

Wednesday, 15th May 2024 (25th 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. 25°N. The trough in westerlies roughly along long. 88°E to the north of lat. 21°N at 3.1 km above m. s. l. persisted. Above two systems are likely to move east-northeastwards. The cyclonic circulation over southwest Bangladesh & neighbourhood lay over Assam & neighbourhood at 0.9 km above m. s. l. The cyclonic circulation over west Vidarbha & neighbourhood lay over east Vidarbha & neighbourhood at 0.9 km above m. s. l. The trough from cyclonic circulation over southeast Arabian sea & adjoining Kerala to Marathwada ran from south interior Karnataka to east Vidarbha at 0.9 km above m. s. l. A cyclonic circulation lay over south Haryana & neighbourhood at 0.9 km above m. s. l. A cyclonic circulation lay over northwest Uttar Pradesh & neighbourhood between 1.5 km & 3.1 km above m. s. l. A cyclonic circulation lay over central parts of Madhya Pradesh & neighbourhood at 1.5 km above m. s. l. A cyclonic circulation lay over southwest Bay of Bengal & adjoining south Sri Lanka which extended upto 4.5 km above m. s. l. tilting southwestwards with height. A trough ran from the above cyclonic circulation over southwest Bay of Bengal & adjoining south Sri Lanka to Lakshadweep between 1.5 km & 4.5 km above m. s. l. The cyclonic circulation over southeast Arabian sea & adjoining Kerala has merged with the above trough. Moderate to intense convection over southeast & adjoining eastcentral Bay of Bengal in association with a feeble cyclonic circulation at lower levels as observed in Oceansat-3 image became less marked. The cyclonic circulation over north Equatorial Indian Ocean & adjoining Comorin area has become unimportant for Indian region.

Day temperatures were markedly above normal (5.1°C or more) at isolated places Assam & Meghalaya; appreciably above normal (3.1°C to 5.0°C) at isolated places over Nagaland, Manipur, Mizoram & Tripura and Saurashtra & Kutch and Konkan & Goa; above normal (1.6°C to 3.0°C) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at isolated places over Punjab, Haryana-Chandigarh-Delhi, Bihar and coastal Karnataka. These were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Vidarbha, Odisha, coastal Andhra Pradesh & Yanam, Tamil Nadu, Puducherry & Karaikal and Gujarat Region; below normal (-1.6°C to -3.0°C) at a few places over west Madhya Pradesh and Telangana; at isolated places over east Madhya Pradesh, Chhattisgarh, Marathwada and Rayalaseema and near normal over rest parts of the country. Yesterday, **the highest maximum temperature of 44.0°C was reported at Nuapada (Odisha) over the country.**

Hailstorms were reported at isolated places over Madhya Pradesh, Konkan, Marathwada, Vidarbha and Madhya Maharashtra.

Thunderstorm were observed at many paces over Madhya Pradesh; at some places over Gangetic West Bengal, Jharkhand, Gujarat Region, Madhya Maharashtra, Konkan & Goa, Marathwada, Rajasthan, Chhattisgarh, coastal Andhra Pradesh, Telangana, Rayalaseema, Karnataka, Kerala and Tamil Nadu.

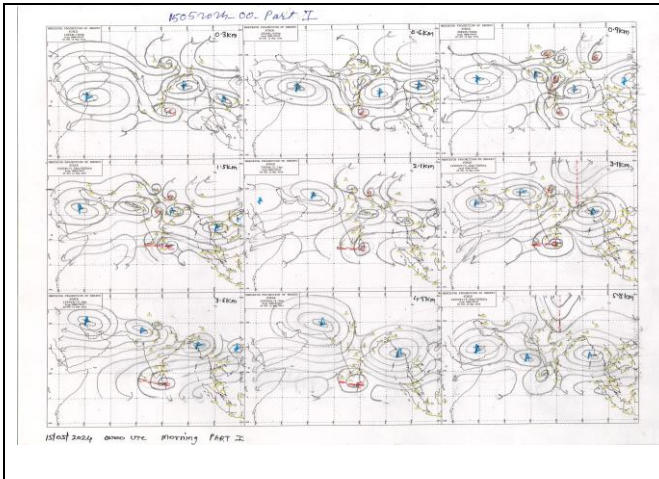


Fig. 1. Analysed upper air chart based on 00z observation (Part 1)

