

Tuesday, 14th May 2024 (24th Vaisakha 1946 Saka)

Summary of observations recorded at 0830 hours IST: Southwest Monsoon is very likely to advance into south Andaman Sea, some parts of southeast Bay of Bengal and Nicobar Islands around 19th May, 2024. The trough in mid. tropospheric westerlies with its axis at 5.8 km above m. s. l. ran roughly along Long. 81°E to the north of Lat. 32°N. A trough in westerlies ran roughly along long. 88°E to the north of lat. 21°N at 3.1 km above m. s. l. Above two systems are likely to move east-northeastwards. The cyclonic circulation over east Jharkhand & neighbourhood lay over southwest Bangladesh & neighbourhood at 1.5 km above m. s. l. A cyclonic circulation lay over west Vidarbha & neighbourhood at 0.9 km above m. s. l. A cyclonic circulation lay over southeast Arabian sea & adjoining Kerala which extended upto 1.5 km above m. s. l. The trough from south interior Karnataka to northwest Madhya Pradesh ran from above cyclonic circulation over southeast Arabian sea & adjoining Kerala to Marathwada across Karnataka at 0.9 km above m. s. l. The cyclonic circulation over south interior Karnataka & neighbourhood merged with the above trough. The cyclonic circulation over Comorin Area lay over north Equatorial Indian Ocean & adjoining Comorin area between 1.5 & 3.1 km above m. s. l. Moderate to intense convection lies over southeast & adjoining eastcentral Bay of Bengal in association with a feeble cyclonic circulation at lower levels as observed in Oceansat-3 image. The cyclonic circulation over northeast Assam & neighbourhood became less marked. The cyclonic circulation over northwest Madhya Pradesh & neighbourhood became less marked.

Day temperatures were markedly above normal (5.1°C or more) at isolated places Assam & Meghalaya; above normal (1.6°C to 3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal, Konkan & Goa, west Rajasthan, Haryana, Chandigarh & Delhi. These were markedly below normal (-5.1°C or less) at isolated places over Vidarbha, Telangana; appreciably below normal (-3.1°C to -5.0°C) at isolated places over Madhya Maharashtra, Marathwada, Rayalaseema, coastal Andhra Pradesh & Yanam, east Madhya Pradesh, east Uttar Pradesh; below normal (-1.6°C to -3.0°C) at a few places over west Madhya Pradesh; at isolated places over west Uttar Pradesh and near normal over rest parts of the country. Yesterday, **the highest maximum temperature of 43.1°C was reported at Kota (East Rajasthan) over the country.**

Hailstorms were reported at isolated places over Uttarakhand, east Uttar Pradesh, Madhya Pradesh, Konkan and Madhya Maharashtra.

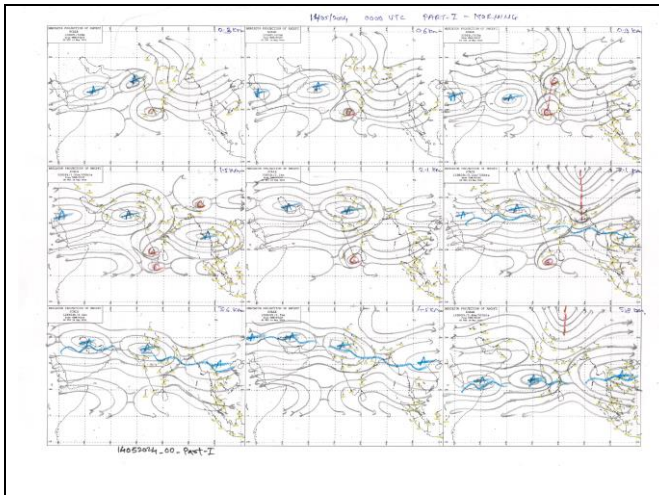


Fig. 1. Analysed upper air chart based on 00z observation (Part 1)

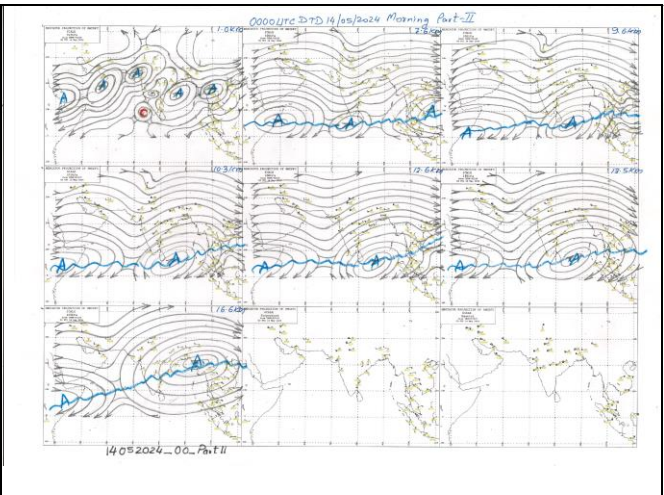


Fig. 2. Analysed upper air chart based on 00z observation (Part 2)

