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Weekly Weather Report for Gujarat state and Diu, Daman Dadra Nagar Haveli for the week ending on 17.07.2024.

MAIN FEATURES:

Weather realised during 24 hour ending at 0830 hours IST of the date

Monsoon was active over Gujarat region on 13.07.2024; over Gujarat region and Saurashtra- Kutch on 15.07.2024; over Saurashtra- Kutch on 16.07.2024.

Extremely heavy rainfall occurred at isolated places in the district of South Gujarat region namely Surat on 16.07.2024.

Very heavy rainfall occurred over Daman on 12.07.2024; in the districts of Gujarat region namely Valsad, Navsari & in Dadara Nagar Haveli on 13.07.2024; in the districts of South Gujarat region namely Valsad & Navsari on 14.07.2024; in the district of South Gujarat region namely Surat on 15.07.2024; places in the district of South Gujarat region namely Bharuch and Narmada on 16.07.2024; at isolated places in the districts of Saurashtra namely Rajkot, Junagadh & Gir Somnath on 17.07.2024.

Heavy rainfall occurred at isolated places in the districts of Gujarat region namely Anand, Surat, Valsad and Navsari on 12.07.2024; in the districts of Gujarat region namely Panchmahal, Surat, Tapi, Valsad and Navsari on 13.07.2024; in the districts of South Gujarat region namely Surat, Tapi, Valsad, Navsari and Daman on 14.07.2024; in the districts of South Gujarat region namely Aravalli & Dahod on 15.07.2024; in the districts of Gujarat region namely Sabarkantha, Panchmahal, Anand, Navsari and Surat; in the district of Saurashtra namely Amreli on 16.07.2024; at isolated places in the districts of Gujarat region namely Sabarkantha, and Banaskantha; in the district of Saurashtra namely Dwarka on 17.07.2024.

SYNOPTIC SITUATION:

Last week's **cyclonic circulation** over Kutch extending upto 1.5 km above mean sea level tilting south westwards with height became less marked on 11.07.2024.

Last week's **shear zone** ran roughly along 18°N at 5.8 km above mean sea level on 11.07.2024, became less marked on 12.07.2024.

A cyclonic circulation lay over North Gujarat & neighbourhood between 3.1 & 5.8 km above mean sea level on 13.07.2024, lay over Gujarat at 5.8 km above mean sea level on 14.07.2024; became less marked on 15.07.2024.

A cyclonic circulation lay over Southwest Pakistan & neighbourhood at 1.5 km above mean sea level on 15.07.2024, became less marked on 16.07.2024.

Last week's **off-shore trough** at mean sea level ran along south Gujarat - north Kerala coasts on 11.07.2024 & 12.07.2024; ran along Maharashtra-north Kerala coasts on 13.07.2024; ran along South Gujarat-north Kerala coasts on 14.07.2024; persisted on 15.07.2024, 16.07.2024, 17.07.2024

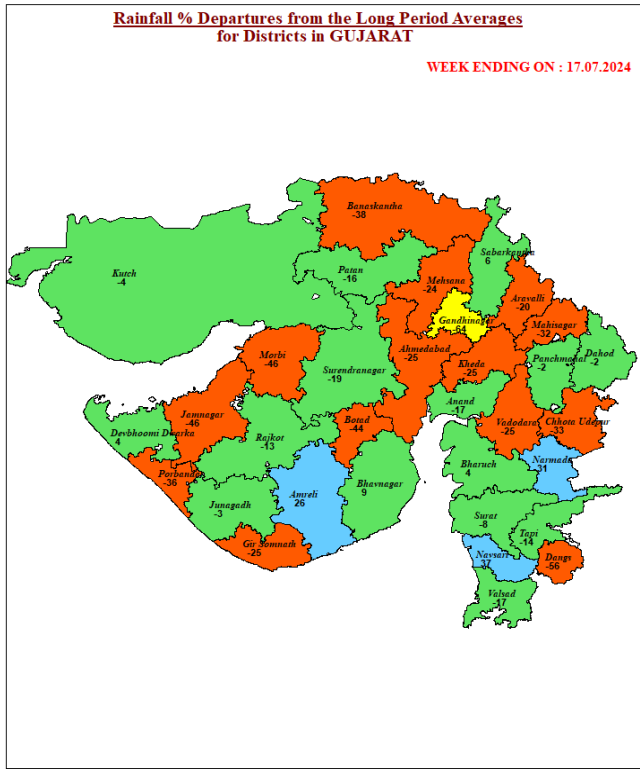
A Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level ran roughly along Long. 70°E to the north of Lat. 30°N on 13.07.2024; persisted on 14.07.2024; ran roughly along Long. 72°E to the north of Lat. 32°N on 15.07.2024, persisted on 16.07.2024, persisted on 17.07.2024

