



MESSAGE

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

## **INCOIS-IMD JOINT BULLETIN**

**To: CONTROL ROOM, NDMA, MINISTRY OF HOME AFFAIRS  
CABINET SECRETARIAT, PS TO HON'BLE MINISTER FOR S & T AND EARTH SCIENCES SECRETARY, MOES  
H.Q. (INTEGRATED DEFENCE STAFF AND CDS)  
DIRECTOR GENERAL, DOORDARSHAN (23385843)  
DIRECTOR GENERAL, AIR (23421101, 23421105, 23421219)  
D.G., NATIONAL DISASTER RESPONSE FORCE (NDRF)  
Chief Secretary, Government of Kerala  
KSDMA, Thiruvananthapuram  
Administrator, UT of Lakshadweep  
ADMINISTRATOR, UNION TERRITORY OF DAMAN & DIU (0260-2230775)  
ADMINISTRATOR, UNION TERRITORY OF DADRA NAGAR HAVELI (0260-2230775)  
Administrator, UT Puducherry  
Commandant, Indian Coast Guard, Southern Region  
DNOM, Indian Navy  
Reliance Foundation, Mumbai  
MSSRF, Chennai  
PMSSS, Puducherry  
Kamaraj College, Tuticorin  
Ports in Tamil Nadu, Kerala and Lakshadweep  
Ports in Karnataka, Goa, Maharashtra and Gujarat  
Chief Secretary, Government of Tamil Nadu  
Chief Secretary, Government of Karnataka  
Chief Secretary, Government of Goa  
Chief Secretary, Government of Gujarat  
Chief Secretary, Government of Maharashtra  
Shipping Corporation of India.  
PIs of INCOIS OSF Projects  
Maharashtra Maritime Board  
T.V. & Radio channels and newspapers of relevant states/UT KUFOS, Kochi**

**Time of issue: 17:00 hours IST Dated: 18.05.2021, Bulletin No.: INCOIS/18/05/2021/6**

**Sub: INCOIS-IMD Joint Bulletin - Ocean State Forecast associated with Cyclonic Storm "Tauktae" (pronounced as Tau'Te) over Saurashtra & adjoining Gujarat region**

The Cyclonic Storm "Tauktae" (pronounced as Tau'Te) over Saurashtra moved north-northeastwards with a speed of about 18 kmph during past 06 hours, and lay centred at 1430 hours IST of today, the 18<sup>th</sup> May, 2021 over Saurashtra & adjoining Gujarat region near latitude 22.5°N and longitude 71.8°E, about 190 km south-southwest of Deesa (Gujarat), and 105 km south-southwest of Ahmedabad and 35 km southwest of Surendranagar (Gujarat).

It is very likely to move north-northeastwards and weaken gradually into a Deep Depression during next 03 hours and into a Depression during the subsequent 06 hours. The remnant of the system is very likely to move north-eastwards across Rajasthan to west Uttar Pradesh during 19<sup>th</sup> & 20<sup>th</sup> May.

**High Wave/Ocean State warning/alert for Gujarat, Maharashtra, Goa, Karnataka, Kerala and Lakshadweep**

**Gujarat:**

**Table:** Forecasted wave height and corresponding swell height, for coastal region, into the ocean upto 10 km off Gujarat. There is a possibility that the low lying areas (Jakhau, Mundra, Kandla, Navlakhi, Rozi, Porbandar, Kambhat, Dahej, Bhavnagar, Suvali, Vansi, Valsad) may be surged (gushing of sea water into these areas) intermittently, because of the waves and tidal conditions.

Location/District	Date/ Time (IST)		Significant Wave height (m)	Swell height (m)
	From	To		
Kachch	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	1.6 - 2.6	0.5-1.2
Jamnagar	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	1.5 - 2.7	0.5-1.3
Porbandar	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.5 - 3.0	1.3 - 2.6
Junagadh	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.5 - 3.9	1.2 - 2.4
Diu	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.4 - 3.5	1.0 -2.0
Amreli	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.0 - 3.4	1.0-2.0
Bhavnagar	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	1.8 - 3.5	1.0-1.5
Kheda	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	1.8 - 3.5	1.0-1.5
Bharuch	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	1.7 - 3.1	1.0-1.5
Surat	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	1.6 - 3.2	1.0- 2.0
Navsari	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	1.6 - 3.3	1.0-1.8
Valsad	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	1.6 - 2.9	1.0-1.5

**Gujarat (Offshore):** High waves in the range of 2.0 – 4.0 meters are forecasted during 17:00 hours on 18-05-2021 to 23:30 hours of 19-05-2021 beyond 10 km off the coast of Gujarat from Jakhau to Diu Head. Current speeds vary between 88- 153 cm/sec.

## Maharashtra:

**Table:** Forecasted Significant wave height and corresponding swell height, for coastal region, into the sea upto 10 km off Maharashtra. There is a possibility that the low lying areas (Malvan, Munage, Phanase, Velas, Colaba, Gateway of India) may be surged (gushing of sea water into these areas) intermittently, because of the waves and tidal conditions.

Location/District	Date/ Time (IST)		Significant Wave Height (m)	Swell height (m)
	From	To		
Thane	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.0 - 3.1	1.5-3.0
Greater Mumbai	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.5 - 3.5	1.5-3.0
Raigarh	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.5 - 3.5	1.5-3.2
Ratnagiri	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.0 - 3.0	1.4-3.7
Sindhudurg	17:00 hrs, 18-05-2021	23:30 hrs, 19-05-2021	2.0 - 3.0	1.5-3.0

**Maharashtra (offshore):** High waves in the range of 2.4 – 3.8 meters are forecasted during 17:00 hours on 18-05-2021 to 23:30 hours of 19-05-2021 beyond 10 km off the coast of Maharashtra from Malvan to Vasai. Surface Current speeds vary between 30- 70cm/sec.

