

#### MESSAGE

## FROM: ESSO-INDIAN NATIONAL CENTRE FOR OCEAN INFORMATION SERVICES (Earth System Science Organisation, Ministry of Earth Sciences, Government of India) (E-Mail: <u>osf@incois.gov.in</u>, Website: <u>www.incois.gov.in</u>, FAX NO. +91-40-23892910)

#### **INCOIS-IMD JOINT BULLETIN**

To: Control Room, NDMA, Ministry of Home Affairs Senior MET Officer, Eastern Naval Command, Indian Navy Commandant, Indian Coast Guard, East Region Commandant, Indian Coast Guard, North East Region Commandant, Indian Coast Guard, A & N Region Commandant, Indian Coast Guard, Southern Region Ports in Tamil Nadu, Kerala, AP, Odisha, West Bengal Ports in Karnataka, Goa, Maharashtra Chief Secretary, Tamil Nadu, Puducherry Chief Secretary, Kerala, Karnataka, Goa, Maharashtra Chief Secretary, Andhra Pradesh, Odisha, West Bengal State Disaster Management Authority, Tamil Nadu State Disaster Management Authority, Kerala State Disaster Management Authority, Andhra Pradesh State Disaster Management Authority, Karnataka State Disaster Management Authority, Goa State Disaster Management Authority, Maharashtra State Disaster Management Authority, Odisha State Disaster Management Authority, West Bengal Shipping Corporation of India KSDMA, Thiruvananthapuram Administrator, UT of Lakshadweep DNOM, Indian Navy Reliance Foundation, Mumbai MSSRF, Chennai PMSSS, Puducherry Administrator, UT Puducherry Kamaraj College, Tuticorin IKSL- Odisha, Andhra Pradesh and West Bengal Andhra University (INCOIS Project), Visakhapatnam KUFOS, Kochi

Time of issue: 15:30 hours IST Dated: 22.11.2020, Bulletin No.: INCOIS/22/11/2020/3

Sub: INCOIS-IMD Joint Special Message - Ocean State Forecast associated with 1) Well Marked Low Pressure area over southwest and adjoining southeast Bay of Bengal — (Pre-cyclone Watch for Tamilnadu and Puducherry coasts) (2) Cyclonic Storm —GATI intensified into a Severe Cyclonic Storm over southwest Arabian Sea

(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 over the same region. It is very likely to concentrate into a depression over Southwest Bay of Bengal during next 24 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.

## High Wave/Ocean State warning/alert for South & North Tamil Nadu and Andhra Pradesh

#### Southern Tamil Nadu

High waves in the range of 2.5 - 3.7 meters are forecasted during 15:30 hours on 22-11-2020 to 23:30 hours of 24-11-2020 along the coast of Southern Tamil Nadu from Kolachal to Dhanushkodi. Surface Current speeds vary between 43 - 62 cm/sec.

## Northern Tamil Nadu

High waves in the range of 2.0 - 3.8 meters are forecasted during 15:30 hours on 22-11-2020 to 23:30 hours of 24-11-2020 along the coast of Northern Tamil Nadu from Point Calimer to Pulicat. Surface Current speeds vary between 43 - 62 cm/sec.

## Andhra Pradesh

High waves in the range of 2.0 - 3.0 meters are forecasted during 15:30 hours on 22-11-2020 to 23:30 hours of 24-11-2020 along the coast of Andhra Pradesh from Durgarajupatnam to Baruva. Surface Current speeds vary between 80 - 99 cm/sec.

## **Warnings**

#### **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.

## 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>. 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.

## 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> to 25<sup>th</sup> and over south Coastal Andhra Pradesh & Rayalseema 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	Rainfal at l	Rainfal at l	<mark>Rainfall at a</mark> few places with	Rainfall at most places with <mark>isolated heavy</mark>	Rainfall at most places with isolated heavy to very heavy
Andhra Pradesh	isolated places	isolated places	<mark>heavy rainfall at</mark> <mark>isolated places</mark>	to very heavy with extremely heavy falls	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	Rainfal at a many places with heavy rainfall at isolated places
South Interior Karnataka	DRY	Rainfal at l isolated places	Rainfall at a few places	isolated places Rainfall at a few places with heavy rainfall at isolated places	Rainfall at a few places
Rayalaseema	DRY	Rainfal at l 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

