

Table 1 :Best track positions and other parameters of the Depression over North Andaman Sea during 02nd- 03rd April, 2021

Date	Time (UTC)	Centre lat. ° N/ long. ° E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
02/04/2021	0000	11.0	96.3	1.5	1000	25	3	D
	0300	11.0	96.3	1.5	1000	25	3	D
	0600	11.2	96.4	1.5	1000	25	3	D
	1200	11.8	96.8	1.5	1000	25	3	D
	1800	12.3	97.2	1.5	1000	25	3	D
03/04/2021	0000	13.0	97.5	1.5	1002	25	3	D
	0300	13.2	97.6	1.5	1004	20	2	D
	0600	Weakened into a Well-Marked Low-Pressure Area over north Andaman and adjoining south Myanmar coast						

Table 2 :Best track positions and other parameters of the Extremely Severe Cyclonic Storm, “Tauktae” over the Arabian Sea during 14 May- 19 May, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade	
14/05/2021	0300	10.5	72.3	1.5	997	25	3	D	
	0600	11.0	72.5	1.5	996	25	4	D	
	0900	11.5	72.5	2.0	995	30	5	D	
	1200	11.6	72.6	2.0	995	30	6	DD	
	1800	12.2	72.6	2.5	993	35	7	CS	
	2100	12.2	72.6	2.5	992	40	8	CS	
15/05/2021	0000	12.7	72.5	2.5	992	40	8	CS	
	0300	12.8	72.5	2.5	992	40	8	CS	
	0600	13.2	72.6	3.0	990	45	10	CS	
	0900	13.5	72.7	3.0	990	45	10	CS	
	1200	13.8	72.7	3.5	985	55	15	SCS	
	1500	14.2	72.7	3.5	984	55	16	SCS	
	1800	14.5	72.6	3.5	982	60	18	SCS	
	2100	14.7	72.7	3.5	982	60	18	SCS	
16/05/2021	0000	15.0	72.7	4.0	979	65	21	VSCS	
	0300	15.3	72.7	4.0	976	70	24	VSCS	
	0600	15.7	72.7	4.0	976	70	24	VSCS	
	0900	16.2	72.6	4.0	976	70	24	VSCS	
	1200	16.7	72.5	4.5	972	75	28	VSCS	
	1500	17.2	72.3	4.5	968	80	32	VSCS	
	1800	17.5	72.0	4.5	964	85	36	VSCS	
	2100	18.0	71.7	5.0	960	90	40	ESCS	
17/05/2021	0000	18.5	71.5	5.5	950	100	50	ESCS	
	0300	18.8	71.5	5.5	950	100	50	ESCS	
	0600	19.2	71.4	5.5	950	100	50	ESCS	
	0900	19.6	71.4	5.5	950	100	50	ESCS	
	1200	20.1	71.3	5.0	955	95	45	ESCS	
	1500	20.5	71.2	5.0	960	90	40	ESCS	
	Crossed Saurashtra coast about 20 km northeast of Diu, near Lat.20.8°N and Long. 71.1°E during 1530-1730 UTC of 17th May 2021 with maximum sustained wind speed of 90 knots gusting to 100 knots.								
	1800	20.9	71.1	-	964	85	36	VSCS	
	2100	21.3	71.2	-	972	75	28	VSCS	
	18/05/2021	0000	21.5	71.2	-	978	65	22	VSCS
0300		21.6	71.3	-	984	55	16	SCS	
0600		22.0	71.5	-	990	45	10	CS	
0900		22.5	71.8	-	992	40	8	CS	
1200		23.1	72.3	-	993	35	7	CS	
1500		23.6	72.6	-	994	30	6	DD	
1800		24.1	73.0	-	995	30	5	DD	
19/05/2021		0000	24.5	73.3	-	996	25	4	D
	0300	24.9	73.7	-	997	20	3	D	
	0600	25.8	74.8	-	997	20	3	D	
	1200	Weakened into a Well-Marked Low-Pressure Area over Northeast Rajasthan							

