



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:** Chief Secretary, Government of Kerala  
KSDMA, Thiruvananthapuram  
Administrator, UT of Lakshadweep  
Commandant, Indian Coast Guard, Southern Region  
DNOM, Indian Navy  
Reliance Foundation, Mumbai  
MSSRF, Chennai  
PMSSS, Puducherry  
Administrator, UT 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  
Administrator, Daman and Diu  
Shipping Corporation of India.  
T.V. & Radio channels and newspapers of relevant states/UT

**Time of issue: 12:00 hours IST Dated: 06.12.2017, Bulletin No.: INCOIS/06/12/2017/2**

**Sub: INCOIS-IMD Joint Bulletin - Ocean State Forecast associated with Low pressure area over south coastal Gujarat & neighbourhood**

The well marked low pressure area over north coastal Maharashtra and adjoining south coastal Gujarat & northeast Arabian Sea weakened further and lay as a low pressure area over south coastal Gujarat and neighbourhood at 0830 hours IST of today, the 06<sup>th</sup> December 2017.

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

**1. Gujarat**

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

| Location  | Date       | Time (IST) | Maximum Wave height (m) | Swell height (m) |
|-----------|------------|------------|-------------------------|------------------|
| Kachch    | 06-12-2017 | 17.30      | 1.1                     | 0.4              |
| Jamnagar  | 06-12-2017 | 17.30      | 2.9                     | 1.1              |
| Porbandar | 06-12-2017 | 17.30      | 3.0                     | 1.4              |
| Junagadh  | 06-12-2017 | 17.30      | 2.7                     | 1.4              |
| Diu       | 06-12-2017 | 17.30      | 2.3                     | 1.1              |
| Amreli    | 06-12-2017 | 17.30      | 2.3                     | 1.2              |
| Bhavnagar | 06-12-2017 | 17.30      | 1.2                     | 0.5              |
| Kheda     | 06-12-2017 | 17.30      | 1.3                     | 0.4              |
| Bharuch   | 06-12-2017 | 17.30      | 1.4                     | 0.4              |
| Surat     | 06-12-2017 | 17.30      | 1.3                     | 0.4              |
| Navsari   | 07-12-2017 | 17.30      | 1.6                     | 0.4              |
| Valsad    | 07-12-2017 | 17.30      | 1.4                     | 0.5              |

**Offshore:** Waves with **maximum heights** in the range of 2.0 – 3.0 meters are forecasted during 12:30 hours on 06-12-2017 to 23:30 hours of 06-12-2017 along the coast of Gujarat from Jakhau to Diu Head. Current speeds vary between 145 - 179 cm/sec.

#### **Swell Surge Alert for Gujarat:**

There is a possibility that low lying areas may be surged intermittently during 12:30 hours of 06-12-2017 to 23:30 hours of 06-12-2017 because of the combined effect of swell waves and spring tide.

## **2. Maharashtra**

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

| Location       | Date       | Time (IST) | Maximum Wave height (m) | Swell height (m) |
|----------------|------------|------------|-------------------------|------------------|
| Thane          | 07-12-2017 | 20.30      | 2.4                     | 0.7              |
| Greater Mumbai | 07-12-2017 | 20.30      | 2.4                     | 0.7              |
| Raigarh        | 07-12-2017 | 20.30      | 2.5                     | 0.7              |
| Ratnagiri      | 07-12-2017 | 23.30      | 2.9                     | 0.9              |
| Sindhudurg     | 06-12-2017 | 17.30      | 2.8                     | 1.1              |

**Offshore:** Waves with **maximum heights** in the range of 2.0 - 3.0 meters are forecasted during 12:30 hours on 06-12-2017 to 23:30 hours of 06-12-2017 along the coast of Maharashtra from Malvan to Vasai . Current speeds vary between 44 - 86 cm/sec.

#### **Swell Surge Alert for Maharashtra:**

There is a possibility that low lying areas may be surged intermittently during 12:30 hours of 06-12-

2017 to 23:30 hours of 06-12-2017 at Malvan, Munage, Phanase, Velas, Colaba, Gateway of India because of the combined effect of swell waves and spring tide.

### 3. Goa:

**Table 3:** Forecasted highest wave (along with time) and corresponding swell height, for coastal region, into the ocean upto 10 km off Goa.

| Location/District | Date       | Time (IST) | Maximum Wave Height (m) | Swell height (m) |
|-------------------|------------|------------|-------------------------|------------------|
| North Goa         | 06-12-2017 | 17.30      | 2.7                     | 1.1              |
| South Goa         | 06-12-2017 | 17.30      | 2.5                     | 1.2              |

**Offshore :** Waves with **maximum heights** in the range of 2.0 – 2.6 meters are forecasted during 12:30 hours on 06-12-2017 to 23:30 hours of 06-12-2017 along the coast of Goa from Vengurla to Vasco. Current speeds vary between 39 - 95 cm/sec.

#### **Swell Surge Alert for Goa:**

There is a possibility that low lying areas may be surged intermittently during 12:30 hours of 06-12-2017 to 23:30 hours of 06-12-2017 at Marmugoa, Panjim, Vascoda Gama because of the combined effect of swell waves and spring tide.