					Rainfall at most
Telangana	DRY	DRY	Rainfall at isolated places	Rainfall at a few places with <mark>isolated heavy</mark>	<mark>places with heavy to</mark> very heavy rainfall with extremely
				falls	heavy falls at isolated places

# 2. Severe Cyclonic Storm —GATI || over southwest Arabian Sea

The cyclonic storm "GATI" over southwest Arabian Sea moved further rapidly westsouthwestwards with a speed of about 50 kmph during past 06 hours, intensified into a Severe Cyclonic Storm —GATI and lay centred at 1130 hrs IST of today 22<sup>nd</sup> November 2020 over southwest Arabian Sea near Latitude 10.4° N and Longitude 52.6°E, about 290 km south-southeast of Socotra (Yemen), 180 km east-southeast of Ras Binnah (Somalia) and 270 km east-southeast of Alula (Somalia). It is very likely to continue to move west-southwestwards and cross Somalia coast around 10.5° N (south of Ras Binnah (Somalia)) during early hours of 23<sup>rd</sup> November as a very severe cyclonic storm with a wind speed of 120-130 kmph gusting to 145 kmph.

# Ocean State Forecast for Lakshadweep, South Tamil Nadu, Kerala, Karnataka, Goa and Maharashtra

## Lakshadweep

High swell waves in the range of 1.2 - 2.4 meters are forecasted during 14:30 hours on 22-11-2020 to 23:30 hours of 24-11-2020 along the coast of Lakshadweep Islands from Minicoy to Bitra. Surface Current speeds vary between 29 - 50 cm/sec.

# South Tamil Nadu

High waves in the range of 2.5 - 3.7 meters are forecasted during 15:30 hours on 22-11-2020 to 23:30 hours of 24-11-2020 along the coast of Southern Tamil Nadu from Kolachal to Dhanushkodi. Surface Current speeds vary between 43 - 62 cm/sec.

## Kerala

High swell waves in the range of 1.2 - 2.1 meters are forecasted during 15:30 hours on 22-11-2020 to 23:30 hours of 24-11-2020 along the coast of Kerala from Pozhiyoor to Kasargod. Surface Current speeds vary between 36 - 62 cm/sec.

## Karnataka

Waves in the range of 1.0 - 2.0 meters are forecasted during 15:30 hours on 22-11-2020 to 23:30 hours of 24-11-2020 along the coast of Karnataka from Mangalore to Karwar. Surface Current speeds vary between 28 - 55 cm/sec.

## Goa

Waves in the range of 1.0 - 2.0 meters are forecasted during 15:30 hours on 22-11-2020 to 23:30 hours of 24-11-2020 along the coast of Goa from Vengurla to Vasco. Surface Current speeds vary between 23 - 38 cm/sec.

## Maharashtra

Waves in the range of 1.0 - 2.1 meters are forecasted during 15:30 hours on 22-11-2020 to 23:30

hours of 24-11-2020 along the coast of Maharashtra from Malvan to Vasai . Surface Current speeds vary between 34 - 44 cm/sec.

# **Offshore (around the system):**

High waves in the range of 3.2 - 4.5 meters are forecasted during 15:30 hours of 22-11-2020 to 17:30 hours of 22-11-2020 at and around the system (near latitude 11.1°N and longitude 55.4°E, about 230 km southeast of Yemen. Surface Current speeds vary between 50 - 70 cm/sec.

# <u>Warnings</u>

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

(ii) Wind warning: Gale wind speed reaching 90-100 kmph gusting to 110 kmph is prevailing over southwest Arabian Sea. It is very likely to increase gradually becoming 120-130 kmph during next 06 hrs over the same region and the same speed will continue till the landfall by early hrs of 23<sup>rd</sup> Nov. 2020. It will gradually decrease thereafter.

Marine Forecaster Ocean State Forecast Team Information Services and Ocean Sciences Group

For Specific Ocean State forecast for Shipping visit <u>http://115.113.76.77/shipforecast/shipforecast.html</u> Port and Harbours visit (<u>http://115.113.76.77/OSF</u>). For location specific forecast data for any part of Bay of Bengal, visit

(http://115.113.76.77/webmapservice/Indian Ocean Forecast.html) For complete details visit (http://www.incois.gov.in/portal/osf/osf.jsp)