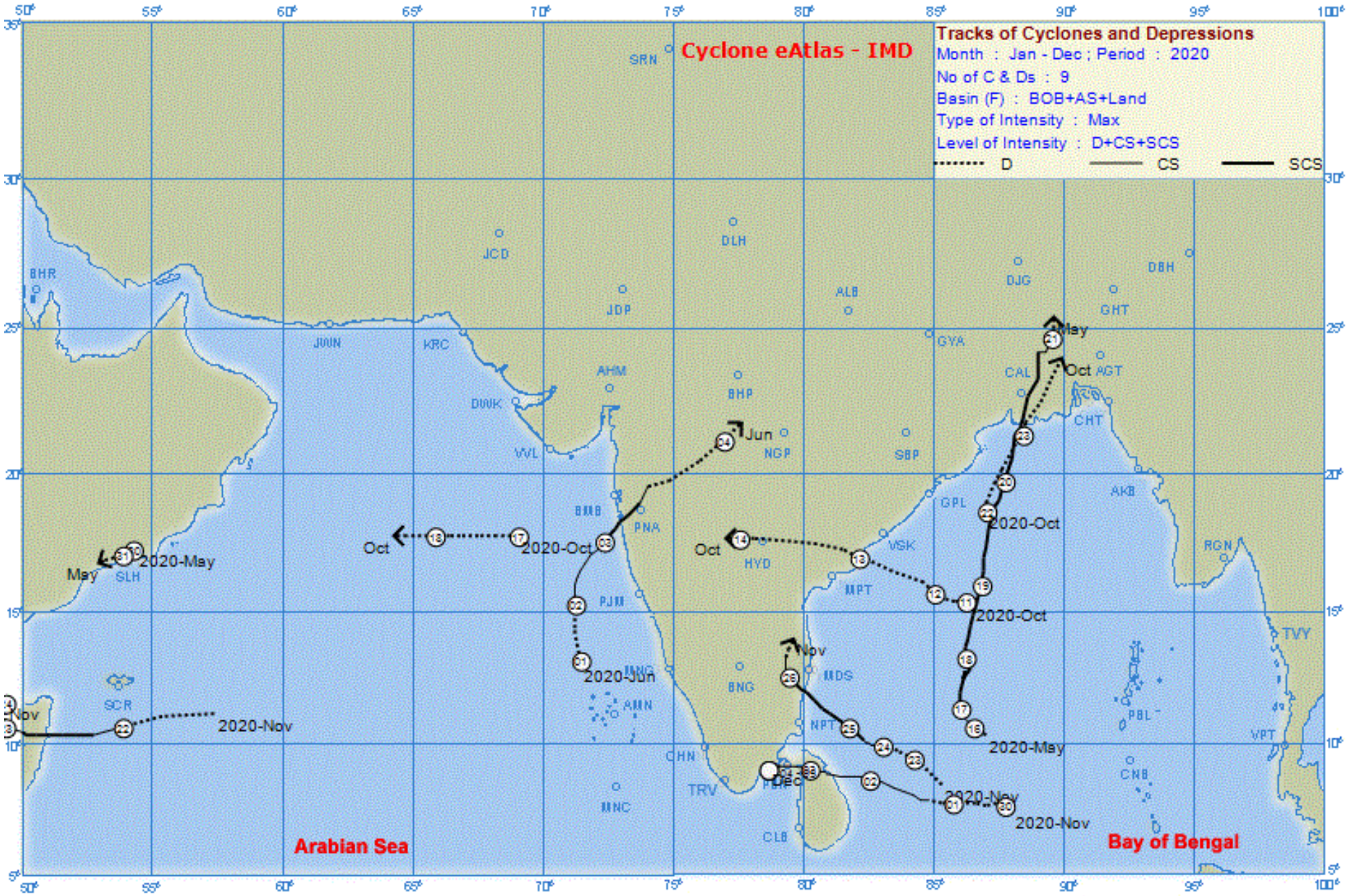
Cyclone eAtlas - IMD
Tracks of Cyclones and Depressions
Month : Jan - Dec ; Period : 2020
No of C & Ds : 9
Basin (F) : BOB+AS+Land
Type of Intensity : Max
Level of Intensity : D+CS+SCS
D
CS
SCS
Arabian Sea
Bay of Bengal
2020-May
2020-Oct
2020-Jun
2020-Nov
2020-Oct
2020-May
2020-Nov
May
Oct
Jun
Nov
Dec
SRN
JCD
DLH
DJG
DBH
BHR
JDP
ALB
GHT
JWN
KRC
GYA
AHM
BHP
CAL
AGT
DWK
NGP
SBP
CHT
VVL
BMB
PNA
GPL
AKB
HYD
VSK
RGN
MPT
PJM
TVY
MNG
BNG
MDS
PBL
NPT
VPT
CHN
CNB
TRV
MNC
CLB

