

## **EXERCISE INDIAN OCEAN WAVE 16**

### **An Indian Ocean-wide Tsunami Warning and Communications Exercise**

**7-8 September 2016**

**Volume 2**

**Exercise Report**

#### **Supplement 2**

#### **TSP Bulletins for Scenario 2: Makran Trench**

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Communications Exercise**

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**TSP Bulletins for Scenario 2: Makran Trench**

**UNESCO 2017**

IOC Technical Series, 128 Vol.2 Supplement 2  
Perth, February 2017  
English only

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**For bibliographic purposes, this document should be cited as follows:**

Intergovernmental Oceanographic Commission of UNESCO. 2017. *Exercise Indian Ocean Wave 2016: An Indian Ocean-wide Tsunami Warning and Communication Exercise*, 7-8 September 2016. Volume 2: Exercise Report. IOC Technical Series No. 128, Vol. 2, Supplement 2: TSP Bulletins for Scenario 2 Makran Trench. (English only)

Prepared by the Exercise IOWave16 Task Team for the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System.

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(IOC/2017/TS/128Vol.2/Supp.2)

## **TABLE OF CONTENTS**

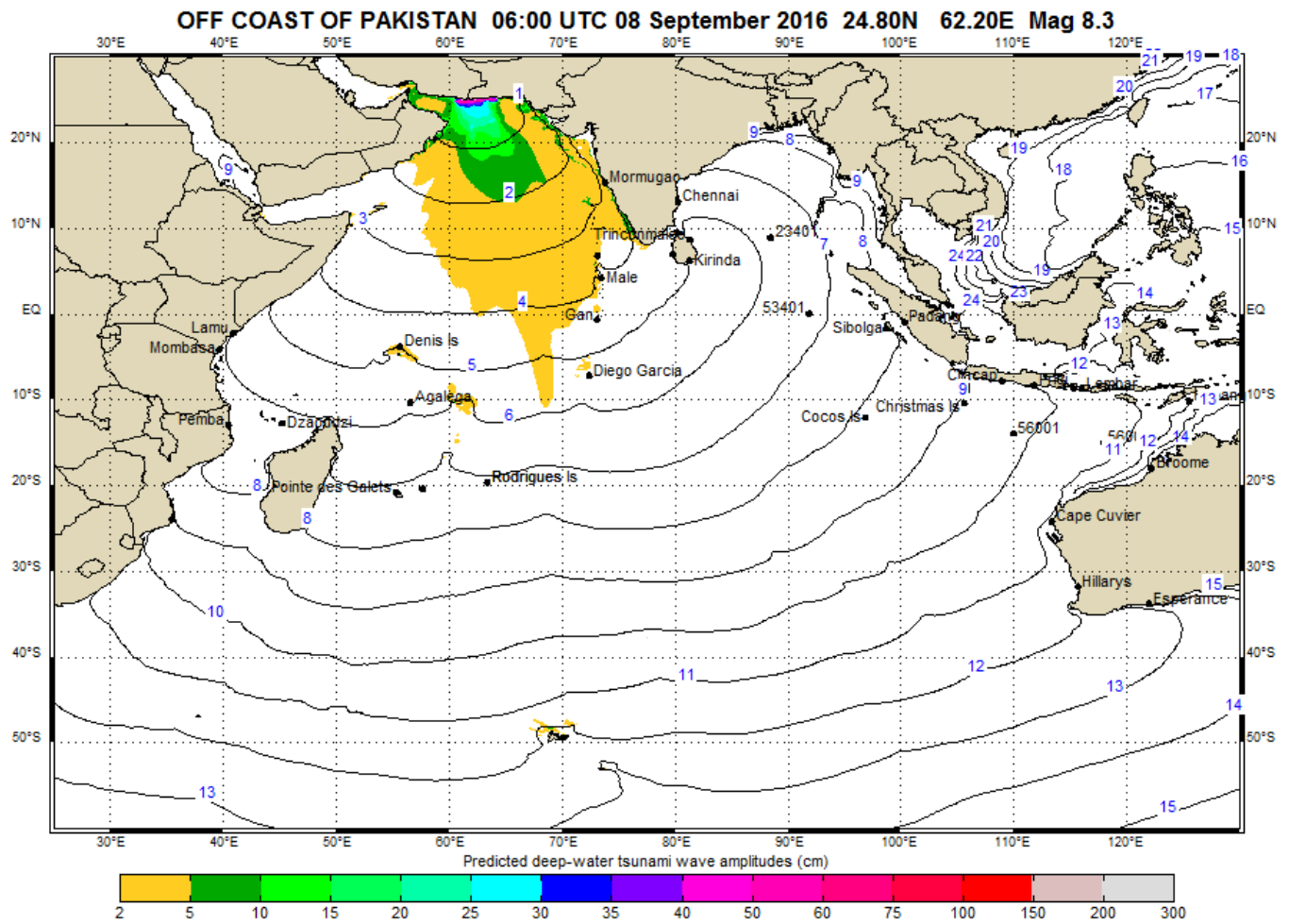
INTRODUCTION.....	1
TSP AUSTRALIA MAPS .....	2
TSP AUSTRALIA BULLETINS.....	8
TSP INDONESIA MAPS .....	83
TSP INDONESIA BULLETINS .....	86
TSP INDIA MAPS.....	187
TSP INDIA BULLETINS .....	193

## INTRODUCTION

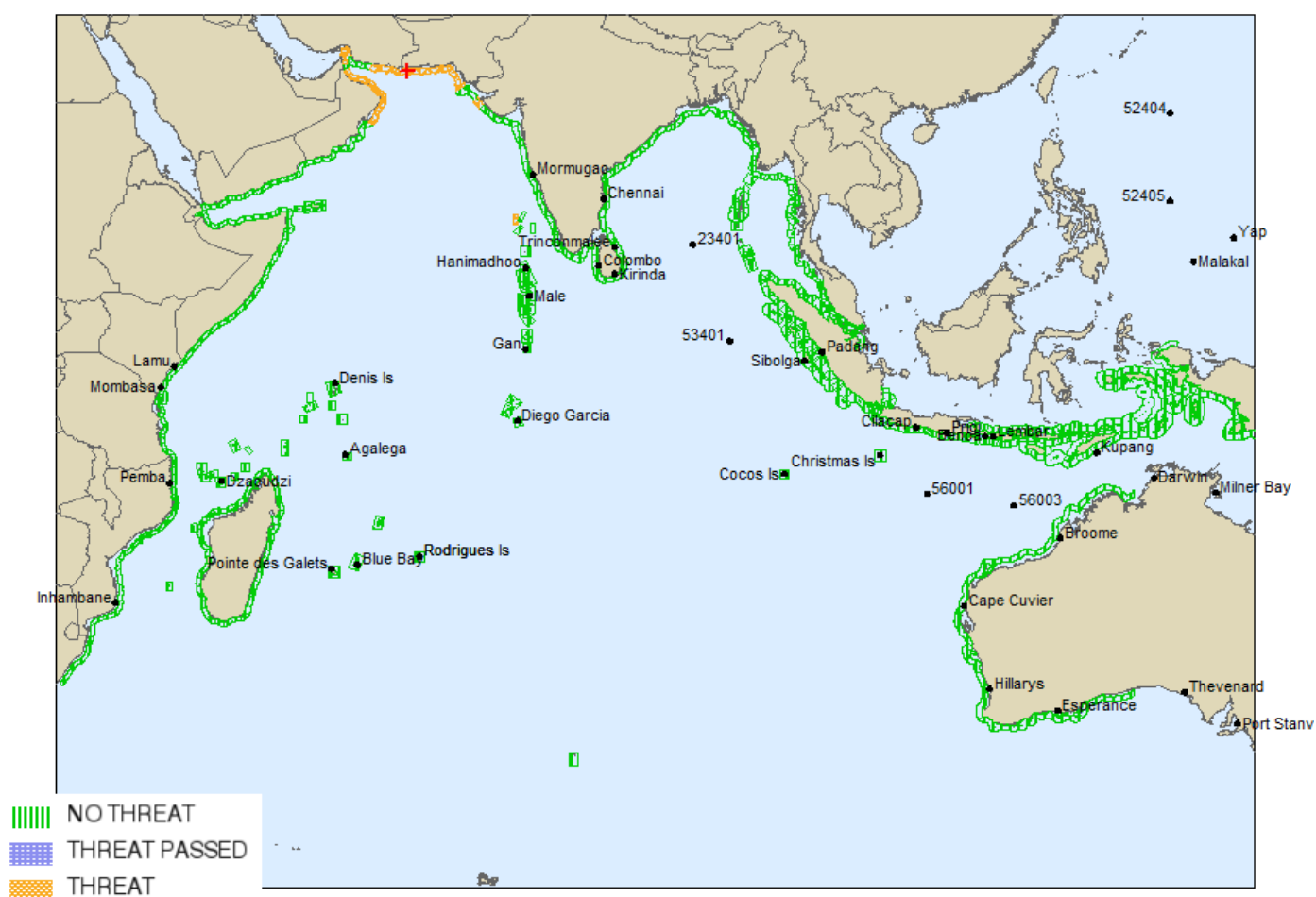
This document contains all of the Tsunami Service Provider (TSP) products generated and issued during the Makran Trench scenario of Exercise Indian Ocean Wave 2016 conducted on 8 September 2016.

## TSP AUSTRALIA MAPS

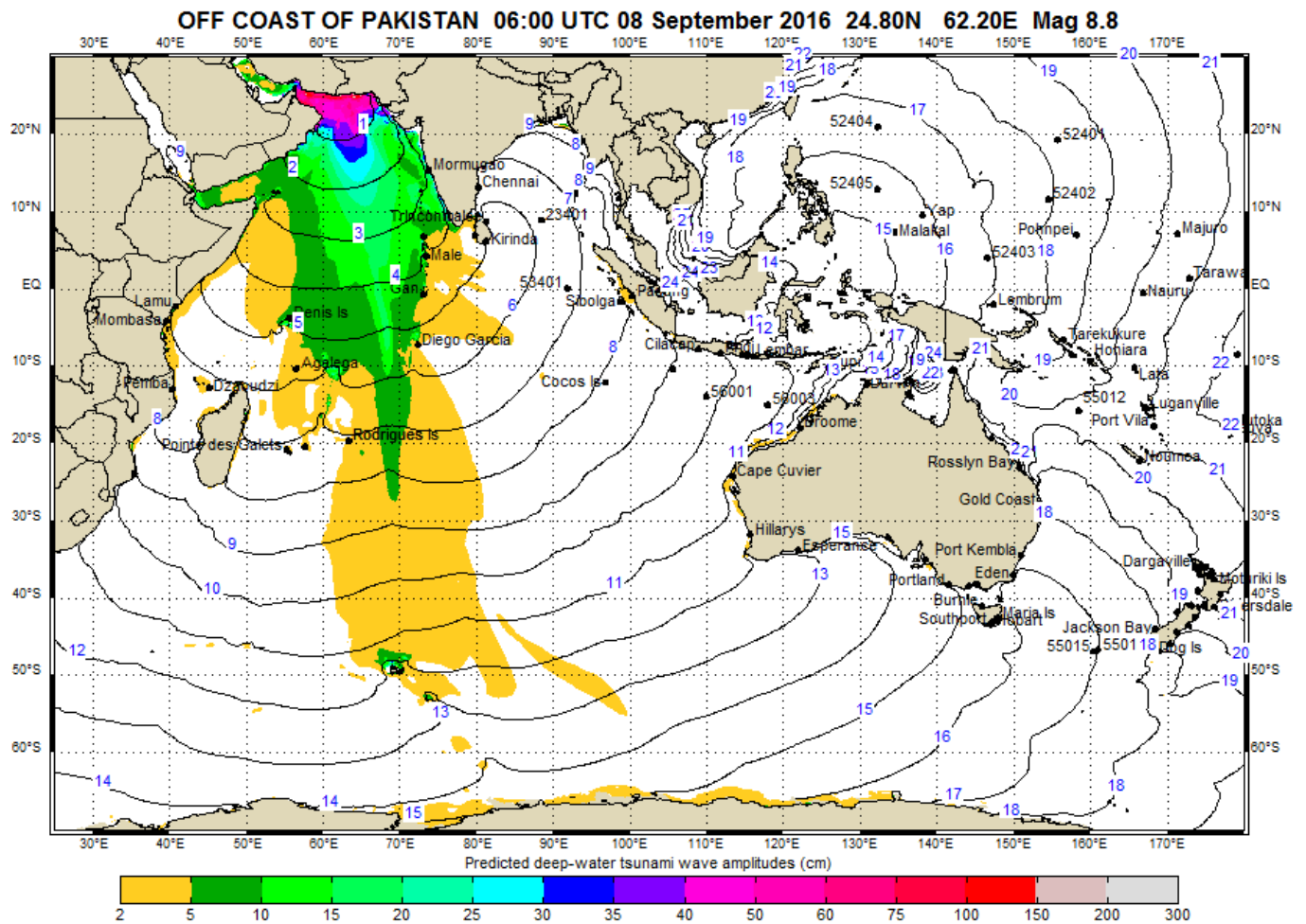
TSP Australia Maximum Deep-Water Wave Amplitudes / Travel Times Map for Bulletin 2 (EQ Magnitude 8.3):



TSP Australia Threat Map for Bulletin 2 (EQ Magnitude 8.3):

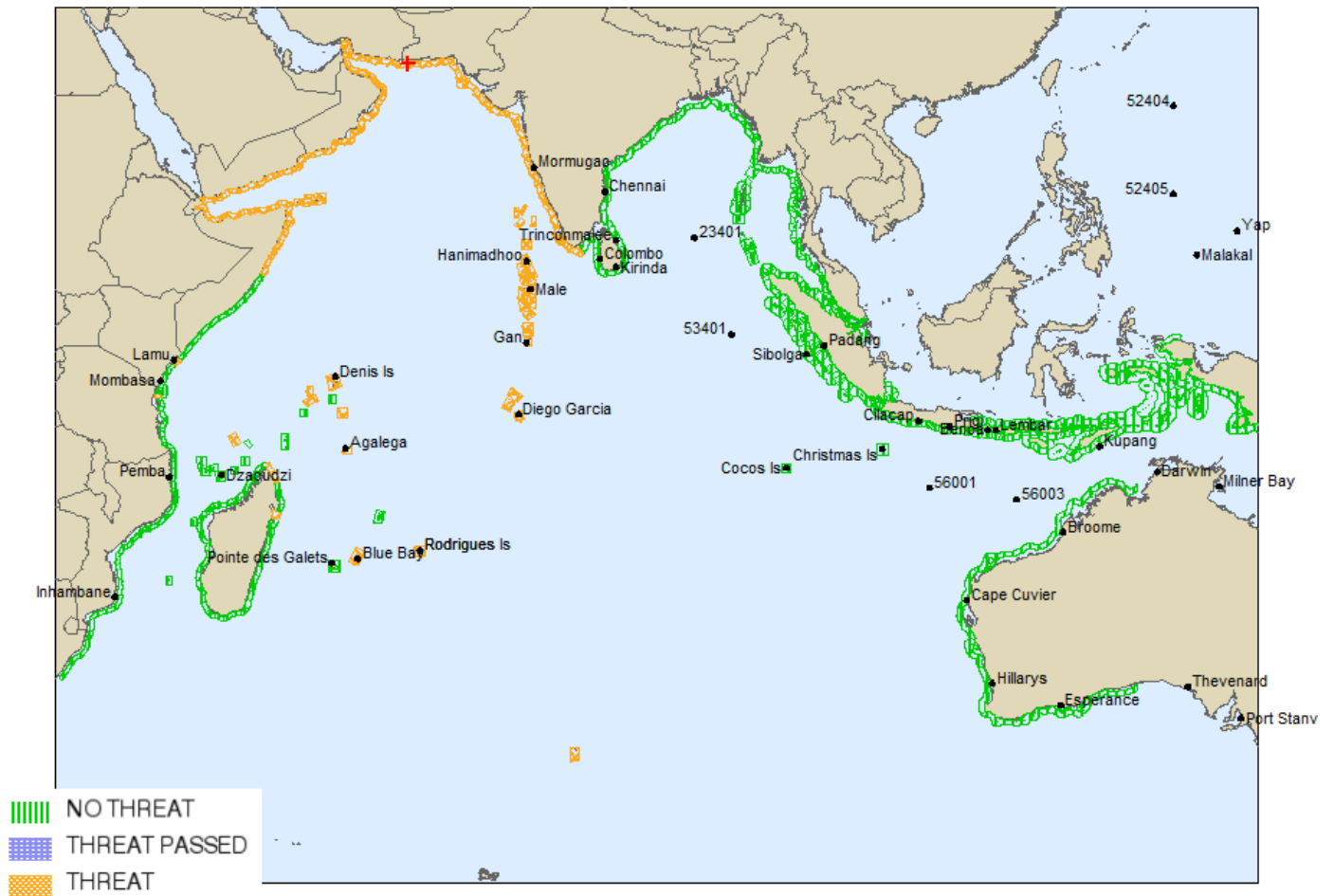


TSP Australia Maximum Deep-Water Wave Amplitudes / Travel Times Map for Bulletin 3 (EQ  
Magnitude 8.8):