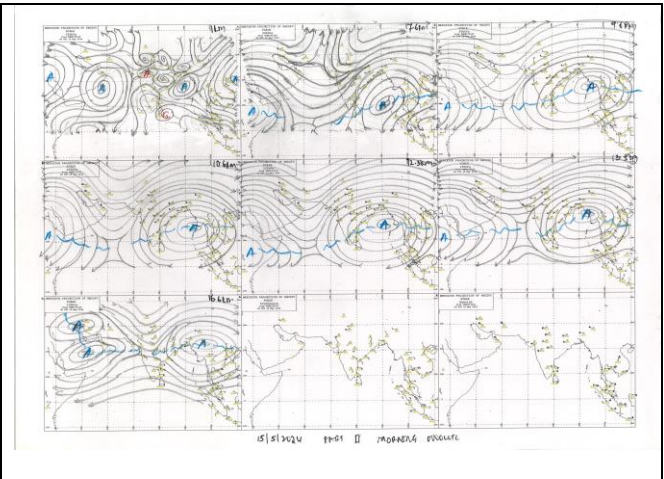


Fig. 2. Analysed upper air chart based on 00z observation (Part 2)

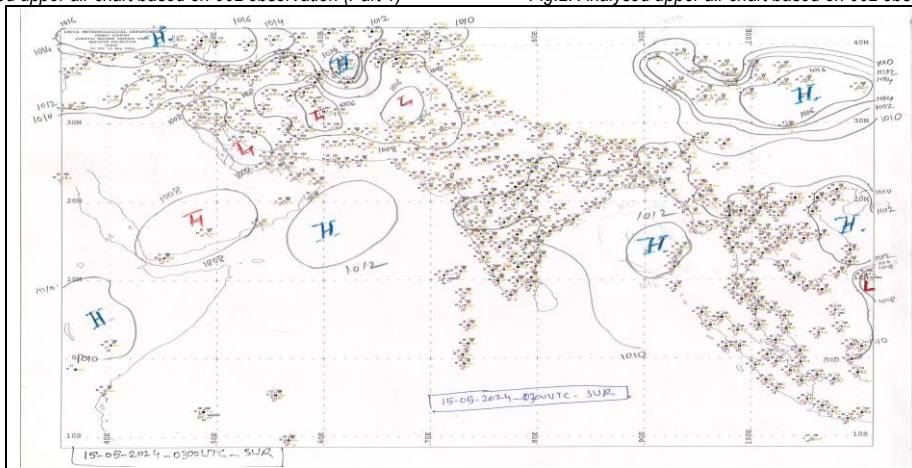


Fig. 3. Analysed surface chart based on 03z observation

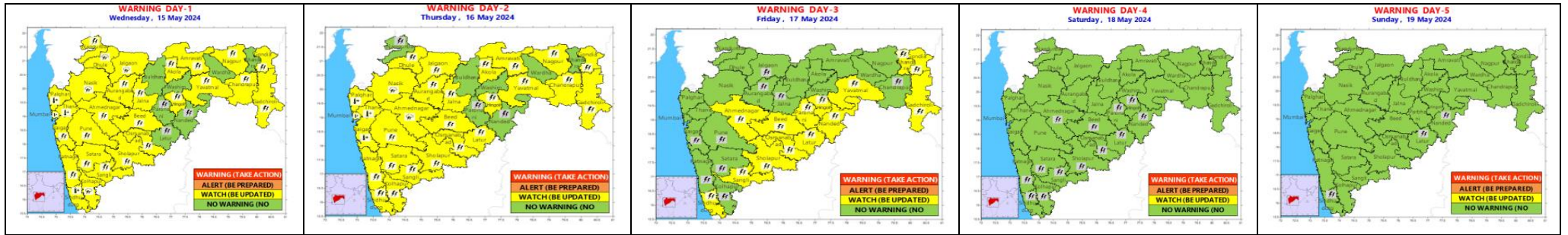
Indian Regions	Realised rain fall (chief amount in cm during past 24 hrs):
East	isolated places: Arunachal Pradesh, Assam & Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal ♦, Odisha and Jharkhand dry weather: Bihar Bari 6.1, Kolnara 5.4, Umiam ARG 3.1, Barapani 2.7, Fatehpur 1.9, Lala ARG 1.7, Buxaduar 1.6, Kiphire & Gangtok 0.8 each, Seppa, Nachu ARG & Barobhisha 0.6 each, Borio 0.5, Angul 0.4, Chandel AWS & Dum dum 0.1 each.
North	isolated places: west Uttar Pradesh, Uttarakhand ♦ and Rajasthan dry weather: east Uttar Pradesh, Haryana, Punjab, Himachal Pradesh and Jammu-Kashmir and Ladakh Chotan 2.1, Mahroni 2.0, Kumbhalgarh SR 1.8, Ramsar SR & Khandar SR 1.2 each, Lalitpur 0.6, Barner 0.5, Mounnt abu 0.4, Munsiyari 0.1.
Central	a few places: Vidarbha isolated places: Madhya Pradesh dry weather: Chhattisgarh Salwani 3.6, Vijayraghgarh 3.0, Kolaras 2.6, Amanganj 2.4, Ghatanji 2.0, Washim 1.9, Narmadapuram 1.3, Zarizamni 1.1, Chindwara-aws 0.9.
Peninsula	most places: north interior Karnataka many places: coastal Karnataka a few places: Tamil Nadu+ and Kerala+ isolated places: Gujarat Region, Konkan & Goa, Madhya Maharashtra, Marathwada, coastal Andhra Pradesh+, Telangana, Rayalaseema and south interior Karnataka ♦ dry weather: Saurashtra & Kutch Neryamangalam ARG 9.3, Kovilankulam & Aruppukottai kvk AWS 7.9 each, Tenali 6.5, Nizamabad 6.3, Erimayur ARG 5.7, Jangamaheswarapuram 4.6, Regode 4.3, Pattikanda 4.2, Sulur 4.0, Dabolim n.a.s. navy 3.2, Navipet & Belgaum / Sambra a 3.1 each, Ponda 2.8, Udgir 2.7, Mangalagiri 2.6, Matheran & Gooty 2.3 each, Udgir IMD parttime 2.1, Parbhani 2.0, Bajpe AP & Punalur 1.7 each, Sholapur & Trimbakshwar 1.6 each, Shahuwadi 1.4, Sagbara 1.3, Karwar 0.9, Kalaburagi & Gadag 0.6 each, Chhota udepur 0.5, Kumool 0.4, Dahod 0.3, Honavar 0.1.