Table:1 Best track positions and other parameters of the Super Cyclonic Storm, 'AMPHAN' over the Bay of Bengal during16 May-21 May, 2020

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
16/05/2020	0000	10.4	87.0	1.5	1000	25	03	**D**
	0300	10.7	86.5	1.5	1000	25	03	D
	0600	10.9	86.3	1.5	1000	25	03	D
	0900	10.9	86.3	2.0	998	30	05	**DD**
	1200	10.9	86.3	2.5	996	35	07	**CS**
	1500	11.0	86.2	2.5	995	40	08	CS
	1800	11.1	86.1	2.5	995	40	08	CS
	2100	11.3	86.1	3.0	994	45	10	CS
17/05/2020	0000	11.4	86.0	3.0	993	45	11	CS
	0300	11.4	86.0	3.0	990	50	12	**SCS**
	0600	11.5	86.0	3.5	988	55	15	SCS
	0900	11.7	86.0	4.0	980	65	22	**VSCS**
	1200	12.0	86.0	4.0	978	70	25	VSCS
	1500	12.8	86.2	4.5	972	75	28	VSCS
	1800	12.5	86.1	4.5	970	80	32	VSCS
	2100	12.9	86.4	5.0	962	90	40	**ESCS**
18/05/2020	0000	13.2	86.3	5.5	952	100	50	ESCS
	0300	13.3	86.2	6.0	936	115	66	ESCS
	0600	13.4	86.2	6.5	930	120	72	**SuCS**
	0900	13.7	86.2	6.5	930	120	72	SuCS
	1200	14.0	86.3	6.5	926	125	76	SuCS
	1500	14.5	86.4	6.5	926	125	76	SuCS
	1800	14.9	86.5	6.5	920	130	84	SuCS
	2100	15.2	86.6	6.5	920	130	84	SuCS
19/05/2020	0000	15.6	86.7	6.5	926	125	76	SuCS
	0300	16.0	86.8	6.5	930	120	72	SuCS
	0600	16.5	86.9	6.0	936	115	66	**ESCS**
	0900	17.0	86.9	6.0	942	110	60	ESCS
	1200	17.4	87.0	5.5	946	105	56	ESCS
	1500	18.1	87.1	5.5	948	100	50	ESCS
	1800	18.4	87.2	5.5	948	100	50	ESCS
	2100	18.7	87.2	5.5	948	100	50	ESCS
20/05/2020	0000	19.1	87.5	5.0	952	95	46	ESCS
	0300	19.8	87.7	5.0	954	95	44	ESCS
	0600	20.6	88.0	5.0	956	90	42	ESCS
	0900	21.4	88.1	5.0	960	90	42	ESCS
	Crossed West Bengal – Bangladesh coasts as a very severe cyclonic storm across Sundarbans, near lat.21.65°N/long. 88.3°E during1000-1200 UTC, with maximum sustained wind speed of 85 knots gusting to 100 knots.							

	1200	21.9	88.4	-	957	85	36	**VSCS**
	1500	22.7	88.6	-	968	65	34	VSCS
	1800	23.3	89.0	-	978	50	14	**SCS**
	2100	24.2	89.0	-	986	45	12	**CS**
21/05/2020	0000	24.2	89.3	-	988	40	10	CS
	0300	24.7	89.5	-	990	35	08	CS
	0600	25.0	89.6	-	992	30	06	**DD**
	1200	25.4	89.6	-	995	20	04	**D**
	1800	Weakened into a well marked low pressure area over north Bangladesh and neighbourhood						

Table 2: Best track positions and other parameters of the Depression, over south coastal Oman and adjoining Yemen during 29 May- 01 June, 2020

