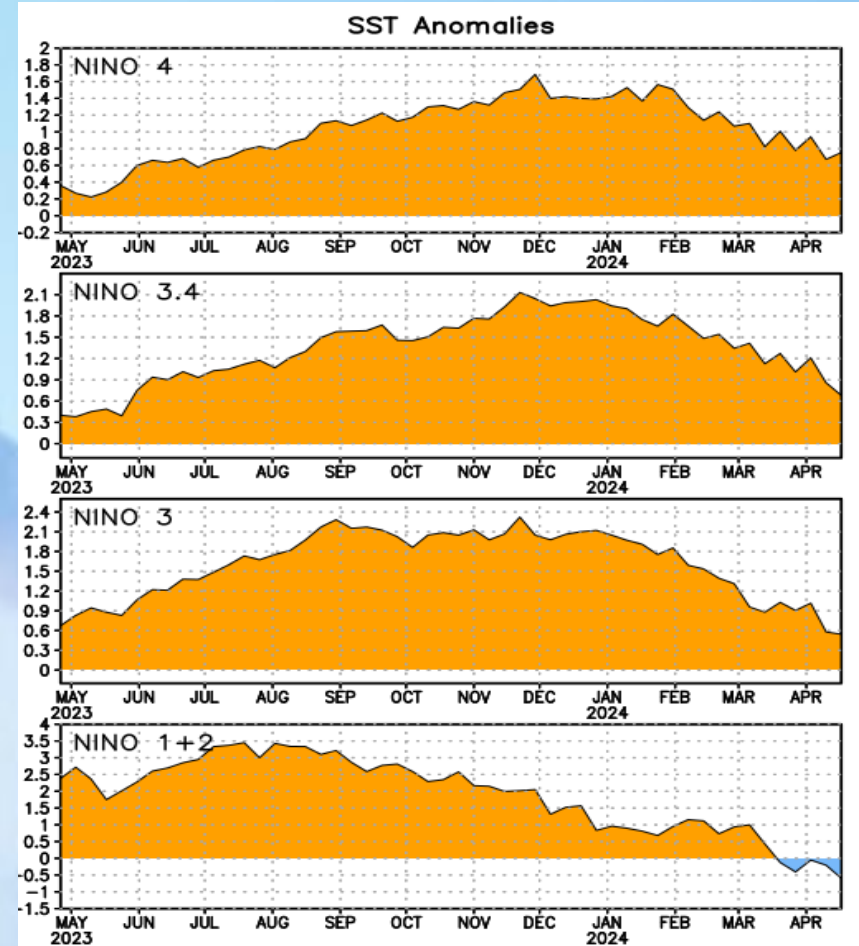
Niño 4	0.8°C
Niño 3.4	0.7°C
Niño 3	0.5°C
Niño 1+2	-0.6°C

Data source
CPC, USA



Recent evolution of NINO SSTs

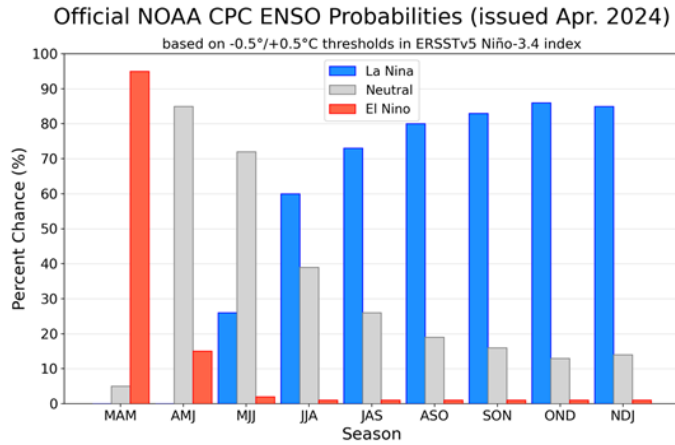
Data source
CPC, USA



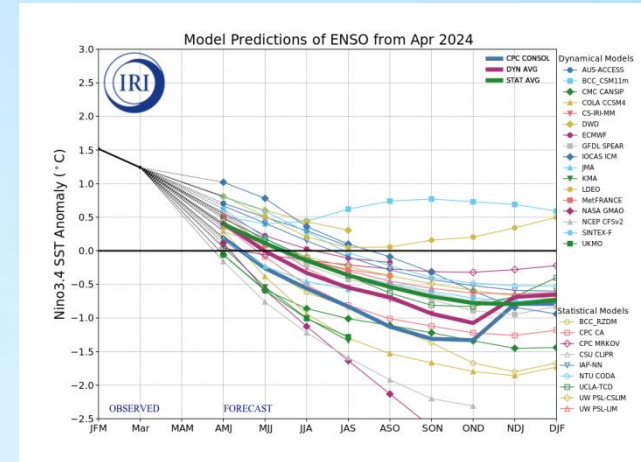
Equatorial SSTs were above average across most of the Pacific Ocean, most of the Indian Ocean, and the Atlantic Ocean.



Latest ENSO & IOD Forecast : April 2024



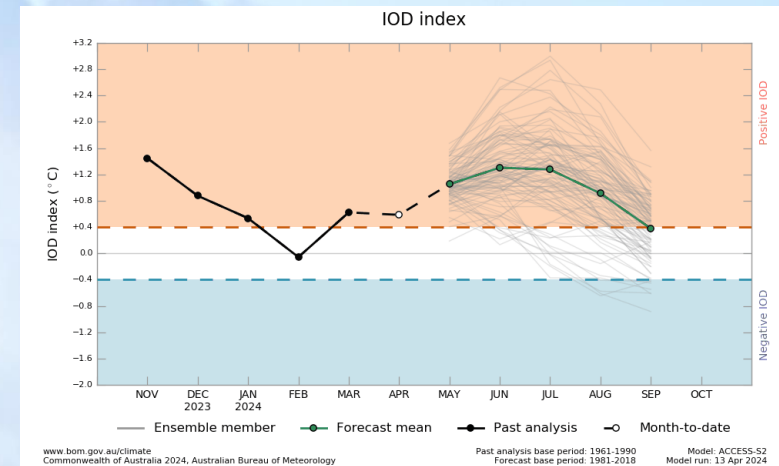
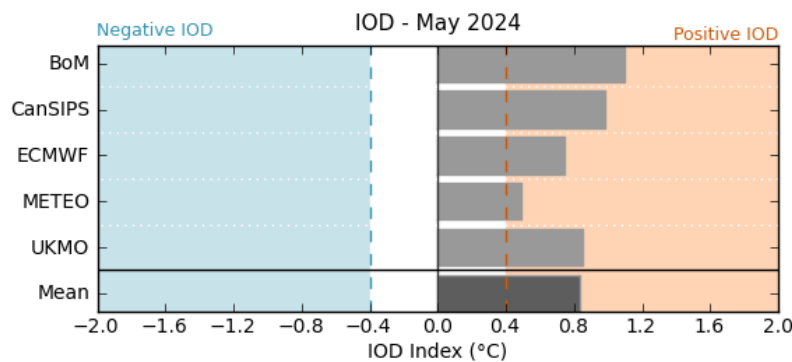
ENSO



A majority of models indicate La Niña is likely to develop during 2024 monsoon season.

El Niño is expected to persist through the Northern Hemisphere early summer 2024. A transition from El Niño to ENSO-neutral is likely by April-June 2024 (83% chance), with increasing odds of La Niña developing in June-August 2024 (62% chance).