A shear zone ran roughly along 20°N between 3.1 & 7.6 km above mean sea level tilting southwards with height on 15.07.2024, ran roughly along 19°N between 3.1 & 7.6 km above mean sea level tilting southwards with height on

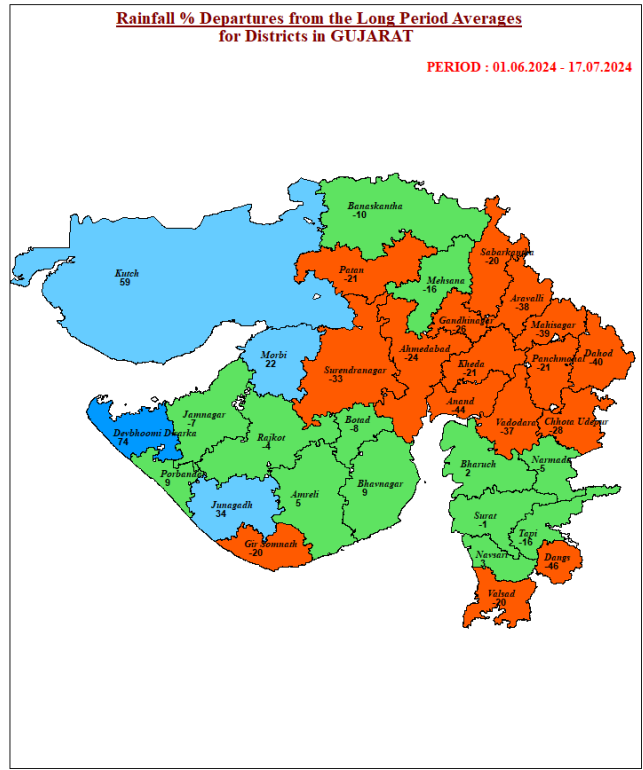
16.07.2024; runs roughly along 20°N between 3.1 & 5.8 km above mean sea level tilting southwards with height on 17.07.2024.

A cyclonic circulation lay over Saurashtra & Kutch and neighbourhood at 0.9 km above mean sea level on 17.07.2024.

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LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%) ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%) ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

DISTRIBUTION OF RAINFALL

REGION/DATE	11.07.2024	12.07.2024	13.07.2024	14.07.2024	15.07.2024	16.07.2024	17.07.2024
NORTH / SOUTH GUJARAT	ISOL/ ISOL	SCT/ FWS	FWS/ WS	ISOL/ FWS	SCT/ SCT	WS/ WS	FWS/ SCT
SAURASHTRA/ KUTCH	SCT/ ISOL	SCT/ SCT	FWS/ ISOL	ISOL/ DRY	ISOL/ DRY	FWS/ WS	FWS/ WS

LEGEND:- LAN : Largely above normal, MAN : Markedly above normal, AAN : Appreciably above normal, AN: Above normal, N; Normal, BN: Below normal, ABN: Appreciably below normal, MBN: Markedly below normal.