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
29/05/2020	0900	17.3	54.3	-	1000	25	3	**D**
	1200	17.3	54.3	-	1000	25	3	D
	1800	17.3	54.3	-	1000	25	3	D
30/05/2020	0000	17.3	54.2	-	1000	25	3	D
	0300	17.3	54.2	-	1000	25	3	D
	0600	17.2	54.0	-	1000	25	3	D
	1200	17.2	54.0	-	1000	25	3	D
	1800	17.2	54.0	-	1000	25	3	D
31/05/2020	0000	17.1	53.8	-	1000	25	3	D
	0300	17.1	53.8	-	1000	25	3	D
	0600	17.0	53.5	-	1000	25	3	D
	1200	16.9	53.1	-	1000	25	3	D
	1800	16.8	52.9	-	1000	25	3	D
01/06/2020	0000	Weakened into well marked low pressure area over south coastal Oman and adjoining Yemen						

Table 3: Best track positions and other parameters of the Severe Cyclonic Storm "NISARGA" over the eastcentral and adjoining southeast Arabian Sea (01st-04th June, 2020)

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
01/06/2020	0000	13.0	71.4	1.5	1004	25	3	**D**
	0300	13.2	71.4	1.5	1004	25	3	D
	0600	13.7	71.3	1.5	1004	25	3	D
	1200	14.2	71.2	1.5	1003	25	4	D
	1800	14.4	71.2	1.5	1003	25	4	D
02/06/2020	0000	15.0	71.2	2.0	1000	30	6	**DD**
	0300	15.3	71.2	2.0	1000	30	6	DD
	0600	15.6	71.2	2.5	999	35	7	**CS**
	0900	16.0	71.2	2.5	999	35	7	CS
	1200	16.3	71.3	2.5	996	40	8	CS
	1500	16.0	71.4	2.5	996	40	8	CS
	1800	16.8	71.6	2.5	996	40	8	CS
	2100	17.1	71.8	3.0	994	45	10	CS
03/06/2020	0000	17.3	72.1	3.0	992	50	12	**SCS**
	0300	17.6	72.3	3.5	988	55	16	SCS
	0600	18.1	72.8	4.0	984	60	20	SCS
		Crossed Maharashtra coast close to south of Alibag near 18.35ºN/72.95ºE, as Severe Cyclonic Storm with maximum sustained wind speed of 60 kt gusting to 70 kt between 0700-0900 UTC of 03rd June						
	0900	18.5	73.2	-	992	55	14	SCS
	1200	19.0	73.7	-	998	40	8	**CS**
	1500	19.6	74.0	-	1000	30	6	**DD**
	1800	19.8	74.8	-	1001	30	5	**DD**
04/06/2020	0000	20.5	76.0	-	1004	25	4	**D**
	0300	21.2	76.9	-	1005	20	3	D
	0600	21.8	77.6	-	1005	20	3	D
	1200	Weakened into a well marked low pressure area over central parts of Madhya Pradesh						

Table 4: Best track positions and other parameters of the deep depression over Bay of Bengal during 11th - 14th October

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
11/10/2020	0000	15.3	86.5	1.5	999	20	3	D
	0300	15.4	86.2	1.5	998	25	4	D
	0600	15.4	85.8	1.5	998	25	4	D
	1200	15.5	85.4	1.5	998	25	4	D
	1800	15.6	85.2	1.5	998	25	4	D
12/10/2020	0000	15.7	85	1.5	998	25	4	D
	0300	15.7	85	2.0	997	30	5	DD
	0600	15.9	84.8	2.0	997	30	5	DD
	1200	16.1	84.6	2.0	997	30	5	DD
	1800	16.5	83.4	2.0	997	30	5	DD
13/10/2020	0000	16.9	82.5	-	997	30	5	DD
	Crossed north Andhra Pradesh coast close to Kakinada (near latitude 17.0°N & longitude 82.4° E) between 0100 & 0200 UTC as a Deep Depression.							
	0300	17	82.1	-	996	30	6	DD
	0600	17.3	81.5	-	998	25	4	D
	1200	17.5	80.5	-	998	25	4	D
	1800	17.6	79.5	-	998	25	4	D
14/10/2020	0000	17.7	78.1	-	1000	20	3	D
	0300	17.7	77.5	-	1000	20	3	D
	0600	17.7	77.0	-	1000	20	3	D
	1200	Weakened into well marked low pressure area over south Madhya Maharashtra & neighbourhood						

Table 5: Best track positions and other parameters of the depression over the Arabian Sea during 17th -19th October, 2020

