

## India Meteorological Department (Ministry of Earth Sciences)

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### Sub: (1) Well Marked Low Pressure area over southwest and adjoining southeast Bay of Bengal— (Pre-cyclone Watch for Tamilnadu and Puducherry coasts)

- (2) Very Severe Cyclonic Storm "GATI" over southwest Arabian Sea closed to Somalia coast
- 1. Well Marked Low Pressure area over southwest and adjoining southeast Bay of Bengal-(Pre-cyclone Watch for Tamilnadu and Puducherry coasts)

The well marked low pressure area over southwest & adjoining southeast Bay of Bengal persists. It is very likely to concentrate into a depression over Southwest Bay of Bengal during next 12 hours and intensify further into a cyclonic storm during subsequent 24 hours. It is very likely to move northwestwards and cross Tamil Nadu and Puducherry coasts between Karaikal and Mahabalipuram around 25<sup>th</sup> November 2020 noon/afternoon. The system while moving northwestwards, would skirt northeast Sri Lanka coast on 24th November, 2020.

#### Warnings:

#### (i) Rainfall

Under its influence, the rainfall activity is likely to increase over south peninsular India from 23<sup>rd</sup> November onwards with fairly widespread to widespread rainfall/thunderstorm activity over Tamilnadu, Puducherry & Karaikal during 24<sup>th</sup> to 26<sup>th</sup> November and over south Coastal Andhra Pradesh, Rayalaseema & Telangana during 25<sup>th</sup> to 26<sup>th</sup> November, 2020.

Isolated extremely heavy rainfall activity also very likely over Tamilnadu & Puducherry during 24<sup>th</sup> & 25<sup>th</sup> and over south Coastal Andhra Pradesh & Rayalaseema on 25<sup>th</sup> & 26<sup>th</sup> and over Telangana on 26<sup>th</sup> November, 2020.

Sub-Divisions	22 Nov 2020*	23 Nov 2020*	24 Nov 2020*	25 Nov 2020*	26 Nov 2020*
Coastal Andhra Pradesh	Rainfall at isolated places	Rainfall at isolated places	Rainfall at a few places with heavy rainfall at isolated places	Rainfall at most places with isolated heavy to very heavy with extremely heavy falls	Rainfall at most places with isolated heavy to very heavy with extremely heavy falls
Tamilnadu, Puducherry & Karaikal	Rainfall at a few places places	Rainfall at a many places with heavy rainfall at isolated places	Rainfall at most places with heavy to very heavy rainfall with extremely heavy falls at isolated places	Rainfall at most places with heavy to very heavy rainfall at a few places and extremely heavy falls at isolated places	Rainfall at a many places with heavy rainfall at isolated places
South Interior Karnataka	DRY	Rainfall at isolated places	Rainfall at a few places	Rainfall at a few places with heavy rainfall at isolated places	Rainfall at a few places
Rayalaseema	DRY	Rainfall at isolated places	Rainfall at a many places with isolated heavy falls	Rainfall at most places with heavy to very heavy rainfall with extremely heavy falls at isolated places	Rainfall at most places with heavy to very heavy rainfall with extremely heavy falls at isolated places
Telangana	DRY	DRY	Rainfall at isolated places	Rainfall at a few places with isolated heavy falls	Rainfall at most places with heavy to very heavy rainfall with extremely heavy falls at isolated places

#### (ii) Wind warning

Squally weather with wind speed reaching 40-50 kmph gusting to 60 kmph likely to prevail over Equatorial Indian Ocean & adjoining central parts of South Bay of Bengal on 22<sup>nd</sup> November. It is likely to increase with wind speed of the order of 45-55 kmph gusting to 65 kmph likely over Southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu and south Andhra Pradesh coasts on 23<sup>rd</sup> and of the order of 55-65 kmph gusting to 75 kmph likely over the same area and also along & off South Andhra Pradesh coast and over Gulf of Mannar on 24<sup>th</sup> November. It is very likely to increase gradually becoming 80-90 kmph gusting 100 kmph over southwest Bay of Bengal, and along and off Tamilnadu and Puducherry coasts around the region of landfall on 25<sup>th</sup> November 2020. Squally weather with wind speed reaching 55-65 kmph gusting to 75 kmph likely to prevail over Andhra Pradesh coast on 25<sup>th</sup> November 2020.

