

Tuesday, 30th April 2024 (10th Vaisakha 1946 Saka)

Summary of observations recorded at 0830 hours IST: The western disturbance as a cyclonic circulation over east Afghanistan & neighbourhood lay over Pakistan and adjoining Afghanistan at 0530 hrs IST today. It lay over north Pakistan & neighbourhood between 3.1 km & 5.8 km above m. s. l. System is likely to move northeastwards. The cyclonic circulation over northeast Assam & neighbourhood which extended between 1.5 km and 3.1 km above m. s. l. persisted. The trough/wind discontinuity from central Vidarbha to coastal Karnataka ran from southeast Madhya Pradesh to south interior Karnataka across Vidarbha, Marathwada & north interior Karnataka. at 0530 hrs IST today. It persisted over the same region and extended upto 1.5 km above m. s. l. The cyclonic circulation over south Tamil Nadu & neighbourhood at 0.9 km above m. s. l. persisted. The cyclonic circulation over central parts of south Arabian Sea lay over southwest Arabian sea adjoining equatorial Indian ocean at 0530 hrs IST today. It persisted over the same region and extended upto 4.5 km above m. s. l. A cyclonic circulation lay over northeast Bangladesh and extends upto 1.5 km above mean sea level. The trough from north Bihar to Manipur ran across Sub-Himalayan West Bengal, cyclonic circulation over northeast Bangladesh and south Assam at 0.9 km above m. s. l.

Day temperatures were markedly above normal (5.1°C or more) at most places over Gangetic West Bengal; at a few places over Odisha, Bihar and Sub-Himalayan West Bengal; at isolated places over Konkan & Goa; appreciably above normal (3.1°C to 5.0°C) at most places over Kerala & Mahe; at a few places over East Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura, Saurashtra & Kutch and Tamil Nadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over coastal Andhra Pradesh & Yanam, Rayalaseema and Lakshadweep; at a few places over Karnataka and Telangana; at isolated places over west Uttar Pradesh, Chhattisgarh, Jharkhand, Assam & Meghalaya, Madhya Maharashtra and Andaman & Nicobar Islands. These were markedly below normal (-5.1°C or less) at many places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad; at a few places over Himachal Pradesh; at isolated places over Punjab, Haryana & Chandigarh; appreciably below normal (-3.1°C to -5.0°C) at many places over west Rajasthan; at isolated places over east Rajasthan; below normal (-1.6°C to -3.0°C) at isolated places over Gujarat Region, west Madhya Pradesh and Vidarbha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 45.4°C was reported at Kandla (Saurashtra & Kutch) and Kalaikunda (Gangetic West Bengal) over the country.

Heat wave to severe heat wave conditions prevailed in most parts over Gangetic West Bengal; in few parts over Saurashtra & Kutch, Bihar, Sub-Himalayan West Bengal and Odisha and **Heat wave** conditions in isolated pockets over Jharkhand, Kerala, Konkan and Rayalaseema. **Heat wave** conditions have been prevailing over Odisha since 15th and over Gangetic West Bengal since 17th April.

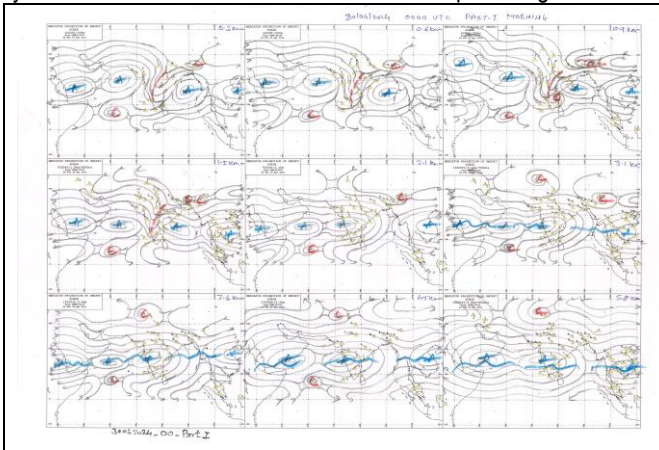


Fig. 1. Analysed upper air chart based on 00z observation (Part 1)

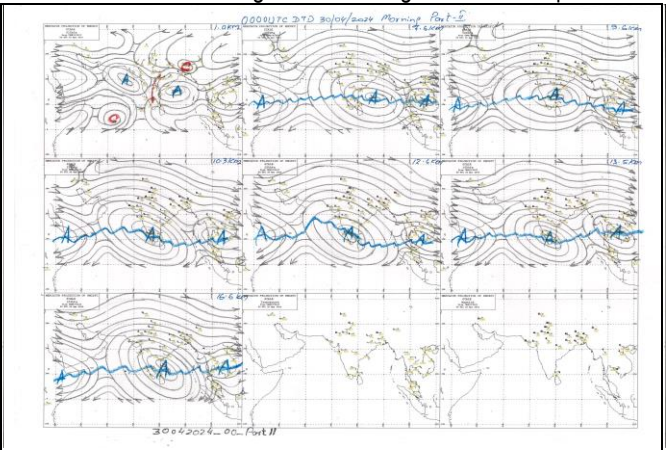


Fig. 2. Analysed upper air chart based on 00z observation (Part 2)