**Goa (Offshore) :** High waves in the range of 2.0 – 3.4 meters are forecasted during 17:00 hours on 18-05-2021 to 23:30 hours of 19-05-2021 beyond 10 km off the coast of Goa from Vengurla to Vasco. Current speeds vary between 25- 45cm/sec.

**Karnataka (offshore):** High waves in the range of 2.2 – 3.5 meters are forecasted during 17:00 hours on 18-05-2021 to 23:30 hours of 19-05-2021 beyond 10 km off the coast of Karnataka from Mangalore to Karwar. Surface Current speeds vary between 20- 50cm/sec.

**Kerala (offshore):** High waves in the range of 2.2 - 3.4 meters are forecasted during 17:00 hours on 18-05-2021 to 23:30 hours of 19-05-2021 beyond 10 km off the coast of Kerala from Pozhiyoor to Kasargod. Surface Current speeds vary between 50– 70cm/sec.

**Lakshadweep (offshore):** High waves in the range of 2.5 - 3.8 meters are forecasted during 17:00 hours on 18-05-2021 to 23:30 hours of 19-05-2021 along the coast of Lakshadweep Islands from Minicoy to Bitra. Surface Current speeds vary between 39 - 74 cm/sec.

## Warnings:

### Fishermen warnings:

- The fishermen are advised not to venture into northeast & adjoining eastcentral Arabian Sea along & off north Maharashtra, south Gujarat, Daman, Diu, Dadra & Nagar Haveli coasts till the evening of 18<sup>th</sup> May.

### Rainfall warning:

- **Gujarat:** Light to moderate rainfall at most places with heavy to very heavy falls isolated places very likely over Gujarat region and Saurashtra on 18<sup>th</sup> May.
- **Rajasthan:** Light to moderate rainfall at many places with heavy to very heavy falls at isolated places very likely over south Rajasthan on 18<sup>th</sup> & heavy falls at isolated places over north Rajasthan on 19<sup>th</sup> May.

**Wind warning:**

- Gale wind speed reaching 70-80 kmph gusting to 90 kmph is likely to prevail over Gulf of Khambhat and adjoining northeast Arabian Sea during next 06 hours. It is likely to reduce gradually thereafter.
- Squally wind speed reaching 40-50 gusting to 60 kmph along & off extreme north Maharashtra coast during next 06 hours.
- Gale winds speed reaching 90-100 kmph gusting to 110 kmph likely to prevail over Amreli, Bhavnagar, Botad, 80-90 kmph gusting to 100 kmph over Surendranagar, Rajkot, Anand, South Ahmedabad: 50-60 kmph gusting to 70 kmph over Diu, Gir Somnath, Junagarh, Kheda, Bharuch, Jamnagar, Porbandar & Morbi during next 06 hours and gradually decrease thereafter.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph likely to prevail along and off Dadra, Nagar Haveli, Daman, Valsad, Navsari, Surat, districts and 35-45 kmph gusting to 55 kmph over Devbhoomi Dwarka & Kutch during next 06 hours and gradually decrease thereafter.
- Squally wind speed reaching 45-55 kmph gusting to 65 kmph is likely to prevail over south Rajasthan from the evening of 18<sup>th</sup> till 19<sup>th</sup> early morning.

**Storm Surge Warning:**

Tidal wave **about 0.5 - 1 meter (m)** above astronomical tide is likely to inundate low lying areas of **Anand & Amreli, Gir Somnath, Diu, Bhavnagar, Bharuch**, southern parts of Ahmedabad, Surat, Navsari, Valsad during next 03 hours,.

**Damage Expected over Amreli Junagarh, Gir Somnath, Botad, Bhavnagar Ahmedabad, Rajkot, Bharuch, Anand, Kheda districts of Gujarat,:**

- Damage to thatched houses/ huts.
- Minor damage to power and communication lines.
- Major damage to Kutcha and some damage to Pucca roads.
- Breaking of tree branches, uprooting of trees. Moderate damage to banana and papaya trees. Large dead limbs blown from trees.
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**Damage expected over interior districts of Gujarat (Districts apart from those mentioned under warning) and over southern districts of Rajasthan on 18<sup>th</sup> May 2021.**

(i) Minor damage to power and communication lines. (ii) Damage to Kutcha Roads. (iii) Breaking of tree branches, uprooting of small trees. (iv) Damage to banana and papaya trees.

**Action Suggested:**

- Judicious regulation of rail and road traffic.  
People in affected areas to remain indoors.

**MarineForecaster  
Ocean State ForecastTeam  
Operational Ocean Services(OOS)Group**

For Specific Ocean State forecast for Shipping visit

<http://115.113.76.77/shipforecast/shipforecast.html>

Port and Harbours visit (<http://115.113.76.77/OSF>).

For location specific forecast data for any part of Bay of Bengal, visit

([http://115.113.76.77/webmapservice/Indian\\_Ocean\\_Forecast.html](http://115.113.76.77/webmapservice/Indian_Ocean_Forecast.html))

For complete details visit ( <http://www.incois.gov.in/portal/osf/osf.jsp>)