Islands	isolated places: Andaman & Nicobar dry weather: Lakshadweep Hut bay 0.3.

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
		15 May	16 May	17 May	18 May	19 May	20 May	21 May			15 May	16 May	17 May	18 May	19 May	20 May	21 May
1	Andaman Nicobar Islands	S	F	F	W	W +	W	W	19	west Madhya Pradesh	I R	I R	D	D	D	D	D
2	Arunachal Pradesh	F R	F R +	W R +	W R +	W R +	W	F	20	east Madhya Pradesh	I R	I R	I R	D	D	D	D
3	Assam-Meghalaya	I R	S R	W R +	W R	W R	W	F	21	Gujarat region	I R	I R	D	D	D	D	D
4	Nagaland-Manipur-Mizoram-Tripura	I R	I R	S R	S R	S R	F	F	22	Saurashtra and Kutch	D	D	D	D	D	D	D
5	Sub Himalayan West Bengal/Sikkim	S R	F R	S R	S R	F R	F	F	23	Konkan and Goa	I R	I R	I R	I	I	I	I
6	Gangetic West Bengal	I	I	D	D	I	S	S	24	Madhya Maharashtra	I R	I R	I R	I	D	D	D
7	Odisha	I R	I R	I	I R	I R	I	I	25	Marathwada	I R	I R	I R	I	I	D	D
8	Jharkhand	D	D	D	D	D	I	I	26	Vidarbha	I R	I R	I R	I	D	D	D
9	Bihar	D	D	D	D	I	I	S	27	Chhattisgarh	I R	I R	I R	I R	I R	I	I
10	east Uttar Pradesh	D	D	D	D	D	D	I	28	Coastal Andhra Pradesh and Yanam	I R	I R	I R	I R	I R	I	I
11	west Uttar Pradesh	D	D	D	D	D	D	D	29	Telangana	I R	S R	I R	I R	I R	I	I
12	Uttarakhand	D	D	I	I	I	I	I	30	Rayalaseema	I R	S R	S R	S R	I R	I	I
13	Haryana, Chandigarh and Delhi	D	D	D	D	D	D	D	31	Tamil Nadu, Puducherry and Karaikal	F R	F R	F R	F R	F R	S	S
14	Punjab	D	D	D	D	D	D	D	32	Coastal Karnataka	F R	W R	W R	W R	F R	F	F
15	Himachal Pradesh	D	D	I	I	I	I	I	33	North interior Karnataka	F R	F R	S R	S R	S R	I	I
16	Jammu-Kashmir and Ladakh	D	D	I	S	S	I	I	34	South interior Karnataka	F R	F R	F R	F R	F R	S	S
17	west Rajasthan	D	D	D	D	D	D	D	35	Kerala and Mahe	W R	W R	W R	W R	W R	W	W
18	east Rajasthan	I R	D	D	D	D	D	D	36	Lakshadweep	F	F	F	W R	W R	W	W