IOD



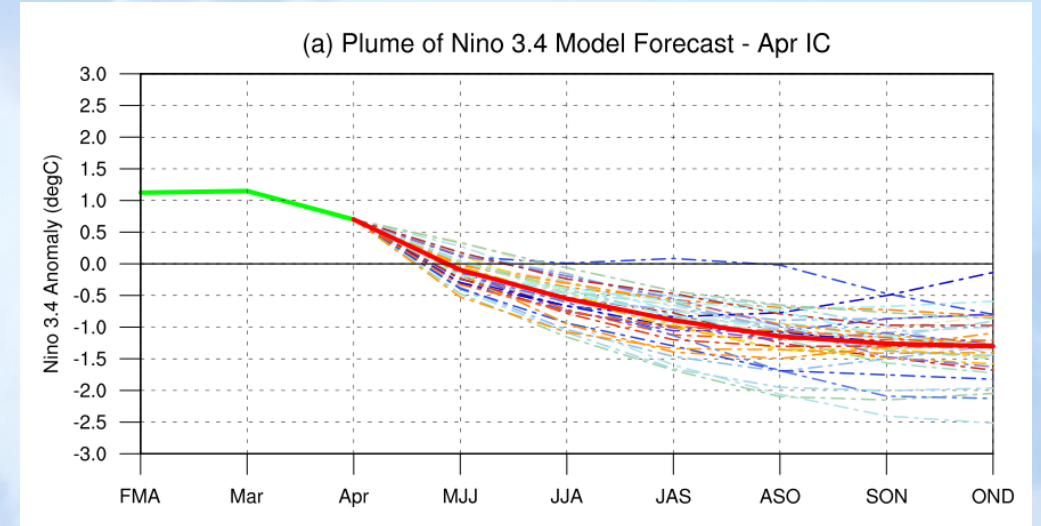
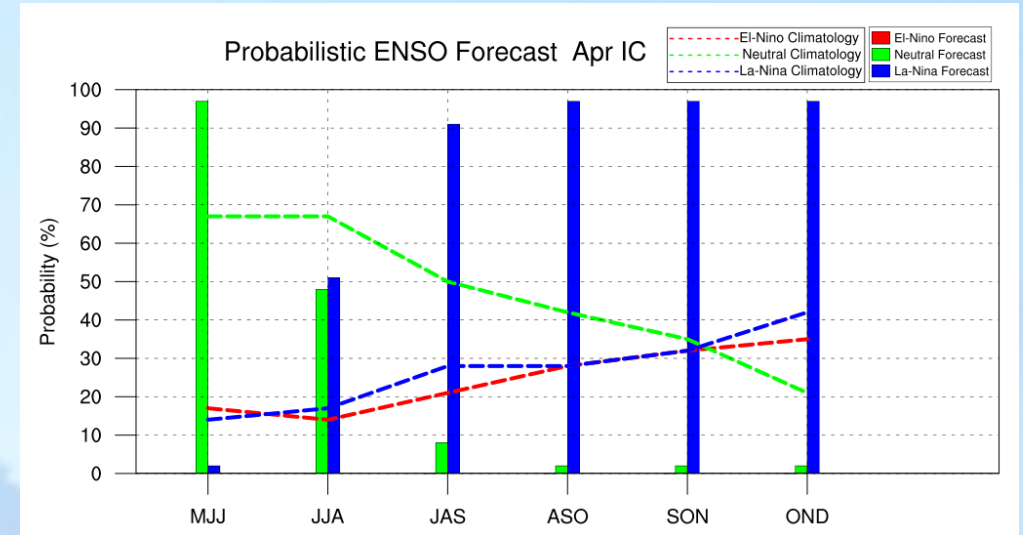
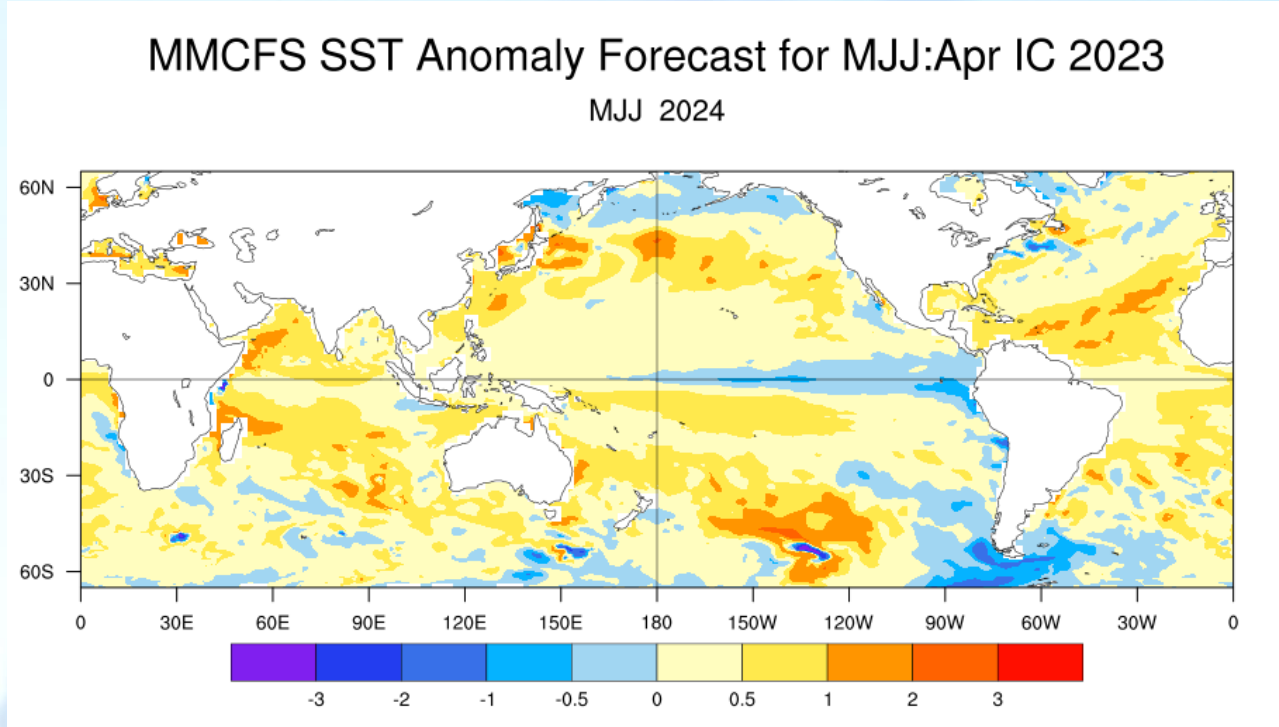
Bureau of Meteorology model indicate development of positive IOD conditions.

Many models indicate prevailing neutral IOD conditions likely to turn into positive IOD conditions.



ENSO Forecast: April 2024

MMCFs Forecast: April IC

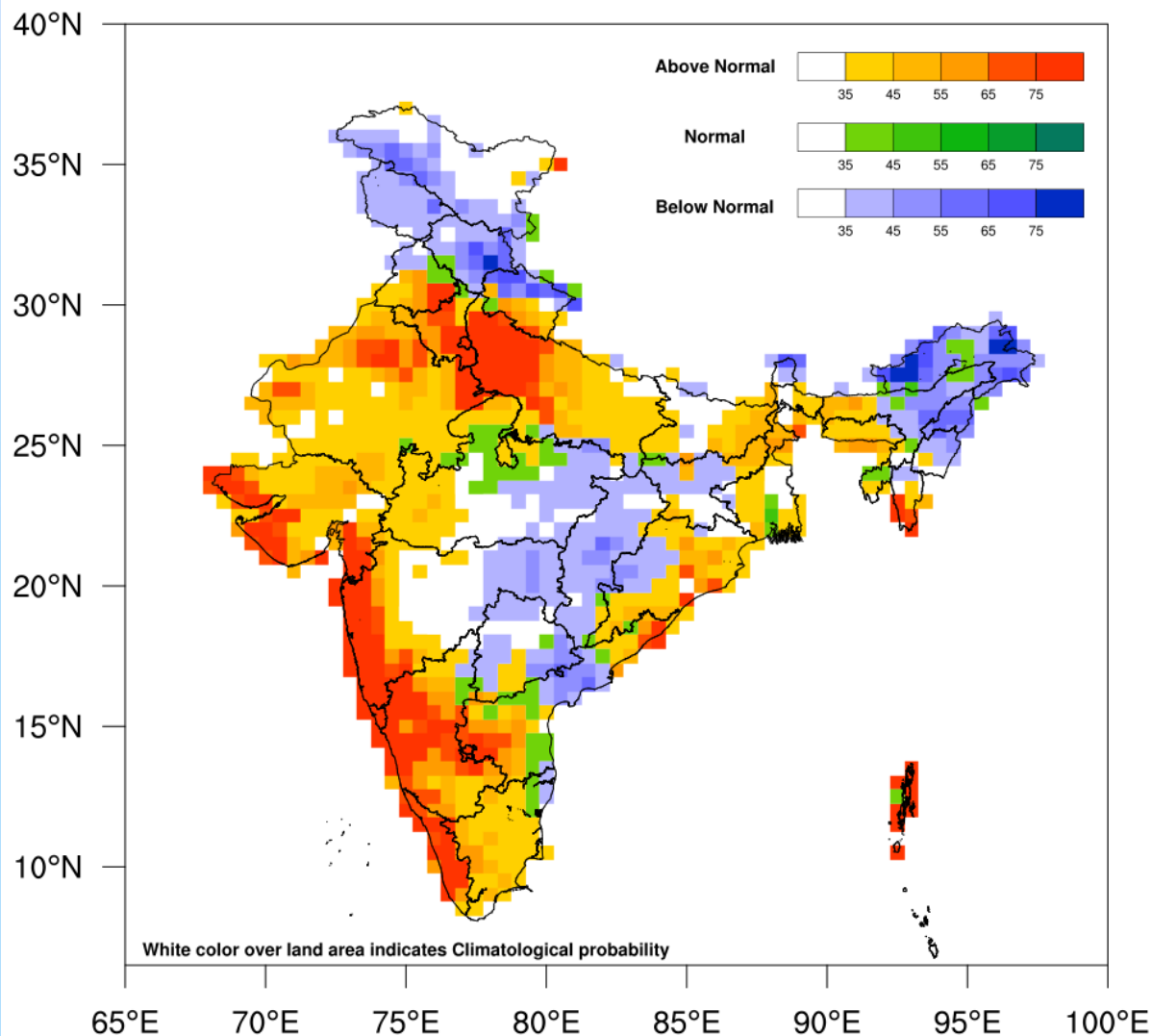


The latest MMCFs forecast indicates El Niño conditions likely to weaken gradually.