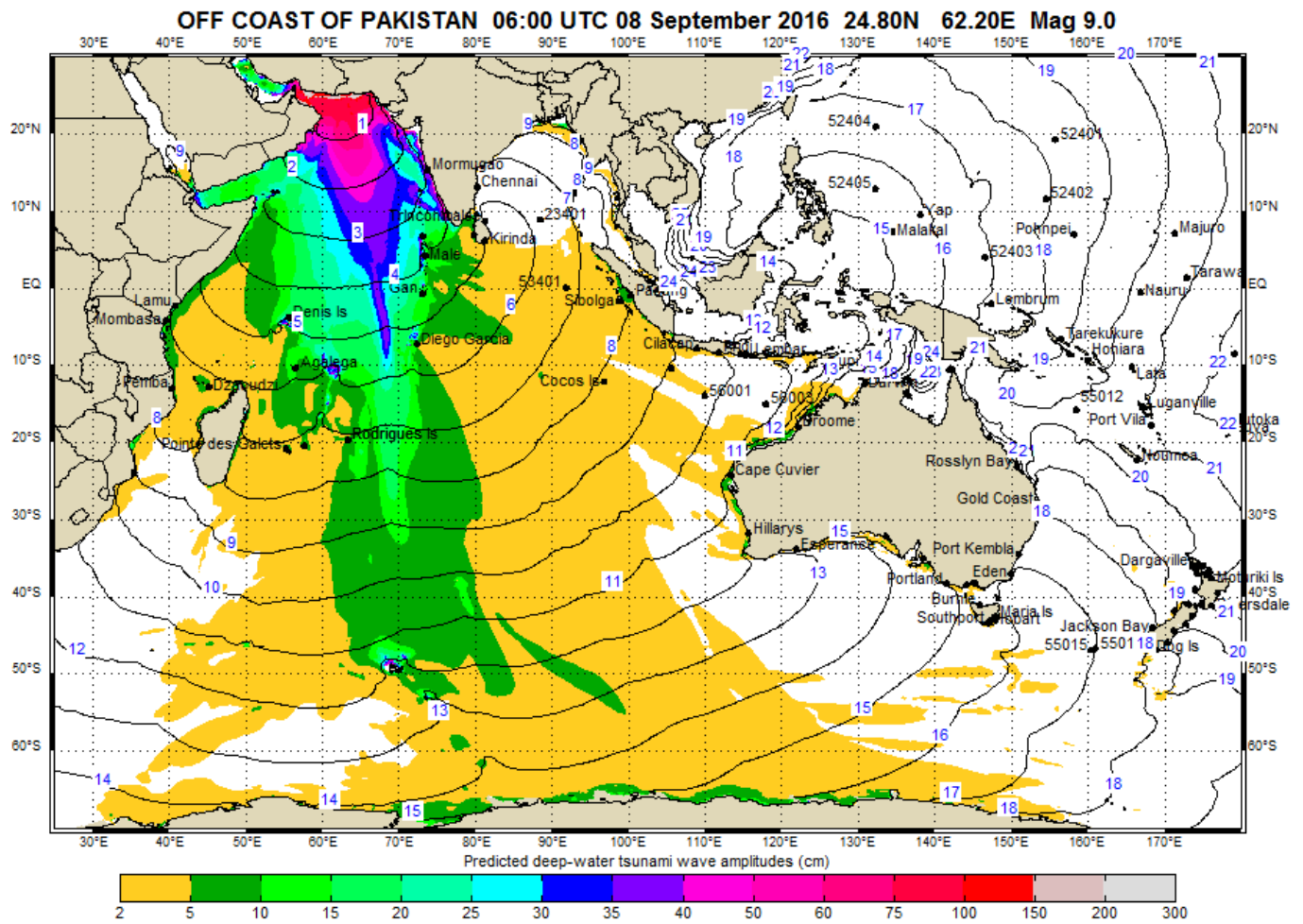




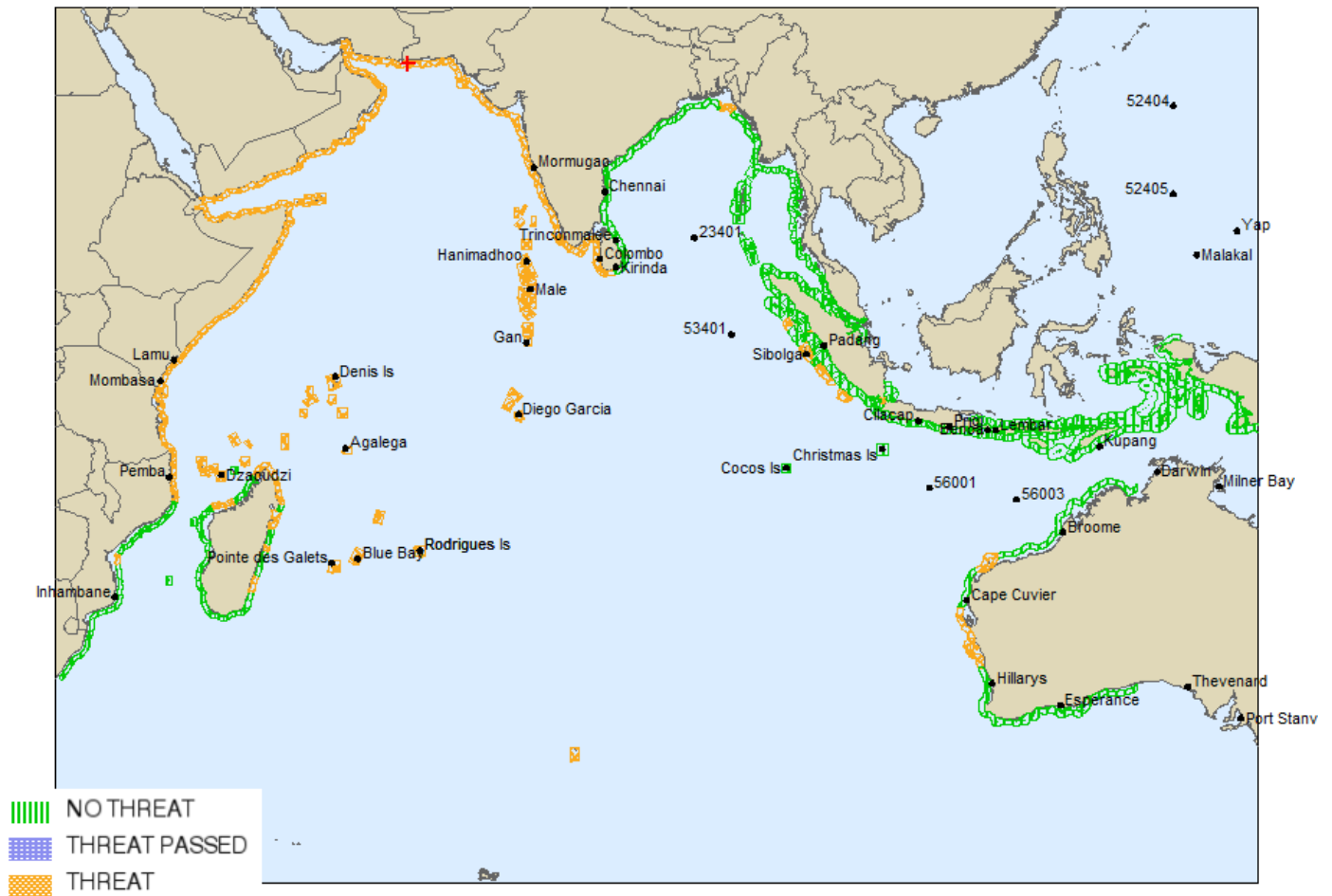
TSP Australia Threat Map for Bulletin 3 (EQ Magnitude 8.8):



TSP Australia Maximum Deep-Water Wave Amplitudes / Travel Times Map for Bulletins 4 to 14  
(EQ Magnitude 9.0):



TSP Australia Threat Map for Bulletins 4 to 14 (EQ Magnitude 9.2):



## TSP AUSTRALIA BULLETINS

```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TEST TSUNAMI BULLETIN NUMBER 1  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
Issued at 0614 UTC Thursday 08 September 2016  
-----
```

... EARTHQUAKE BULLETIN ...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following  
preliminary information:

Magnitude: 8.3 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

### 2. EVALUATION

IOTWMS-TSP AUSTRALIA is evaluating this earthquake to determine if a  
tsunami has been generated. If a threat is assessed to exist,  
further bulletins will be issued. Additional information on this event  
is available at <http://reg.bom.gov.au/tsunami/rtsp>.

### 3. ADVICE

This bulletin is being issued as advice. Only national/state/local  
authorities and disaster management officers have the authority to  
make decisions regarding the official threat and warning status in  
their coastal areas and any action to be taken in response.

### 4. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this  
event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

### 5. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA  
Joint Australian Tsunami Warning Centre (JATWC)  
Bureau of Meteorology  
GPO BOX 1289 Melbourne, Victoria, Australia, 3001  
<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

```
#####  
#
```

```
#    TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TEST TSUNAMI BULLETIN NUMBER 2  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
Issued at: 0614 UTC Thursday 08 September 2016  
-----
```

... POTENTIAL TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 8.3 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Earthquakes of this size are capable of generating tsunamis. However,  
so far there is no confirmation about the triggering of a tsunami.

An investigation is under way to determine if a tsunami has been  
triggered. This TSP will monitor sea level gauges and report if any  
tsunami wave activity has occurred.

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach  
are not shown.

The list is grouped by country (alphabetic order) and ordered  
according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those  
below, and the initial wave may not be the largest. A tsunami is a  
series of waves and the time between successive waves can be five  
minutes to one hour.

The threat is deemed to have passed two hours after the forecast time  
for last exceedance of the 0.5m threat threshold for a zone. As local  
conditions can cause a wide variation in tsunami wave action,  
CANCELLATION of national warnings and ALL CLEAR determination must be  
made by national/state/local authorities.

INDIA  
DWARKA 0830Z 08Sep2016 0.51m

AGATTI 0858Z 08Sep2016 0.60m

IRAN

PUSHT 0600Z 08Sep2016 2.56m  
MACHAN 0608Z 08Sep2016 0.97m  
BIR 0636Z 08Sep2016 0.59m  
SIRIK 1014Z 08Sep2016 0.75m  
SAR RIG 1124Z 08Sep2016 0.58m

OMAN

QALHAT 0624Z 08Sep2016 1.22m  
MUSCAT 0624Z 08Sep2016 0.95m  
RASS AL HADD 0626Z 08Sep2016 1.16m  
BARKA 0632Z 08Sep2016 3.16m  
AL ASHKHARAH 0644Z 08Sep2016 0.93m  
MASIRAH 0702Z 08Sep2016 0.60m  
ABU GHALAT 0702Z 08Sep2016 0.61m  
SUHAR 0718Z 08Sep2016 0.51m  
AL KHABURAH 0724Z 08Sep2016 0.73m  
MUSANDAM 0802Z 08Sep2016 0.51m

PAKISTAN

BAGAR 0600Z 08Sep2016 4.99m  
PASNI 0600Z 08Sep2016 3.19m  
ORMARA 0600Z 08Sep2016 0.89m  
JIWANI 0600Z 08Sep2016 4.32m  
KUND MALIR BEACH- MAKHRAN HIGHWAY 0654Z 08Sep2016 0.83m  
WINDER 0712Z 08Sep2016 0.73m  
SINDH 0736Z 08Sep2016 0.61m  
KARACHI 0746Z 08Sep2016 0.73m

UNITED ARAB EMIRATES

ZIGGHY BAY 1108Z 08Sep2016 0.51m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

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IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TEST TSUNAMI BULLETIN NUMBER 3  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
Issued at: 0625 UTC Thursday 08 September 2016  
-----
```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 8.8 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Chabahar	IRAN	25.33N	60.50E	2.00m	08 Sep 06:20 UTC
Muscat	OMAN	23.60N	58.57E	6.00m	08 Sep 06:30 UTC
Gwadar	PAKISTAN	25.00N	62.00E	1.50m	08 Sep 06:45 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
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amplitude of the maximum beach wave predicted for the zone. Zones  
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are not shown.

The list is grouped by country (alphabetic order) and ordered  
according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those  
below, and the initial wave may not be the largest. A tsunami is a  
series of waves and the time between successive waves can be five  
minutes to one hour.

The threat is deemed to have passed two hours after the forecast time  
for last exceedance of the 0.5m threat threshold for a zone. As local  
conditions can cause a wide variation in tsunami wave action,  
CANCELLATION of national warnings and ALL CLEAR determination must be  
made by national/state/local authorities.

BRITISH INDIAN OCEAN TERRITORY  
MORESBY ISLAND 1102Z 08Sep2016 1.17m



NW EGMONT ISLAND 1112Z 08Sep2016 0.85m  
DIEGO GARCIA 1304Z 08Sep2016 0.66m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA 1118Z 08Sep2016 1.26m  
NW ARTA 1118Z 08Sep2016 1.49m

FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL 1634Z 08Sep2016 0.59m

INDIA

MANDVI 0716Z 08Sep2016 1.66m  
PORBANDAR 0806Z 08Sep2016 1.29m  
DWARKA 0814Z 08Sep2016 1.77m  
VERAVAL 0824Z 08Sep2016 1.19m  
AGATTI 0854Z 08Sep2016 1.81m  
KAVARATTI 0902Z 08Sep2016 1.22m  
AMINI 0906Z 08Sep2016 1.49m  
MALVAN BAY 0912Z 08Sep2016 1.01m  
ANDROTH 0918Z 08Sep2016 1.60m  
MINICOY 0920Z 08Sep2016 1.02m  
PANAJI 0924Z 08Sep2016 1.12m  
ANJANWEL 0926Z 08Sep2016 1.06m  
KARWAR 0934Z 08Sep2016 1.04m  
AMRELI 0942Z 08Sep2016 1.47m  
MANGALORE 0950Z 08Sep2016 1.11m  
CHANDRAGIRI FORT 1000Z 08Sep2016 1.05m  
MADAYI KANNUR 1002Z 08Sep2016 1.21m  
ALIBAG PORT 1004Z 08Sep2016 0.79m  
ALLEPPEY ALAPPUZHA 1006Z 08Sep2016 1.05m  
COCHIN 1006Z 08Sep2016 1.17m  
GULF OF KHAMBAT 1008Z 08Sep2016 0.85m  
BEYPORE 1008Z 08Sep2016 1.21m  
QUILON 1010Z 08Sep2016 1.00m  
MUMBAI 1020Z 08Sep2016 0.96m  
TRIVANDRUM 1022Z 08Sep2016 0.77m  
KANYAKUMARI 1040Z 08Sep2016 1.01m  
KODANKULAM 1118Z 08Sep2016 1.05m

IRAN

MACHAN 0600Z 08Sep2016 7.05m  
BIR 0600Z 08Sep2016 3.11m  
JASK 0600Z 08Sep2016 3.84m  
VANAK 0600Z 08Sep2016 6.60m  
PUSHT 0600Z 08Sep2016 9.27m  
MISKI 0618Z 08Sep2016 1.96m  
SIRIK 0724Z 08Sep2016 2.87m  
SAR RIG 0830Z 08Sep2016 2.94m

KENYA

LAMU 1626Z 08Sep2016 0.63m

MADAGASCAR

AMPONDRABE 1216Z 08Sep2016 0.51m  
VOHEMAR 1220Z 08Sep2016 0.52m  
TAMPOLO 1928Z 08Sep2016 0.55m

MALDIVES

KULHUDHUFFUSHI 0928Z 08Sep2016 1.38m  
GOIDHOO 0932Z 08Sep2016 1.37m  
FERIDHOO 0946Z 08Sep2016 1.34m  
NILANDHOO 0954Z 08Sep2016 1.22m  
DHIYAMIGILI 1002Z 08Sep2016 1.07m  
MALE 1010Z 08Sep2016 0.95m

THINADHOO	1016Z	08Sep2016	1.08m
KOLHUFUSHI	1026Z	08Sep2016	0.92m
HITHADHOO	1028Z	08Sep2016	0.90m

#### MAURITIUS

AGALEGA ISLAND	1150Z	08Sep2016	0.68m
GRANDE REVIERE SUD EST	1324Z	08Sep2016	0.52m
LA FERME	1402Z	08Sep2016	0.94m

#### OMAN

BARKA	0612Z	08Sep2016	8.57m
MUSCAT	0612Z	08Sep2016	6.55m
AL KHABURAH	0616Z	08Sep2016	5.68m
QALHAT	0618Z	08Sep2016	7.49m
SUHAR	0618Z	08Sep2016	3.39m
RASS AL HADD	0622Z	08Sep2016	7.05m
AL ASHKHARAH	0636Z	08Sep2016	5.05m
MUSANDAM	0646Z	08Sep2016	2.63m
ABU GHALAT	0652Z	08Sep2016	3.04m
MASIRAH	0654Z	08Sep2016	2.91m
MANADHIF	0708Z	08Sep2016	1.87m
JUWAYRAH	0720Z	08Sep2016	1.66m
AL DUQM	0730Z	08Sep2016	1.51m
SHARBTHAT	0746Z	08Sep2016	1.19m
JUZUR AL HALANIYAT	0748Z	08Sep2016	1.20m
HASIK	0754Z	08Sep2016	1.13m
AL JAZIR	0758Z	08Sep2016	1.07m
MIRBAT	0802Z	08Sep2016	0.93m
SALALAH	0812Z	08Sep2016	0.93m
DHALKUT	0820Z	08Sep2016	0.90m

#### PAKISTAN

BAGAR	0600Z	08Sep2016	11.86m
PASNI	0600Z	08Sep2016	6.01m
ORMARA	0600Z	08Sep2016	6.09m
KUND MALIR BEACH- MAKHRAN HIGHWAY	0600Z	08Sep2016	2.19m
JIWANI	0600Z	08Sep2016	10.68m
WINDER	0634Z	08Sep2016	2.68m
KARACHI	0640Z	08Sep2016	2.23m
SINDH	0712Z	08Sep2016	1.72m

#### SEYCHELLES

TAKAMAKA	1038Z	08Sep2016	1.30m
REMIRE ISLAND	1058Z	08Sep2016	0.74m
ILE DESROCHES	1108Z	08Sep2016	0.62m
FREGATE ISLAND	1112Z	08Sep2016	1.03m
COETIVY ISLAND	1124Z	08Sep2016	0.51m
ALDABRA	1148Z	08Sep2016	0.55m

#### SOMALIA

HAFUN	0920Z	08Sep2016	0.64m
CAPE GUARDAFUI	0922Z	08Sep2016	0.58m
TOOXIN	0924Z	08Sep2016	0.97m
ABO	0928Z	08Sep2016	0.61m
BANDARBEYLA	0930Z	08Sep2016	0.62m
ISKUSHUBAN	0930Z	08Sep2016	0.67m
QANDALA	0930Z	08Sep2016	0.64m
DARIMOH	0930Z	08Sep2016	0.68m
HURDYO	0940Z	08Sep2016	0.56m
EYL	0940Z	08Sep2016	0.72m
HADAAFTIMO	0946Z	08Sep2016	0.58m
BOSASO	0948Z	08Sep2016	0.65m
JARIIBAN	0954Z	08Sep2016	0.65m
GALDOGOB	0956Z	08Sep2016	0.56m

NORTHERN HOBYO	1002Z	08Sep2016	0.56m
GALGALA	1008Z	08Sep2016	0.58m
MAYDH	1022Z	08Sep2016	0.67m
KABURA	1024Z	08Sep2016	0.67m
ANTERAL	1036Z	08Sep2016	0.57m
BERBERA	1048Z	08Sep2016	0.69m
BAKI	1058Z	08Sep2016	0.81m
SAYLAC	1100Z	08Sep2016	1.00m
LOYADO	1122Z	08Sep2016	0.78m

TANZANIA

VUMBI 1454Z 08Sep2016 0.50m

UNITED ARAB EMIRATES

KALBA	0622Z	08Sep2016	2.57m
ZIGGHY BAY	0636Z	08Sep2016	2.46m

YEMEN

SOCOTRA ISLAND SOUTH	0826Z	08Sep2016	1.00m
AL GHAYDAH AIRPORT	0836Z	08Sep2016	1.26m
HUSWAYN	0844Z	08Sep2016	0.82m
SOCOTRA ISLAND NORTH	0844Z	08Sep2016	0.63m
SOCOTRA ISLAND WEST	0850Z	08Sep2016	1.00m
ITAB	0902Z	08Sep2016	0.96m
AL QUMRAH	0916Z	08Sep2016	0.77m
HAMI	0920Z	08Sep2016	0.68m
AL MUKALLA	0930Z	08Sep2016	0.73m
BROM MAYFA	0930Z	08Sep2016	0.63m
YEMEN	0952Z	08Sep2016	0.53m
HISN BALID	1006Z	08Sep2016	0.55m
AHWAR	1020Z	08Sep2016	0.51m
KHANFAR	1034Z	08Sep2016	0.61m
BIR JABIR	1038Z	08Sep2016	0.60m
ADEN	1042Z	08Sep2016	0.60m
QAWAH	1118Z	08Sep2016	0.72m

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Bureau of Meteorology

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<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT

#  
#####