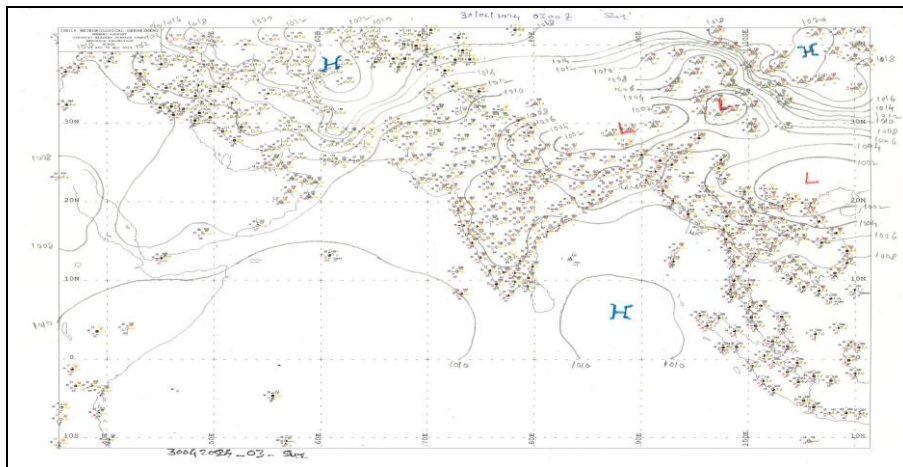


Fig. 3. Analysed surface chart based on 03z observation

Indian Regions	Realised rain fall (chief amount in cm during past 24 hrs):
East	a few places: Arunachal Pradesh isolated places: Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Sub-Himalayan West Bengal & Sikkim and Odisha dry weather: Gangetic West Bengal, Jharkhand and Bihar Cacher kvk AWS 6.3, Silchar AWS 5.6, Kohima sadar nsdma AWS 5.1, Silchar 5.0, Sankheimundi 4.8, Jiribam AWS 4.6, Miao 4.3, Hawai 3.3, Digapahandi 3.1, Daparajo 1.3, Gangtok 0.4, Koraput 0.3, Imphal AP 0.2.
North	most places: Himachal Pradesh+ and Jammu-Kashmir and Ladakh+ a few places: Punjab isolated places: west Uttar Pradesh ♦, Uttarakhand, Haryana ♦ and west Rajasthan ♦ dry weather: east Uttar Pradesh and east Rajasthan Manali 8.2, Verinag 6.6, Nowgam 6.3, Banihal 6.1, Kothi 4.9, Seo bagh 4.1, Ajanala ARG & Amritsar 1.1 each, Barkot 0.7, Amritsar irr 0.6, Tiuni 0.4, Mukteshwar 0.3, Hanumangarh & Sangaria SR 0.2 each, Nagina, Sps mayur vihar & Ganganagar 0.1 each.
Central	isolated places: Madhya Pradesh, Vidarbha and Chhattisgarh Katekalyan 4.5, Yeotmal (aws) 1.5, Bichhua 1.4, Jagdalpur & Darbha 1.2 each, Nagpur (aws) 0.6, Harrai & Nagpur aerodrome 0.5 each, Godadongri 0.4, Multai 0.2.
Peninsula	isolated places: Marathwada, coastal Andhra Pradesh, Rayalaseema, Tamil Nadu and Kerala dry weather: Gujarat State, Konkani & Goa, Madhya Maharashtra, Telangana, coastal Karnataka and interior Karnataka Thuckalay 4.5, Kozhiporvilai 3.3, Peringamala ARG 1.7, Palode AWS 1.5, Proddutur 0.9, Ichchapuram 0.6, Sonpeth 0.5, Kaij 0.2, Araku valley & Madurai south 0.1 each.
Islands	isolated places: Lakshadweep ♦ dry weather: Andaman & Nicobar