Probabilistic Forecast for the Maximum Temperature for May 2024

Maximum Temperature Outlook for May 2024

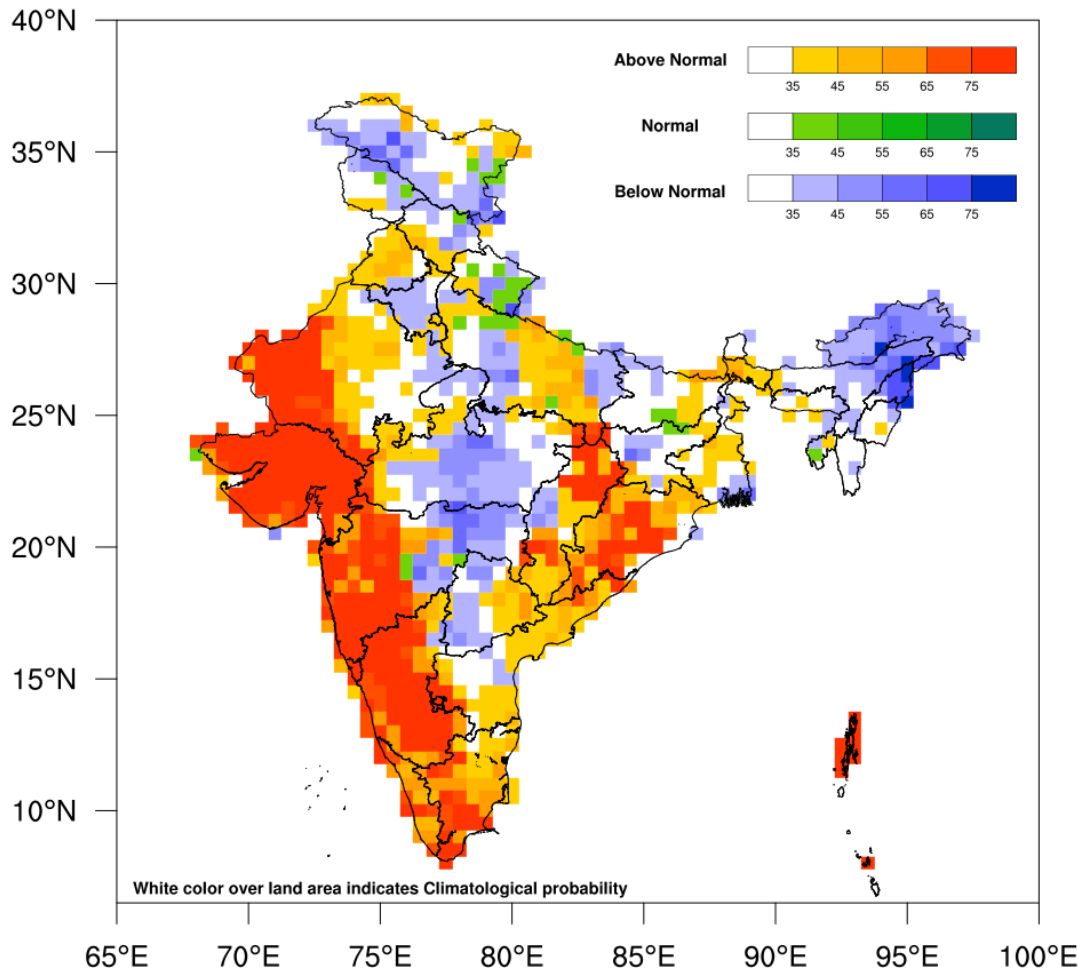


- Above normal maximum temperatures are likely over most parts of the country except most parts of northeast India, some parts of northwest and central India and adjoining areas of northeast peninsular India where normal to below normal maximum temperatures are likely
- There is no forecasting signal by the model over the white shaded regions of the country



Probabilistic Forecast for the Minimum Temperature May 2024

Minimum Temperature Outlook for May 2024

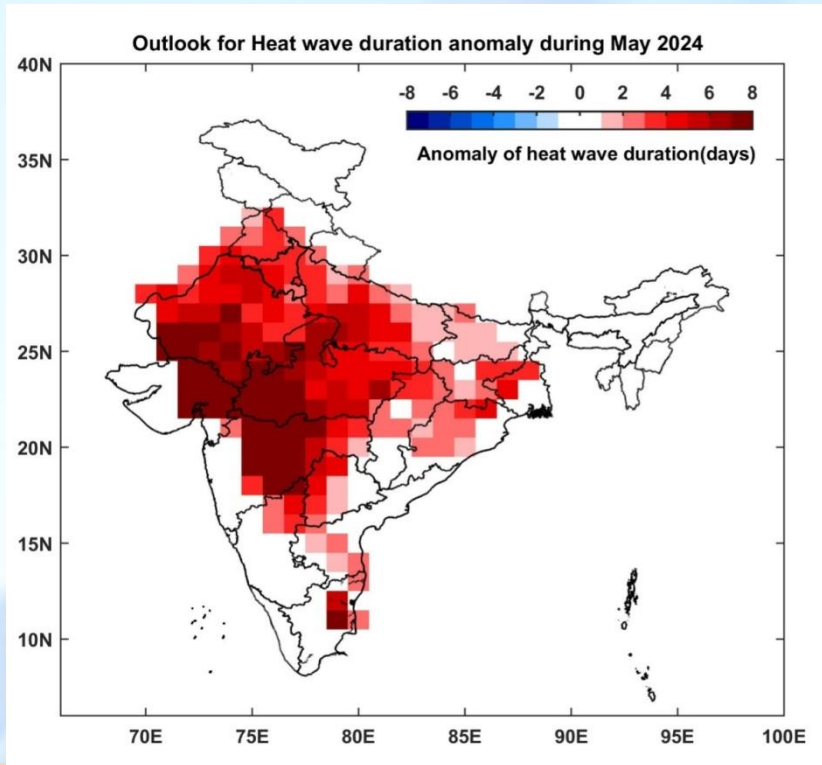


- Above-normal minimum temperatures are likely over most parts of the country except some areas of northwest India, the Indo-Gangetic plains, central India, and most parts of northeast India where normal to below-normal minimum temperatures are likely.
- There is no forecasting signal by the model over the white shaded regions of the country

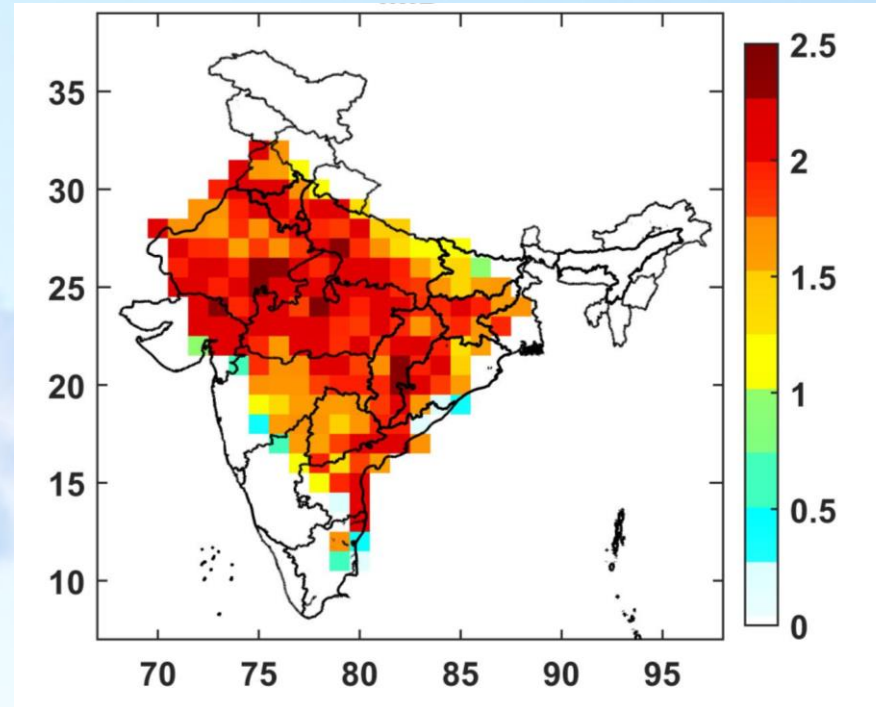


Heatwave outlook for May 2024

Heatwave outlook for May 2024



Climatology of Heat Wave days per year in May based on data of 1993-2016



- Normally heat wave prevails over northern plains, central India and adjoining areas of peninsular India for about 3 days in May.
- Number of heatwave days is likely to be above normal by about
 - 5-8 days over south Rajasthan, west Madhya Pradesh, Vidarbha, Marathwada and Gujarat region and
 - 2-4 days over remaining parts of Rajasthan, east Madhya Pradesh, Punjab, Haryana, Chandigarh, Delhi, Uttar Pradesh and some parts of Chhattishgarh, interior Odisha, Gangetic West Bengal, Jharkhand, Bihar, north interior Karnataka and Telangana and isolated pockets of north Tamil Nadu, Andhra Pradesh.