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 I = Squall / Gusty wind / strong wind / gale wind - = cold wave/cold day += heat wave/warm night/hot and humid weather S = Duststorm SS = ground frost H = 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	37.1	-0.1	21.4	-0.7	27.6	63	9	49	15	0.0+	85.9	62.2
PSN	37.5	-	21.8	-	26.4	69	-	50	-	0.0	37.9	-
LHG	37.0	-1.0	22.5	1.5	27.0	67	9	44	12	0.0+	118	88.8

Local (Pune and neighbourhood) forecast

Date	Max. / Min. Temperature (°C)								Weather
	Pune	Pashan	Lohegaon	Chinchwad	Lavale	Magarpatta	NDA	Koregaon Park	
15/05	37 / 21.4*	38 / 21.8*	37 / 22.5*	38 / 24.5*	39 / 24.2*	38 / 24.7*	37 / 21.2*	39 / 24.0*	Mainly clear sky becoming partly cloudy sky towards afternoon/evening with development of thunder, lightning and light rain likely.
16/05	39 / 21	40 / 22	39 / 23	40 / 24	41 / 24	40 / 24	39 / 21	41 / 24	Mainly clear sky becoming partly cloudy sky towards afternoon/evening with development of thunder, lightning and light rain likely.
17/05	39 / 22	40 / 23	39 / 24	40 / 25	41 / 25	40 / 25	39 / 22	41 / 25	Mainly clear sky becoming partly cloudy sky towards afternoon/evening.
18/05	39 / 23	40 / 24	39 / 25	40 / 26	41 / 26	40 / 26	39 / 23	41 / 26	Mainly clear sky.
19/05	40 / 22	40 / 23	40 / 24	40 / 25	41 / 25	40 / 25	40 / 22	41 / 25	Clear sky.
20/05	39 / 22	39 / 23	39 / 24	39 / 25	40 / 25	39 / 25	39 / 22	40 / 25	Clear sky.
21/05	39 / 22	39 / 23	39 / 24	39 / 25	40 / 25	39 / 25	39 / 22	40 / 25	Clear sky.

* = realized temperature

Date 2024	Mumbai (Colaba)			Nagpur (AP)		
	T max °C	T min °C	Weather	T max °C	T min °C	Weather
15/05	37	27	Partly cloudy sky with possibility of development of thunder/lightning.	39	24	Rain or thundershowers with strong gusty winds.
16/05	35	27	Rain or thundershowers would occur towards afternoon or evening.	39	25	Rain or thundershowers with strong gusty winds.
17/05	33	27	Partly cloudy sky.	40	24	Partly cloudy sky.
18/05	34	28	Mainly clear sky.	41	25	Partly cloudy sky.
19/05	33	27	Mainly clear sky.	41	26	Partly cloudy sky.
20/05	32	28	Mainly clear sky.	42	27	Partly cloudy sky.
21/05	32	28	Mainly clear sky.	42	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