Table 3: Best track positions and other parameters of the Very Severe Cyclonic Storm, “YAAS” over the Bay of Bengal during 23 May- 28 May, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
23.05.21	0600	16.1	90.2	1.5	996	25	4	D
	1200	16.2	89.9	1.5	994	25	4	D
	1800	16.3	89.7	2.0	992	30	5	DD
24.05.21	0000	16.3	89.7	2.5	990	35	7	CS
	0300	16.5	89.6	2.5	988	40	8	CS
	0600	16.4	89.6	2.5	988	40	8	CS
	0900	16.8	89.5	2.5	988	40	8	CS
	1200	17.1	89.3	3.0	986	45	10	CS
	1500	17.4	89.2	3.0	986	45	10	CS
	1800	17.6	89.0	3.0	984	50	12	SCS
	2100	17.8	88.9	3.5	982	55	14	SCS
25.05.21	0000	18.0	88.6	3.5	980	55	16	SCS
	0300	18.3	88.3	3.5	980	55	16	SCS
	0600	18.7	88.0	3.5	978	60	18	SCS
	0900	19.1	88.1	3.5	978	60	18	SCS
	1200	19.5	88.0	4.0	976	65	20	VSCS
	1500	19.8	87.9	4.0	976	65	20	VSCS
	1800	20.1	87.8	4.0	974	70	24	VSCS
	2100	20.4	87.6	4.0	970	75	28	VSCS
26.05.21	0000	20.8	87.3	4.0	970	75	28	VSCS
	0300	21.2	87.1	4.0	970	75	28	VSCS
	Crossed north Odisha coast near Latitude 21.35°N and Longitude 86.95°E, about 20 km to the south of Balasore as a VSCS with maximum sustained wind speed of 75 knots gusting to 85 knots (130 -140 kmph gusting to 155 kmph) between 0500 & 0600 UTC							
	0600	21.4	86.9	-	970	75	28	VSCS
	0900	21.6	86.7	-	978	55	16	SCS
	1200	21.8	86.6	-	984	45	10	CS
	1500	22.2	86.2	-	986	40	8	CS
	1800	22.5	86.0	-	988	30	6	DD
27.05.21	0000	22.8	85.8	-	988	30	6	DD
	0300	23.1	85.7	-	990	30	6	DD
	0600	23.5	85.6	-	991	25	5	D
	1200	24.3	85.3	-	992	25	4	D
	1800	24.7	84.8	-	992	25	4	D
28.05.2021	0000	Weakened into a well-marked low-pressure area over Bihar and adjoining east Uttar Pradesh						

Table 4: Best track positions and other parameters of the Deep Depression over the Northwest Bay of Bengal and adjoining Odisha coast during 12 Sept- 15 Sept, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
12.09.2021	1200	20.3	87.4	1.5	992	25	4	D
	1800	20.4	87.1	1.5	992	25	4	D
13.09.2021	0000	20.6	87.0	2.0	990	30	4	DD
	0300	20.9	86.5	2.0	990	30	6	DD
	Crossed north Odisha coast, close to south of Chandbali between 0530 & 0630 hrs IST as a Deep Depression with maximum sustained wind speed of 30 knots							
	0600	21.1	86.2	-	990	30	6	DD
	1200	21.4	85.5	-	990	30	6	DD
	1800	21.6	84.8	-	990	30	6	DD
	14.09.2021	0000	22.0	83.6	-	990	30	6
0300		22.1	83.4	-	990	25	5	D
0600		22.4	83.0	-	990	25	5	D
1200		22.7	82.5	-	996	25	4	D
1800		23.0	82.0	-	996	25	4	D
	0000	Weakened into a well marked low pressure area over northeast Madhya Pradesh & neighbourhood						