```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TEST TSUNAMI BULLETIN NUMBER 4  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
Issued at: 0639 UTC Thursday 08 September 2016  
-----
```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

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#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
Maximum wave amplitudes observed so far:

Chabahar	IRAN	25.33N	60.50E	2.00m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	1.50m	08 Sep 06:20 UTC
Muscat	OMAN	23.60N	58.57E	6.00m	08 Sep 06:30 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
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amplitude of the maximum beach wave predicted for the zone. Zones  
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conditions can cause a wide variation in tsunami wave action,  
CANCELLATION of national warnings and ALL CLEAR determination must be  
made by national/state/local authorities.

AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z	08Sep2016	0.59m
BORROW ISLAND	1756Z	08Sep2016	0.51m
PORT DENISON	2324Z	08Sep2016	0.51m

#### BANGLADESH

COXS BAZAR	2144Z	08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z	09Sep2016	0.54m

#### BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1058Z	08Sep2016	1.80m
NW EGMONT ISLAND	1108Z	08Sep2016	1.64m
DIEGO GARCIA	1138Z	08Sep2016	1.27m

#### COMOROS

BAMBAO	1220Z	08Sep2016	0.72m
DZAOUDZI	1226Z	08Sep2016	0.60m
FOMBONI	1228Z	08Sep2016	0.75m
CHEZANI	1334Z	08Sep2016	0.61m

#### DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	08Sep2016	2.42m
NW ARTA	1108Z	08Sep2016	2.86m

#### FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z	08Sep2016	0.99m
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#### INDIA

MANDVI	0712Z	08Sep2016	3.20m
PORBANDAR	0752Z	08Sep2016	2.01m
DWARKA	0756Z	08Sep2016	2.69m
VERAVAL	0810Z	08Sep2016	2.03m
AGATTI	0848Z	08Sep2016	2.86m
KAVARATTI	0856Z	08Sep2016	1.83m
MALVAN BAY	0900Z	08Sep2016	1.67m
AMINI	0900Z	08Sep2016	2.34m
PANAJI	0912Z	08Sep2016	1.86m
ANDROTH	0912Z	08Sep2016	2.40m
ANJANWEL	0916Z	08Sep2016	1.76m
MINICOY	0916Z	08Sep2016	1.55m
KARWAR	0922Z	08Sep2016	1.76m
AMRELI	0928Z	08Sep2016	2.58m
MANGALORE	0940Z	08Sep2016	1.93m
ALIBAG PORT	0950Z	08Sep2016	1.35m
GULF OF KHAMBAT	0952Z	08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z	08Sep2016	1.75m
MADAYI KANNUR	0954Z	08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z	08Sep2016	1.84m
BEYPORE	1000Z	08Sep2016	2.04m
COCHIN	1000Z	08Sep2016	1.96m
MUMBAI	1002Z	08Sep2016	1.63m
QUILON	1004Z	08Sep2016	1.71m
TRIVANDRUM	1016Z	08Sep2016	1.32m
KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m
RAMESWARAM	1132Z	08Sep2016	0.57m

#### INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	08Sep2016	0.62m
BENGKULU BENGKULU-UTARA P.ENGANO	1450Z	08Sep2016	0.53m
SUMUT NIAS B	1826Z	08Sep2016	0.54m
SUMUT MANDAILING-NATAL S	1944Z	08Sep2016	0.55m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2036Z	08Sep2016	0.51m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m

LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
BIR	0600Z	08Sep2016	5.99m
JASK	0600Z	08Sep2016	7.38m
VANAK	0600Z	08Sep2016	12.69m
PUSHT	0600Z	08Sep2016	7.88m
MISKI	0616Z	08Sep2016	3.77m
SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

KIWAYU	1144Z	08Sep2016	0.69m
LAMU	1210Z	08Sep2016	0.69m
TAKAUNGU	1220Z	08Sep2016	0.66m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m
MVULENI	1226Z	08Sep2016	0.74m

#### MADAGASCAR

GLORIOSO ISLANDS	1202Z	08Sep2016	0.58m
MANGAOKA	1210Z	08Sep2016	0.51m
AMPONDRABE	1210Z	08Sep2016	0.71m
VOHEMAR	1214Z	08Sep2016	0.73m
MAHALINA	1220Z	08Sep2016	0.87m
TSARABARIA	1226Z	08Sep2016	0.62m
FARAHALANA	1232Z	08Sep2016	0.63m
AMBOHITRALANANA	1238Z	08Sep2016	0.56m
NOSY MAKAMBY	1302Z	08Sep2016	0.64m
TOAMASINA	1342Z	08Sep2016	0.53m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
FENOARIVO AT SINANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m
DHIYAMIGILI	0958Z	08Sep2016	1.87m
MALE	1004Z	08Sep2016	1.24m
THINADHOO	1012Z	08Sep2016	1.76m
KOLHUFUSHI	1020Z	08Sep2016	1.31m
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AGALEGA ISLAND	1148Z	08Sep2016	1.08m
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GRANDE REVIERE SUD EST	1322Z	08Sep2016	0.78m
CARGADOS CARAJOS	1322Z	08Sep2016	0.82m

#### MOZAMBIQUE

QUITERAJO	1252Z	08Sep2016	0.54m
MAGANJA	1300Z	08Sep2016	0.54m

TAVARI	1304Z	08Sep2016	0.54m
LURIO	1306Z	08Sep2016	0.61m
MURREBUE	1306Z	08Sep2016	0.57m
MERONVI	1308Z	08Sep2016	0.54m
NANGATA	1310Z	08Sep2016	0.58m
MINHAUINE	1312Z	08Sep2016	0.60m
NHANGAU	0422Z	09Sep2016	0.54m

OMAN

BARKA	0610Z	08Sep2016	16.49m
MUSCAT	0610Z	08Sep2016	12.59m
AL KHABURAH	0614Z	08Sep2016	10.92m
QALHAT	0616Z	08Sep2016	10.60m
SUHAR	0618Z	08Sep2016	6.52m
RASS AL HADD	0622Z	08Sep2016	8.72m
AL ASHKHARAH	0636Z	08Sep2016	5.12m
MUSANDAM	0642Z	08Sep2016	5.07m
ABU GHALAT	0652Z	08Sep2016	3.45m
MASIRAH	0654Z	08Sep2016	3.06m
MANADHIF	0708Z	08Sep2016	2.33m
JUWAYRAH	0720Z	08Sep2016	2.06m
AL DUQM	0728Z	08Sep2016	2.29m
SHARBTHAT	0744Z	08Sep2016	1.78m
JUZUR AL HALANIYAT	0746Z	08Sep2016	1.85m
HASIK	0754Z	08Sep2016	1.90m
AL JAZIR	0756Z	08Sep2016	1.71m
MIRBAT	0800Z	08Sep2016	1.41m
SALALAH	0808Z	08Sep2016	1.66m
DHALKUT	0820Z	08Sep2016	1.49m

PAKISTAN

BAGAR	0600Z	08Sep2016	7.76m
PASNI	0600Z	08Sep2016	11.56m
ORMARA	0600Z	08Sep2016	11.71m
KUND MALIR BEACH- MAKHRAN HIGHWAY	0600Z	08Sep2016	4.21m
JIWANI	0600Z	08Sep2016	9.50m
WINDER	0630Z	08Sep2016	5.15m
KARACHI	0636Z	08Sep2016	4.04m
SINDH	0708Z	08Sep2016	3.30m

REUNION

SAINT - JOSEPH	1324Z	08Sep2016	0.80m
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SEYCHELLES

TAKAMAKA	1036Z	08Sep2016	1.95m
REMIRE ISLAND	1056Z	08Sep2016	0.97m
FREGATE ISLAND	1106Z	08Sep2016	1.97m
ILE DESROCHES	1108Z	08Sep2016	0.77m
ALPHONSE ISLAND	1114Z	08Sep2016	0.54m
COETIVY ISLAND	1122Z	08Sep2016	0.88m
PLATTE ISLAND	1128Z	08Sep2016	0.61m
ASTOVE ISLAND	1144Z	08Sep2016	0.61m
ALDABRA	1146Z	08Sep2016	0.65m
FARQUHAR GROUP	1230Z	08Sep2016	0.54m

SOMALIA

CAPE GUARDAFUI	0914Z	08Sep2016	1.06m
HAFUN	0918Z	08Sep2016	1.05m
ABO	0922Z	08Sep2016	1.08m
TOOXIN	0922Z	08Sep2016	1.60m
QANDALA	0926Z	08Sep2016	1.14m
DARIMOH	0928Z	08Sep2016	0.97m
ISKUSHUBAN	0928Z	08Sep2016	1.02m
BANDARBEYLA	0928Z	08Sep2016	0.89m



HURDYO	0934Z	08Sep2016	0.98m
EYL	0938Z	08Sep2016	1.20m
HADAAFTIMO	0938Z	08Sep2016	1.11m
BOSASO	0942Z	08Sep2016	1.25m
JARIIBAN	0950Z	08Sep2016	1.14m
GALDOGOB	0952Z	08Sep2016	1.00m
GALGALA	0956Z	08Sep2016	1.12m
NORTHERN HOBYO	1000Z	08Sep2016	0.85m
SOUTHERN HOBYO	1002Z	08Sep2016	0.81m
MAYDH	1006Z	08Sep2016	1.29m
KABURA	1014Z	08Sep2016	1.28m
XARARDHEERE	1018Z	08Sep2016	0.86m
CEEL DHEER	1022Z	08Sep2016	0.75m
ANTERAL	1022Z	08Sep2016	1.10m
MAREEG	1032Z	08Sep2016	0.68m
BERBERA	1036Z	08Sep2016	1.32m
ITALA	1040Z	08Sep2016	0.63m
CEELBUUR	1040Z	08Sep2016	0.71m
UARSCIECH	1046Z	08Sep2016	0.61m
BAKI	1048Z	08Sep2016	1.56m
SAYLAC	1052Z	08Sep2016	1.92m
MUQDISHO	1054Z	08Sep2016	0.55m
BEYNAX BARRE	1104Z	08Sep2016	0.60m
BARAAWE	1110Z	08Sep2016	0.68m
LOYADO	1114Z	08Sep2016	1.18m
JILIB	1120Z	08Sep2016	0.65m
TURDHO	1130Z	08Sep2016	0.54m
KISMAAYO	1136Z	08Sep2016	0.55m
KAAMBOONI	1144Z	08Sep2016	0.59m
NE BEERNAASI	1150Z	08Sep2016	0.58m

#### SRI LANKA

COLOMBO	1050Z	08Sep2016	0.64m
HIKKADUWA	1052Z	08Sep2016	0.58m
MATARA	1056Z	08Sep2016	0.56m
NEGOMBO	1100Z	08Sep2016	0.63m
MUNDAL LAKE	1100Z	08Sep2016	0.56m
MANNAR ISLAND	1156Z	08Sep2016	0.53m

#### TANZANIA

ZANZIBAR	1228Z	08Sep2016	0.62m
KUTANI	1230Z	08Sep2016	0.58m
MSASANI	1234Z	08Sep2016	0.60m
SONGO MNARA	1236Z	08Sep2016	0.65m
RUVU	1236Z	08Sep2016	0.63m
BOMALANDNI	1236Z	08Sep2016	0.93m
VUMBA	1238Z	08Sep2016	0.76m
MADANGWA	1240Z	08Sep2016	0.65m
VUMBI	1246Z	08Sep2016	0.85m
GAZIJA	1248Z	08Sep2016	0.69m
JIMBO	1258Z	08Sep2016	0.66m
SONGO SONGO ISLAND	1302Z	08Sep2016	0.54m
JAJA	1304Z	08Sep2016	0.55m

#### UNITED ARAB EMIRATES

KALBA	0620Z	08Sep2016	4.95m
ZIGGHY BAY	0634Z	08Sep2016	4.72m

#### YEMEN

SOCOTRA ISLAND SOUTH	0826Z	08Sep2016	1.71m
AL GHAYDAH AIRPORT	0834Z	08Sep2016	1.84m
HUSWAYN	0842Z	08Sep2016	1.25m
SOCOTRA ISLAND NORTH	0846Z	08Sep2016	1.19m
SOCOTRA ISLAND WEST	0850Z	08Sep2016	1.75m

ITAB	0858Z	08Sep2016	1.18m
AL QUMRAH	0912Z	08Sep2016	1.07m
HAMI	0916Z	08Sep2016	1.25m
AL MUKALLA	0922Z	08Sep2016	1.41m
BROM MAYFA	0926Z	08Sep2016	1.19m
YEMEN	0946Z	08Sep2016	0.86m
HISN BALID	0950Z	08Sep2016	1.07m
AHWAR	1004Z	08Sep2016	0.98m
KHANFAR	1022Z	08Sep2016	1.17m
BIR JABIR	1022Z	08Sep2016	1.09m
ADEN	1038Z	08Sep2016	0.92m
QAWAH	1058Z	08Sep2016	1.39m

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
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TEST TSUNAMI BULLETIN NUMBER 5
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 0735 UTC Thursday 08 September 2016
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```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach  
are not shown.

The list is grouped by country (alphabetic order) and ordered  
according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those  
below, and the initial wave may not be the largest. A tsunami is a  
series of waves and the time between successive waves can be five  
minutes to one hour.

The threat is deemed to have passed two hours after the forecast time  
for last exceedance of the 0.5m threat threshold for a zone. As local  
conditions can cause a wide variation in tsunami wave action,  
CANCELLATION of national warnings and ALL CLEAR determination must be  
made by national/state/local authorities.

AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z	08Sep2016	0.59m
BORROW ISLAND	1756Z	08Sep2016	0.51m
PORT DENISON	2324Z	08Sep2016	0.51m

BANGLADESH

COXS BAZAR	2144Z	08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z	09Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1058Z	08Sep2016	1.80m
NW EGMONT ISLAND	1108Z	08Sep2016	1.64m
DIEGO GARCIA	1138Z	08Sep2016	1.27m

COMOROS

BAMBAO	1220Z	08Sep2016	0.72m
DZAOUDZI	1226Z	08Sep2016	0.60m
FOMBONI	1228Z	08Sep2016	0.75m
CHEZANI	1334Z	08Sep2016	0.61m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	08Sep2016	2.42m
NW ARTA	1108Z	08Sep2016	2.86m

FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z	08Sep2016	0.99m
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INDIA

MANDVI	0712Z	08Sep2016	3.20m
PORBANDAR	0752Z	08Sep2016	2.01m
DWARKA	0756Z	08Sep2016	2.69m
VERAVAL	0810Z	08Sep2016	2.03m
AGATTI	0848Z	08Sep2016	2.86m
KAVARATTI	0856Z	08Sep2016	1.83m
MALVAN BAY	0900Z	08Sep2016	1.67m
AMINI	0900Z	08Sep2016	2.34m
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ANDROTH	0912Z	08Sep2016	2.40m
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MANGALORE	0940Z	08Sep2016	1.93m
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FARAHALANA	1232Z	08Sep2016	0.63m
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TOAMASINA	1342Z	08Sep2016	0.53m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
FENOARIVO ATSINANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
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FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

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GOIDHOO	0928Z	08Sep2016	2.22m
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NILANDHOO	0950Z	08Sep2016	1.99m
DHIYAMIGILI	0958Z	08Sep2016	1.87m
MALE	1004Z	08Sep2016	1.24m
THINADHOO	1012Z	08Sep2016	1.76m
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MOZAMBIQUE

QUITERAJO	1252Z	08Sep2016	0.54m
MAGANJA	1300Z	08Sep2016	0.54m
TAVARI	1304Z	08Sep2016	0.54m
LURIO	1306Z	08Sep2016	0.61m
MURREBUE	1306Z	08Sep2016	0.57m
MERONVI	1308Z	08Sep2016	0.54m
NANGATA	1310Z	08Sep2016	0.58m
MINHAUINE	1312Z	08Sep2016	0.60m
NHANGAU	0422Z	09Sep2016	0.54m

OMAN

BARKA	0610Z	08Sep2016	16.49m
MUSCAT	0610Z	08Sep2016	12.59m
AL KHABURAH	0614Z	08Sep2016	10.92m
QALHAT	0616Z	08Sep2016	10.60m
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AL ASHKHARAH	0636Z	08Sep2016	5.12m
MUSANDAM	0642Z	08Sep2016	5.07m
ABU GHALAT	0652Z	08Sep2016	3.45m
MASIRAH	0654Z	08Sep2016	3.06m
MANADHIF	0708Z	08Sep2016	2.33m
JUWAYRAH	0720Z	08Sep2016	2.06m
AL DUQM	0728Z	08Sep2016	2.29m
SHARBTHAT	0744Z	08Sep2016	1.78m
JUZUR AL HALANIYAT	0746Z	08Sep2016	1.85m
HASIK	0754Z	08Sep2016	1.90m
AL JAZIR	0756Z	08Sep2016	1.71m
MIRBAT	0800Z	08Sep2016	1.41m
SALALAH	0808Z	08Sep2016	1.66m
DHALKUT	0820Z	08Sep2016	1.49m

PAKISTAN

BAGAR	0600Z	08Sep2016	7.76m
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ORMARA	0600Z	08Sep2016	11.71m
KUND MALIR BEACH- MAKRAH HIGHWAY	0600Z	08Sep2016	4.21m
JIWANI	0600Z	08Sep2016	9.50m
WINDER	0630Z	08Sep2016	5.15m
KARACHI	0636Z	08Sep2016	4.04m
SINDH	0708Z	08Sep2016	3.30m

REUNION

SAINT - JOSEPH	1324Z	08Sep2016	0.80m
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SEYCHELLES

TAKAMAKA	1036Z	08Sep2016	1.95m
REMIRE ISLAND	1056Z	08Sep2016	0.97m
FREGATE ISLAND	1106Z	08Sep2016	1.97m
ILE DESROCHES	1108Z	08Sep2016	0.77m
ALPHONSE ISLAND	1114Z	08Sep2016	0.54m
COETIVY ISLAND	1122Z	08Sep2016	0.88m
PLATTE ISLAND	1128Z	08Sep2016	0.61m
ASTOVE ISLAND	1144Z	08Sep2016	0.61m
ALDABRA	1146Z	08Sep2016	0.65m
FARQUHAR GROUP	1230Z	08Sep2016	0.54m

SOMALIA

CAPE GUARDAFUI	0914Z	08Sep2016	1.06m
HAFUN	0918Z	08Sep2016	1.05m
ABO	0922Z	08Sep2016	1.08m
TOOXIN	0922Z	08Sep2016	1.60m
QANDALA	0926Z	08Sep2016	1.14m

DARIMOH	0928Z	08Sep2016	0.97m
ISKUSHUBAN	0928Z	08Sep2016	1.02m
BANDARBEYLA	0928Z	08Sep2016	0.89m
HURDYO	0934Z	08Sep2016	0.98m
EYL	0938Z	08Sep2016	1.20m
HADAAFTIMO	0938Z	08Sep2016	1.11m
BOSASO	0942Z	08Sep2016	1.25m
JARIIBAN	0950Z	08Sep2016	1.14m
GALDOGOB	0952Z	08Sep2016	1.00m
GALGALA	0956Z	08Sep2016	1.12m
NORTHERN HOBYO	1000Z	08Sep2016	0.85m
SOUTHERN HOBYO	1002Z	08Sep2016	0.81m
MAYDH	1006Z	08Sep2016	1.29m
KABURA	1014Z	08Sep2016	1.28m
XARARDHEERE	1018Z	08Sep2016	0.86m
CEEL DHEER	1022Z	08Sep2016	0.75m
ANTERAL	1022Z	08Sep2016	1.10m
MAREEG	1032Z	08Sep2016	0.68m
BERBERA	1036Z	08Sep2016	1.32m
ITALA	1040Z	08Sep2016	0.63m
CEELBUUR	1040Z	08Sep2016	0.71m
UARSCIECH	1046Z	08Sep2016	0.61m
BAKI	1048Z	08Sep2016	1.56m
SAYLAC	1052Z	08Sep2016	1.92m
MUQDISHO	1054Z	08Sep2016	0.55m
BEYNAX BARRE	1104Z	08Sep2016	0.60m
BARAAWE	1110Z	08Sep2016	0.68m
LOYADO	1114Z	08Sep2016	1.18m
JILIB	1120Z	08Sep2016	0.65m
TURDHO	1130Z	08Sep2016	0.54m
KISMAAYO	1136Z	08Sep2016	0.55m
KAAMBOONI	1144Z	08Sep2016	0.59m
NE BEERNAASI	1150Z	08Sep2016	0.58m

#### SRI LANKA

COLOMBO	1050Z	08Sep2016	0.64m
HIKKADUWA	1052Z	08Sep2016	0.58m
MATARA	1056Z	08Sep2016	0.56m
NEGOMBO	1100Z	08Sep2016	0.63m
MUNDAL LAKE	1100Z	08Sep2016	0.56m
MANNAR ISLAND	1156Z	08Sep2016	0.53m

#### TANZANIA

ZANZIBAR	1228Z	08Sep2016	0.62m
KUTANI	1230Z	08Sep2016	0.58m
MSASANI	1234Z	08Sep2016	0.60m
SONGO MNARA	1236Z	08Sep2016	0.65m
RUUVU	1236Z	08Sep2016	0.63m
BOMALANDNI	1236Z	08Sep2016	0.93m
VUMBA	1238Z	08Sep2016	0.76m
MADANGWA	1240Z	08Sep2016	0.65m
VUMBI	1246Z	08Sep2016	0.85m
GAZIJA	1248Z	08Sep2016	0.69m
JIMBO	1258Z	08Sep2016	0.66m
SONGO SONGO ISLAND	1302Z	08Sep2016	0.54m
JAJA	1304Z	08Sep2016	0.55m

#### UNITED ARAB EMIRATES

KALBA	0620Z	08Sep2016	4.95m
ZIGGHY BAY	0634Z	08Sep2016	4.72m

#### YEMEN

SOCOTRA ISLAND SOUTH	0826Z	08Sep2016	1.71m
AL GHAYDAH AIRPORT	0834Z	08Sep2016	1.84m

HUSWAYN	0842Z	08Sep2016	1.25m
SOCOTRA ISLAND NORTH	0846Z	08Sep2016	1.19m
SOCOTRA ISLAND WEST	0850Z	08Sep2016	1.75m
ITAB	0858Z	08Sep2016	1.18m
AL QUMRAH	0912Z	08Sep2016	1.07m
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AL MUKALLA	0922Z	08Sep2016	1.41m
BROM MAYFA	0926Z	08Sep2016	1.19m
YEMEN	0946Z	08Sep2016	0.86m
HISN BALID	0950Z	08Sep2016	1.07m
AHWAR	1004Z	08Sep2016	0.98m
KHANFAR	1022Z	08Sep2016	1.17m
BIR JABIR	1022Z	08Sep2016	1.09m
ADEN	1038Z	08Sep2016	0.92m
QAWAH	1058Z	08Sep2016	1.39m

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####