### 4. Karnataka:

**Table 4:** Forecasted highest wave (along with time) and corresponding swell height, for coastal region, into the ocean upto 10 km off Karnataka.

| Location/District | Date       | Time (IST) | Maximum Wave Height (m) | Swell height (m) |
|-------------------|------------|------------|-------------------------|------------------|
| Uttara Kannada    | 06-12-2017 | 17.30      | 2.5                     | 1.1              |
| Udipi             | 06-12-2017 | 17.30      | 2.2                     | 0.8              |
| Dakshina Kannada  | 06-12-2017 | 17.30      | 2.6                     | 0.9              |

**Offshore:** Waves with **maximum heights** in the range of 2.0 – 2.5 meters are forecasted during 12:30 hours on 06-12-2017 to 23:30 hours of 06-12-2017 along the coast of Karnataka from Mangalore to Karwar. Current speeds vary between 70 - 99 cm/sec.

#### **Swell Surge Alert for Karnataka:**

There is a possibility that low lying areas may be surged intermittently during 12:30 hours of 06-12-2017 to 23:30 hours of 06-12-2017 at Uduppi, Murudeswar, Gokarna, Mashem because of the combined effect of swell waves and spring tide.

## 5. Lakshadweep:

**Table 5:** Forecasted highest wave (along with time) and corresponding swell height, for coastal region, into the ocean upto 10 km off Lakshadweep.

| Location | Date       | Time (IST) | Wave height (m) | Swell height (m) |
|----------|------------|------------|-----------------|------------------|
| Minicoy  | 07-12-2017 | 05.30      | 2.0             | 1.6              |
| Kalpeni  | 07-12-2017 | 08.30      | 1.8             | 1.4              |
| Kavarati | 06-12-2017 | 23.30      | 1.9             | 1.4              |
| Androth  | 07-12-2017 | 08.30      | 1.8             | 1.4              |
| Agati    | 06-12-2017 | 20.30      | 1.8             | 1.3              |
| Amini    | 06-12-2017 | 20.30      | 1.8             | 1.3              |
| Kadamat  | 06-12-2017 | 20.30      | 1.8             | 1.3              |
| Kiltan   | 06-12-2017 | 20.30      | 1.7             | 1.2              |
| Bitra    | 06-12-2017 | 17.30      | 1.8             | 1.3              |
| Chetlat  | 06-12-2017 | 17.30      | 1.7             | 1.3              |

### **Offshore:**

High Waves in the range of 1.5 – 2.0 meters are forecasted during 12:30 hours on 06-12-2017 to 23:30 hours of 06-12-2017 along the coast of Lakshadweep Islands from Minicoy to Bitra. Current speeds vary between 115 - 170 cm/sec.

### **Swell Surge Alert for Lakshadweep:**

There is a possibility that low lying areas may be surged intermittently during 12:30 hours of 06-12-2017 to 23:30 hours of 06-12-2017 because of the combined effect of swell waves and spring tide.

## 6. Kerala

**Table 6:** Forecasted highest wave (along with time) and corresponding swell height, for coastal region, into the ocean upto 10 km off Kerala.

| Location/District  | Date       | Time (IST) | Maximum Wave Height (m) | Swell height (m) |
|--------------------|------------|------------|-------------------------|------------------|
| Thiruvananthapuram | 06-12-2017 | 17.30      | 3.0                     | 1.2              |
| Kollam             | 07-12-2017 | 11.30      | 2.8                     | 1.4              |
| Alappuzha          | 07-12-2017 | 11.30      | 2.6                     | 1.1              |
| Kochi              | 06-12-2017 | 17.30      | 2.4                     | 1.1              |
| Thrissur           | 06-12-2017 | 17.30      | 1.7                     | 0.5              |
| Malappuram         | 06-12-2017 | 17.30      | 2.5                     | 1.1              |
| Kozhikode          | 06-12-2017 | 17.30      | 2.5                     | 1.1              |
| Kannur             | 06-12-2017 | 17.30      | 2.8                     | 1.2              |

|          |            |       |     |     |
|----------|------------|-------|-----|-----|
| Kasargod | 06-12-2017 | 17.30 | 2.8 | 1.1 |
|----------|------------|-------|-----|-----|

**Offshore:**

Waves with **maximum heights** in the range of 2.0 – 3.0 meters are forecasted during 12:30 hours on 06-12-2017 to 23:30 hours of 06-12-2017 off the coast of Kerala from Vizhinjam to Kasargod. Current speeds vary between 104 - 108 cm/sec.

**Swell Surge Alert for Kerala:**

There is a possibility that low lying areas may be surged intermittently during 12:30 hours of 06-12-2017 to 23:30 hours of 06-12-2017 at Kollam, Alappuzha, Kochi, Ponnani, Kozhikode, Kannur, Kasargod because of the combined effect of swell waves and spring tide.

**7. South Tamil Nadu:**

High swell waves in the range of 1.5 – 1.8 meters are forecasted during 12:30 hours on 06-12-2017 to 23:30 hours of 06-12-2017 along the coast of Southern Tamil Nadu from Kolachal to Kilakarai. Current speeds vary between 69 - 112 cm/sec.

**Swell Surge Alert for South Tamilnadu:**

There is a possibility that low lying areas may be surged intermittently during 12:30 hours of 06-12-2017 to 23:30 hours of 06-12-2017 because of the combined effect of swell waves and spring tide.

**[At a location 18.5 deg N, 67.46 deg E from a buoy by today at 11:30 IST: Observed wave height is 2.2 m, and forecasted was 2.0 m. Observed wind speed is 5.2 m/s, and forecasted was 7.2 m/s.**

**Off Versova, today at 11:30 IST: Observed wave height from a buoy is 0.7 m, and forecasted was 0.6 m.]**

**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>)