Table 5 : Best track positions and other parameters of the Cyclonic Storm GULAB over the Northwest Bay of Bengal and adjoining Odisha coast during 24 Sept- 28 Sept, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
24.09.2021	1200	18.3	91.2	1.5	1000	25	4	D
	1800	18.4	90.4	1.5	1000	25	4	D
25.09.2021	0000	18.4	89.7	2.0	999	30	5	DD
	0300	18.4	89.3	2.0	998	30	6	DD
	0600	18.4	88.7	2.0	998	30	6	DD
	1200	18.3	88.3	2.5	997	35	7	CS
	1500	18.3	88.1	2.5	997	35	7	CS
	1800	18.3	87.9	2.5	996	35	7	CS
	2100	18.3	87.6	2.5	996	35	7	CS
26.09.2021	0000	18.3	87.3	2.5	994	40	8	CS
	0300	18.4	86.4	2.5	994	40	8	CS
	0600	18.4	85.9	3.0	992	45	10	CS
	0900	18.4	85.3	3.0	992	45	10	CS
	1200	18.4	84.6	3.0	992	45	10	CS
		Crossed north Andhra Pradesh – south Odisha coasts near latitude 18.4 ^o N and longitude 84.2 ^o E, about 20 km north of Kalingapatnam with a maximum sustained wind speed of 75-85 kmph gusting to 95 kmph during 1930 & 2030 hrs IST (1400-1500 UTC)						
	1500	18.3	83.8	-	992	45	10	CS
	1800	18.4	83.4	-	994	35	7	CS
	2100	18.4	83.0	-	996	30	6	DD
27.09.2021	0000	18.4	82.8	-	996	30	6	DD
	0300	18.4	82.5	-	996	30	6	DD
	0600	18.5	82.0	-	996	30	6	DD
	1200	18.6	80.1	-	998	25	4	D
	1800	18.7	79.4	-	998	25	4	D
28.09.2021	0000	19.0	78.2	-	998	25	4	D
	0300	19.4	77.3	-	999	20	3	D
	0600	Weakened into a well marked low pressure area over western parts of Vidarbha and neighbourhood						

Table 6: Best track positions and other parameters of the Severe Cyclonic Storm SHAHEEN over Arabian Sea during 30 Sept- 4 Oct, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
30.09.2021	0000	22.7	69.5	1.5	998	25	4	D
	0300	22.7	68.6	1.5	998	25	4	D
	0600	22.8	68.2	1.5	998	25	4	D
	1200	23.1	67.4	1.5	998	25	4	D
	1800	23.1	66.8	2.0	996	30	6	DD
01.10.2021	0000	23.2	65.5	2.5	995	35	7	CS
	0300	23.2	64.9	2.5	994	40	8	CS
	0600	23.2	64.5	3.0	992	45	10	CS
	0900	23.3	64.1	3.0	991	45	11	CS
	1200	23.4	63.7	3.5	987	55	15	SCS
	1500	23.6	63.4	3.5	986	55	16	SCS
	1800	23.6	63.2	3.5	984	60	18	SCS
02.10.2021	2100	23.8	62.8	3.5	984	60	18	SCS
	0000	23.8	62.4	3.5	984	60	18	SCS
	0300	23.9	62.1	3.5	984	60	18	SCS
	0600	24.1	61.8	3.5	984	60	18	SCS
	0900	24.3	61.3	3.5	984	60	18	SCS
	1200	24.5	60.7	3.5	984	60	18	SCS
	1500	24.5	60.4	3.5	984	60	18	SCS
	1800	24.4	60.0	3.5	984	60	18	SCS
03.10.2021	2100	24.4	59.7	3.5	984	60	18	SCS
	0000	24.3	59.5	3.5	984	60	18	SCS
	0300	24.2	59.0	3.5	984	60	18	SCS
	0600	24.1	58.6	3.5	984	60	18	SCS
	0900	24.1	58.3	3.5	984	60	18	SCS
	1200	24.0	58.0	3.5	984	60	18	SCS
	1500	24.0	57.7	3.5	984	60	18	SCS
	1800	23.9	57.3	3.5	986	55	16	SCS
03.10.2021		Crossed Oman coast during 1900 to 2000 UTC of 3rd October, near latitude 23.9°N and longitude 57.3°E, about 120 km west-northwest of Muscat as a severe cyclonic storm with a maximum sustained wind speed of 95-105 kmph gusting to 115 kmph.						
	2100	23.8	57.2	-	988	55	14	SCS
04.10.2021	0000	23.7	56.8	-	994	40	08	CS
	0300	23.5	56.4	-	998	30	05	DD
	0600	23.3	56	-	1000	20	03	D
	1200	23.3	Weakened into a well-marked low pressure area over north Oman and adjoining United Arab Emirates					