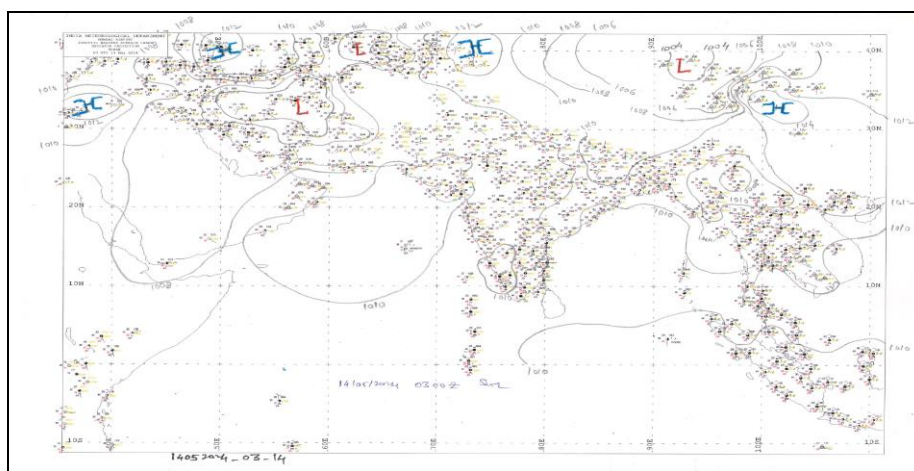


Fig. 3. Analysed surface chart based on 03z observation

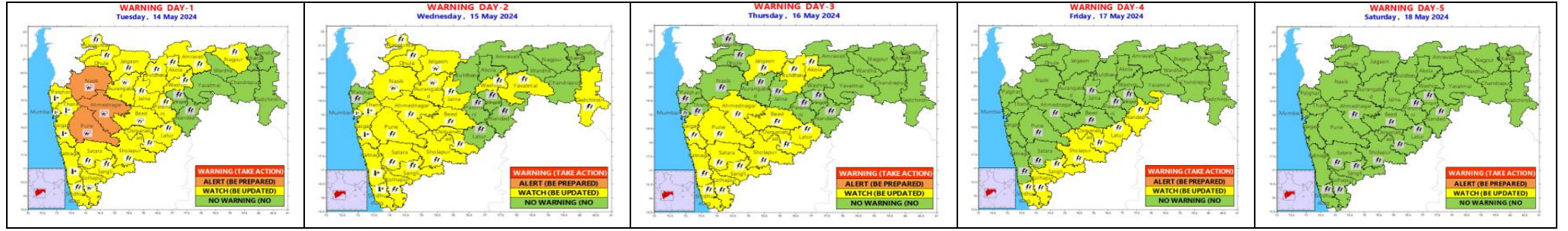
Indian Regions	Realised rain fall (chief amount in cm during past 24 hrs):
East	isolated places: Arunachal Pradesh, Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, West Bengal & Sikkim, Odisha, Jharkhand and Bihar Bhuban 6.4, Khaira 4.8, Gaunaha 4.6, Dhalbhumgarh 3.7, Mawphlang 3.5, Garmura 2.8, Chakai 2.6, Balasore & Musabani 1.8 each, Purihansa 1.6, Rangia & Sukiapokhri 1.0 each, Tawang AWS & Kolasib ARG 0.9 each, Bomdila & Damthang 0.8 each, Kohima 0.7, Lengpui 0.6, Nachu ARG 0.5, Gangtok, D.p.ghat & Jamui 0.2 each, Ranchi AP 0.1.
North	isolated places: east Uttar Pradesh, west Uttar Pradesh ♦, Uttarakhand ♦ and Rajasthan dry weather: Haryana, Punjab, Himachal Pradesh and Jammu-Kashmir and Ladakh Sajjargarh SR 3.0, Bagidora SR 2.6, Chotan & Bikaner tehsil SR 1.5 each, Bikaner (pbo) 1.4, Banswara SR 1.2, Rudhauri 0.3, Vrindavan & Khatima 0.2 each, Bahraich, Bulandshahr & Landsdown 0.1 each.
Central	isolated places: Madhya Pradesh and Chhattisgarh dry weather: Vidarbha Sonhat 2.8, Chachariyapati 2.3, Alirajpur & Gohad 1.8 each, Seoni 1.3, Chand 1.1, Pandharia 0.4, Sidhi (gopadbanas) 0.2.
Peninsula	a few places: Gujarat Region, Saurashtra & Kutch+, Konkan & Goa, Tamil Nadu+, south interior Karnataka++ and Kerala+ isolated places: Madhya Maharashtra, Marathwada, coastal Andhra Pradesh++, Telangana, Rayalaseema+ and coastal and north interior Karnataka Srirangapatna 16.4, Udayagiri 12.2, Thambalapalle 11.0, Enadimangalam AWS 10.8, Kunnamangalam AWS 9.8, Mandya PTO 8.9, Kozhikode 8.3, Pwd makkinampatti 7.8, Pollachi 7.2, Tuticorin 7.0, Addanki 6.7, Savarkundla 6.6, Nippani 5.9, Orvakal 5.6, Thane 5.4, Nanjanagud 5.0, Netrang 4.8, Valia & Velhe 4.3 each, Poladpur 4.1, Shirur ghodnadi & Visakhapatnam 3.5 each, Mahabaleshwar 2.9, Gandhidham 2.4, Amreli 2.3, Santacruz 2.1, Sulya 1.8, Idar 1.4, Cuddapah 1.0, Partur 0.4, Tandur (A) 0.3, Latur 0.2, Beed & Wyra kvk (agro) 0.1 each.
Islands	isolated places: Andaman & Nicobar and Lakshadweep ♦ Maya bandar 0.8, Minicoy 0.2.