#### (iii) Sea condition

Sea condition will be rough to very rough over Equatorial Indian Ocean & adjoining central parts of South Bay of Bengal on 22<sup>nd</sup>; Southwest & adjoining west-central Bay of Bengal and along & off Tamil Nadu &

Puducherry coasts on 23<sup>rd</sup> and very rough to High over Southwest and adjoining west-central Bay of Bengal and along & off Tamil Nadu, Puducherry & south Andhra Pradesh coasts and also over Gulf of Mannar on 24<sup>th</sup> and 25<sup>th</sup> November, 2020.

#### (iv) Fishermen Warning

Fishermen are advised not to venture into Equatorial Indian Ocean & adjoining central parts of South Bay of Bengal on 22<sup>nd</sup> November; over Southwest & adjoining west-central Bay of Bengal, Gulf of Mannar and along & off Tamil Nadu, Puducherry and south Andhra Pradesh coasts during 22-25<sup>th</sup> November.

Also the fishermen out at Sea are advised to return to the coast by today.

#### 2. Very Severe Cyclonic Storm "GATI" over southwest Arabian Sea

The very severe cyclonic storm "GATI" over southwest Arabian Sea moved westwards with a speed of about 18kmph during past 06 hours and lay centred at 1730 hrs IST of today 22<sup>nd</sup> November 2020 over southwest Arabian Sea near Latitude 10.4° N and Longitude 51.5°E, about 40 km east of Somalia coast and 90 km south-southeast of Ras Binnah (Somalia). It is very likely to move nearly westwards and cross Somalia coast around 10.5°N to the south of Ras Binnah (Somalia) within next three hours as a very severe cyclonic storm with a wind speed of 130-140 kmph gusting to 155 kmph.

Forecast track and intensity are given below:

Date/Time(IST)	Position (Lat. ⁰N/ long. ⁰E)	Maximum sustained surface wind speed (Kmph)	Category of cyclonic disturbance
22.11.20/1730	10.4/51.5	130-140 Gusting TO 155	Very Severe Cyclonic Storm
22.11.20/2300	10.5/50.6	120-130 Gusting TO 145	Very Severe Cyclonic Storm
23.11.20/0530	10.6/49.5	90-100 Gusting TO 110	Severe Cyclonic Storm
23.11.20/1130	10.6/48.4	60-70 Gusting TO 80	Cyclonic Storm
23.11.20/1730	10.6/47.3	40-50 Gusting TO 60	Depression
24.11.20/0530	10.5/45.1	20-30 Gusting TO 40	Low Pressure Area

As the system is very likely to move away from the Indian coast no adverse weather associated with this system is likely over the west coast of India. However, warnings for Ship and Fishermen prevail over southwest Arabian Sea as specified below.

#### (i) Wind warning

Gale wind speed reaching 130-140 kmph gusting to 155 kmph is prevailing over southwest Arabian Sea and along and off north Somalia coast. It is very likely to continue with same speed for next 06 hours. It will gradually decrease thereafter becoming 50-60 kmph gusting to 70 kmph over this area by 23<sup>rd</sup> November morning.

#### (ii) Sea condition

Sea condition will be phenomenal over southwest Arabian Sea along and off north Somalia coast during next 06 hours and thereafter it will be very high to high till 23<sup>rd</sup> November morning and improve thereafter.