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E.		C.I. NO	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
17/10/2020	0300	17.8	69.0	1.5	1004	20	3	D
	0600	17.8	68.2	1.5	1004	20	3	D
	1200	17.8	67.5	1.5	1003	25	4	D
	1800	17.8	66.8	1.5	1003	25	4	D
18/10/2020	0000	17.8	66.4	1.5	1003	25	4	D
	0300	17.8	65.8	1.5	1004	20	3	D
	0600	17.8	65.3	1.5	1004	20	3	D
	1200	17.8	64.8	1.5	1004	20	3	D
	1800	17.8	64.3	1.5	1004	20	3	D
19/10/2020	0000	Weakened into well marked low pressure area over westcentral Arabian Sea and neighbourhood						

Table 6: Best track positions and other parameters of the depression over the Bay of Bengal during 22nd -24th October, 2020

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E.		C.I. NO	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
22/10/2020	0300	18.7	87.0	1.5	999	20	3	D
	0600	19.0	87.0	1.5	998	25	4	D
	1200	19.7	87.3	1.5	998	25	4	D
	1800	20.2	87.6	1.5	998	25	4	D
	0000	21.2	88.2	1.5	998	25	4	D
	0300	21.4	88.4	1.5	998	25	4	D
23/10/2020	0600	21.7	88.5	1.5	998	25	4	D
	Crossed West Bengal & adjoining Bangladesh coasts (near latitude 21.8°N & longitude 88.5° E), between 0600 & 0700 UTC of 23rd October 2020.							
	0900	22.5	89.1	1.5	998	25	4	D
	1200	23.3	89.5	1.5	1000	20	3	D
	1800	24.0	89.9	1.5	1000	20	3	D
24/10/2020	0000	Weakened into well marked low pressure area over Central parts of Bangladesh.						

Table 7: Best track positions and other parameters of the Very Severe Cyclonic Storm, 'NIVAR' over the Bay of Bengal during 22 Nov- 27 Nov, 2020

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
22/11/2020	2100	8.5	85.3	1.5	1002	25	3	D
23/11/2020	0000	9.3	84.5	1.5	1002	25	3	D
	0300	9.5	84.2	1.5	1002	25	3	D
	0600	9.6	84.0	1.5	1001	25	4	D
	1200	9.8	83.6	2.0	999	30	5	DD
	1800	10.0	83.3	2.0	998	30	6	DD
24/11/2020	0000	10.0	83.0	2.5	997	35	7	CS
	0300	10.0	83.0	2.5	997	35	7	CS
	0600	10.0	82.7	2.5	994	40	8	CS
	0900	10.0	82.6	3.0	992	45	10	CS
	1200	10.1	82.5	3.0	992	45	10	CS
	1500	10.1	82.4	3.0	992	45	10	CS
	1800	10.2	82.3	3.5	990	50	12	SCS
	2100	10.3	82.2	3.5	988	55	16	SCS
25/11/2020	0000	10.5	82.0	3.5	986	60	18	SCS
	0300	10.7	81.7	3.5	986	60	18	SCS
	0600	11.0	81.3	3.5	986	60	18	SCS
	0900	11.2	81.0	4.0	982	65	22	VSCS
	1200	11.4	80.7	4.0	982	65	22	VSCS
	1500	11.7	80.4	4.0	982	65	22	VSCS
	1800	12.0	80.1	4.0	982	65	22	VSCS
	Crossed Tamil Nadu &Puducherry coasts close to Puducherry (near Lat 12.1^{0}N and Log 79.9^0 E) during 1800 – 1900 UTC of 25th as a Very Severe Cyclonic Storm							
	2100	12.1	79.9	-	986	60	18	SCS
26/11/2020	0000	12.3	79.7	-	992	50	12	SCS
	0300	12.6	79.4	-	996	40	8	CS
	0600	12.9	79.3	-	998	30	6	CS
	0900	13.3	79.3	-	999	30	5	DD
	1200	13.6	79.4	-	1000	30	5	DD
	1800	14.0	79.6	-	1002	20	3	D
26/11/2020	0000	Weakened into a Well-Marked Low Pressure Area over south coastal Andhra Pradesh and adjoining westcentral Bay of Bengal.						