```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

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-----
TEST TSUNAMI BULLETIN NUMBER 6
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 0835 UTC Thursday 08 September 2016
-----
```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach  
are not shown.

The list is grouped by country (alphabetic order) and ordered  
according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those  
below, and the initial wave may not be the largest. A tsunami is a  
series of waves and the time between successive waves can be five  
minutes to one hour.

The threat is deemed to have passed two hours after the forecast time  
for last exceedance of the 0.5m threat threshold for a zone. As local  
conditions can cause a wide variation in tsunami wave action,  
CANCELLATION of national warnings and ALL CLEAR determination must be  
made by national/state/local authorities.

AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z	08Sep2016	0.59m
BORROW ISLAND	1756Z	08Sep2016	0.51m
PORT DENISON	2324Z	08Sep2016	0.51m

BANGLADESH

COXS BAZAR	2144Z	08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z	09Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1058Z	08Sep2016	1.80m
NW EGMONT ISLAND	1108Z	08Sep2016	1.64m
DIEGO GARCIA	1138Z	08Sep2016	1.27m

COMOROS

BAMBAO	1220Z	08Sep2016	0.72m
DZAOUDZI	1226Z	08Sep2016	0.60m
FOMBONI	1228Z	08Sep2016	0.75m
CHEZANI	1334Z	08Sep2016	0.61m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	08Sep2016	2.42m
NW ARTA	1108Z	08Sep2016	2.86m

FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z	08Sep2016	0.99m
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INDIA

MANDVI	0712Z	08Sep2016	3.20m
PORBANDAR	0752Z	08Sep2016	2.01m
DWARKA	0756Z	08Sep2016	2.69m
VERAVAL	0810Z	08Sep2016	2.03m
AGATTI	0848Z	08Sep2016	2.86m
KAVARATTI	0856Z	08Sep2016	1.83m
MALVAN BAY	0900Z	08Sep2016	1.67m
AMINI	0900Z	08Sep2016	2.34m
PANAJI	0912Z	08Sep2016	1.86m
ANDROTH	0912Z	08Sep2016	2.40m
ANJANWEL	0916Z	08Sep2016	1.76m
MINICOY	0916Z	08Sep2016	1.55m
KARWAR	0922Z	08Sep2016	1.76m
AMRELI	0928Z	08Sep2016	2.58m
MANGALORE	0940Z	08Sep2016	1.93m
ALIBAG PORT	0950Z	08Sep2016	1.35m
GULF OF KHAMBAT	0952Z	08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z	08Sep2016	1.75m
MADAYI KANNUR	0954Z	08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z	08Sep2016	1.84m
BEYPORE	1000Z	08Sep2016	2.04m
COCHIN	1000Z	08Sep2016	1.96m
MUMBAI	1002Z	08Sep2016	1.63m
QUILON	1004Z	08Sep2016	1.71m
TRIVANDRUM	1016Z	08Sep2016	1.32m
KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m
RAMESWARAM	1132Z	08Sep2016	0.57m

INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	08Sep2016	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	08Sep2016	0.53m
SUMUT NIAS B	1826Z	08Sep2016	0.54m

SUMUT MANDAILING-NATAL S	1944Z	08Sep2016	0.55m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2036Z	08Sep2016	0.51m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
BIR	0600Z	08Sep2016	5.99m
JASK	0600Z	08Sep2016	7.38m
VANAK	0600Z	08Sep2016	12.69m
PUSHT	0600Z	08Sep2016	7.88m
MISKI	0616Z	08Sep2016	3.77m
SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

KIWAYU	1144Z	08Sep2016	0.69m
LAMU	1210Z	08Sep2016	0.69m
TAKAUNGU	1220Z	08Sep2016	0.66m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m
MVULENI	1226Z	08Sep2016	0.74m

#### MADAGASCAR

GLORIOSO ISLANDS	1202Z	08Sep2016	0.58m
MANGAOKA	1210Z	08Sep2016	0.51m
AMPONDRABE	1210Z	08Sep2016	0.71m
VOHEMAR	1214Z	08Sep2016	0.73m
MAHALINA	1220Z	08Sep2016	0.87m
TSARABARIA	1226Z	08Sep2016	0.62m
FARAHALANA	1232Z	08Sep2016	0.63m
AMBOHITRALANANA	1238Z	08Sep2016	0.56m
NOSY MAKAMBY	1302Z	08Sep2016	0.64m
TOAMASINA	1342Z	08Sep2016	0.53m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
FENOARIVO ATSINANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m
DHIYAMIGILI	0958Z	08Sep2016	1.87m
MALE	1004Z	08Sep2016	1.24m
THINADHOO	1012Z	08Sep2016	1.76m
KOLHUFUSHI	1020Z	08Sep2016	1.31m
HITHADHOO	1022Z	08Sep2016	1.42m

#### MAURITIUS

AGALEGA ISLAND	1148Z	08Sep2016	1.08m
LA FERME	1312Z	08Sep2016	1.67m
GRANDE REVIERE SUD EST	1322Z	08Sep2016	0.78m
CARGADOS CARAJOS	1322Z	08Sep2016	0.82m

MOZAMBIQUE

QUITERAJO	1252Z	08Sep2016	0.54m
MAGANJA	1300Z	08Sep2016	0.54m
TAVARI	1304Z	08Sep2016	0.54m
LURIO	1306Z	08Sep2016	0.61m
MURREBUE	1306Z	08Sep2016	0.57m
MERONVI	1308Z	08Sep2016	0.54m
NANGATA	1310Z	08Sep2016	0.58m
MINHAUINE	1312Z	08Sep2016	0.60m
NHANGAU	0422Z	09Sep2016	0.54m

OMAN

BARKA	0610Z	08Sep2016	16.49m
MUSCAT	0610Z	08Sep2016	12.59m
AL KHABURAH	0614Z	08Sep2016	10.92m
QALHAT	0616Z	08Sep2016	10.60m
SUHAR	0618Z	08Sep2016	6.52m
RASS AL HADD	0622Z	08Sep2016	8.72m
AL ASHKHARAH	0636Z	08Sep2016	5.12m
MUSANDAM	0642Z	08Sep2016	5.07m
ABU GHALAT	0652Z	08Sep2016	3.45m
MASIRAH	0654Z	08Sep2016	3.06m
MANADHIF	0708Z	08Sep2016	2.33m
JUWAYRAH	0720Z	08Sep2016	2.06m
AL DUQM	0728Z	08Sep2016	2.29m
SHARBTHAT	0744Z	08Sep2016	1.78m
JUZUR AL HALANIYAT	0746Z	08Sep2016	1.85m
HASIK	0754Z	08Sep2016	1.90m
AL JAZIR	0756Z	08Sep2016	1.71m
MIRBAT	0800Z	08Sep2016	1.41m
SALALAH	0808Z	08Sep2016	1.66m
DHALKUT	0820Z	08Sep2016	1.49m

PAKISTAN

BAGAR	0600Z	08Sep2016	7.76m
PASNI	0600Z	08Sep2016	11.56m
ORMARA	0600Z	08Sep2016	11.71m
KUND MALIR BEACH- MAKRAH HIGHWAY	0600Z	08Sep2016	4.21m
JIWANI	0600Z	08Sep2016	9.50m
WINDER	0630Z	08Sep2016	5.15m
KARACHI	0636Z	08Sep2016	4.04m
SINDH	0708Z	08Sep2016	3.30m

REUNION

SAINT - JOSEPH	1324Z	08Sep2016	0.80m
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SEYCHELLES

TAKAMAKA	1036Z	08Sep2016	1.95m
REMIRE ISLAND	1056Z	08Sep2016	0.97m
FREGATE ISLAND	1106Z	08Sep2016	1.97m
ILE DESROCHES	1108Z	08Sep2016	0.77m
ALPHONSE ISLAND	1114Z	08Sep2016	0.54m
COETIVY ISLAND	1122Z	08Sep2016	0.88m
PLATTE ISLAND	1128Z	08Sep2016	0.61m
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CAPE GUARDAFUI	0914Z	08Sep2016	1.06m
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HADAAFTIMO	0938Z	08Sep2016	1.11m
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MUQDISHO	1054Z	08Sep2016	0.55m
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BARAAWE	1110Z	08Sep2016	0.68m
LOYADO	1114Z	08Sep2016	1.18m
JILIB	1120Z	08Sep2016	0.65m
TURDHO	1130Z	08Sep2016	0.54m
KISMAAYO	1136Z	08Sep2016	0.55m
KAAMBOONI	1144Z	08Sep2016	0.59m
NE BEERNAASI	1150Z	08Sep2016	0.58m

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NEGOMBO	1100Z	08Sep2016	0.63m
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BOMALANDNI	1236Z	08Sep2016	0.93m
VUMBA	1238Z	08Sep2016	0.76m
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JIMBO	1258Z	08Sep2016	0.66m
SONGO SONGO ISLAND	1302Z	08Sep2016	0.54m
JAJA	1304Z	08Sep2016	0.55m

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AL QUMRAH	0912Z	08Sep2016	1.07m
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AL MUKALLA	0922Z	08Sep2016	1.41m
BROM MAYFA	0926Z	08Sep2016	1.19m
YEMEN	0946Z	08Sep2016	0.86m
HISN BALID	0950Z	08Sep2016	1.07m
AHWAR	1004Z	08Sep2016	0.98m
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BIR JABIR	1022Z	08Sep2016	1.09m
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IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

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TEST TSUNAMI BULLETIN NUMBER 7
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 0934 UTC Thursday 08 September 2016
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```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
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#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

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Depth: 15km  
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Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC
Salalah	OMAN	16.90N	54.01E	0.90m	08 Sep 08:30 UTC
Minicoy	INDIA	8.30N	73.05E	0.60m	08 Sep 09:20 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach  
are not shown.

The list is grouped by country (alphabetic order) and ordered  
according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those  
below, and the initial wave may not be the largest. A tsunami is a  
series of waves and the time between successive waves can be five  
minutes to one hour.

The threat is deemed to have passed two hours after the forecast time  
for last exceedance of the 0.5m threat threshold for a zone. As local  
conditions can cause a wide variation in tsunami wave action,

CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z	08Sep2016	0.59m
BORROW ISLAND	1756Z	08Sep2016	0.51m
PORT DENISON	2324Z	08Sep2016	0.51m

BANGLADESH

COXS BAZAR	2144Z	08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z	09Sep2016	0.54m

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MORESBY ISLAND	1058Z	08Sep2016	1.80m
NW EGMONT ISLAND	1108Z	08Sep2016	1.64m
DIEGO GARCIA	1138Z	08Sep2016	1.27m

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BAMBAO	1220Z	08Sep2016	0.72m
DZAOUDZI	1226Z	08Sep2016	0.60m
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CHEZANI	1334Z	08Sep2016	0.61m

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MUHAMMAD ALI BIN FATHA SUMANA	1106Z	08Sep2016	2.42m
NW ARTA	1108Z	08Sep2016	2.86m

FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z	08Sep2016	0.99m
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INDIA

MANDVI	0712Z	08Sep2016	3.20m
PORBANDAR	0752Z	08Sep2016	2.01m
DWARKA	0756Z	08Sep2016	2.69m
VERAVAL	0810Z	08Sep2016	2.03m
AGATTI	0848Z	08Sep2016	2.86m
KAVARATTI	0856Z	08Sep2016	1.83m
MALVAN BAY	0900Z	08Sep2016	1.67m
AMINI	0900Z	08Sep2016	2.34m
PANAJI	0912Z	08Sep2016	1.86m
ANDROTH	0912Z	08Sep2016	2.40m
ANJANWEL	0916Z	08Sep2016	1.76m
MINICOY	0916Z	08Sep2016	1.55m
KARWAR	0922Z	08Sep2016	1.76m
AMRELI	0928Z	08Sep2016	2.58m
MANGALORE	0940Z	08Sep2016	1.93m
ALIBAG PORT	0950Z	08Sep2016	1.35m
GULF OF KHAMBAT	0952Z	08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z	08Sep2016	1.75m
MADAYI KANNUR	0954Z	08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z	08Sep2016	1.84m
BEYPORE	1000Z	08Sep2016	2.04m
COCHIN	1000Z	08Sep2016	1.96m
MUMBAI	1002Z	08Sep2016	1.63m
QUILON	1004Z	08Sep2016	1.71m
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KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m
RAMESWARAM	1132Z	08Sep2016	0.57m

INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	08Sep2016	0.62m
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BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	08Sep2016	0.53m
SUMUT NIAS B	1826Z	08Sep2016	0.54m
SUMUT MANDAILING-NATAL S	1944Z	08Sep2016	0.55m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2036Z	08Sep2016	0.51m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
BIR	0600Z	08Sep2016	5.99m
JASK	0600Z	08Sep2016	7.38m
VANAK	0600Z	08Sep2016	12.69m
PUSHT	0600Z	08Sep2016	7.88m
MISKI	0616Z	08Sep2016	3.77m
SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

KIWAYU	1144Z	08Sep2016	0.69m
LAMU	1210Z	08Sep2016	0.69m
TAKAUNGU	1220Z	08Sep2016	0.66m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m
MVULENI	1226Z	08Sep2016	0.74m

#### MADAGASCAR

GLORIOSO ISLANDS	1202Z	08Sep2016	0.58m
MANGAOKA	1210Z	08Sep2016	0.51m
AMPONDRABE	1210Z	08Sep2016	0.71m
VOHEMAR	1214Z	08Sep2016	0.73m
MAHALINA	1220Z	08Sep2016	0.87m
TSARABARIA	1226Z	08Sep2016	0.62m
FARAHALANA	1232Z	08Sep2016	0.63m
AMBOHITRALANANA	1238Z	08Sep2016	0.56m
NOSY MAKAMBY	1302Z	08Sep2016	0.64m
TOAMASINA	1342Z	08Sep2016	0.53m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
FENOARIVO ATSINANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m
DHIYAMIGILI	0958Z	08Sep2016	1.87m
MALE	1004Z	08Sep2016	1.24m
THINADHOO	1012Z	08Sep2016	1.76m
KOLHUFUSHI	1020Z	08Sep2016	1.31m
HITHADHOO	1022Z	08Sep2016	1.42m

#### MAURITIUS

AGALEGA ISLAND	1148Z	08Sep2016	1.08m
LA FERME	1312Z	08Sep2016	1.67m
GRANDE REVIERE SUD EST	1322Z	08Sep2016	0.78m

CARGADOS CARAJOS 1322Z 08Sep2016 0.82m

MOZAMBIQUE

QUITERAJO 1252Z 08Sep2016 0.54m  
MAGANJA 1300Z 08Sep2016 0.54m  
TAVARI 1304Z 08Sep2016 0.54m  
LURIO 1306Z 08Sep2016 0.61m  
MURREBUE 1306Z 08Sep2016 0.57m  
MERONVI 1308Z 08Sep2016 0.54m  
NANGATA 1310Z 08Sep2016 0.58m  
MINHAUINE 1312Z 08Sep2016 0.60m  
NHANGAU 0422Z 09Sep2016 0.54m

OMAN

BARKA 0610Z 08Sep2016 16.49m  
MUSCAT 0610Z 08Sep2016 12.59m  
AL KHABURAH 0614Z 08Sep2016 10.92m  
QALHAT 0616Z 08Sep2016 10.60m  
SUHAR 0618Z 08Sep2016 6.52m  
RASS AL HADD 0622Z 08Sep2016 8.72m  
AL ASHKHARAH 0636Z 08Sep2016 5.12m  
MUSANDAM 0642Z 08Sep2016 5.07m  
ABU GHALAT 0652Z 08Sep2016 3.45m  
MASIRAH 0654Z 08Sep2016 3.06m  
MANADHIF 0708Z 08Sep2016 2.33m  
JUWAYRAH 0720Z 08Sep2016 2.06m  
AL DUQM 0728Z 08Sep2016 2.29m  
SHARBTHAT 0744Z 08Sep2016 1.78m  
JUZUR AL HALANIYAT 0746Z 08Sep2016 1.85m  
HASIK 0754Z 08Sep2016 1.90m  
AL JAZIR 0756Z 08Sep2016 1.71m  
MIRBAT 0800Z 08Sep2016 1.41m  
SALALAH 0808Z 08Sep2016 1.66m  
DHALKUT 0820Z 08Sep2016 1.49m

PAKISTAN

BAGAR 0600Z 08Sep2016 7.76m  
PASNI 0600Z 08Sep2016 11.56m  
ORMARA 0600Z 08Sep2016 11.71m  
KUND MALIR BEACH- MAKHRAN HIGHWAY 0600Z 08Sep2016 4.21m  
JIWANI 0600Z 08Sep2016 9.50m  
WINDER 0630Z 08Sep2016 5.15m  
KARACHI 0636Z 08Sep2016 4.04m  
SINDH 0708Z 08Sep2016 3.30m

REUNION

SAINT - JOSEPH 1324Z 08Sep2016 0.80m

SEYCHELLES

TAKAMAKA 1036Z 08Sep2016 1.95m  
REMIRE ISLAND 1056Z 08Sep2016 0.97m  
FREGATE ISLAND 1106Z 08Sep2016 1.97m  
ILE DESROCHES 1108Z 08Sep2016 0.77m  
ALPHONSE ISLAND 1114Z 08Sep2016 0.54m  
COETIVY ISLAND 1122Z 08Sep2016 0.88m  
PLATTE ISLAND 1128Z 08Sep2016 0.61m  
ASTOVE ISLAND 1144Z 08Sep2016 0.61m  
ALDABRA 1146Z 08Sep2016 0.65m  
FARQUHAR GROUP 1230Z 08Sep2016 0.54m

SOMALIA

CAPE GUARDAFUI 0914Z 08Sep2016 1.06m  
HAFUN 0918Z 08Sep2016 1.05m  
ABO 0922Z 08Sep2016 1.08m

TOOXIN	0922Z	08Sep2016	1.60m
QANDALA	0926Z	08Sep2016	1.14m
DARIMOH	0928Z	08Sep2016	0.97m
ISKUSHUBAN	0928Z	08Sep2016	1.02m
BANDARBEYLA	0928Z	08Sep2016	0.89m
HURDYO	0934Z	08Sep2016	0.98m
EYL	0938Z	08Sep2016	1.20m
HADAAFTIMO	0938Z	08Sep2016	1.11m
BOSASO	0942Z	08Sep2016	1.25m
JARIIBAN	0950Z	08Sep2016	1.14m
GALDOGOB	0952Z	08Sep2016	1.00m
GALGALA	0956Z	08Sep2016	1.12m
NORTHERN HOBYO	1000Z	08Sep2016	0.85m
SOUTHERN HOBYO	1002Z	08Sep2016	0.81m
MAYDH	1006Z	08Sep2016	1.29m
KABURA	1014Z	08Sep2016	1.28m
XARARDHEERE	1018Z	08Sep2016	0.86m
CEEL DHEER	1022Z	08Sep2016	0.75m
ANTERAL	1022Z	08Sep2016	1.10m
MAREEG	1032Z	08Sep2016	0.68m
BERBERA	1036Z	08Sep2016	1.32m
ITALA	1040Z	08Sep2016	0.63m
CEELBUUR	1040Z	08Sep2016	0.71m
UARSCIECH	1046Z	08Sep2016	0.61m
BAKI	1048Z	08Sep2016	1.56m
SAYLAC	1052Z	08Sep2016	1.92m
MUQDISHO	1054Z	08Sep2016	0.55m
BEYNAX BARRE	1104Z	08Sep2016	0.60m
BARAAWE	1110Z	08Sep2016	0.68m
LOYADO	1114Z	08Sep2016	1.18m
JILIB	1120Z	08Sep2016	0.65m
TURDHO	1130Z	08Sep2016	0.54m
KISMAAYO	1136Z	08Sep2016	0.55m
KAAMBOONI	1144Z	08Sep2016	0.59m
NE BEERNAASI	1150Z	08Sep2016	0.58m

#### SRI LANKA

COLOMBO	1050Z	08Sep2016	0.64m
HIKKADUWA	1052Z	08Sep2016	0.58m
MATARA	1056Z	08Sep2016	0.56m
NEGOMBO	1100Z	08Sep2016	0.63m
MUNDAL LAKE	1100Z	08Sep2016	0.56m
MANNAR ISLAND	1156Z	08Sep2016	0.53m

#### TANZANIA

ZANZIBAR	1228Z	08Sep2016	0.62m
KUTANI	1230Z	08Sep2016	0.58m
MSASANI	1234Z	08Sep2016	0.60m
SONGO MNARA	1236Z	08Sep2016	0.65m
RUVU	1236Z	08Sep2016	0.63m
BOMALANDNI	1236Z	08Sep2016	0.93m
VUMBA	1238Z	08Sep2016	0.76m
MADANGWA	1240Z	08Sep2016	0.65m
VUMBI	1246Z	08Sep2016	0.85m