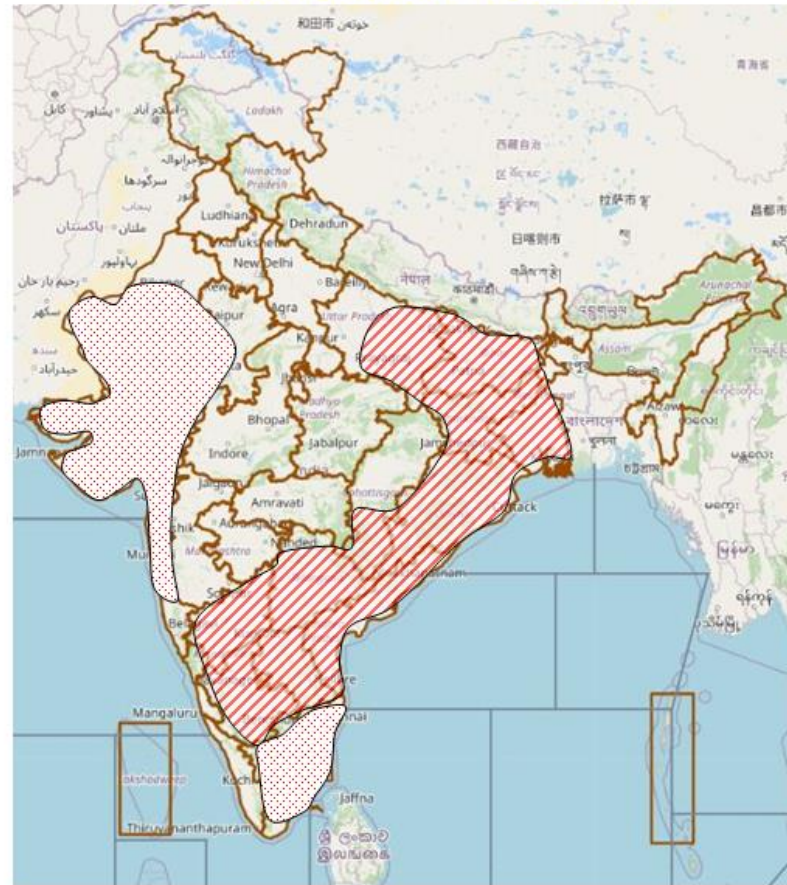
Extended Range Outlook for Heat Wave for week 1 (26 April-2 May) and Week 2 (3 May- 9 May 2024)

EXTENDED RANGE OUTLOOK FOR HEATWAVE

Week 1: 26.04.2024 - 02.05.2024



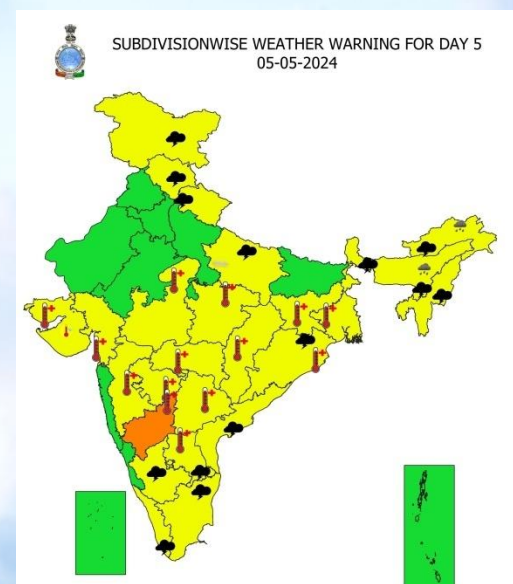
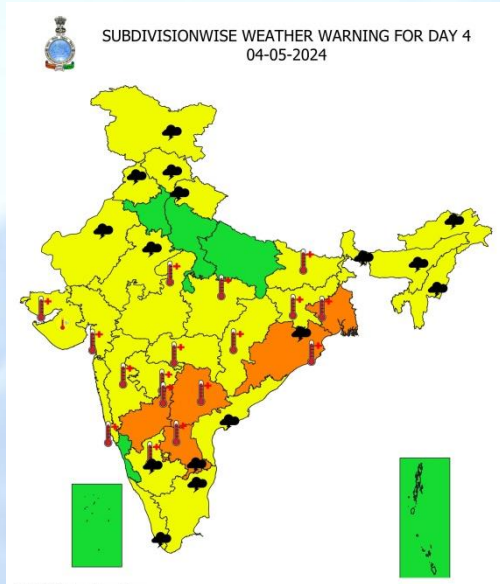
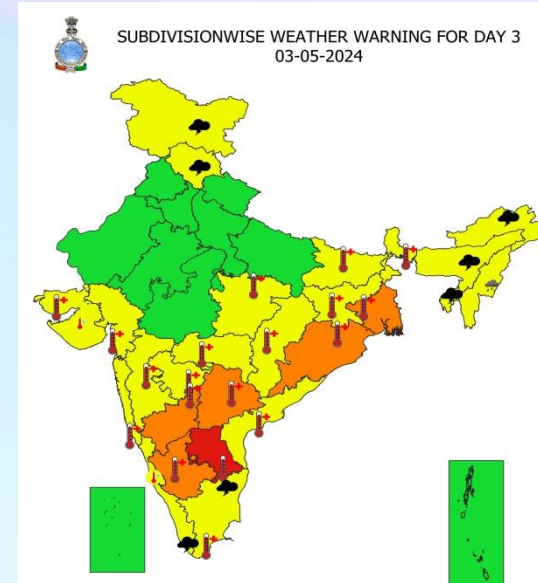
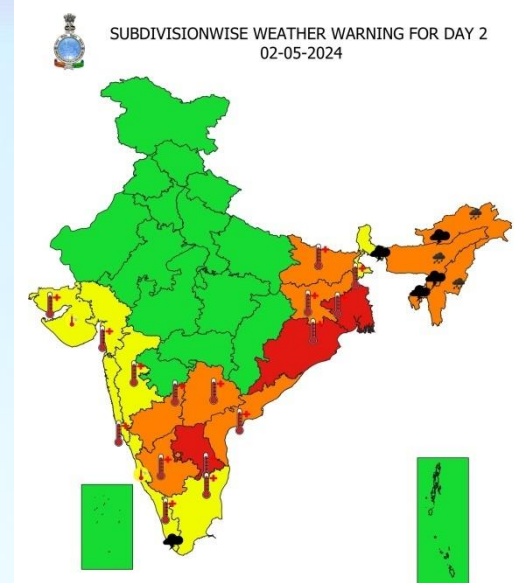
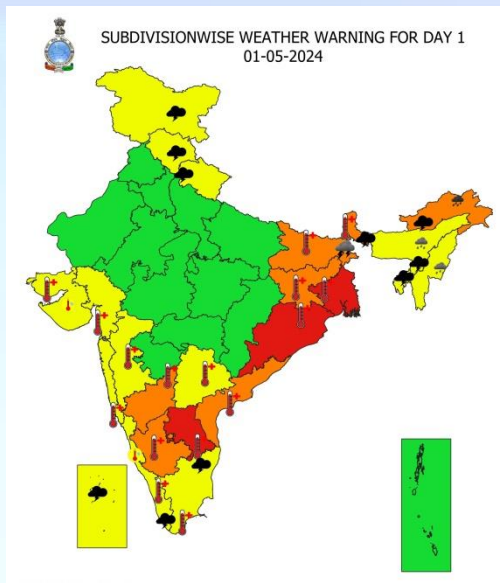
Week 2: 03.05.2024 - 09.05.2024



PROBABILITY OF HEATWAVE CONFIDENCE

- LOW (1-33% PROBABILITY)
- MODERATE (34-67% PROBABILITY)
- HIGH (68-100% PROBABILITY)





	Fog		Heavy Snow		Cold Day		NO WARNING
	Heavy Rain		Hailstorm		Ground Frost		WATCH (BE UPDATED)
	Very Heavy Rain		Dust Storm		Strong Surface Winds		ALERT (BE PREPARED)
	Extremely Heavy Rain		Heat Wave		Thunder & Lightning		WARNING (TAKE ACTION)
			Cold Wave		Hot and Humid		

❖ **Heat Wave to severe heat wave conditions** very likely to prevail in many places over Gangetic West Bengal, Bihar; in isolated pockets of Sub-Himalayan West Bengal, Jharkhand during 01st-02nd May and reduce in intensity thereafter with heat wave conditions in isolated pockets over the region during subsequent 3 days, isolated pockets of Odisha on 1 May and reduce thereafter, over Rayalaseema during next 3 days and heat wave conditions during subsequent 2 days

❖ **Heat wave conditions** very likely in isolated pockets over Telangana, Interior Karnataka, Coastal Andhra Pradesh & Yanam, Maharashtra, Gujarat State during next 4-5 days; over Kerala on 01st & 02nd and over Tamil Nadu during 01st -03rd May,

❖ **Isolated heavy rainfall** very likely over northeast India during 01st-03rd May; with isolated **very heavy rainfall** on 02nd May 2024.



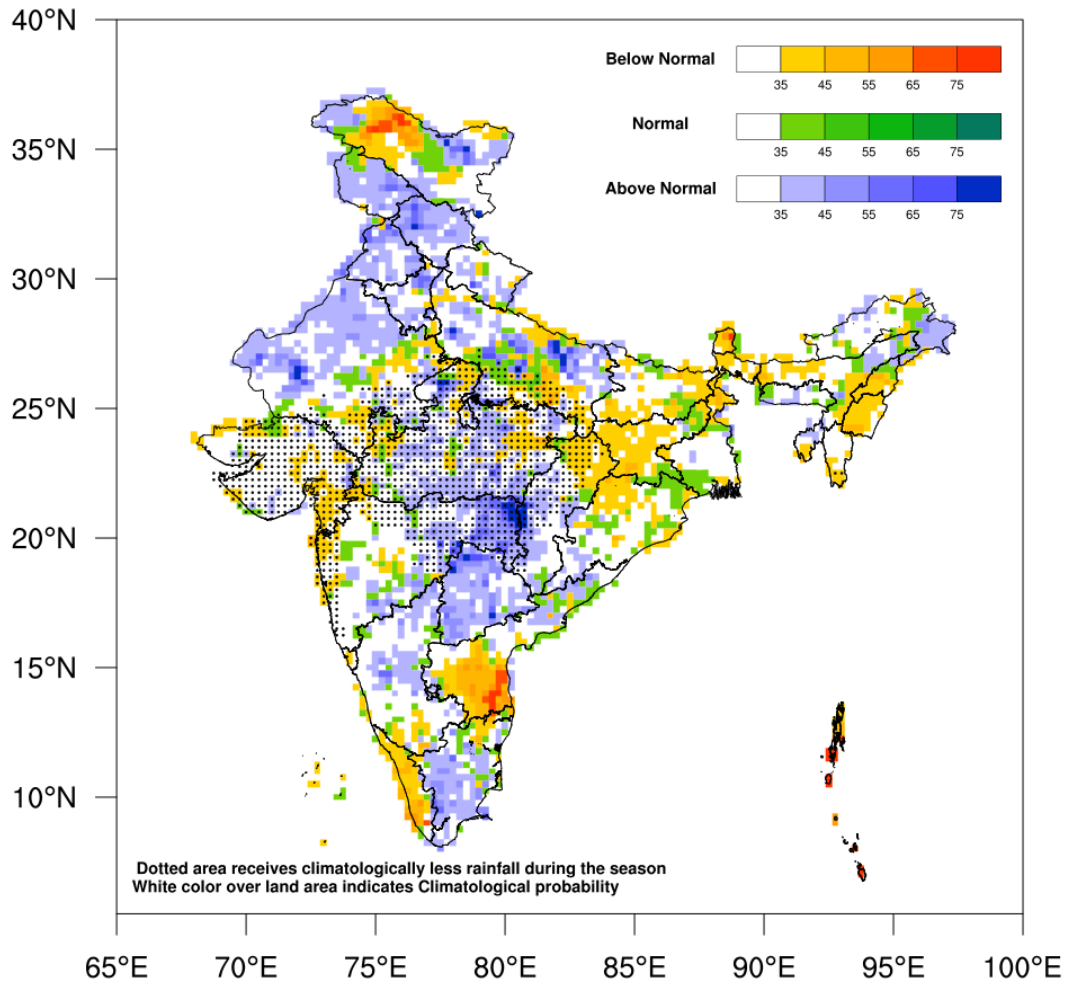
Impact Based heat Wave Outlook for May 2024

