

Tuesday, 09<sup>th</sup> April 2024 (20<sup>th</sup> Chaitra 1946 Saka)

**Summary of observations recorded at 0830 hours IST:** The western disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above m. s. l. ran roughly along Long. 60°E to the north of Lat. 32°N on today morning it then ran roughly along Long. 60°E to the north of Lat. 30°N. System is likely to move eastwards. The trough/wind discontinuity from north coastal Andhra Pradesh to south Tamil Nadu ran from north Gujarat to south Tamil Nadu across madhya Maharashtra and interior Karnataka at 0.9 km above m. s. l. The cyclonic circulation over northeast Assam and neighbourhood persisted at 1.5 km above m. s. l. The cyclonic circulation over south Rajasthan and neighbourhood lay over central Rajasthan extending upto 1.5 km above m. s. l. The cyclonic circulation over Marathwada and neighbourhood lay over central parts of Madhya Maharashtra at 0.9 km above m. s. l. A cyclonic circulation lay over sub-Himalayan West Bengal and neighbourhood at 0.9 km above m. s. l. A fresh western disturbance is likely to affect northwest India from 13th April, 2024.

**Day temperatures were appreciably above normal (3.1°C to 5.0°C)** at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan- Muzaffarabad; at isolated places over Assam & Meghalaya, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal; **above normal (1.6°C to 3.0°C)** at most places over Punjab; at many places over West Rajasthan, Haryana-Chandigarh-Delhi, Arunachal Pradesh, South Interior Karnataka, Rayalaseema; at a few places over Himachal Pradesh, West Uttar Pradesh; at isolated places over Gujarat state. These were markedly **below normal (-5.1°C or less)** at a few places over Odisha, Chhattisgarh, Jharkhand, Gangetic West Bengal; **below normal (-1.6°C to -3.0°C)** at a few places over East Madhya Pradesh and Vidarbha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.5°C was reported at Nandyal (Rayalaseema) over the country.

**Hailstorm** occurred at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh and Telangana. Yesterday, **Heat wave** conditions prevailed at isolated places over Tamil Nadu.

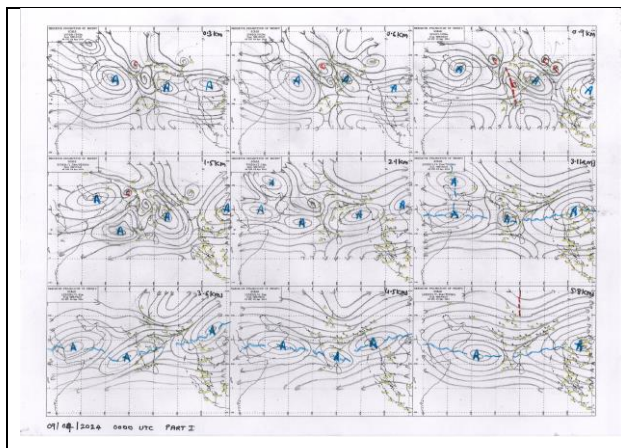


Fig. 1. Analysed upper air chart based on 00z observation (Part 1)

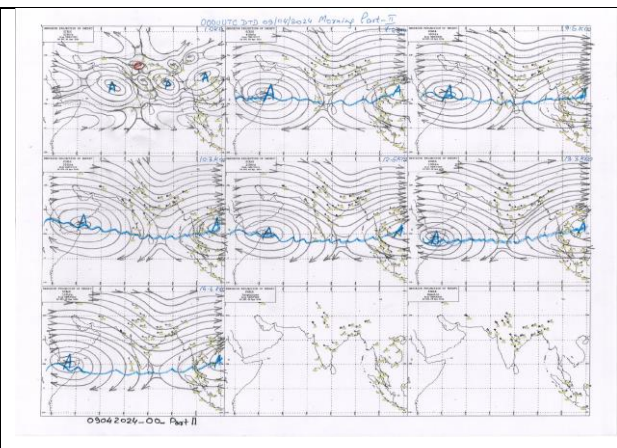


Fig. 2. Analysed upper air chart based on 00z observation (Part 2)