DISTRICTWISE WEEKLY RAINFALL DISTRIBUTION
11.07.2024 TO 17.07.2024

Sr. No.	MET. SUBDIVISIONS	ACTUAL in mm	NORMAL in mm	%DEP
	STATES			
	'D&NH AND DD (UT)	246	208.9	18
	GUJARAT	50.6	58.6	-14
	MET. SUBDIVISIONS			
	GUJARAT REGION			
			47	-25
1	AHMEDABAD	35.2		
2	ANAND	52.9	63.6	-17
3	ARAVALLI	55.6	69.2	-20
4	BANASKANTHA	28.6	46.3	-38
5	BHARUCH	59.5	57.1	4
6	CHHOTA UDEPUR	51.4	76.4	-33
7	DADARA & NAGAR HAVELI	259.9	217.5	19
8	DAHOD	53.6	54.6	-2
9	DAMAN	228.2	217.5	5
10	DANGS	95.1	218.2	-56
11	GANDHINAGAR	20.8	58	-64
12	KHEDA	40.9	54.6	-25
13	MAHISAGAR	41.7	61.7	-32
14	MEHSANA	41.9	55.4	-24
15	NARMADA	91.7	69.9	31
16	NAVSARI	222.1	162.7	37
17	PANCHMAHAL	68.3	69.8	-2
18	PATAN	31.1	37.1	-16
19	SABARKANTHA	72.3	68	6
20	SURAT	102.9	111.7	-8
21	TAPI	91.6	105.9	-14
22	VADODARA	49.9	66.7	-25
23	VALSAD	176.8	213.7	-17
	SUBDIVISION RAINFALL	62.9	74.2	-15
	SAURASHTRA & KUTCH			
1	AMRELI	62.8	49.8	26
2	BHAVNAGAR	46.1	42.4	9
3	BOTAD	21.5	38.2	-44
4	DEVBHOO MI DWARKA	43.1	41.3	4
5	DIU	106.8	86.2	24

6	GIR SOMNATH	63.1	84.6	-25
7	JAMNAGAR	33.8	63.2	-46
8	JUNAGADH	80.3	82.6	-3
9	KUTCH	36.1	37.5	-4
10	MORBI	25.2	46.6	-46
11	PORBANDAR	35	54.9	-36
12	RAJKOT	48.7	56	-13
13	SURENDRANAGAR	26.7	32.8	-19
	SUBDIVISION RAINFALL	41.4	46.3	-11

DISTRICTWISE CUMULATIVE RAINFALL DISTRIBUTION
01.06.2024 TO 17.07.2024

SN	MET. SUBDIVISIONS	ACTUAL (in mm)	NORMAL (in mm)	%DEP
	STATES			
	'D&NH AND DD (UT)	817.7	854.3	-4
	GUJARAT	238.9	245.8	-3
	MET. SUBDIVISIONS			
	GUJARAT REGION			
1	AHMEDABAD	168.4	220.1	-24
2	ANAND	150.4	268.2	-44
3	ARAVALLI	155.1	250.6	-38
4	BANASKANTHA	155.1	173.1	-10
5	BHARUCH	278.4	273.8	2
6	CHHOTA UDEPUR	228.3	316.8	-28
7	DADARA & NAGAR HAVELI	880.5	889.3	-1
8	DAHOD	139.6	233.6	-40
9	DAMAN	690.5	889.3	-22
10	DANGS	405.8	757.4	-46
11	GANDHINAGAR	175.8	238.6	-26
12	KHEDA	194.9	247.1	-21
13	MAHISAGAR	148.6	241.7	-39
14	MEHSANA	184.5	219.7	-16
15	NARMADA	321.6	339.5	-5
16	NAVSARI	721.1	702.8	3
17	PANCHMAHAL	217.3	275.8	-21
18	PATAN	126.8	161.5	-21
19	SABARKANTHA	209.6	260.4	-20

20	SURAT	502.5	508.9	-1
21	TAPI	421.4	499.8	-16
22	VADODARA	188.1	296.6	-37
23	VALSAD	654.7	818.4	-20
	SUBDIVISION RAINFALL SAURASHTRA & KUTCH	250.7	310.1	-19
1	AMRELI	252.9	240.4	5
2	BHAVNAGAR	246.1	225.7	9
3	BOTAD	184.9	202.1	-8
4	DEVBHOMI DWARKA	384.3	220.5	74
5	DIU	276.4	361.6	-24
6	GIR SOMNATH	311.1	389.4	-20
7	JAMNAGAR	222.2	238.1	-7
8	JUNAGADH	504.5	375.6	34
9	KUTCH	191.4	120.6	59
10	MORBI	240.2	196.2	22
11	PORBANDAR	314.3	287.3	9
12	RAJKOT	233.1	242.1	-4
13	SURENDRANAGAR	124.4	185.1	-33
	SUBDIVISION RAINFALL	232.5	195.6	19

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