GAZIJA	1248Z	08Sep2016	0.69m
JIMBO	1258Z	08Sep2016	0.66m
SONGO SONGO ISLAND	1302Z	08Sep2016	0.54m
JAJA	1304Z	08Sep2016	0.55m

#### UNITED ARAB EMIRATES

KALBA	0620Z	08Sep2016	4.95m
ZIGGHY BAY	0634Z	08Sep2016	4.72m

#### YEMEN

SOCOTRA ISLAND SOUTH	0826Z	08Sep2016	1.71m
AL GHAYDAH AIRPORT	0834Z	08Sep2016	1.84m
HUSWAYN	0842Z	08Sep2016	1.25m
SOCOTRA ISLAND NORTH	0846Z	08Sep2016	1.19m
SOCOTRA ISLAND WEST	0850Z	08Sep2016	1.75m
ITAB	0858Z	08Sep2016	1.18m
AL QUMRAH	0912Z	08Sep2016	1.07m
HAMI	0916Z	08Sep2016	1.25m
AL MUKALLA	0922Z	08Sep2016	1.41m
BROM MAYFA	0926Z	08Sep2016	1.19m
YEMEN	0946Z	08Sep2016	0.86m
HISN BALID	0950Z	08Sep2016	1.07m
AHWAR	1004Z	08Sep2016	0.98m
KHANFAR	1022Z	08Sep2016	1.17m
BIR JABIR	1022Z	08Sep2016	1.09m
ADEN	1038Z	08Sep2016	0.92m
QAWAH	1058Z	08Sep2016	1.39m

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
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TEST TSUNAMI BULLETIN NUMBER 8
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 1035 UTC Thursday 08 September 2016
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
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Salalah	OMAN	16.90N	54.01E	0.90m	08 Sep 08:30 UTC
Minicoy	INDIA	8.30N	73.05E	0.60m	08 Sep 09:20 UTC
Mormugao	INDIA	15.40N	73.78E	1.70m	08 Sep 09:45 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.60m	08 Sep 09:45 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach  
are not shown.

The list is grouped by country (alphabetic order) and ordered  
according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those  
below, and the initial wave may not be the largest. A tsunami is a  
series of waves and the time between successive waves can be five  
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The threat is deemed to have passed two hours after the forecast time

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#### BRITISH INDIAN OCEAN TERRITORY

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SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m
DHIYAMIGILI	0958Z	08Sep2016	1.87m
MALE	1004Z	08Sep2016	1.24m
THINADHOO	1012Z	08Sep2016	1.76m
KOLHUFUSHI	1020Z	08Sep2016	1.31m
HITHADHOO	1022Z	08Sep2016	1.42m

MAURITIUS

AGALEGA ISLAND	1148Z	08Sep2016	1.08m
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LA FERME	1312Z	08Sep2016	1.67m
GRANDE REVIERE SUD EST	1322Z	08Sep2016	0.78m
CARGADOS CARAJOS	1322Z	08Sep2016	0.82m

MOZAMBIQUE

QUITERAJO	1252Z	08Sep2016	0.54m
MAGANJA	1300Z	08Sep2016	0.54m
TAVARI	1304Z	08Sep2016	0.54m
LURIO	1306Z	08Sep2016	0.61m
MURREBUE	1306Z	08Sep2016	0.57m
MERONVI	1308Z	08Sep2016	0.54m
NANGATA	1310Z	08Sep2016	0.58m
MINHAUINE	1312Z	08Sep2016	0.60m
NHANGAU	0422Z	09Sep2016	0.54m

OMAN

BARKA	0610Z	08Sep2016	16.49m
MUSCAT	0610Z	08Sep2016	12.59m
AL KHABURAH	0614Z	08Sep2016	10.92m
QALHAT	0616Z	08Sep2016	10.60m
SUHAR	0618Z	08Sep2016	6.52m
RASS AL HADD	0622Z	08Sep2016	8.72m
MUSANDAM	0642Z	08Sep2016	5.07m
ABU GHALAT	0652Z	08Sep2016	3.45m
MASIRAH	0654Z	08Sep2016	3.06m
MANADHIF	0708Z	08Sep2016	2.33m
JUWAYRAH	0720Z	08Sep2016	2.06m
AL DUQM	0728Z	08Sep2016	2.29m
SHARBTHAT	0744Z	08Sep2016	1.78m
JUZUR AL HALANIYAT	0746Z	08Sep2016	1.85m
HASIK	0754Z	08Sep2016	1.90m
AL JAZIR	0756Z	08Sep2016	1.71m
MIRBAT	0800Z	08Sep2016	1.41m
SALALAH	0808Z	08Sep2016	1.66m
DHALKUT	0820Z	08Sep2016	1.49m

PAKISTAN

BAGAR	0600Z	08Sep2016	7.76m
PASNI	0600Z	08Sep2016	11.56m
ORMARA	0600Z	08Sep2016	11.71m
KUND MALIR BEACH- MAKRAH HIGHWAY	0600Z	08Sep2016	4.21m
JIWANI	0600Z	08Sep2016	9.50m
WINDER	0630Z	08Sep2016	5.15m
KARACHI	0636Z	08Sep2016	4.04m
SINDH	0708Z	08Sep2016	3.30m

REUNION

SAINT - JOSEPH	1324Z	08Sep2016	0.80m
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SEYCHELLES

TAKAMAKA	1036Z	08Sep2016	1.95m
REMIRE ISLAND	1056Z	08Sep2016	0.97m
FREGATE ISLAND	1106Z	08Sep2016	1.97m
ILE DESROCHES	1108Z	08Sep2016	0.77m
ALPHONSE ISLAND	1114Z	08Sep2016	0.54m
COETIVY ISLAND	1122Z	08Sep2016	0.88m
PLATTE ISLAND	1128Z	08Sep2016	0.61m
ASTOVE ISLAND	1144Z	08Sep2016	0.61m
ALDABRA	1146Z	08Sep2016	0.65m
FARQUHAR GROUP	1230Z	08Sep2016	0.54m

SOMALIA

CAPE GUARDAFUI	0914Z	08Sep2016	1.06m
HAFUN	0918Z	08Sep2016	1.05m



ABO	0922Z	08Sep2016	1.08m
TOOXIN	0922Z	08Sep2016	1.60m
QANDALA	0926Z	08Sep2016	1.14m
DARIMOH	0928Z	08Sep2016	0.97m
ISKUSHUBAN	0928Z	08Sep2016	1.02m
BANDARBEYLA	0928Z	08Sep2016	0.89m
HURDYO	0934Z	08Sep2016	0.98m
EYL	0938Z	08Sep2016	1.20m
HADAAFTIMO	0938Z	08Sep2016	1.11m
BOSASO	0942Z	08Sep2016	1.25m
JARIIBAN	0950Z	08Sep2016	1.14m
GALDOGOB	0952Z	08Sep2016	1.00m
GALGALA	0956Z	08Sep2016	1.12m
NORTHERN HOBYO	1000Z	08Sep2016	0.85m
SOUTHERN HOBYO	1002Z	08Sep2016	0.81m
MAYDH	1006Z	08Sep2016	1.29m
KABURA	1014Z	08Sep2016	1.28m
XARARDHEERE	1018Z	08Sep2016	0.86m
CEEL DHEER	1022Z	08Sep2016	0.75m
ANTERAL	1022Z	08Sep2016	1.10m
MAREEG	1032Z	08Sep2016	0.68m
BERBERA	1036Z	08Sep2016	1.32m
ITALA	1040Z	08Sep2016	0.63m
CEELBUUR	1040Z	08Sep2016	0.71m
UARSCIECH	1046Z	08Sep2016	0.61m
BAKI	1048Z	08Sep2016	1.56m
SAYLAC	1052Z	08Sep2016	1.92m
MUQDISHO	1054Z	08Sep2016	0.55m
BEYNAX BARRE	1104Z	08Sep2016	0.60m
BARAAWE	1110Z	08Sep2016	0.68m
LOYADO	1114Z	08Sep2016	1.18m
JILIB	1120Z	08Sep2016	0.65m
TURDHO	1130Z	08Sep2016	0.54m
KISMAAYO	1136Z	08Sep2016	0.55m
KAAMBOONI	1144Z	08Sep2016	0.59m
NE BEERNAASI	1150Z	08Sep2016	0.58m

#### SRI LANKA

COLOMBO	1050Z	08Sep2016	0.64m
HIKKADUWA	1052Z	08Sep2016	0.58m
MATARA	1056Z	08Sep2016	0.56m
NEGOMBO	1100Z	08Sep2016	0.63m
MUNDAL LAKE	1100Z	08Sep2016	0.56m
MANNAR ISLAND	1156Z	08Sep2016	0.53m

#### TANZANIA

ZANZIBAR	1228Z	08Sep2016	0.62m
KUTANI	1230Z	08Sep2016	0.58m
MSASANI	1234Z	08Sep2016	0.60m
SONGO MNARA	1236Z	08Sep2016	0.65m
RUVU	1236Z	08Sep2016	0.63m
BOMALANDNI	1236Z	08Sep2016	0.93m
VUMBA	1238Z	08Sep2016	0.76m
MADANGWA	1240Z	08Sep2016	0.65m
VUMBI	1246Z	08Sep2016	0.85m
GAZIJA	1248Z	08Sep2016	0.69m
JIMBO	1258Z	08Sep2016	0.66m
SONGO SONGO ISLAND	1302Z	08Sep2016	0.54m
JAJA	1304Z	08Sep2016	0.55m

#### UNITED ARAB EMIRATES

KALBA	0620Z	08Sep2016	4.95m
ZIGGHY BAY	0634Z	08Sep2016	4.72m

YEMEN			
SOCOTRA ISLAND SOUTH	0826Z	08Sep2016	1.71m
AL GHAYDAH AIRPORT	0834Z	08Sep2016	1.84m
HUSWAYN	0842Z	08Sep2016	1.25m
SOCOTRA ISLAND NORTH	0846Z	08Sep2016	1.19m
SOCOTRA ISLAND WEST	0850Z	08Sep2016	1.75m
ITAB	0858Z	08Sep2016	1.18m
AL QUMRAH	0912Z	08Sep2016	1.07m
HAMI	0916Z	08Sep2016	1.25m
AL MUKALLA	0922Z	08Sep2016	1.41m
BROM MAYFA	0926Z	08Sep2016	1.19m
YEMEN	0946Z	08Sep2016	0.86m
HISN BALID	0950Z	08Sep2016	1.07m
AHWAR	1004Z	08Sep2016	0.98m
KHANFAR	1022Z	08Sep2016	1.17m
BIR JABIR	1022Z	08Sep2016	1.09m
ADEN	1038Z	08Sep2016	0.92m
QAWAH	1058Z	08Sep2016	1.39m

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

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#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

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TEST TSUNAMI BULLETIN NUMBER 9
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 1134 UTC Thursday 08 September 2016
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```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC
Salalah	OMAN	16.90N	54.01E	0.90m	08 Sep 08:30 UTC
Minicoy	INDIA	8.30N	73.05E	0.60m	08 Sep 09:20 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.60m	08 Sep 09:45 UTC
Mormugao	INDIA	15.40N	73.78E	1.70m	08 Sep 09:45 UTC
Male	MALDIVES	4.20N	73.53E	0.40m	08 Sep 10:20 UTC
Cochin	INDIA	10.00N	76.17E	1.40m	08 Sep 10:20 UTC
Gan	MALDIVES	0.70S	73.15E	0.50m	08 Sep 10:30 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.90m	08 Sep 10:45 UTC
Aden	YEMEN	12.80N	44.97E	0.90m	08 Sep 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.32m	08 Sep 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	08 Sep 11:15 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach  
are not shown.

The list is grouped by country (alphabetic order) and ordered  
according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z 08Sep2016	0.59m
BORROW ISLAND	1756Z 08Sep2016	0.51m
PORT DENISON	2324Z 08Sep2016	0.51m

#### BANGLADESH

COXS BAZAR	2144Z 08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z 09Sep2016	0.54m

#### BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1058Z 08Sep2016	1.80m
NW EGMONT ISLAND	1108Z 08Sep2016	1.64m
DIEGO GARCIA	1138Z 08Sep2016	1.27m

#### COMOROS

BAMBAO	1220Z 08Sep2016	0.72m
DZAOUDZI	1226Z 08Sep2016	0.60m
FOMBONI	1228Z 08Sep2016	0.75m
CHEZANI	1334Z 08Sep2016	0.61m

#### DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z 08Sep2016	2.42m
NW ARTA	1108Z 08Sep2016	2.86m

#### FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z 08Sep2016	0.99m
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#### INDIA

MANDVI	0712Z 08Sep2016	3.20m
PORBANDAR	0752Z 08Sep2016	2.01m
DWARKA	0756Z 08Sep2016	2.69m
VERAVAL	0810Z 08Sep2016	2.03m
AGATTI	0848Z 08Sep2016	2.86m
KAVARATTI	0856Z 08Sep2016	1.83m
MALVAN BAY	0900Z 08Sep2016	1.67m
AMINI	0900Z 08Sep2016	2.34m
PANAJI	0912Z 08Sep2016	1.86m
ANDROTH	0912Z 08Sep2016	2.40m
ANJANWEL	0916Z 08Sep2016	1.76m
MINICOY	0916Z 08Sep2016	1.55m
KARWAR	0922Z 08Sep2016	1.76m
AMRELI	0928Z 08Sep2016	2.58m
MANGALORE	0940Z 08Sep2016	1.93m
ALIBAG PORT	0950Z 08Sep2016	1.35m
GULF OF KHAMBAT	0952Z 08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z 08Sep2016	1.75m
MADAYI KANNUR	0954Z 08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z 08Sep2016	1.84m
BEYPORE	1000Z 08Sep2016	2.04m
COCHIN	1000Z 08Sep2016	1.96m
MUMBAI	1002Z 08Sep2016	1.63m

QUILON	1004Z	08Sep2016	1.71m
TRIVANDRUM	1016Z	08Sep2016	1.32m
KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m
RAMESWARAM	1132Z	08Sep2016	0.57m

#### INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	08Sep2016	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	08Sep2016	0.53m
SUMUT NIAS B	1826Z	08Sep2016	0.54m
SUMUT MANDAILING-NATAL S	1944Z	08Sep2016	0.55m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2036Z	08Sep2016	0.51m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
BIR	0600Z	08Sep2016	5.99m
JASK	0600Z	08Sep2016	7.38m
VANAK	0600Z	08Sep2016	12.69m
PUSHT	0600Z	08Sep2016	7.88m
MISKI	0616Z	08Sep2016	3.77m
SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

KIWAYU	1144Z	08Sep2016	0.69m
LAMU	1210Z	08Sep2016	0.69m
TAKAUNGU	1220Z	08Sep2016	0.66m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m
MVULENI	1226Z	08Sep2016	0.74m

#### MADAGASCAR

GLORIOSO ISLANDS	1202Z	08Sep2016	0.58m
MANGAOKA	1210Z	08Sep2016	0.51m
AMPONDRABE	1210Z	08Sep2016	0.71m
VOHEMAR	1214Z	08Sep2016	0.73m
MAHALINA	1220Z	08Sep2016	0.87m
TSARABARIA	1226Z	08Sep2016	0.62m
FARAHALANA	1232Z	08Sep2016	0.63m
AMBOHITRALANANA	1238Z	08Sep2016	0.56m
NOSY MAKAMBY	1302Z	08Sep2016	0.64m
TOAMASINA	1342Z	08Sep2016	0.53m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
FENOARIVO AT SINANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m
DHIYAMIGILI	0958Z	08Sep2016	1.87m

MALE	1004Z	08Sep2016	1.24m
THINADHOO	1012Z	08Sep2016	1.76m
KOLHUFUSHI	1020Z	08Sep2016	1.31m
HITHADHOO	1022Z	08Sep2016	1.42m

MAURITIUS			
AGALEGA ISLAND	1148Z	08Sep2016	1.08m
LA FERME	1312Z	08Sep2016	1.67m
GRANDE REVIERE SUD EST	1322Z	08Sep2016	0.78m
CARGADOS CARAJOS	1322Z	08Sep2016	0.82m

MOZAMBIQUE			
QUITERAJO	1252Z	08Sep2016	0.54m
MAGANJA	1300Z	08Sep2016	0.54m
TAVARI	1304Z	08Sep2016	0.54m
LURIO	1306Z	08Sep2016	0.61m
MURREBUE	1306Z	08Sep2016	0.57m
MERONVI	1308Z	08Sep2016	0.54m
NANGATA	1310Z	08Sep2016	0.58m
MINHAUINE	1312Z	08Sep2016	0.60m
NHANGAU	0422Z	09Sep2016	0.54m

OMAN			
MUSCAT	0610Z	08Sep2016	12.59m
BARKA	0610Z	08Sep2016	16.49m
AL KHABURAH	0614Z	08Sep2016	10.92m
QALHAT	0616Z	08Sep2016	10.60m
SUHAR	0618Z	08Sep2016	6.52m
RASS AL HADD	0622Z	08Sep2016	8.72m
MUSANDAM	0642Z	08Sep2016	5.07m
ABU GHALAT	0652Z	08Sep2016	3.45m
MANADHIF	0708Z	08Sep2016	2.33m
JUWAYRAH	0720Z	08Sep2016	2.06m
AL DUQM	0728Z	08Sep2016	2.29m
SHARBTHAT	0744Z	08Sep2016	1.78m
JUZUR AL HALANIYAT	0746Z	08Sep2016	1.85m
HASIK	0754Z	08Sep2016	1.90m
AL JAZIR	0756Z	08Sep2016	1.71m
SALALAH	0808Z	08Sep2016	1.66m
DHALKUT	0820Z	08Sep2016	1.49m

PAKISTAN			
BAGAR	0600Z	08Sep2016	7.76m
PASNI	0600Z	08Sep2016	11.56m
ORMARA	0600Z	08Sep2016	11.71m
KUND MALIR BEACH- MAKRAH HIGHWAY	0600Z	08Sep2016	4.21m
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WINDER	0630Z	08Sep2016	5.15m
KARACHI	0636Z	08Sep2016	4.04m
SINDH	0708Z	08Sep2016	3.30m

REUNION			
SAINT - JOSEPH	1324Z	08Sep2016	0.80m

SEYCHELLES			
TAKAMAKA	1036Z	08Sep2016	1.95m
REMIRE ISLAND	1056Z	08Sep2016	0.97m
FREGATE ISLAND	1106Z	08Sep2016	1.97m
ILE DESROCHES	1108Z	08Sep2016	0.77m
ALPHONSE ISLAND	1114Z	08Sep2016	0.54m
COETIVY ISLAND	1122Z	08Sep2016	0.88m
PLATTE ISLAND	1128Z	08Sep2016	0.61m
ASTOVE ISLAND	1144Z	08Sep2016	0.61m
ALDABRA	1146Z	08Sep2016	0.65m

FARQUHAR GROUP 1230Z 08Sep2016 0.54m

SOMALIA

CAPE GUARDAFUI	0914Z	08Sep2016	1.06m
HAFUN	0918Z	08Sep2016	1.05m
ABO	0922Z	08Sep2016	1.08m
TOOXIN	0922Z	08Sep2016	1.60m
QANDALA	0926Z	08Sep2016	1.14m
DARIMOH	0928Z	08Sep2016	0.97m
ISKUSHUBAN	0928Z	08Sep2016	1.02m
BANDARBEYLA	0928Z	08Sep2016	0.89m
HURDYO	0934Z	08Sep2016	0.98m
EYL	0938Z	08Sep2016	1.20m
HADAAFTIMO	0938Z	08Sep2016	1.11m
BOSASO	0942Z	08Sep2016	1.25m
JARIIBAN	0950Z	08Sep2016	1.14m
GALDOGOB	0952Z	08Sep2016	1.00m
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NORTHERN HOBYO	1000Z	08Sep2016	0.85m
SOUTHERN HOBYO	1002Z	08Sep2016	0.81m
MAYDH	1006Z	08Sep2016	1.29m
KABURA	1014Z	08Sep2016	1.28m
XARARDHEERE	1018Z	08Sep2016	0.86m
CEEL DHEER	1022Z	08Sep2016	0.75m
ANTERAL	1022Z	08Sep2016	1.10m
MAREEG	1032Z	08Sep2016	0.68m
BERBERA	1036Z	08Sep2016	1.32m
ITALA	1040Z	08Sep2016	0.63m
CEELBUUR	1040Z	08Sep2016	0.71m
UARSCIECH	1046Z	08Sep2016	0.61m
BAKI	1048Z	08Sep2016	1.56m
SAYLAC	1052Z	08Sep2016	1.92m
MUQDISHO	1054Z	08Sep2016	0.55m
BEYNAX BARRE	1104Z	08Sep2016	0.60m
BARAAWE	1110Z	08Sep2016	0.68m
LOYADO	1114Z	08Sep2016	1.18m
JILIB	1120Z	08Sep2016	0.65m
TURDHO	1130Z	08Sep2016	0.54m
KISMAAYO	1136Z	08Sep2016	0.55m
KAAMBOONI	1144Z	08Sep2016	0.59m
NE BEERNAASI	1150Z	08Sep2016	0.58m

SRI LANKA

COLOMBO	1050Z	08Sep2016	0.64m
HIKKADUWA	1052Z	08Sep2016	0.58m
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NEGOMBO	1100Z	08Sep2016	0.63m
MUNDAL LAKE	1100Z	08Sep2016	0.56m
MANNAR ISLAND	1156Z	08Sep2016	0.53m

TANZANIA

ZANZIBAR	1228Z	08Sep2016	0.62m
KUTANI	1230Z	08Sep2016	0.58m
MSASANI	1234Z	08Sep2016	0.60m
SONGO MNARA	1236Z	08Sep2016	0.65m
RUUU	1236Z	08Sep2016	0.63m
BOMALANDNI	1236Z	08Sep2016	0.93m
VUMBA	1238Z	08Sep2016	0.76m
MADANGWA	1240Z	08Sep2016	0.65m
VUMBI	1246Z	08Sep2016	0.85m
GAZIJA	1248Z	08Sep2016	0.69m
JIMBO	1258Z	08Sep2016	0.66m
SONGO SONGO ISLAND	1302Z	08Sep2016	0.54m
JAJA	1304Z	08Sep2016	0.55m

UNITED ARAB EMIRATES

KALBA 0620Z 08Sep2016 4.95m  
ZIGGHY BAY 0634Z 08Sep2016 4.72m

YEMEN

AL GHAYDAH AIRPORT 0834Z 08Sep2016 1.84m  
HUSWAYN 0842Z 08Sep2016 1.25m  
SOCOTRA ISLAND NORTH 0846Z 08Sep2016 1.19m  
ITAB 0858Z 08Sep2016 1.18m  
AL QUMRAH 0912Z 08Sep2016 1.07m  
HAMI 0916Z 08Sep2016 1.25m  
AL MUKALLA 0922Z 08Sep2016 1.41m  
BROM MAYFA 0926Z 08Sep2016 1.19m  
YEMEN 0946Z 08Sep2016 0.86m  
HISN BALID 0950Z 08Sep2016 1.07m  
AHWAR 1004Z 08Sep2016 0.98m  
KHANFAR 1022Z 08Sep2016 1.17m  
BIR JABIR 1022Z 08Sep2016 1.09m  
ADEN 1038Z 08Sep2016 0.92m  
QAWAH 1058Z 08Sep2016 1.39m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

-----

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####