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	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Sr. No.	Sub-division Name	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
		30 Apr	01 May	02 May	03 May	04 May	05 May	06 May			30 Apr	01 May	02 May	03 May	04 May	05 May	06 May
1	Andaman Nicobar Islands	I	I	I	I	I	I	I	19	west Madhya Pradesh	D	D	D	D	D	I	I
2	Arunachal Pradesh	W R +	W R ++	W R ++	F R	F R	W	W	20	east Madhya Pradesh	I R +	D R +	D R +	D R +	D R +	I	I
3	Assam-Meghalaya	F R +	F R +	W R #	F R	S R	F	W	21	Gujarat region	D	D	D	D	D	D	D
4	Nagaland-Manipur-Mizoram-Tripura	S R +	F R +	W R ++	F R +	S R	F	F	22	Saurashtra and Kutch	D R +	D R +	D R +	D R +	D R +	D	D
5	Sub Himalayan West Bengal/Sikkim	I R +	S R +	I R +	I R +	S R	F	F	23	Konkan and Goa	D R +	D R +	D R +	D R +	D R +	D	D
6	Gangetic West Bengal	D R +	D R +	D R +	D R +	D R +	I	S	24	Madhya Maharashtra	D R +	D R +	D	D	D	D	D
7	Odisha	I R +	I R +	I R +	I R +	I R +	I	S	25	Marathwada	I R +	D R +	D	D	D	D	I
8	Jharkhand	D R +	D R +	D R +	D R +	D R +	I	S	26	Vidarbha	I	D	D	D	D	D	I
9	Bihar	D R +	D R +	D R +	D R +	I R +	I	I	27	Chhattisgarh	I	D	D	D	D	I	I
10	east Uttar Pradesh	D	D	D	D	D	I	I	28	Coastal Andhra Pradesh and Yanam	I R +	D R +	D R +	D R +	D R +	I	I
11	west Uttar Pradesh	D	D	D	D	D	I	I	29	Telangana	D R +	D R +	D R +	D R +	D R +	D	I
12	Uttarakhand	I	I	D	D	I	I	I	30	Rayalaseema	D R +	D R +	D R +	D R +	D R +	I	I
13	Haryana, Chandigarh and Delhi	D	D	D	D	D	I	D	31	Tamil Nadu, Puducherry and Karaikal	I R R +	I R R +	I R R +	I R R +	I R +	I	I
14	Punjab	I	D	D	D	I	I	D	32	Coastal Karnataka	D R +	D R +	D R +	D R +	D R +	D	I
15	Himachal Pradesh	S R	I	D	I R	S R	I	I	33	North interior Karnataka	D R +	D R +	D R +	D R +	D R +	D	D
16	Jammu-Kashmir and Ladakh	F R	I	D	S R	S R	I	I	34	South interior Karnataka	I R +	D R +	D R +	D R +	D R +	I	I
17	west Rajasthan	D	D	D	D	I	I	I	35	Kerala and Mahe	S R R +	I R R +	I R R +	I R R +	S R R +	S	S
18	east Rajasthan	D	D	D	D	I	I	I	36	Lakshadweep	S R	S R	D	D	D	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 S = Squall / Gusty wind / strong wind / gale wind - = cold wave/cold day R + = heat wave/warm night/hot and humid weather S = Duststorm S = ground frost R = 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 st March.	Dep. from normal
PNE	41.8	3.7	22.4	1.2	31.0	33	-16	20	-9	0.0	13.6	0.5
PSN	41.8	-	23.4	-	28.0	48	-	22	-	0.0	16.5	-
LHG	42.5	4.5	25.9	4.9	32.8	19	-30	16	-10	0.0	12.2	-1.7

Local (Pune and neighbourhood) forecast

Date	Max. / Min. Temperature (°C)								Weather
	Pune	Pashan	Lohegaon	Chinchwad	Lavale	Magarpatta	NDA	Koregoan Park	
30/04	41 / 22.4*	41 / 23.4*	43 / 25.9*	42 / 27.9*	42 / --	43 / 28.8*	42 / --	43 / 26.8*	Clear sky, Heat wave conditions likely.
01/05	41 / 22	41 / 23	42 / 25	42 / 27	41 / 29	42 / 28	41 / 22	42 / 26	Clear sky, Heat wave conditions likely.
02/05	41 / 22	41 / 23	42 / 25	42 / 27	41 / 28	42 / 28	41 / 22	42 / 26	Clear sky.
03/05	42 / 21	42 / 22	43 / 24	43 / 26	42 / 28	43 / 27	41 / 21	43 / 25	Clear sky.
04/05	42 / 21	42 / 22	43 / 24	43 / 26	42 / 27	43 / 27	41 / 21	43 / 25	Clear sky.
05/05	42 / 21	42 / 22	43 / 24	43 / 26	42 / 27	43 / 27	41 / 21	43 / 25	Clear sky.
06/05	41 / 22	41 / 23	42 / 25	42 / 27	41 / 28	42 / 28	40 / 22	42 / 26	Clear sky.

* = realized temperatures

Date 2024	Mumbai (Colaba)			Nagpur (AP)		
	T max °C	T min °C	Weather	T max °C	T min °C	Weather
30/04	35	27	Clear sky.	42	24	Rain or thundershowers with strong gusty winds.
01/05	34	26	Clear sky.	42	25	Partly cloudy sky
02/05	32	25	Clear sky.	41	25	Mainly clear sky.
03/05	32	26	Clear sky.	41	24	Mainly clear sky.
04/05	34	27	Partly cloudy sky with one or two spells of thundershowers.	41	26	Mainly clear sky.
05/05	33	27	Mainly clear sky.	43	26	Partly cloudy sky.
06/05	32	27	Mainly clear sky.	43	26	Partly cloudy sky.

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