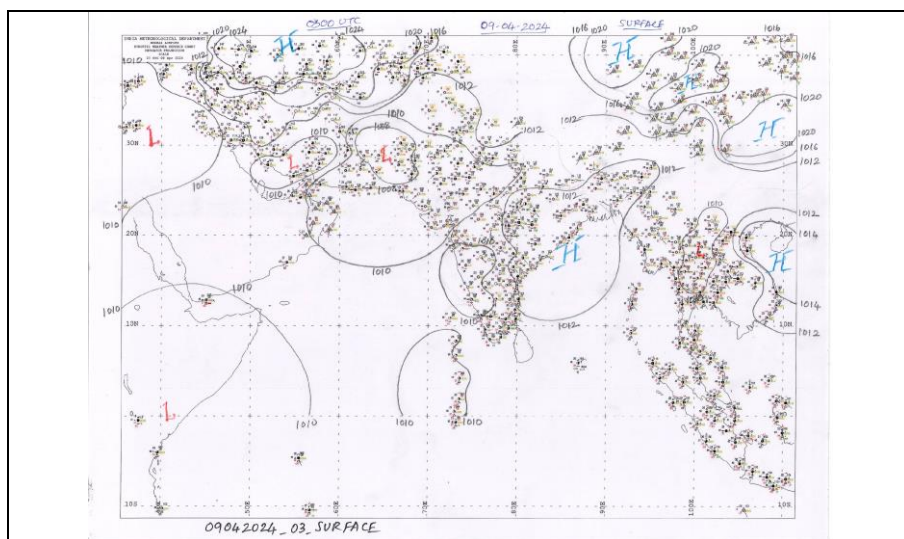


Fig. 3. Analysed surface chart based on 03z observation

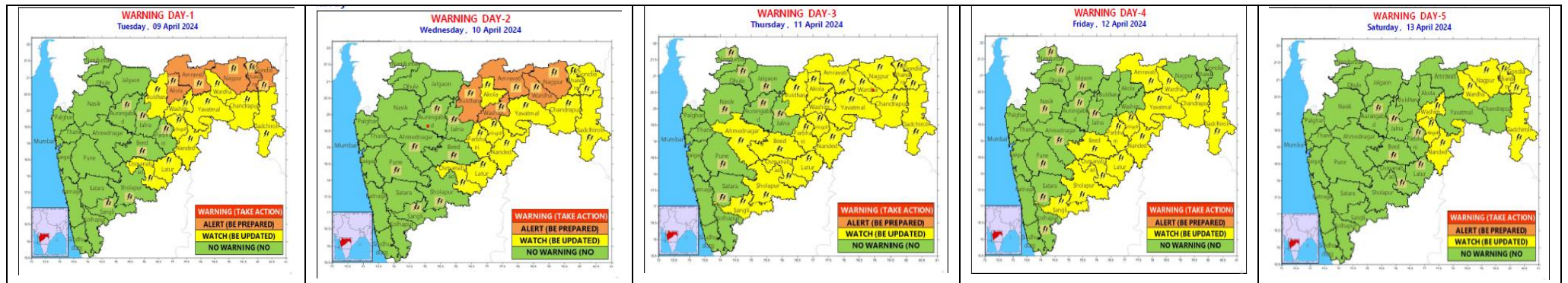
Indian Regions	Table 1. Realized rainfall (chief amount in cm during past 24 hrs.)
East	<b>isolated places:</b> Arunachal Pradesh, Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal ♦, Odisha and Jharkhand <b>dry weather:</b> Bihar Nawapara 4.4, Tuting 3.7, Kantamal 3.4, Barhi dvc 2.5, Jiribam AWS 2.3, Mangan 2.1, Nachu ARG & Malkangiri 1.8 each, Tilaiya 1.3, Singhik 0.9, Gangtok 0.6, Kheronighat 0.4, Cachher kvk AWS 0.3, Daltonganj 0.2, Tamenglong 0.1.
North	<b>isolated places:</b> Uttarakhand ♦, Himachal Pradesh ♦ and Jammu-Kashmir and Ladakh ♦ <b>dry weather:</b> Uttar Pradesh, Haryana, Punjab and Rajasthan Mori 0.2, Munsiyari, Bhuntar AP & Tral ARG 0.1 each.
Central	<b>a few places:</b> Vidarbha and Chhattisgarh <b>isolated places:</b> Madhya Pradesh Bankhedi 4.1, Raipur 2.8, Wardha & Labhandih 2.3 each, Chhura 2.2, Amarkantak & Karanjia 1.9 each, Kuhl 1.8, Malanjkhanda 1.2, Navibagh aet 1.1, Bramhapuri 1.0, Pachmarhi 0.5.
Peninsula	<b>isolated places:</b> Telangana, Tamil Nadu and Kerala <b>dry weather:</b> Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathwada, coastal Andhra Pradesh, Rayalaseema, coastal Karnataka and interior Karnataka Gandhari 5.2, Konni 3.8, Tadwai 2.6, Punalur 2.5, Chittar 1.2, Nooranad AWS 0.9, Perunchani dam 0.3.
Islands	<b>dry weather:</b> Andaman & Nicobar and Lakshadweep