- During heatwaves, elevated temperatures pose significant risks, especially for vulnerable populations like the elderly, children, and those with pre-existing health conditions, who are more susceptible to heat-related illnesses such as heat exhaustion and heatstroke.
- Additionally, prolonged periods of extreme heat can lead to dehydration, and strain infrastructure such as power grids and transportation systems. To address these challenges, it is imperative for authorities to take proactive measures.
- This includes providing access to cooling centers, issuing heat advisories.
- Efforts are essential for safeguarding public health and minimizing the adverse impacts of heatwaves.



Probabilistic Forecast for the Rainfall during May 2024

probability rainfall forecast for 2024 MAY

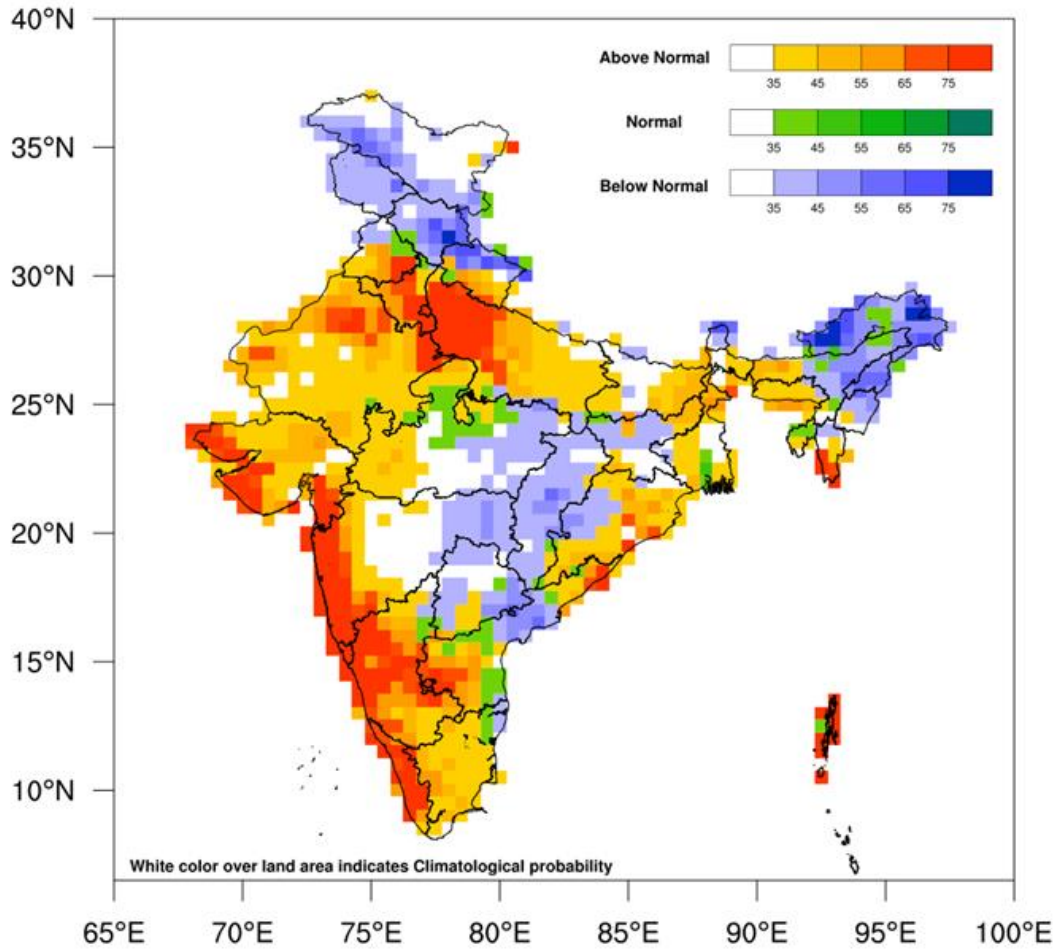


1. Rainfall during May 2024, averaged over the country as a whole, is most likely to be normal (91-109% of LPA).
2. LPA of rainfall over country during April based on data from 1971 to 2020 is about 61.4 mm.
3. Normal to above-normal rainfall is likely over most parts of Northwest India, some parts of central, peninsular and northeast India. The below-normal rainfall is likely in remaining parts of the country except the white shaded areas
4. There is no forecasting signal by the model over the white shaded areas of the country



मल्टी मॉडल एन्सम्बल फोरकास्टिंग सिस्टम के आधार पर मई 2024 के लिए अधिकतम तापमान का संभावित पूर्वानुमान

Maximum Temperature Outlook for May 2024

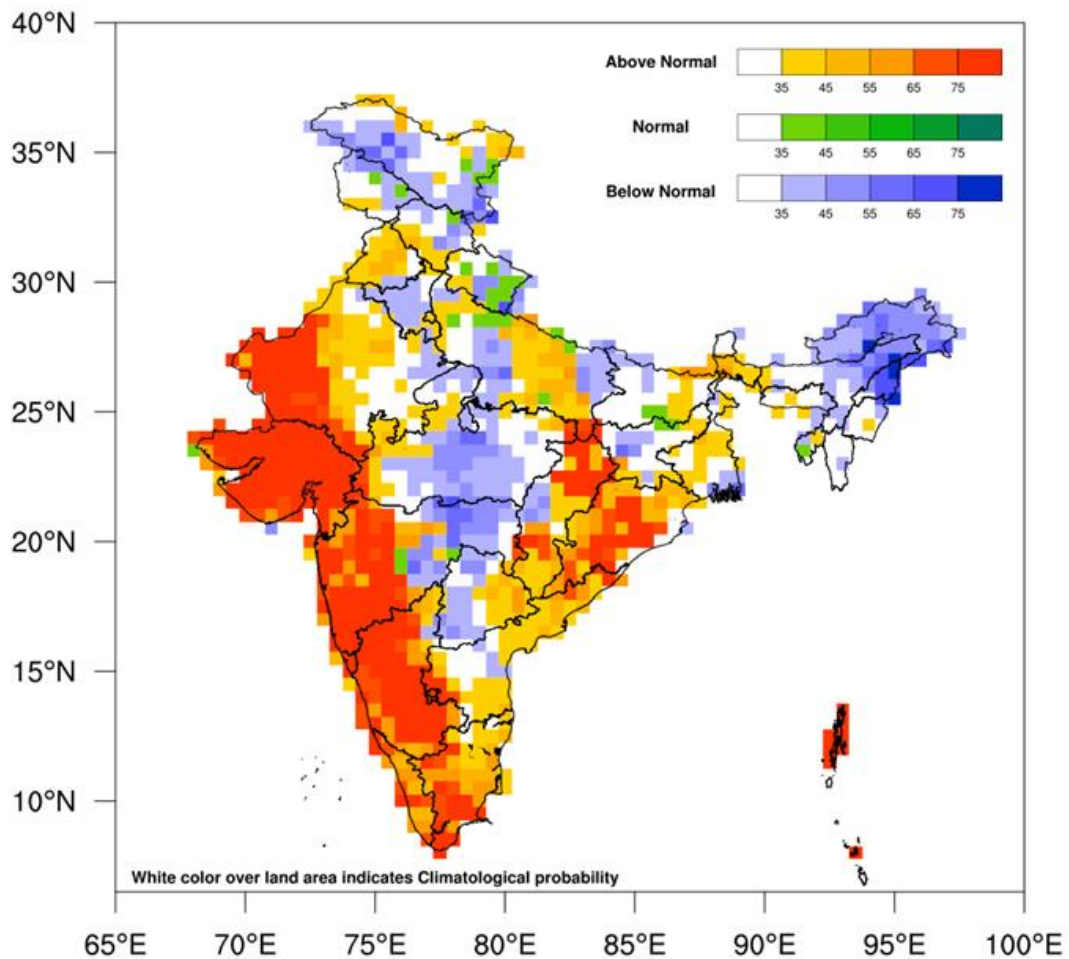


- ❖ मई 2024 के महीने के लिए, देश के अधिकांश हिस्सों में अधिकतम तापमान सामान्य से अधिक रहने की संभावना है केवल पूर्वोत्तर भारत के अधिकतर भागों और उत्तर पश्चिम भारत और मध्य भारत के कुछ हिस्सों तथा पूर्वोत्तर प्रायद्वीप भारत को छोड़कर जहां सामान्य से लेकर सामान्य से नीचे अधिकतम तापमान होने की संभावना है।
- ❖ भूमि क्षेत्र के भीतर सफेद छायांकित क्षेत्र जलवायु संबंधी संभावनाओं का प्रतिनिधित्व करते हैं।