Table 8: Best track positions and other parameters of the Very Severe Cyclonic Storm 'GATI' over the Arabian Sea during 21st - 24th November, 2020

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E .		C.I. NO	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
21/11/2020	1800	11.2	57.4	1.5	1000	25	04	D
22/11/2020	0000	11.1	55.4	2.0	998	30	06	DD
	0300	10.7	53.8	2.5	996	40	08	CS
	0600	10.4	52.7	3.0	992	50	12	SCS
	0900	10.4	52.0	4.0	982	65	22	VSCS
	1200	10.4	51.5	4.5	976	75	26	VSCS
	Crossed Somalia Coast near lat 10.45^0 N and long 51.1^0 E between 1400 and 1500 UTC of 22nd Nov. as a Very Severe Cyclonic Storm							
	1500	10.4	51.0	-	976	75	26	VSCS
	1800	10.4	50.5	-	982	65	22	VSCS
	2100	10.4	50.1	-	986	60	18	SCS
23/11/2020	0000	10.5	50.0	-	994	45	10	CS
	0300	10.7	49.7	-	997	35	07	CS
	0600	10.9	49.2	-	998	30	06	DD
	Emerged into Gulf of Aden as a Deep Depression around 1200 UTC of 23rd Nov.							
	1200	11.3	48.5	2.0	999	30	05	DD
	1800	11.7	47.5	2.0	1000	30	05	DD
24/11/2020	0000	11.6	47.0	1.5	1001	25	04	D
	0300	11.6	46.8	1.5	1002	20	03	D
	0600	Weakened into a well-marked low pressure area over the same region at 0600 UTC of 24th Nov.						

Table 9: Best track positions and other parameters of the Cyclonic Storm, 'BUREVI' over the Bay of Bengal during 30 Nov- 05 Dec., 2020

Date	Time (UTC)	Centre lat.^{0} N/ long.^{0} E		C.I. NO.	Estimated Central Pressure (hPa)	Estimated Maximum Sustained Surface Wind (kt)	Estimated Pressure drop at the Centre (hPa)	Grade
30/11/2020	0000	7.5	88.0	1.5	1003	20	3	**D**
	0300	7.7	87.7	1.5	1002	25	4	D
	0600	7.8	87.4	1.5	1002	25	4	D
	1200	7.7	87.0	1.5	1002	25	4	D
	1800	7.8	86.6	1.5	1002	25	4	D
01/12/2020	0000	7.8	86.0	2.0	1000	30	6	**DD**
	0300	7.8	85.7	2.0	1000	30	6	DD
	0600	7.8	85.3	2.0	1000	30	6	DD
	1200	7.9	84.8	2.5	999	35	7	**CS**
	1500	7.9	84.5	2.5	999	35	7	CS
	1800	8.1	84.2	2.5	999	35	7	CS
	2100	8.4	83.4	2.5	999	35	7	CS
02/12/2020	0000	8.6	83.0	2.5	998	40	8	CS
	0300	8.7	82.5	2.5	998	40	8	CS
	0600	8.8	82.2	3.0	996	45	10	CS
	0900	8.8	81.8	3.0	996	45	10	CS
	1200	8.8	81.4	3.0	996	45	10	CS
	1500	8.8	81.4	3.0	996	45	10	CS
	Crossed Sri Lanka coast close to north of Trincomalee (near Lat 08.85^{0}N and Log 81.0^0 E) during 1700 – 1800 UTC of 02nd December 2020 as a Cyclonic Storm							
	1800	8.9	80.9	-	996	45	10	CS
	2100	9.0	80.8	-	998	40	8	CS
03/12/2020	0000	9.0	80.3	-	998	40	8	CS
	0300	9.1	80.2	-	998	40	8	CS
	0600	9.2	79.7	-	998	40	8	CS
	Crossed Pamban area (near Lat 09.2^{0}N and Log 79.35^0 E) during 0800 UTC of 03rd December 2020 as a Cyclonic Storm							
	0900	9.2	79.3	2.5	999	35	7	CS
	1200	9.2	79.1	2.0	1000	30	6	DD
	1500	9.2	78.8	2.0	1000	30	6	DD
	1800	9.1	78.6	2.0	1000	30	6	DD
	2100	9.1	78.6	2.0	1000	30	6	DD
04/12/2020	0000	9.1	78.6	2.0	1000	30	6	DD
	0300	9.1	78.6	2.0	1001	30	5	DD
	0600	9.1	78.6	2.0	1001	30	5	DD
	1200	9.1	78.6	1.5	1002	25	4	D
	1800	9.1	78.6	1.5	1003	25	4	D
05/12/2020	0000	9.1	78.6	1.5	1004	20	3	D
	0300	9.1	78.6	1.5	1006	20	3	D

	0600	Weakened into a Well-Marked Low Pressure Area over Gulf of Mannar close to Ramanathapuram district of Tamil Nadu

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