Table 2. Forecast / warnings (distribution of rain / thundershowers) for 7 days (valid from time of origin upto 0830 hrs IST of next day)

Sr. No	Sub-division Name	Day 1 09 Apr	Day 2 10 Apr	Day 3 11 Apr	Day 4 12 Apr	Day 5 13 Apr	Day 6 14 Apr	Day 7 15 Apr	Sr. No.	Sub-division Name	Day 1 09 Apr	Day 2 10 Apr	Day 3 11 Apr	Day 4 12 Apr	Day 5 13 Apr	Day 6 14 Apr	Day 7 15 Apr
1	Andaman Nicobar Islands	I	I	S R	I	D	D	D	19	west Madhya Pradesh	I R	I R	I R	I R	I R	I	I
2	Arunachal Pradesh	F R	F R	S R	S	S	F	F	20	east Madhya Pradesh	S R	S R	S R	S R	S R	I	I
3	Assam-Meghalaya	S R	I R	I R	S	S	F	F	21	Gujarat region	D	D	D	D	I	I	I
4	Nagaland-Manipur-Mizoram-Tripura	I R	I R	S R	I	S	S	S	22	Saurashtra and Kutch	D	D	D	D	I	I	I
5	Sub Himalayan West Bengal/Sikkim	I R	I R	I R	S R	I R	I	S	23	Konkan and Goa	D	D	D	D	D	D	D
6	Gangetic West Bengal	I	I	I R	I	I	I	D	24	Madhya Maharashtra	I	I R	I R	I R	D	D	I
7	Odisha	I R	I R	I R	I	I	D	D	25	Marathwada	I R	I R	S R	I R	I	D	I
8	Jharkhand	I	I R	I R	I R	I	I	D	26	Vidarbha	S R	S R	S R	S R	S R	I	I
9	Bihar	D	D	I R	I	I	I	D	27	Chhattisgarh	S R	S R	S R	S R	S R	I	I
10	east Uttar Pradesh	I	I	I	I	I R	S	D	28	Coastal Andhra Pradesh and Yanam	D	D	I R	I R	I R	I	I
11	west Uttar Pradesh	D	D	I	I	S R	S	I	29	Telangana	I R	I R	I R	I R	I R	I	I
12	Uttarakhand	I	I	S	I R	F	W	W	30	Rayalaseema	D	D	D	I R	I R	I	I
13	Haryana, Chandigarh and Delhi	D	D	D	D	F R	F	S	31	Tamil Nadu, Puducherry and Karaikal	D	D	I	I R	I R	I	I
14	Punjab	D	D	D	D	F R	F	S	32	Coastal Karnataka	D	D	D	D	I	I	I
15	Himachal Pradesh	I	I	S	S R	F	W	W	33	North interior Karnataka	D	D	I	I R	I R	I	I
16	Jammu-Kashmir and Ladakh	D	S R	S R	S R	F R	W	F	34	South interior Karnataka	I	I	I	I R	I R	I	I
17	west Rajasthan	D	I	D	I R	S	S	I	35	Kerala and Mahe	I R	I	I R	S R	S R	I	I
18	east Rajasthan	I R	I R	I R	I R	S R	S	I	36	Lakshadweep	D	D	D	S	S	D	D

Legends: D = D I = Isolated S = Scattered F = Fairly widespread W = Widespread # = heavy to very heavy rain at a few places with extremely heavy rain at isolated places +++ = heavy rain at a few places with very heavy rain at isolated places ++ = heavy to very heavy rainfall + = heavy rain •/• = rain or snow ♦ = very light rain = fog R = thunderstorm with lightning = Squall / Gusty wind / strong wind / gale wind - = cold wave/cold day += heat wave/warm night/hot and humid weather = Duststorm = ground frost = Hail