```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
-----
TEST TSUNAMI BULLETIN NUMBER 10
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 1235 UTC Thursday 08 September 2016
-----
```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC
Salalah	OMAN	16.90N	54.01E	0.90m	08 Sep 08:30 UTC
Minicoy	INDIA	8.30N	73.05E	0.60m	08 Sep 09:20 UTC
Mormugao	INDIA	15.40N	73.78E	1.70m	08 Sep 09:45 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.60m	08 Sep 09:45 UTC
Male	MALDIVES	4.20N	73.53E	0.40m	08 Sep 10:20 UTC
Cochin	INDIA	10.00N	76.17E	1.40m	08 Sep 10:20 UTC
Gan	MALDIVES	0.70S	73.15E	0.50m	08 Sep 10:30 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.90m	08 Sep 10:45 UTC
Aden	YEMEN	12.80N	44.97E	0.90m	08 Sep 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.32m	08 Sep 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	08 Sep 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.28m	08 Sep 11:45 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	08 Sep 11:45 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.35m	08 Sep 11:50 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	08 Sep 12:10 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach

are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z 08Sep2016	0.59m
BORROW ISLAND	1756Z 08Sep2016	0.51m
PORT DENISON	2324Z 08Sep2016	0.51m

#### BANGLADESH

COXS BAZAR	2144Z 08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z 09Sep2016	0.54m

#### BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1058Z 08Sep2016	1.80m
NW EGMONT ISLAND	1108Z 08Sep2016	1.64m
DIEGO GARCIA	1138Z 08Sep2016	1.27m

#### COMOROS

BAMBAO	1220Z 08Sep2016	0.72m
DZAOUDZI	1226Z 08Sep2016	0.60m
FOMBONI	1228Z 08Sep2016	0.75m
CHEZANI	1334Z 08Sep2016	0.61m

#### DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z 08Sep2016	2.42m
NW ARTA	1108Z 08Sep2016	2.86m

#### FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z 08Sep2016	0.99m
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#### INDIA

MANDVI	0712Z 08Sep2016	3.20m
PORBANDAR	0752Z 08Sep2016	2.01m
DWARKA	0756Z 08Sep2016	2.69m
VERAVAL	0810Z 08Sep2016	2.03m
AMINI	0900Z 08Sep2016	2.34m
MALVAN BAY	0900Z 08Sep2016	1.67m
PANAJI	0912Z 08Sep2016	1.86m
ANDROTH	0912Z 08Sep2016	2.40m
ANJANWEL	0916Z 08Sep2016	1.76m
MINICOY	0916Z 08Sep2016	1.55m
KARWAR	0922Z 08Sep2016	1.76m
AMRELI	0928Z 08Sep2016	2.58m
MANGALORE	0940Z 08Sep2016	1.93m
ALIBAG PORT	0950Z 08Sep2016	1.35m
GULF OF KHAMBAT	0952Z 08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z 08Sep2016	1.75m
MADAYI KANNUR	0954Z 08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z 08Sep2016	1.84m
BEYPORE	1000Z 08Sep2016	2.04m

COCHIN	1000Z	08Sep2016	1.96m
MUMBAI	1002Z	08Sep2016	1.63m
QUILON	1004Z	08Sep2016	1.71m
TRIVANDRUM	1016Z	08Sep2016	1.32m
KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m
RAMESWARAM	1132Z	08Sep2016	0.57m

#### INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	08Sep2016	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	08Sep2016	0.53m
SUMUT NIAS B	1826Z	08Sep2016	0.54m
SUMUT MANDAILING-NATAL S	1944Z	08Sep2016	0.55m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2036Z	08Sep2016	0.51m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
BIR	0600Z	08Sep2016	5.99m
JASK	0600Z	08Sep2016	7.38m
VANAK	0600Z	08Sep2016	12.69m
PUSHT	0600Z	08Sep2016	7.88m
MISKI	0616Z	08Sep2016	3.77m
SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

KIWAYU	1144Z	08Sep2016	0.69m
LAMU	1210Z	08Sep2016	0.69m
TAKAUNGU	1220Z	08Sep2016	0.66m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m
MVULENI	1226Z	08Sep2016	0.74m

#### MADAGASCAR

GLORIOSO ISLANDS	1202Z	08Sep2016	0.58m
MANGAOKA	1210Z	08Sep2016	0.51m
AMPONDRABE	1210Z	08Sep2016	0.71m
VOHEMAR	1214Z	08Sep2016	0.73m
MAHALINA	1220Z	08Sep2016	0.87m
TSARABARIA	1226Z	08Sep2016	0.62m
FARAHALANA	1232Z	08Sep2016	0.63m
AMBOHITRALANANA	1238Z	08Sep2016	0.56m
NOSY MAKAMBY	1302Z	08Sep2016	0.64m
TOAMASINA	1342Z	08Sep2016	0.53m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
FENOARIVO AT SINANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m

NILANDHOO	0950Z	08Sep2016	1.99m
DHIYAMIGILI	0958Z	08Sep2016	1.87m
MALE	1004Z	08Sep2016	1.24m
THINADHOO	1012Z	08Sep2016	1.76m
KOLHUFUSHI	1020Z	08Sep2016	1.31m
HITHADHOO	1022Z	08Sep2016	1.42m

MAURITIUS			
AGALEGA ISLAND	1148Z	08Sep2016	1.08m
LA FERME	1312Z	08Sep2016	1.67m
GRANDE REVIERE SUD EST	1322Z	08Sep2016	0.78m
CARGADOS CARAJOS	1322Z	08Sep2016	0.82m

MOZAMBIQUE			
QUITERAJO	1252Z	08Sep2016	0.54m
MAGANJA	1300Z	08Sep2016	0.54m
TAVARI	1304Z	08Sep2016	0.54m
LURIO	1306Z	08Sep2016	0.61m
MURREBUE	1306Z	08Sep2016	0.57m
MERONVI	1308Z	08Sep2016	0.54m
NANGATA	1310Z	08Sep2016	0.58m
MINHAUINE	1312Z	08Sep2016	0.60m
NHANGAU	0422Z	09Sep2016	0.54m

OMAN			
MUSCAT	0610Z	08Sep2016	12.59m
BARKA	0610Z	08Sep2016	16.49m
AL KHABURAH	0614Z	08Sep2016	10.92m
QALHAT	0616Z	08Sep2016	10.60m
SUHAR	0618Z	08Sep2016	6.52m
RASS AL HADD	0622Z	08Sep2016	8.72m
MUSANDAM	0642Z	08Sep2016	5.07m
ABU GHALAT	0652Z	08Sep2016	3.45m
MANADHIF	0708Z	08Sep2016	2.33m
JUWAYRAH	0720Z	08Sep2016	2.06m
AL DUQM	0728Z	08Sep2016	2.29m
SHARBTHAT	0744Z	08Sep2016	1.78m
JUZUR AL HALANIYAT	0746Z	08Sep2016	1.85m
HASIK	0754Z	08Sep2016	1.90m
AL JAZIR	0756Z	08Sep2016	1.71m

PAKISTAN			
BAGAR	0600Z	08Sep2016	7.76m
PASNI	0600Z	08Sep2016	11.56m
ORMARA	0600Z	08Sep2016	11.71m
KUND MALIR BEACH- MAKRAH HIGHWAY	0600Z	08Sep2016	4.21m
JIWANI	0600Z	08Sep2016	9.50m
WINDER	0630Z	08Sep2016	5.15m
KARACHI	0636Z	08Sep2016	4.04m
SINDH	0708Z	08Sep2016	3.30m

REUNION			
SAINT - JOSEPH	1324Z	08Sep2016	0.80m

SEYCHELLES			
TAKAMAKA	1036Z	08Sep2016	1.95m
REMIRE ISLAND	1056Z	08Sep2016	0.97m
FREGATE ISLAND	1106Z	08Sep2016	1.97m
ILE DESROCHES	1108Z	08Sep2016	0.77m
ALPHONSE ISLAND	1114Z	08Sep2016	0.54m
COETIVY ISLAND	1122Z	08Sep2016	0.88m
PLATTE ISLAND	1128Z	08Sep2016	0.61m
ASTOVE ISLAND	1144Z	08Sep2016	0.61m
ALDABRA	1146Z	08Sep2016	0.65m

FARQUHAR GROUP 1230Z 08Sep2016 0.54m

SOMALIA

HAFUN	0918Z 08Sep2016	1.05m
TOOXIN	0922Z 08Sep2016	1.60m
QANDALA	0926Z 08Sep2016	1.14m
HURDYO	0934Z 08Sep2016	0.98m
EYL	0938Z 08Sep2016	1.20m
HADAAFTIMO	0938Z 08Sep2016	1.11m
GALDOGOB	0952Z 08Sep2016	1.00m
GALGALA	0956Z 08Sep2016	1.12m
NORTHERN HOBYO	1000Z 08Sep2016	0.85m
SOUTHERN HOBYO	1002Z 08Sep2016	0.81m
MAYDH	1006Z 08Sep2016	1.29m
KABURA	1014Z 08Sep2016	1.28m
XARARDHEERE	1018Z 08Sep2016	0.86m
ANTERAL	1022Z 08Sep2016	1.10m
CEEL DHEER	1022Z 08Sep2016	0.75m
MAREEG	1032Z 08Sep2016	0.68m
BERBERA	1036Z 08Sep2016	1.32m
CEELBUUR	1040Z 08Sep2016	0.71m
ITALA	1040Z 08Sep2016	0.63m
UARSCIECH	1046Z 08Sep2016	0.61m
BAKI	1048Z 08Sep2016	1.56m
SAYLAC	1052Z 08Sep2016	1.92m
MUQDISHO	1054Z 08Sep2016	0.55m
BEYNAX BARRE	1104Z 08Sep2016	0.60m
BARAAWE	1110Z 08Sep2016	0.68m
LOYADO	1114Z 08Sep2016	1.18m
JILIB	1120Z 08Sep2016	0.65m
TURDHO	1130Z 08Sep2016	0.54m
KISMAAYO	1136Z 08Sep2016	0.55m
KAAMBOONI	1144Z 08Sep2016	0.59m
NE BEERNAASI	1150Z 08Sep2016	0.58m

SRI LANKA

COLOMBO	1050Z 08Sep2016	0.64m
HIKKADUWA	1052Z 08Sep2016	0.58m
MATARA	1056Z 08Sep2016	0.56m
NEGOMBO	1100Z 08Sep2016	0.63m
MUNDAL LAKE	1100Z 08Sep2016	0.56m
MANNAR ISLAND	1156Z 08Sep2016	0.53m

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JAJA	1304Z 08Sep2016	0.55m

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HUSWAYN	0842Z	08Sep2016	1.25m
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QAWAH	1058Z	08Sep2016	1.39m

#### 4. ADVICE

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#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

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#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

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TEST TSUNAMI BULLETIN NUMBER 11
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 1335 UTC Thursday 08 September 2016
-----
```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