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

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 st March.	Dep. from normal
PNE	36.3	-0.9	22.7	0.6	28.0	58	4	54	20	2.9	85.9	63.1
PSN	36.8	-	22.2	-	25.6	68	-	54	-	1.4	37.9	-
LHG	36.3	-1.7	23.6	2.6	29.3	50	-8	41	9	2.2	118	89.9

Local (Pune and neighbourhood) forecast

Max. / Min. Temperature (°C)									Weather
Date	Pune	Pashan	Lohegaon	Chinchwad	Lavale	Magarpatta	NDA	Koregaon Park	
14/05	37 / 22.7*	37 / 22.2*	37 / 23.6*	39 / 24.4*	38 / --	37 / --	37 / 21.4*	39 / 23.3*	Mainly clear sky becoming partly cloudy sky towards afternoon/evening with development of thunder, lightning and rain very likely.
15/05	38 / 23	38 / 23	38 / 24	39 / 25	39 / 23	38 / 22	38 / 22	39 / 24	Mainly clear sky becoming partly cloudy sky towards afternoon/evening with development of thunder, lightning and rain very likely.
16/05	37 / 24	37 / 24	37 / 24	38 / 25	38 / 24	37 / 23	37 / 23	38 / 24	Mainly clear sky becoming partly cloudy sky towards afternoon/evening with development of thunder, lightning and rain very likely.
17/05	37 / 24	37 / 24	37 / 24	38 / 25	38 / 24	37 / 23	37 / 23	38 / 24	Mainly clear sky becoming partly cloudy sky towards afternoon/evening.
18/05	38 / 23	38 / 23	38 / 23	39 / 25	39 / 23	38 / 22	38 / 22	39 / 23	Mainly clear sky.
19/05	38 / 22	38 / 22	38 / 23	39 / 25	39 / 22	38 / 22	38 / 22	39 / 23	Mainly clear sky.
20/05	38 / 22	38 / 22	38 / 23	39 / 25	39 / 22	38 / 22	38 / 22	39 / 23	Mainly clear sky.

* = realized temperature

Mumbai (Colaba)				Nagpur (AP)		
Date 2024	T max °C	T min °C	Weather	T max °C	T min °C	Weather
14/05	37	26	Heat wave.	40	24	Rain or thundershowers with strong gusty winds.
15/05	37	26	Heat wave.	40	24	Partly cloudy sky.
16/05	35	26	Rain or thundershowers would occur towards afternoon or evening.	41	25	Partly cloudy sky.
17/05	33	27	Mainly clear sky.	41	26	Partly cloudy sky.
18/05	33	27	Clear sky.	41	27	Partly cloudy sky.
19/05	33	27	Mainly clear sky.	41	26	Partly cloudy sky.
20/05	33	26	Mainly clear sky.	41	27	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 mm
Moderate rain	15.6 to 64.4 mm
Heavy rain	64.5 to 115.5 mm
Very heavy rain	115.6 to 204.4 mm
Extremely heavy rain	≥ 204.5 mm
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