Fig. 4: Districtwise warnings for five days for Maharashtra State



Pune, Lohegaon and Pashan observations at 0830 hrs. IST of Today

	Temperature (°C)					Humidity (%)				Rainfall (mm)		
	Max. past 24 hrs	Dep. from normal	Min. past 24 hrs.	Dep. from normal	Dry Bulb	At 0830 hrs. IST	Dep. From normal	At 1730 hrs. IST of y/day	Dep. from normal	Past 24 hrs.	Since 1 <sup>st</sup> March.	Dep. from normal
PNE	38.5	1.3	18.9	0.2	27.8	33	-17.0	16	-8.0	0.0	2.2	-2.9
PSN	38.4	-	19.9	-	25.2	43	-	20	-	0.0	1.8	-
LHG	38.9	0.9	22.3	2.3	28.2	35	-8.0	12	-8.0	0.0	0.6	-5.4

Local (Pune and neighbourhood) forecast

Max. / Min. Temperature (°C)									Weather
Date	Pune	Pashan	Lohegaon	Chinchwad	Lavale	Magarpatta	NDA	Koregaon Park	
09/04	39 / 18.9*	39 / 19.9*	40 / 22.3*	39 / 23.7*	41 / 23.5*	40 / 25.0*	39 / 17.4*	41 / 23.7*	Mainly clear sky becoming Partly cloudy sky towards afternoon or evening.
10/04	38 / 18	38 / 19	39 / 21	38 / 23	40 / 22	39 / 24	38 / 16	40 / 23	Mainly clear sky becoming Partly cloudy sky towards afternoon or evening.
11/04	38 / 19	37 / 20	38 / 22	39 / 24	39 / 23	38 / 25	38 / 17	39 / 24	Mainly clear sky becoming Partly cloudy sky towards afternoon or evening.
12/04	38 / 19	37 / 20	38 / 22	39 / 24	39 / 23	38 / 25	38 / 17	39 / 24	Mainly clear sky becoming Partly cloudy sky towards afternoon or evening.
13/04	39 / 19	38 / 20	39 / 22	40 / 24	40 / 23	39 / 25	39 / 17	40 / 24	Mainly clear sky becoming Partly cloudy sky towards afternoon or evening.
14/04	39 / 18	38 / 19	39 / 21	40 / 23	40 / 22	39 / 24	39 / 16	40 / 23	Partly cloudy sky .
15/04	39 / 19	38 / 20	39 / 20	40 / 24	40 / 23	39 / 25	39 / 17	40 / 24	Partly cloudy sky ,light rain likely

\* = realized temperatures

Mumbai (Colaba)				Nagpur (AP)		
Date 2024	T max °C	T min °C	Weather	T max °C	T min °C	Weather
09/04	33	24	Mainly clear sky.	34	20	Thunderstorm with hail
10/04	32	24	Clear sky.	35	20	Thunderstorm with hail .
11/04	32	25	Clear sky.	34	19	Rain or Thundershowers with strong gusty winds .
12/04	32	25	Mainly clear sky.	34	20	Partly cloudy sky with one or two spells of rain or thundershowers.
13/04	33	26	Mainly clear sky..	36	21	Rain or Thundershowers with strong gusty winds .
14/04	34	26	Partly cloudy sky.	36	21	Partly cloudy sky with possibility of rain or Thunderstorm.
15/04	34	26	Partly cloudy sky.	37	21	Partly cloudy sky with possibility of rain or Thunderstorm.

Widespread (W)	76-100
Fairly Widespread (FW)	51 - 75
Scattered (S)	26 - 50
isolated (I)	1 - 25
D (D)	No Rain
Probability Terms in %:	
unlikely	< 25
likely	between 25 50
very likely	between 51 75
most likely	>75

Light rain	2.5 to 15.5
Moderate rain	15.6 to 64.4
Heavy rain	64.5 to 115.5
Very heavy rain	115.6 to 204.4
Extremely heavy rain	≥ 204.5
Heavy snow	6.5 to 11.5 cms water equivalent of rain
Very heavy snow	11.6 to 20.4 cms water equivalent of rain