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Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
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Mormugao	INDIA	15.40N	73.78E	1.70m	08 Sep 09:45 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.60m	08 Sep 09:45 UTC
Male	MALDIVES	4.20N	73.53E	0.40m	08 Sep 10:20 UTC
Cochin	INDIA	10.00N	76.17E	1.40m	08 Sep 10:20 UTC
Gan	MALDIVES	0.70S	73.15E	0.50m	08 Sep 10:30 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.90m	08 Sep 10:45 UTC
Aden	YEMEN	12.80N	44.97E	0.90m	08 Sep 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.32m	08 Sep 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	08 Sep 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.28m	08 Sep 11:45 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	08 Sep 11:45 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.35m	08 Sep 11:50 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	08 Sep 12:10 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
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The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

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#### AUSTRALIA

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#### COMOROS

BAMBAO	1220Z 08Sep2016	0.72m
DZAOUDZI	1226Z 08Sep2016	0.60m
FOMBONI	1228Z 08Sep2016	0.75m
CHEZANI	1334Z 08Sep2016	0.61m

#### DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z 08Sep2016	2.42m
NW ARTA	1108Z 08Sep2016	2.86m

#### FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z 08Sep2016	0.99m
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#### INDIA

MANDVI	0712Z 08Sep2016	3.20m
PORBANDAR	0752Z 08Sep2016	2.01m
DWARKA	0756Z 08Sep2016	2.69m
VERAVAL	0810Z 08Sep2016	2.03m
AMINI	0900Z 08Sep2016	2.34m
MALVAN BAY	0900Z 08Sep2016	1.67m
PANAJI	0912Z 08Sep2016	1.86m
ANDROTH	0912Z 08Sep2016	2.40m
ANJANWEL	0916Z 08Sep2016	1.76m
MINICOY	0916Z 08Sep2016	1.55m
KARWAR	0922Z 08Sep2016	1.76m
AMRELI	0928Z 08Sep2016	2.58m
MANGALORE	0940Z 08Sep2016	1.93m
ALIBAG PORT	0950Z 08Sep2016	1.35m
GULF OF KHAMBAT	0952Z 08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z 08Sep2016	1.75m
MADAYI KANNUR	0954Z 08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z 08Sep2016	1.84m
BEYPORE	1000Z 08Sep2016	2.04m



COCHIN	1000Z	08Sep2016	1.96m
MUMBAI	1002Z	08Sep2016	1.63m
QUILON	1004Z	08Sep2016	1.71m
KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m
RAMESWARAM	1132Z	08Sep2016	0.57m

#### INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	08Sep2016	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	08Sep2016	0.53m
SUMUT NIAS B	1826Z	08Sep2016	0.54m
SUMUT MANDAILING-NATAL S	1944Z	08Sep2016	0.55m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2036Z	08Sep2016	0.51m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
BIR	0600Z	08Sep2016	5.99m
JASK	0600Z	08Sep2016	7.38m
VANAK	0600Z	08Sep2016	12.69m
PUSHT	0600Z	08Sep2016	7.88m
MISKI	0616Z	08Sep2016	3.77m
SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

KIWAYU	1144Z	08Sep2016	0.69m
LAMU	1210Z	08Sep2016	0.69m
TAKAUNGU	1220Z	08Sep2016	0.66m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m
MVULENI	1226Z	08Sep2016	0.74m

#### MADAGASCAR

GLORIOSO ISLANDS	1202Z	08Sep2016	0.58m
MANGAOKA	1210Z	08Sep2016	0.51m
AMPONDRABE	1210Z	08Sep2016	0.71m
VOHEMAR	1214Z	08Sep2016	0.73m
MAHALINA	1220Z	08Sep2016	0.87m
TSARABARIA	1226Z	08Sep2016	0.62m
FARAHALANA	1232Z	08Sep2016	0.63m
AMBOHITRALANANA	1238Z	08Sep2016	0.56m
NOSY MAKAMBY	1302Z	08Sep2016	0.64m
TOAMASINA	1342Z	08Sep2016	0.53m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
FENOARIVO AT SINANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m

MALE	1004Z 08Sep2016	1.24m
KOLHUFUSHI	1020Z 08Sep2016	1.31m

MAURITIUS		
AGALEGA ISLAND	1148Z 08Sep2016	1.08m
LA FERME	1312Z 08Sep2016	1.67m
GRANDE REVIERE SUD EST	1322Z 08Sep2016	0.78m
CARGADOS CARAJOS	1322Z 08Sep2016	0.82m

MOZAMBIQUE		
QUITERAJO	1252Z 08Sep2016	0.54m
MAGANJA	1300Z 08Sep2016	0.54m
TAVARI	1304Z 08Sep2016	0.54m
LURIO	1306Z 08Sep2016	0.61m
MURREBUE	1306Z 08Sep2016	0.57m
MERONVI	1308Z 08Sep2016	0.54m
NANGATA	1310Z 08Sep2016	0.58m
MINHAUINE	1312Z 08Sep2016	0.60m
NHANGAU	0422Z 09Sep2016	0.54m

OMAN		
MUSCAT	0610Z 08Sep2016	12.59m
BARKA	0610Z 08Sep2016	16.49m
AL KHABURAH	0614Z 08Sep2016	10.92m
QALHAT	0616Z 08Sep2016	10.60m
SUHAR	0618Z 08Sep2016	6.52m
RASS AL HADD	0622Z 08Sep2016	8.72m
MUSANDAM	0642Z 08Sep2016	5.07m
ABU GHALAT	0652Z 08Sep2016	3.45m
MANADHIF	0708Z 08Sep2016	2.33m
JUWAYRAH	0720Z 08Sep2016	2.06m
AL DUQM	0728Z 08Sep2016	2.29m
SHARBTHAT	0744Z 08Sep2016	1.78m
JUZUR AL HALANIYAT	0746Z 08Sep2016	1.85m
HASIK	0754Z 08Sep2016	1.90m
AL JAZIR	0756Z 08Sep2016	1.71m

PAKISTAN		
BAGAR	0600Z 08Sep2016	7.76m
PASNI	0600Z 08Sep2016	11.56m
ORMARA	0600Z 08Sep2016	11.71m
KUND MALIR BEACH- MAKHRAN HIGHWAY	0600Z 08Sep2016	4.21m
JIWANI	0600Z 08Sep2016	9.50m
WINDER	0630Z 08Sep2016	5.15m
KARACHI	0636Z 08Sep2016	4.04m
SINDH	0708Z 08Sep2016	3.30m

REUNION		
SAINT - JOSEPH	1324Z 08Sep2016	0.80m

SEYCHELLES		
TAKAMAKA	1036Z 08Sep2016	1.95m
REMIRE ISLAND	1056Z 08Sep2016	0.97m
FREGATE ISLAND	1106Z 08Sep2016	1.97m
ILE DESROCHES	1108Z 08Sep2016	0.77m
COETIVY ISLAND	1122Z 08Sep2016	0.88m
PLATTE ISLAND	1128Z 08Sep2016	0.61m
ASTOVE ISLAND	1144Z 08Sep2016	0.61m
ALDABRA	1146Z 08Sep2016	0.65m
FARQUHAR GROUP	1230Z 08Sep2016	0.54m

SOMALIA		
HAFUN	0918Z 08Sep2016	1.05m
TOOXIN	0922Z 08Sep2016	1.60m

QANDALA	0926Z	08Sep2016	1.14m
HURDYO	0934Z	08Sep2016	0.98m
HADAAFTIMO	0938Z	08Sep2016	1.11m
GALDOGOB	0952Z	08Sep2016	1.00m
NORTHERN HOBYO	1000Z	08Sep2016	0.85m
MAYDH	1006Z	08Sep2016	1.29m
KABURA	1014Z	08Sep2016	1.28m
XARARDHEERE	1018Z	08Sep2016	0.86m
ANTERAL	1022Z	08Sep2016	1.10m
CEEL DHEER	1022Z	08Sep2016	0.75m
MAREEG	1032Z	08Sep2016	0.68m
BERBERA	1036Z	08Sep2016	1.32m
BAKI	1048Z	08Sep2016	1.56m
SAYLAC	1052Z	08Sep2016	1.92m
BARAAWE	1110Z	08Sep2016	0.68m
LOYADO	1114Z	08Sep2016	1.18m
JILIB	1120Z	08Sep2016	0.65m
TURDHO	1130Z	08Sep2016	0.54m
KISMAAYO	1136Z	08Sep2016	0.55m
KAAMBOONI	1144Z	08Sep2016	0.59m
NE BEERNAASI	1150Z	08Sep2016	0.58m

#### SRI LANKA

COLOMBO	1050Z	08Sep2016	0.64m
NEGOMBO	1100Z	08Sep2016	0.63m
MUNDAL LAKE	1100Z	08Sep2016	0.56m
MANNAR ISLAND	1156Z	08Sep2016	0.53m

#### TANZANIA

ZANZIBAR	1228Z	08Sep2016	0.62m
KUTANI	1230Z	08Sep2016	0.58m
MSASANI	1234Z	08Sep2016	0.60m
SONGO MNARA	1236Z	08Sep2016	0.65m
RUVU	1236Z	08Sep2016	0.63m
BOMALANDNI	1236Z	08Sep2016	0.93m
VUMBA	1238Z	08Sep2016	0.76m
MADANGWA	1240Z	08Sep2016	0.65m
VUMBI	1246Z	08Sep2016	0.85m
GAZIJA	1248Z	08Sep2016	0.69m
JIMBO	1258Z	08Sep2016	0.66m
SONGO SONGO ISLAND	1302Z	08Sep2016	0.54m
JAJA	1304Z	08Sep2016	0.55m

#### UNITED ARAB EMIRATES

KALBA	0620Z	08Sep2016	4.95m
ZIGGHY BAY	0634Z	08Sep2016	4.72m

#### YEMEN

AL GHAYDAH AIRPORT	0834Z	08Sep2016	1.84m
HUSWAYN	0842Z	08Sep2016	1.25m
SOCOTRA ISLAND NORTH	0846Z	08Sep2016	1.19m
ITAB	0858Z	08Sep2016	1.18m
AL QUMRAH	0912Z	08Sep2016	1.07m
HAMI	0916Z	08Sep2016	1.25m
AL MUKALLA	0922Z	08Sep2016	1.41m
YEMEN	0946Z	08Sep2016	0.86m
HISN BALID	0950Z	08Sep2016	1.07m
AHWAR	1004Z	08Sep2016	0.98m
KHANFAR	1022Z	08Sep2016	1.17m
BIR JABIR	1022Z	08Sep2016	1.09m
ADEN	1038Z	08Sep2016	0.92m
QAWAH	1058Z	08Sep2016	1.39m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/egevents.jsp>

6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
-----
TEST TSUNAMI BULLETIN NUMBER 12
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 1435 UTC Thursday 08 September 2016
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```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC
Salalah	OMAN	16.90N	54.01E	0.90m	08 Sep 08:30 UTC
Minicoy	INDIA	8.30N	73.05E	0.60m	08 Sep 09:20 UTC
Mormugao	INDIA	15.40N	73.78E	1.70m	08 Sep 09:45 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.60m	08 Sep 09:45 UTC
Male	MALDIVES	4.20N	73.53E	0.40m	08 Sep 10:20 UTC
Cochin	INDIA	10.00N	76.17E	1.40m	08 Sep 10:20 UTC
Gan	MALDIVES	0.70S	73.15E	0.50m	08 Sep 10:30 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.90m	08 Sep 10:45 UTC
Aden	YEMEN	12.80N	44.97E	0.90m	08 Sep 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.32m	08 Sep 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	08 Sep 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.28m	08 Sep 11:45 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	08 Sep 11:45 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.35m	08 Sep 11:50 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	08 Sep 12:10 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach

are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z 08Sep2016	0.59m
BORROW ISLAND	1756Z 08Sep2016	0.51m
PORT DENISON	2324Z 08Sep2016	0.51m

#### BANGLADESH

COXS BAZAR	2144Z 08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z 09Sep2016	0.54m

#### BRITISH INDIAN OCEAN TERRITORY

NW EGMONT ISLAND	1108Z 08Sep2016	1.64m
DIEGO GARCIA	1138Z 08Sep2016	1.27m

#### COMOROS

BAMBAO	1220Z 08Sep2016	0.72m
DZAOUDZI	1226Z 08Sep2016	0.60m
FOMBONI	1228Z 08Sep2016	0.75m
CHEZANI	1334Z 08Sep2016	0.61m

#### DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z 08Sep2016	2.42m
NW ARTA	1108Z 08Sep2016	2.86m

#### FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z 08Sep2016	0.99m
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#### INDIA

MANDVI	0712Z 08Sep2016	3.20m
PORBANDAR	0752Z 08Sep2016	2.01m
DWARKA	0756Z 08Sep2016	2.69m
VERAVAL	0810Z 08Sep2016	2.03m
AMINI	0900Z 08Sep2016	2.34m
MALVAN BAY	0900Z 08Sep2016	1.67m
PANAJI	0912Z 08Sep2016	1.86m
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ANJANWEL	0916Z 08Sep2016	1.76m
MINICOY	0916Z 08Sep2016	1.55m
KARWAR	0922Z 08Sep2016	1.76m
AMRELI	0928Z 08Sep2016	2.58m
MANGALORE	0940Z 08Sep2016	1.93m
ALIBAG PORT	0950Z 08Sep2016	1.35m
GULF OF KHAMBAT	0952Z 08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z 08Sep2016	1.75m
MADAYI KANNUR	0954Z 08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z 08Sep2016	1.84m
COCHIN	1000Z 08Sep2016	1.96m
BEYPORE	1000Z 08Sep2016	2.04m

MUMBAI	1002Z	08Sep2016	1.63m
QUILON	1004Z	08Sep2016	1.71m
KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m

#### INDONESIA

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BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	08Sep2016	0.53m
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JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
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SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

LAMU	1210Z	08Sep2016	0.69m
TAKAUNGU	1220Z	08Sep2016	0.66m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m
MVULENI	1226Z	08Sep2016	0.74m

#### MADAGASCAR

GLORIOSO ISLANDS	1202Z	08Sep2016	0.58m
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TOAMASINA	1342Z	08Sep2016	0.53m
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FENOARIVO ATSIANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m
MALE	1004Z	08Sep2016	1.24m
KOLHUFUSHI	1020Z	08Sep2016	1.31m

#### MAURITIUS

LA FERME	1312Z	08Sep2016	1.67m
GRANDE REVIERE SUD EST	1322Z	08Sep2016	0.78m
CARGADOS CARAJOS	1322Z	08Sep2016	0.82m

MOZAMBIQUE

QUITERAJO	1252Z	08Sep2016	0.54m
MAGANJA	1300Z	08Sep2016	0.54m
TAVARI	1304Z	08Sep2016	0.54m
LURIO	1306Z	08Sep2016	0.61m
MURREBUE	1306Z	08Sep2016	0.57m
MERONVI	1308Z	08Sep2016	0.54m
NANGATA	1310Z	08Sep2016	0.58m
MINHAUINE	1312Z	08Sep2016	0.60m
NHANGAU	0422Z	09Sep2016	0.54m

OMAN

MUSCAT	0610Z	08Sep2016	12.59m
BARKA	0610Z	08Sep2016	16.49m
AL KHABURAH	0614Z	08Sep2016	10.92m
QALHAT	0616Z	08Sep2016	10.60m
SUHAR	0618Z	08Sep2016	6.52m
RASS AL HADD	0622Z	08Sep2016	8.72m
MUSANDAM	0642Z	08Sep2016	5.07m
ABU GHALAT	0652Z	08Sep2016	3.45m
MANADHIF	0708Z	08Sep2016	2.33m
JUWAYRAH	0720Z	08Sep2016	2.06m
AL DUQM	0728Z	08Sep2016	2.29m
SHARBTHAT	0744Z	08Sep2016	1.78m
JUZUR AL HALANIYAT	0746Z	08Sep2016	1.85m
HASIK	0754Z	08Sep2016	1.90m
AL JAZIR	0756Z	08Sep2016	1.71m

PAKISTAN

BAGAR	0600Z	08Sep2016	7.76m
PASNI	0600Z	08Sep2016	11.56m
ORMARA	0600Z	08Sep2016	11.71m
KUND MALIR BEACH- MAKRAH HIGHWAY	0600Z	08Sep2016	4.21m
JIWANI	0600Z	08Sep2016	9.50m
WINDER	0630Z	08Sep2016	5.15m
KARACHI	0636Z	08Sep2016	4.04m
SINDH	0708Z	08Sep2016	3.30m