Table 7: Best track positions and other parameters of the Depression over Arabian Sea during 07 Nov- 09 Nov, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E	C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
07.10.2021	0300	14.0 67.5	1.5	1002	25	4	D
	0600	14.2 67.2	1.5	1002	25	4	D
	1200	14.3 67.0	1.5	1002	25	4	D
	1800	14.5 66.8	1.5	1002	25	4	D
08.10.2021	0000	14.6 66.6	1.5	1002	25	4	D
	0300	14.7 66.4	1.5	1002	25	4	D
	0600	14.7 66.2	1.5	1002	25	4	D
	1200	14.6 65.9	1.5	1003	25	3	D
	1800	14.5 65.8	1.5	1003	25	3	D
09.10.2021	0000	Depression weakened into a Well Marked Low pressure Area over central parts of Arabian Sea					

Table 8: Best track positions and other parameters of the Depression over Bay of Bengal during 10 Nov- 12 Nov, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E	C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade	
10.11.2021	1200	10.6 83.4	1.5	1000	25	4	D	
	1800	11.3 82.3	1.5	1000	25	4	D	
11.11.2021	0000	12.0 81.5	1.5	1000	25	4	D	
	0300	12.3 81.2	1.5	1000	25	4	D	
	0600	12.6 80.8	1.5	1000	25	4	D	
	1200	12.9 80.3	1.5	1000	25	4	D	
	Crossed north Tamil Nadu & adjoining south Andhra Pradesh coasts close to Chennai, near Lat. 12.95°N and Long. 80.25°E during 1730 and 1830 hrs IST with a maximum sustained wind speed of 45 – 55 kmph gusting to 65 kmph.							
	1800	13.1 79.8	1.5	1000	20	3	D	
12.11.2021	0000	Depression weakened into a Well Marked Low pressure Area over north Tamilnadu & neighborhood.						

Table 9: Best track positions and other parameters of the Depression over southwest Bay of Bengal during 18 Nov- 19 Nov, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
18.11.2021	0300	11.0	82.3	1.5	1000	25	4	D
	0600	11.2	81.7	1.5	1000	25	4	D
	1200	11.8	80.9	1.5	1000	25	4	D
	1800	12.2	80.5	1.5	1000	25	4	D
19.11.2021		Crossed north Tamil Nadu & adjoining south Andhra Pradesh coasts between Puducherry & Chennai near Lat. 12.45°N and Long., 80.1°E during 2130-2230 UTC of 18 th November 2021 (0300-0400 hrs IST of 19th November, 2021)						
	0000	12.5	80.0	-	1000	25	4	D
	0300	12.7	79.7	-	1002	20	3	D
	0600	Weakened into a Well Marked Low pressure Area over north Tamil Nadu & neighborhood.						

Table 10: Best track positions and other parameters of the Cyclonic Storm, “JAWAD” over the Bay of Bengal during 02 - 06 December, 2021

Date	Time (UTC)	Centre lat. ^o N/ long. ^o E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
02.12.21	1200	11.0	89.0	1.5	1004	25	4	D
	1800	12.0	87.5	1.5	1004	25	4	D
03.12.21	0000	13.4	86.4	2.0	1002	30	5	DD
	0300	14.0	86.0	2.0	1002	30	6	DD
	0600	14.5	85.6	2.5	1001	35	7	CS
	0900	15.0	85.3	2.5	1001	35	7	CS
	1200	15.5	85.0	2.5	1000	40	8	CS
	1500	15.7	85.0	2.5	1000	40	8	CS
	1800	15.9	84.8	2.5	1000	40	8	CS
04.12.21	2100	16.0	84.9	2.5	1000	40	8	CS
	0000	16.2	84.7	2.5	1000	40	8	CS
	0300	16.3	84.7	2.5	1000	40	8	CS
	0600	16.4	84.7	2.5	1001	35	7	CS
	0900	16.5	84.7	2.5	1001	35	7	CS
	1200	16.9	84.8	2.0	1002	30	6	DD
05.12.21	1800	17.5	85.0	2.0	1002	30	6	DD
	0000	17.9	85.5	2.0	1002	30	6	DD
	0300	18.7	85.7	2.0	1003	30	5	DD
	0600	19.1	85.9	2.0	1003	30	5	DD
	0900	19.5	86.2	1.5	1004	25	4	D
	1200	20.1	86.9	1.5	1004	25	4	D
06.12.21	1800	20.6	87.3	1.5	1004	25	4	D
	0000	Weakened into a well marked low pressure area over northwest Bay of Bengal off West Bengal-Bangladesh coasts						