



MESSAGE

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**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  
Reliance Foundation, Mumbai  
MSSRF, Chennai  
Ports in AP, Odisha & West Bengal  
Chief Secretary, Government of AP  
Chief Secretary, Government of TN  
Chief Secretary, Odisha  
Chief Secretary, West Bengal  
Chief Secretary, Andaman & Nicobar  
Administrator, UT of Puducherry  
Shipping Corporation of India  
Andhra University (INCOIS Project), Visakhapatnam  
Basanti Devi College (INCOIS Project), Kolkata  
IKSL- Odisha, Andhra Pradesh and West Bengal

**Time of issue: 1700 hours IST Dated: 09.12.2017, Bulletin No.: INCOIS/09/12/2017/BoB-4  
Sub: INCOIS-IMD Joint Bulletin - Ocean State Forecast associated with Depression over  
northwest Bay of Bengal**

The **Depression** over northwest Bay of Bengal moved north-northeastwards with a speed of about 11 kmph during past 6 hours and lay centred at 1130 hrs IST of today, the 09<sup>th</sup> December, 2017 over northwest Bay of Bengal near Latitude 19.5 °N and Longitude 86.7 °E, about 90 km south of Paradip and 280 km south-southwest of Digha. The system is very likely to move north-northeastwards along & off Odisha coast towards West Bengal and adjoining Bangladesh coast. It is very likely to maintain its intensity during 24 hours & weaken gradually into a well marked low during subsequent 12 hours.

**High Wave/Ocean State warning for West Bengal, Odisha, Andhra Pradesh, Andaman & Nicobar**

**1. West Bengal:**

**Table 1:** Forecasted highest wave (along with time) and corresponding swell height, for coastal region, into the ocean upto 10 km off West Bengal.

Location/District	Date	Time (IST)	Maximum Wave height (m)	Swell height (m)
Digha	09-12-2017	20.30	3.2	1.3
Sagar	09-12-2017	20.30	2.5	1.1

**Offshore:**

High waves in the range of 2.5 – 3.2 meters are forecasted during 17:30 hours on 09-12-2017 to 23:30 hours of 10-12-2017 along the coast of West Bengal from Digha to Bakkhali. Current speeds vary between 63 - 102 cm/sec.

**Swell Surge Alert for West Bengal:**

There is a possibility that low lying areas may be surged (especially during and around the high tide times, approximately 1220 hrs & 2320 hrs) during 17:30 hours of 09-12-2017 to 23:30 hours of 10-12-2017 because of the combined effect of swell waves (of 1.0 - 1.4 m height) and spring tide.

**2. Odisha:**

**Table 2:** Forecasted highest wave (along with time) and corresponding swell height, for coastal region, into the ocean upto 10 km off Odisha

Location/District	Date	Time (IST)	Maximum Wave height (m)	Swell height (m)
Gopalpur	09-12-2017	20:30	2.9	1.1
Puri	09-12-2017	20:30	3.5	1.3
Jagatsinghpur	09-12-2017	20:30	3.5	1.2
Gajarajpur	09-12-2017	20:30	3.5	1.1
Dhamra	09-12-2017	20:30	3.1	1.0

**Offshore:**

High waves in the range of 2.5 – 3.5 meters are forecasted during 17:30 hours on 09-12-2017 to 23:30 hours of 10-12-2017 along the coast of Odisha from Gopalpur to Chandipur. Current speeds vary between 46 - 97 cm/sec.

**Swell Surge Alert for Odisha**

There is a possibility that low lying areas may be surged (especially during and around the high tide times, approximately 1230 hrs & 2330 hrs) during 17:30 hours of 09-12-2017 to 23:30 hours of 10-12-2017 because of the combined effect of swell waves (of 1.0 – 1.3 m height) and spring tide.

### **3. Andhra Pradesh:**

High swell waves in the range of 1.0 - 1.4 meters are forecasted during 17:30 hours on 09-12-2017 to 23:30 hours of 10-12-2017 along the coast of Andhra Pradesh from Dugarajapatnam to Baruva. Current speeds vary between 96 - 124 cm/sec.

#### **Swell Surge Alert for Andhra Pradesh**

There is a possibility that low lying areas may be surged (especially during and around the high tide times, approximately 1200 hrs & 2300 hrs) during 17:30 hours of 09-12-2017 to 23:30 hours of 10-12-2017 because of the combined effect of swell waves (of 1.0 – 1.4 m height) and spring tide .

### **4. Andaman:**

High swell waves in the range of 1.0 - 1.7 meters are forecasted during 17:30 hours on 09-12-2017 to 23:30 hours of 10-12-2017 along the west coast of Andaman Islands from Ten Degree Channel to Coco Channel. Current speeds vary between 77 - 131 cm/sec.

#### **Swell Surge Alert for Andaman:**

There is a possibility that low lying areas may be surged (especially during and around the high tide times, approximately 1200 hrs & 2300 hrs) during 17:30 hours of 09-12-2017 to 23:30 hours of 10-12-2017 because of the combined effect of swell waves (of 1.0 - 1.7 m height) and spring tide.

### **5. Nicobar:**

High swell waves in the range of 1.0 - 2.0 meters are forecasted during 17:30 hours on 09-12-2017 to 23:30 hours of 10-12-2017 along the west coast of Nicobar Islands from Ten Degree Channel to Great Channel. Current speeds vary between 66 - 107 cm/sec.

#### **Swell Surge Alert for Nicobar:**

There is a possibility that low lying areas may be surged (especially during and around the high tide times, approximately 1200 hrs & 2300 hrs) during 17:30 hours of 09-12-2017 to 23:30 hours of 10-12-2017 because of the combined effect of swell waves (of 1.0 – 2.0 m height) and spring tide.

**[At a location 16.50 deg N, 87.97 deg E from a buoy by today at 14:30 IST: Observed wind speed is 7.1 m/s, and forecasted was 6.9 m/s.**

**At a location 18.14 deg N, 89.68 deg E from a buoy by today at 14:30 IST: Observed wave height is 2.5 m, and forecasted was 2.0 m/s; Observed wind speed is 6.8 m/s, and forecasted was 9.0 m/s.**

**Off Digha, today at 14:30 IST: Observed wave height from a buoy is 1.2 m, and forecasted was 1.5 m. ]**

## **Warning & Action suggested:**

### **Action suggested:**

Fishermen along and off south Odisha coast are advised not to venture into sea during next 12 hours and along and off north Odisha and West Bengal coasts during next 36 hrs.

### **Heavy Rainfall:**

Light to moderate rainfall at many places very likely over coastal districts of north Odisha during next 12 hours.

Rainfall at most places with heavy to very heavy falls at isolated places very likely over north and south 24 Pargana districts of West Bengal and heavy falls at isolated places over the remaining coastal districts of West Bengal during next 24 hours.

Rainfall at most places with heavy falls at isolated places very likely over south Assam, eastern Meghalaya, Mizoram and Tripura during next 48 hours.

### **Wind:**

Squally winds speed reaching 45-55 kmph gusting to 65 kmph very likely to prevail along & off north Odisha and West Bengal coasts during next 24 hours and 35-45 kmph gusting to 55 kmph during subsequent 12 hours.

Squally winds speed reaching 30-40 kmph gusting to 50 kmph is also very likely to prevail along & off south Odisha coast during next 12 hours.

**Marine Forecaster  
Ocean State Forecast Team  
Information Services and Ocean Sciences 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>)