मई 2024 के न्यूनतम तापमान के अप्रैल लिए संभावित पूर्वानुमान

Minimum Temperature Outlook for May 2024

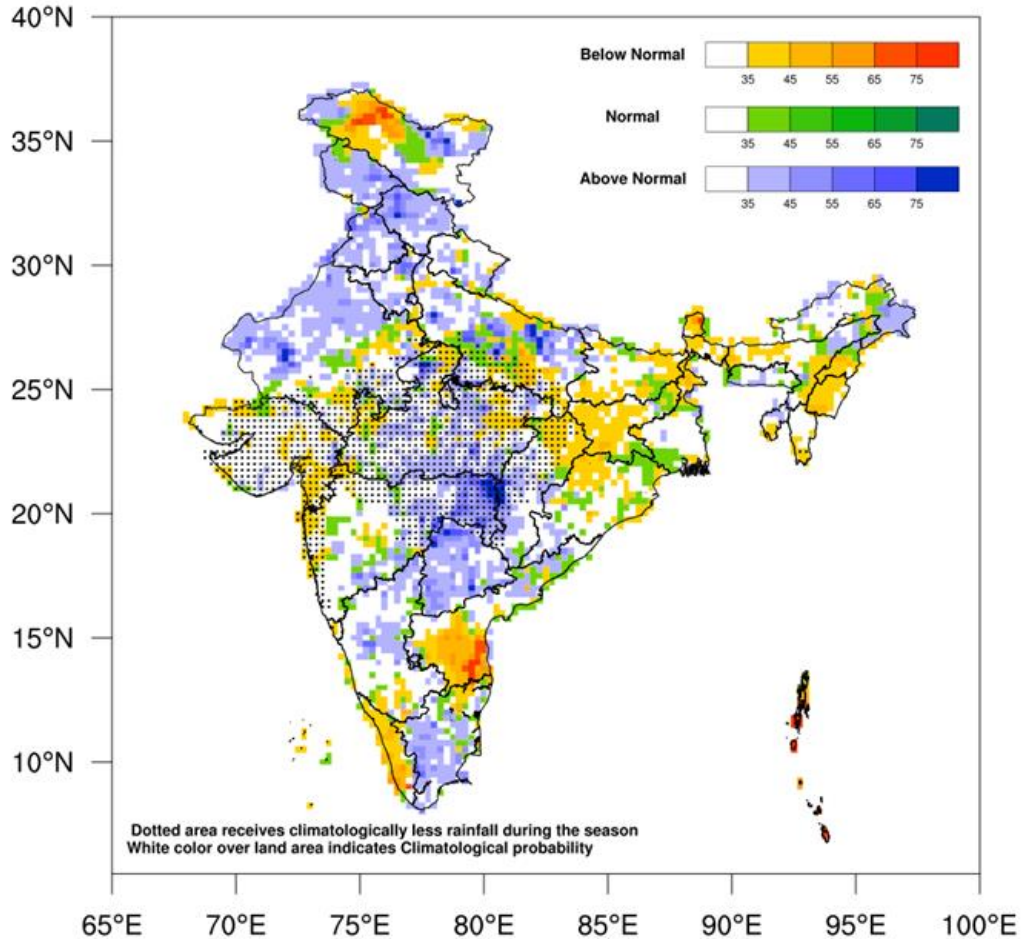


- ❖ देश के अधिकांश हिस्सों में न्यूनतम तापमान सामान्य से अधिक रहने की संभावना है केवल उत्तर-पश्चिम भारत के कुछ क्षेत्रों, भारत-गांगेय मैदानी इलाकों, मध्य भारत और पूर्वोत्तर भारत के अधिकांश हिस्सों को छोड़कर जहां सामान्य से लेकर सामान्य से नीचे न्यूनतम तापमान होने की संभावना है।
- ❖ भूमि क्षेत्र के भीतर सफेद छायांकित क्षेत्र जलवायु संबंधी संभावनाओं का प्रतिनिधित्व करते हैं।



मई 2024 के लिए मासिक वर्षा आउटलुक

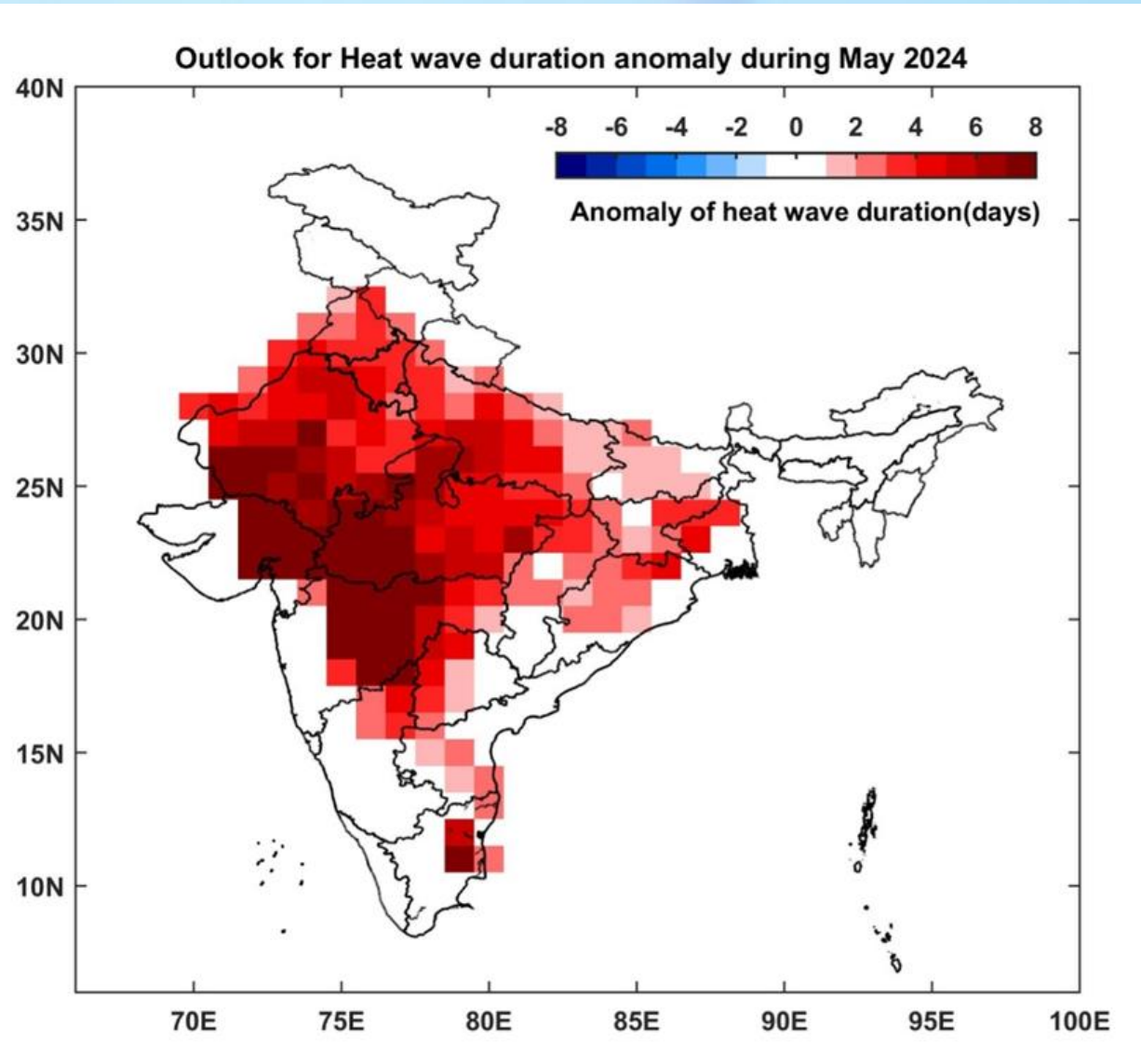
probability rainfall forecast for 2024 MAY



- मई 2024 के दौरान पूरे देश में औसत वर्षा सामान्य (दीर्घावधि औसत {एलपीए/LPA} का 91-109%) होने की संभावना है। 1971 से 2020 के आंकड़ों के आधार पर मई के दौरान देश भर में वर्षा का एलपीए/LPA लगभग 61.4 मिमी है।
- उत्तर-पश्चिम भारत के अधिकांश हिस्सों, मध्य भारत के कुछ हिस्सों, प्रायद्वीप भारत और पूर्वोत्तर भारत में सामान्य से लेकर सामान्य से अधिक वर्षा होने की संभावना है। देश के शेष भागों में सामान्य से नीचे वर्षा होने की संभावना है।
- मानचित्र पर बिंदीदार क्षेत्रों में आमतौर पर मई के दौरान बहुत कम वर्षा होती है, जबकि भूमि क्षेत्रों के भीतर सफेद छाया