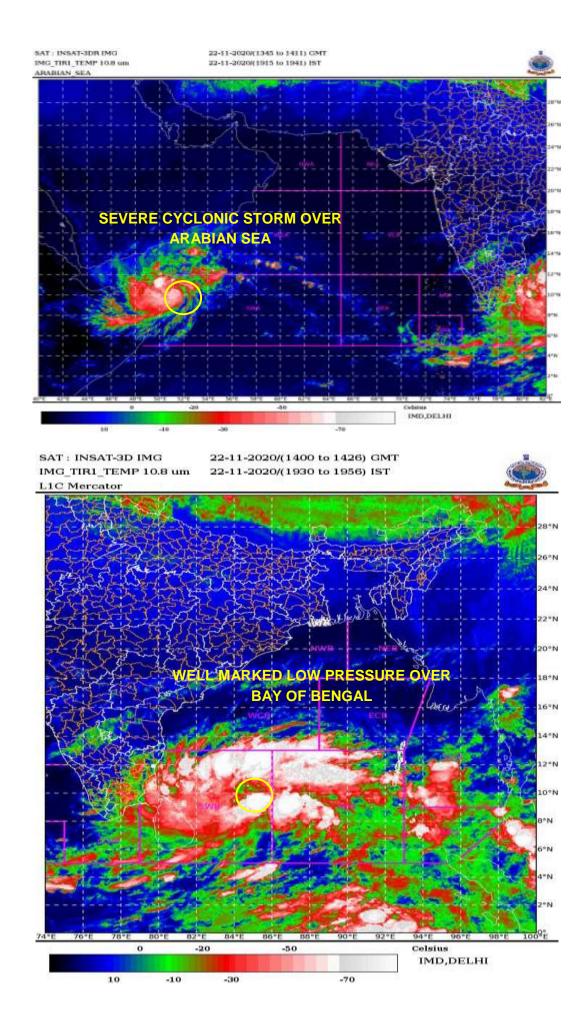
#### (iii) Fishermen Warning

Fishermen are advised not to venture into southwest Arabian Sea till 23<sup>rd</sup> November noon.

The next bulletin will be issued at 2330 hrs IST of 22<sup>nd</sup> November, 2020.

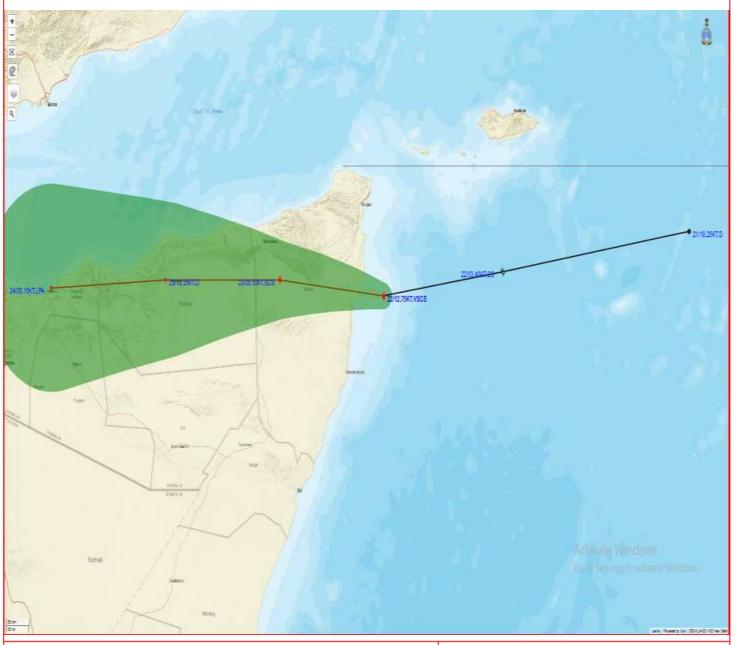
(R. K. Jenamani) Scientist-F, RSMC, New Delhi

Copy to: ACWC Kolkata/Chennai/CWC Bhubaneswar/CWC Visakhapatnam/CWC Thiruvanathapuram





## OBSERVED AND FORECAST TRACK ALONGWITH CONE OF UNCERTAINITY OF SEVERE CYCLONIC STORM GATI OVER SOUTHWEST ARABIAN SEA BASED ON 1200 UTC OF 22<sup>nd</sup> Nov, 2020



DATE/TIME IN UTC IST=UTC + 0530

L: LOW PRESSURE AREA

WML: WELL MARKED LOW PRESSURE AREA

D: DEPRESSION (17-27 KT)

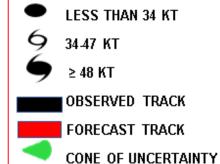
DD: DEEP DEPRESSION (28-33 KT)
CS: CYCLONIC STORM (34-47 KT)

CS: CYCLONIC STORM (34-47 KT) SCS: SEVERE CYCLONIC STORM (48-63KT)

VSCS: VERY SEVERE CYCLONIC STORM (64-89 KT)

ESCS: EXTREMELY SEVERE CYCLONIC STORM (90-119 KT)

Sucs: SUPER CYCLONIC STORM (≥20 KT)





# OBSERVED AND FORECAST TRACK OF DEPRESSION ALONGWITH QUADRANT WIND DISTRIBUTION OF SEVERE CYCLONIC STORM GATI OVER SOUTHWEST ARABIAN SEA BASED ON 1200UTC OF 22<sup>nd</sup>