मई 2024 के लिए हीटवेव आउटलुक



- मई 2024 के दौरान ,उष्णलहर दिनों की संख्या, दक्षिण राजस्थान, पश्चिम मध्य प्रदेश, विदर्भ, मराठवाडा और गुजरात क्षेत्र में लगभग 5-8 दिनों के लिए और राजस्थान के शेष भागों, पूर्व मध्य प्रदेश, पंजाब, हरियाणा, चंडिगढ़, दिल्ली, उत्तर प्रदेश, छत्तीसगढ़ के कुछ भागों, आंतरिक ओडिशा, गांगेय पश्चिम बंगाल, झारखंड, बिहार, उत्तर आंतरिक कर्नाटक और तेलंगाना तथा उत्तर तमिलनाडु, आंध्र प्रदेश के इक्का-दुक्का इलाकों में लगभग 2-4 दिनों के लिए सामान्य से अधिक रहने की संभावना है।



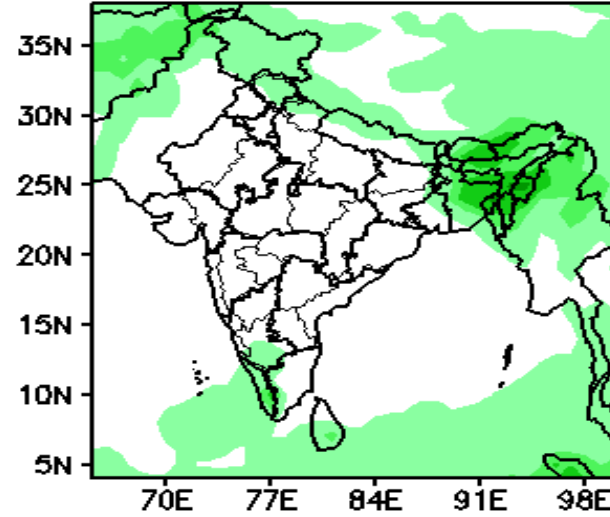
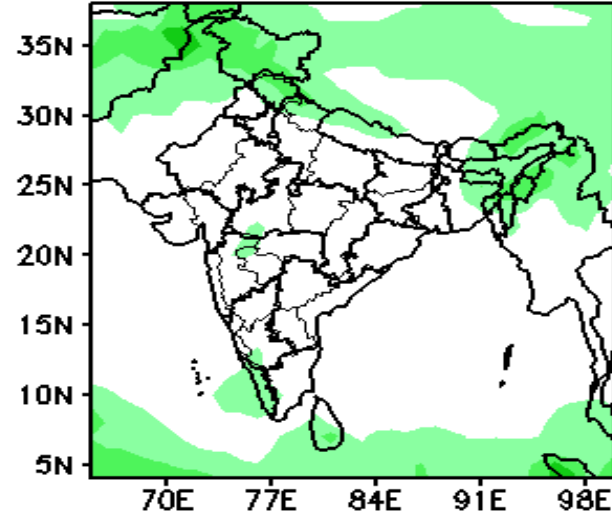
Extended Range forecast of **Rainfall** (CFSv2) : (26 Apr-23 May)

Forecast Rainfall (mm/day)

(00Z=0530 hrs IST)

(Week1:00Z25Apr-00Z02May)

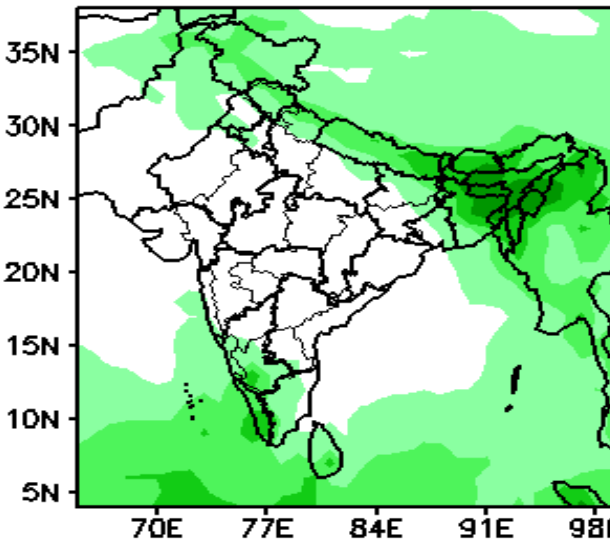
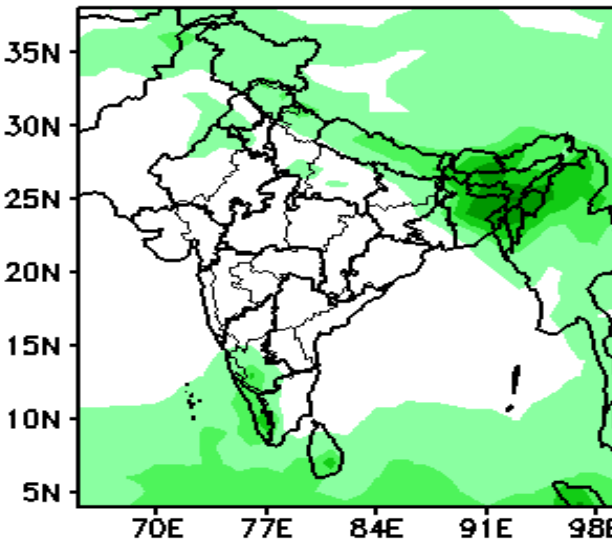
(Week2:00Z02May-00Z09May)



1 5 10 20 40

(Week3:00Z09May-00Z16May)

(Week4:00Z16May-00Z23May)

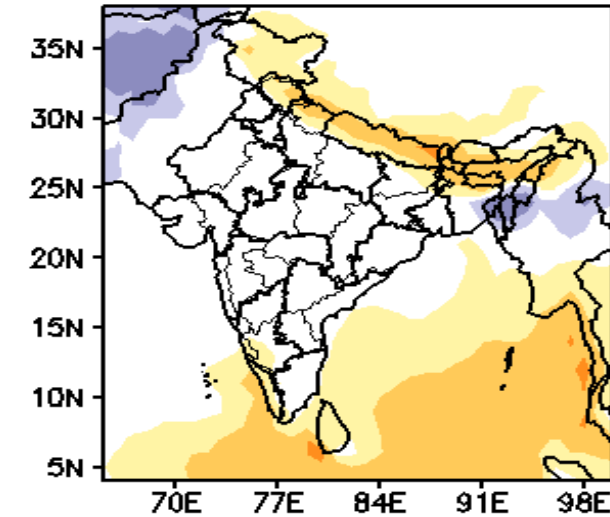
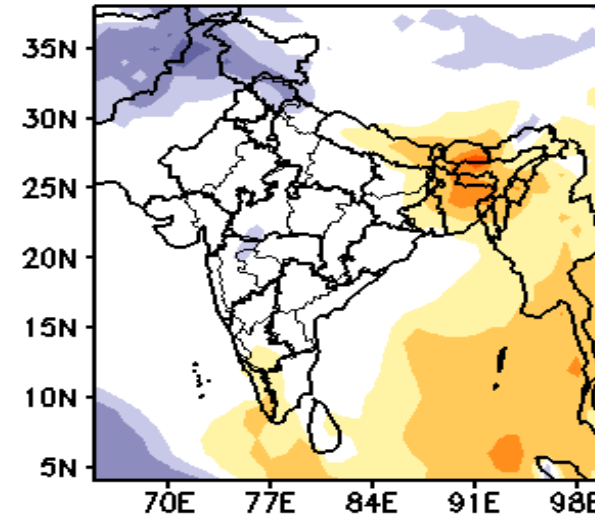


Forecast Rainfall Anomaly (mm/day)

(00Z=0530 hrs IST)

(Week1:00Z25Apr-00Z02May)

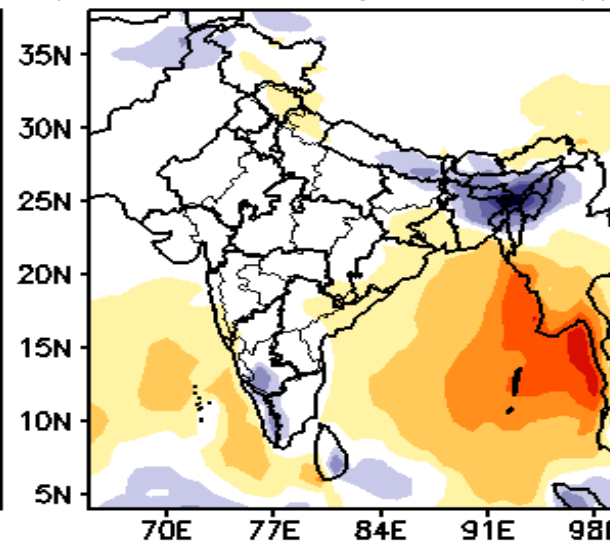
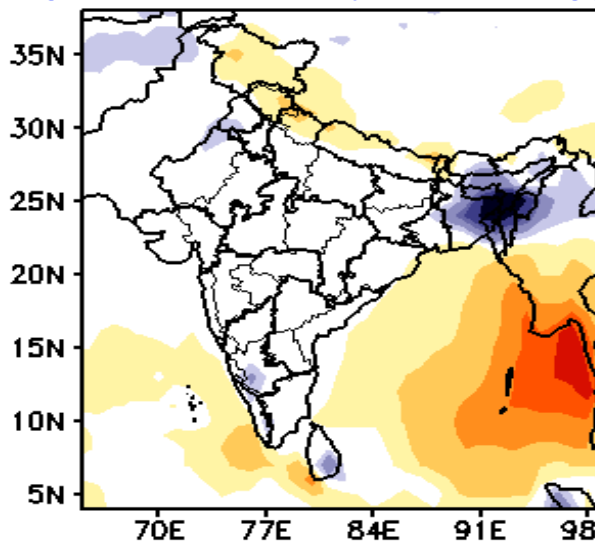
(Week2:00Z02May-00Z09May)



-15 -10 -7 -3 -1 1 3 7 10 15

(Week3:00Z09May-00Z16May)

(Week4:00Z16May-00Z23May)

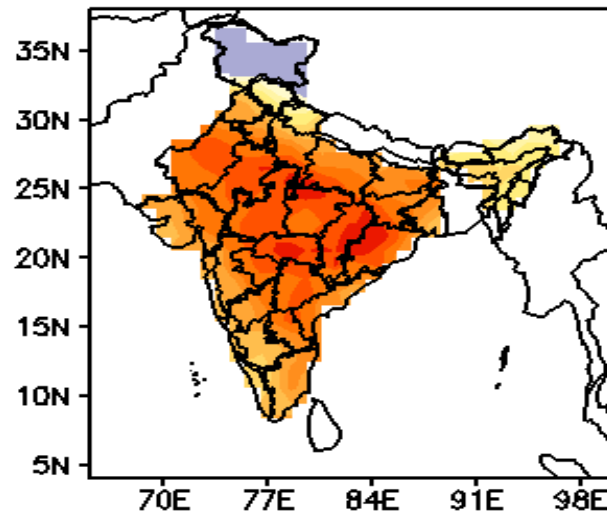
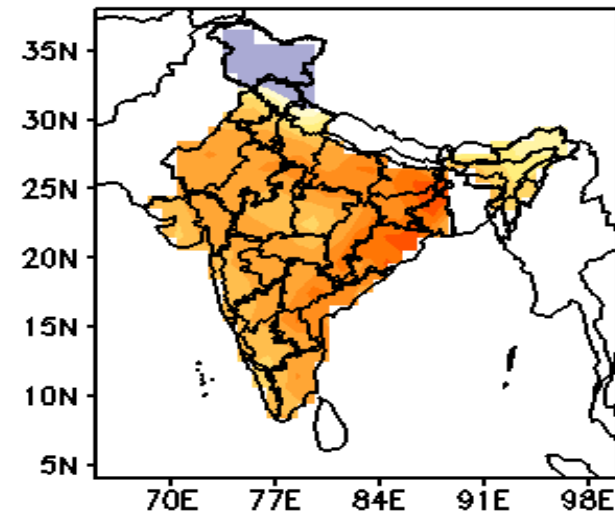


Extended Range forecast of **Tmax** (CFSv2)

MME Bias corrected forecast Tmax (Deg C)

(Week1: 26Apr-02May)

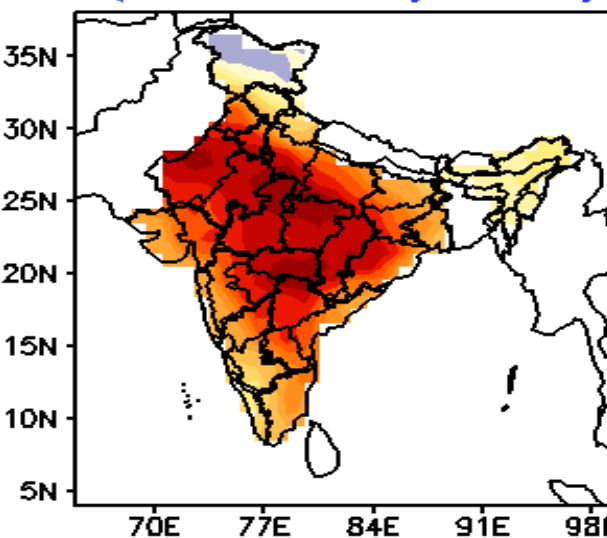
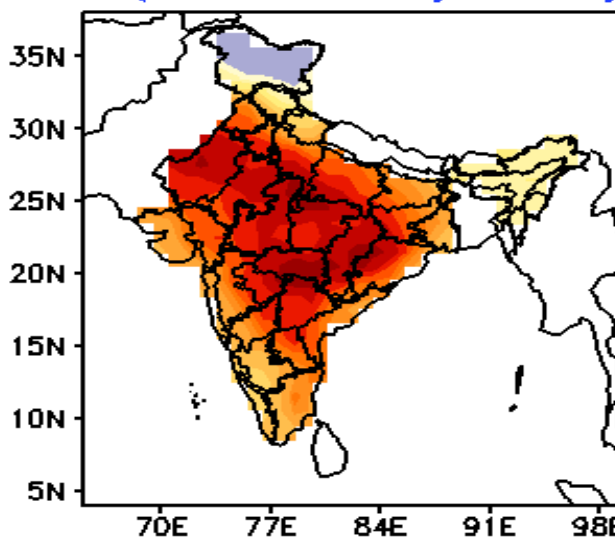
(Week2: 03May-09May)



26 28 30 32 34 36 38 39 40 41 42 43 44 45

(Week3: 10May-16May)

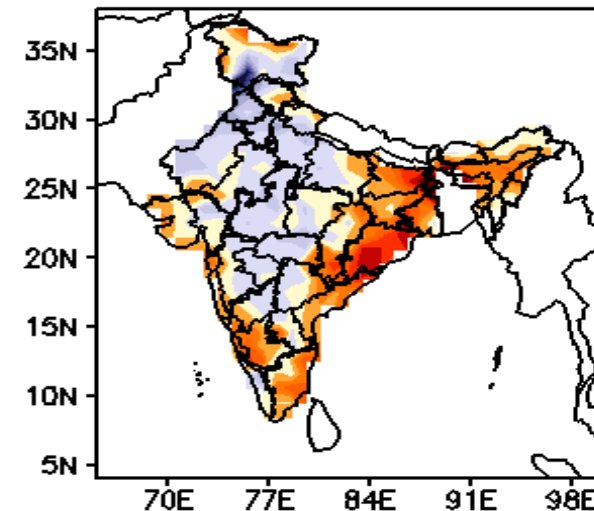
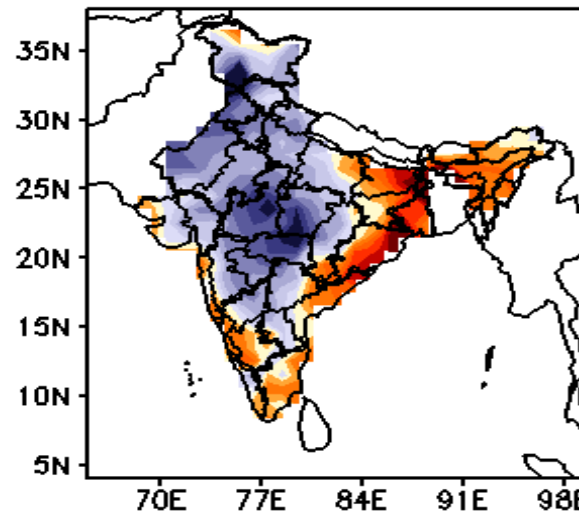
(Week4: 17May-23May)



MME forecast Tmax anomaly (Deg C)

(Week1: 26Apr-02May)

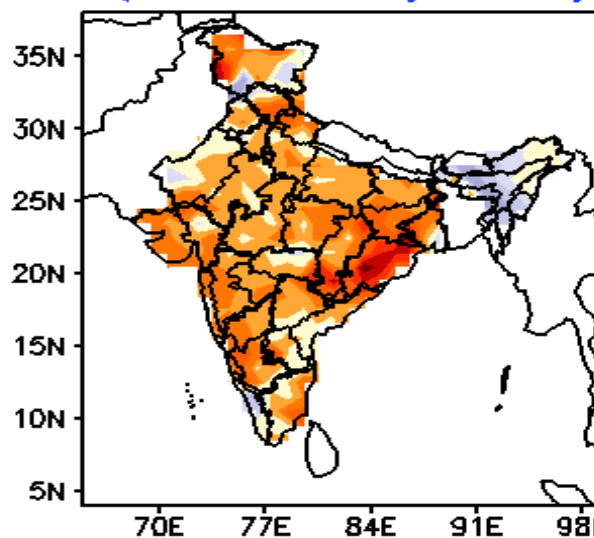
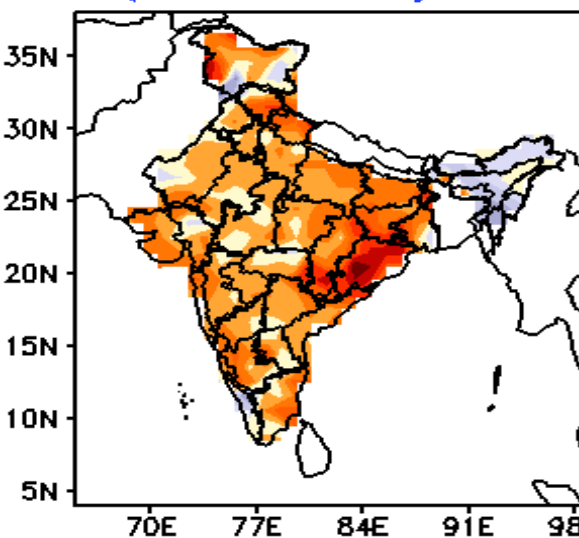
(Week2: 03May-09May)



-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

(Week3: 10May-16May)

(Week4: 17May-23May)





Thank you



**भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT**