REUNION

SAINT - JOSEPH	1324Z	08Sep2016	0.80m
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SEYCHELLES

TAKAMAKA	1036Z	08Sep2016	1.95m
FREGATE ISLAND	1106Z	08Sep2016	1.97m
ASTOVE ISLAND	1144Z	08Sep2016	0.61m

SOMALIA

HAFUN	0918Z	08Sep2016	1.05m
TOOXIN	0922Z	08Sep2016	1.60m
QANDALA	0926Z	08Sep2016	1.14m
HURDYO	0934Z	08Sep2016	0.98m
HADAAFTIMO	0938Z	08Sep2016	1.11m
GALDOGOB	0952Z	08Sep2016	1.00m
NORTHERN HOBYO	1000Z	08Sep2016	0.85m
MAYDH	1006Z	08Sep2016	1.29m
KABURA	1014Z	08Sep2016	1.28m
XARARDHEERE	1018Z	08Sep2016	0.86m
CEEL DHEER	1022Z	08Sep2016	0.75m
ANTERAL	1022Z	08Sep2016	1.10m
MAREEG	1032Z	08Sep2016	0.68m



BERBERA	1036Z	08Sep2016	1.32m
BAKI	1048Z	08Sep2016	1.56m
SAYLAC	1052Z	08Sep2016	1.92m
LOYADO	1114Z	08Sep2016	1.18m
KISMAAYO	1136Z	08Sep2016	0.55m

TANZANIA			
ZANZIBAR	1228Z	08Sep2016	0.62m
KUTANI	1230Z	08Sep2016	0.58m
MSASANI	1234Z	08Sep2016	0.60m
SONGO MNARA	1236Z	08Sep2016	0.65m
RUVU	1236Z	08Sep2016	0.63m
BOMALANDNI	1236Z	08Sep2016	0.93m
VUMBA	1238Z	08Sep2016	0.76m
MADANGWA	1240Z	08Sep2016	0.65m
VUMBI	1246Z	08Sep2016	0.85m
GAZIJA	1248Z	08Sep2016	0.69m
JIMBO	1258Z	08Sep2016	0.66m
SONGO SONGO ISLAND	1302Z	08Sep2016	0.54m
JAJA	1304Z	08Sep2016	0.55m

UNITED ARAB EMIRATES			
KALBA	0620Z	08Sep2016	4.95m
ZIGGHY BAY	0634Z	08Sep2016	4.72m

YEMEN			
AL GHAYDAH AIRPORT	0834Z	08Sep2016	1.84m
HUSWAYN	0842Z	08Sep2016	1.25m
SOCOTRA ISLAND NORTH	0846Z	08Sep2016	1.19m
ITAB	0858Z	08Sep2016	1.18m
AL QUMRAH	0912Z	08Sep2016	1.07m
HAMI	0916Z	08Sep2016	1.25m
AL MUKALLA	0922Z	08Sep2016	1.41m
YEMEN	0946Z	08Sep2016	0.86m
HISN BALID	0950Z	08Sep2016	1.07m
AHWAR	1004Z	08Sep2016	0.98m
KHANFAR	1022Z	08Sep2016	1.17m
BIR JABIR	1022Z	08Sep2016	1.09m
ADEN	1038Z	08Sep2016	0.92m
QAWAH	1058Z	08Sep2016	1.39m

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

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```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
-----
TEST TSUNAMI BULLETIN NUMBER 13
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 1535 UTC Thursday 08 September 2016
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```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC
Salalah	OMAN	16.90N	54.01E	0.90m	08 Sep 08:30 UTC
Minicoy	INDIA	8.30N	73.05E	0.60m	08 Sep 09:20 UTC
Mormugao	INDIA	15.40N	73.78E	1.70m	08 Sep 09:45 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.60m	08 Sep 09:45 UTC
Male	MALDIVES	4.20N	73.53E	0.40m	08 Sep 10:20 UTC
Cochin	INDIA	10.00N	76.17E	1.40m	08 Sep 10:20 UTC
Gan	MALDIVES	0.70S	73.15E	0.50m	08 Sep 10:30 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.90m	08 Sep 10:45 UTC
Aden	YEMEN	12.80N	44.97E	0.90m	08 Sep 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.32m	08 Sep 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	08 Sep 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.28m	08 Sep 11:45 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	08 Sep 11:45 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.35m	08 Sep 11:50 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	08 Sep 12:10 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach

are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z	08Sep2016	0.59m
BORROW ISLAND	1756Z	08Sep2016	0.51m
PORT DENISON	2324Z	08Sep2016	0.51m

#### BANGLADESH

COXS BAZAR	2144Z	08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z	09Sep2016	0.54m

#### BRITISH INDIAN OCEAN TERRITORY

DIEGO GARCIA	1138Z	08Sep2016	1.27m
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#### COMOROS

BAMBAO	1220Z	08Sep2016	0.72m
DZAOUDZI	1226Z	08Sep2016	0.60m
FOMBONI	1228Z	08Sep2016	0.75m
CHEZANI	1334Z	08Sep2016	0.61m

#### DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	08Sep2016	2.42m
NW ARTA	1108Z	08Sep2016	2.86m

#### FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z	08Sep2016	0.99m
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#### INDIA

MANDVI	0712Z	08Sep2016	3.20m
PORBANDAR	0752Z	08Sep2016	2.01m
DWARKA	0756Z	08Sep2016	2.69m
VERAVAL	0810Z	08Sep2016	2.03m
AMINI	0900Z	08Sep2016	2.34m
MALVAN BAY	0900Z	08Sep2016	1.67m
PANAJI	0912Z	08Sep2016	1.86m
ANDROTH	0912Z	08Sep2016	2.40m
ANJANWEL	0916Z	08Sep2016	1.76m
MINICOY	0916Z	08Sep2016	1.55m
KARWAR	0922Z	08Sep2016	1.76m
AMRELI	0928Z	08Sep2016	2.58m
MANGALORE	0940Z	08Sep2016	1.93m
ALIBAG PORT	0950Z	08Sep2016	1.35m
GULF OF KHAMBAT	0952Z	08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z	08Sep2016	1.75m
MADAYI KANNUR	0954Z	08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z	08Sep2016	1.84m
COCHIN	1000Z	08Sep2016	1.96m
BEYPORE	1000Z	08Sep2016	2.04m
MUMBAI	1002Z	08Sep2016	1.63m

QUILON	1004Z	08Sep2016	1.71m
KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m

#### INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	08Sep2016	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	08Sep2016	0.53m
SUMUT NIAS B	1826Z	08Sep2016	0.54m
SUMUT MANDAILING-NATAL S	1944Z	08Sep2016	0.55m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2036Z	08Sep2016	0.51m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
BIR	0600Z	08Sep2016	5.99m
JASK	0600Z	08Sep2016	7.38m
VANAK	0600Z	08Sep2016	12.69m
PUSHT	0600Z	08Sep2016	7.88m
MISKI	0616Z	08Sep2016	3.77m
SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

LAMU	1210Z	08Sep2016	0.69m
TAKAUNGU	1220Z	08Sep2016	0.66m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m

#### MADAGASCAR

VOHEMAR	1214Z	08Sep2016	0.73m
MAHALINA	1220Z	08Sep2016	0.87m
NOSY MAKAMBY	1302Z	08Sep2016	0.64m
TOAMASINA	1342Z	08Sep2016	0.53m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
FENOARIVO ATSINANANA	1346Z	08Sep2016	0.50m
SOALALA	1356Z	08Sep2016	0.59m
BALY	1400Z	08Sep2016	0.60m
MANAKARA	1412Z	08Sep2016	0.55m
SOANIERANA-IVONGO	1414Z	08Sep2016	0.59m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m
MALE	1004Z	08Sep2016	1.24m
KOLHUFUSHI	1020Z	08Sep2016	1.31m

#### MAURITIUS

LA FERME	1312Z	08Sep2016	1.67m
GRANDE REVIERE SUD EST	1322Z	08Sep2016	0.78m
CARGADOS CARAJOS	1322Z	08Sep2016	0.82m

#### MOZAMBIQUE

NHANGAU	0422Z	09Sep2016	0.54m
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OMAN  
MUSCAT 0610Z 08Sep2016 12.59m  
BARKA 0610Z 08Sep2016 16.49m  
AL KHABURAH 0614Z 08Sep2016 10.92m  
QALHAT 0616Z 08Sep2016 10.60m  
SUHAR 0618Z 08Sep2016 6.52m  
RASS AL HADD 0622Z 08Sep2016 8.72m  
MUSANDAM 0642Z 08Sep2016 5.07m  
MANADHIF 0708Z 08Sep2016 2.33m  
AL DUQM 0728Z 08Sep2016 2.29m  
JUZUR AL HALANIYAT 0746Z 08Sep2016 1.85m  
AL JAZIR 0756Z 08Sep2016 1.71m

PAKISTAN  
BAGAR 0600Z 08Sep2016 7.76m  
PASNI 0600Z 08Sep2016 11.56m  
ORMARA 0600Z 08Sep2016 11.71m  
KUND MALIR BEACH- MAKRAH HIGHWAY 0600Z 08Sep2016 4.21m  
JIWANI 0600Z 08Sep2016 9.50m  
WINDER 0630Z 08Sep2016 5.15m  
KARACHI 0636Z 08Sep2016 4.04m  
SINDH 0708Z 08Sep2016 3.30m

REUNION  
SAINT - JOSEPH 1324Z 08Sep2016 0.80m

SEYCHELLES  
TAKAMAKA 1036Z 08Sep2016 1.95m

SOMALIA  
HAFUN 0918Z 08Sep2016 1.05m  
TOOXIN 0922Z 08Sep2016 1.60m  
QANDALA 0926Z 08Sep2016 1.14m  
HURDYO 0934Z 08Sep2016 0.98m  
HADAAFTIMO 0938Z 08Sep2016 1.11m  
GALDOGOB 0952Z 08Sep2016 1.00m  
NORTHERN HOBYO 1000Z 08Sep2016 0.85m  
MAYDH 1006Z 08Sep2016 1.29m  
KABURA 1014Z 08Sep2016 1.28m  
XARARDHEERE 1018Z 08Sep2016 0.86m  
CEEL DHEER 1022Z 08Sep2016 0.75m  
ANTERAL 1022Z 08Sep2016 1.10m  
MAREEG 1032Z 08Sep2016 0.68m  
BERBERA 1036Z 08Sep2016 1.32m  
BAKI 1048Z 08Sep2016 1.56m  
SAYLAC 1052Z 08Sep2016 1.92m  
LOYADO 1114Z 08Sep2016 1.18m  
KISMAAYO 1136Z 08Sep2016 0.55m

TANZANIA  
BOMALANDNI 1236Z 08Sep2016 0.93m  
VUMBI 1246Z 08Sep2016 0.85m  
GAZIJA 1248Z 08Sep2016 0.69m

UNITED ARAB EMIRATES  
KALBA 0620Z 08Sep2016 4.95m  
ZIGGHY BAY 0634Z 08Sep2016 4.72m

YEMEN  
AL GHAYDAH AIRPORT 0834Z 08Sep2016 1.84m  
HUSWAYN 0842Z 08Sep2016 1.25m  
SOCOTRA ISLAND NORTH 0846Z 08Sep2016 1.19m  
ITAB 0858Z 08Sep2016 1.18m  
AL QUMRAH 0912Z 08Sep2016 1.07m

HAMI	0916Z 08Sep2016	1.25m
AL MUKALLA	0922Z 08Sep2016	1.41m
YEMEN	0946Z 08Sep2016	0.86m
HISN BALID	0950Z 08Sep2016	1.07m
AHWAR	1004Z 08Sep2016	0.98m
BIR JABIR	1022Z 08Sep2016	1.09m
ADEN	1038Z 08Sep2016	0.92m
QAWAH	1058Z 08Sep2016	1.39m

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
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TEST TSUNAMI BULLETIN NUMBER 14
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 1635 UTC Thursday 08 September 2016
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```

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC
Salalah	OMAN	16.90N	54.01E	0.90m	08 Sep 08:30 UTC
Minicoy	INDIA	8.30N	73.05E	0.60m	08 Sep 09:20 UTC
Mormugao	INDIA	15.40N	73.78E	1.70m	08 Sep 09:45 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.60m	08 Sep 09:45 UTC
Male	MALDIVES	4.20N	73.53E	0.40m	08 Sep 10:20 UTC
Cochin	INDIA	10.00N	76.17E	1.40m	08 Sep 10:20 UTC
Gan	MALDIVES	0.70S	73.15E	0.50m	08 Sep 10:30 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.90m	08 Sep 10:45 UTC
Aden	YEMEN	12.80N	44.97E	0.90m	08 Sep 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.32m	08 Sep 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	08 Sep 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.28m	08 Sep 11:45 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	08 Sep 11:45 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.35m	08 Sep 11:50 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	08 Sep 12:10 UTC

Based on pre-run model scenarios, the zones listed below are  
POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave  
estimated to exceed 0.5m amplitude at the beach in each zone, and the  
amplitude of the maximum beach wave predicted for the zone. Zones  
where the estimated wave amplitudes are less than 0.5m at the beach



are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### AUSTRALIA

DIRK HARTOG ISLAND WEST COAST	1746Z	08Sep2016	0.59m
BORROW ISLAND	1756Z	08Sep2016	0.51m
PORT DENISON	2324Z	08Sep2016	0.51m

#### BANGLADESH

COXS BAZAR	2144Z	08Sep2016	0.58m
KUTUBDIA ISLAND	0218Z	09Sep2016	0.54m

#### DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	08Sep2016	2.42m
NW ARTA	1108Z	08Sep2016	2.86m

#### FRENCH SOUTHERN AND ANTARCTIC LANDS

LLE SAINT-PAUL	1628Z	08Sep2016	0.99m
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#### INDIA

MANDVI	0712Z	08Sep2016	3.20m
PORBANDAR	0752Z	08Sep2016	2.01m
DWARKA	0756Z	08Sep2016	2.69m
VERAVAL	0810Z	08Sep2016	2.03m
AMINI	0900Z	08Sep2016	2.34m
MALVAN BAY	0900Z	08Sep2016	1.67m
PANAJI	0912Z	08Sep2016	1.86m
ANDROTH	0912Z	08Sep2016	2.40m
ANJANWEL	0916Z	08Sep2016	1.76m
MINICOY	0916Z	08Sep2016	1.55m
KARWAR	0922Z	08Sep2016	1.76m
AMRELI	0928Z	08Sep2016	2.58m
MANGALORE	0940Z	08Sep2016	1.93m
ALIBAG PORT	0950Z	08Sep2016	1.35m
GULF OF KHAMBAT	0952Z	08Sep2016	1.63m
CHANDRAGIRI FORT	0952Z	08Sep2016	1.75m
MADAYI KANNUR	0954Z	08Sep2016	2.03m
ALLEPPEY ALAPPUZHA	0958Z	08Sep2016	1.84m
COCHIN	1000Z	08Sep2016	1.96m
BEYPORE	1000Z	08Sep2016	2.04m
MUMBAI	1002Z	08Sep2016	1.63m
QUILON	1004Z	08Sep2016	1.71m
KANYAKUMARI	1030Z	08Sep2016	1.07m
KOODANKULAM	1100Z	08Sep2016	1.00m
TUTICORIN	1130Z	08Sep2016	0.64m

#### INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	08Sep2016	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	08Sep2016	0.53m
SUMUT NIAS B	1826Z	08Sep2016	0.54m

SUMUT MANDAILING-NATAL S	1944Z	08Sep2016	0.55m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2036Z	08Sep2016	0.51m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	08Sep2016	0.68m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0310Z	09Sep2016	0.54m
BANTEN KOTA-CILEGON P.SANGIANG	0310Z	09Sep2016	0.54m
BANTEN SERANG B	0310Z	09Sep2016	0.54m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	09Sep2016	0.60m

#### IRAN

MACHAN	0600Z	08Sep2016	6.76m
BIR	0600Z	08Sep2016	5.99m
JASK	0600Z	08Sep2016	7.38m
VANAK	0600Z	08Sep2016	12.69m
PUSHT	0600Z	08Sep2016	7.88m
MISKI	0616Z	08Sep2016	3.77m
SIRIK	0640Z	08Sep2016	3.60m
SAR RIG	0744Z	08Sep2016	3.03m

#### KENYA

LAMU	1210Z	08Sep2016	0.69m
MALINDI	1222Z	08Sep2016	0.65m
KIPINI	1224Z	08Sep2016	0.85m

#### MADAGASCAR

MAHALINA	1220Z	08Sep2016	0.87m
AMPOMBIANTAMBO	1344Z	08Sep2016	0.67m
MAHAJANGA	1430Z	08Sep2016	0.63m
FARAFAGANA	1516Z	08Sep2016	0.66m
TAMPOLO	1720Z	08Sep2016	1.05m

#### MALDIVES

KULHUDHUFFUSHI	0922Z	08Sep2016	2.28m
GOIDHOO	0928Z	08Sep2016	2.22m
FERIDHOO	0940Z	08Sep2016	2.31m
NILANDHOO	0950Z	08Sep2016	1.99m
MALE	1004Z	08Sep2016	1.24m
KOLHUFUSHI	1020Z	08Sep2016	1.31m

#### MAURITIUS

CARGADOS CARAJOS	1322Z	08Sep2016	0.82m
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#### MOZAMBIQUE

NHANGAU	0422Z	09Sep2016	0.54m
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#### OMAN

MUSCAT	0610Z	08Sep2016	12.59m
BARKA	0610Z	08Sep2016	16.49m
AL KHABURAH	0614Z	08Sep2016	10.92m
QALHAT	0616Z	08Sep2016	10.60m
SUHAR	0618Z	08Sep2016	6.52m
RASS AL HADD	0622Z	08Sep2016	8.72m
MUSANDAM	0642Z	08Sep2016	5.07m
MANADHIF	0708Z	08Sep2016	2.33m
AL DUQM	0728Z	08Sep2016	2.29m
JUZUR AL HALANIYAT	0746Z	08Sep2016	1.85m
AL JAZIR	0756Z	08Sep2016	1.71m

#### PAKISTAN

PASNI	0600Z	08Sep2016	11.56m
ORMARA	0600Z	08Sep2016	11.71m
KUND MALIR BEACH- MAKHRAN HIGHWAY	0600Z	08Sep2016	4.21m
JIWANI	0600Z	08Sep2016	9.50m
WINDER	0630Z	08Sep2016	5.15m
KARACHI	0636Z	08Sep2016	4.04m

SINDH 0708Z 08Sep2016 3.30m

SEYCHELLES

TAKAMAKA 1036Z 08Sep2016 1.95m

SOMALIA

HAFUN	0918Z 08Sep2016	1.05m
TOOXIN	0922Z 08Sep2016	1.60m
QANDALA	0926Z 08Sep2016	1.14m
HURDYO	0934Z 08Sep2016	0.98m
HADAAFTIMO	0938Z 08Sep2016	1.11m
GALDOGOB	0952Z 08Sep2016	1.00m
NORTHERN HOBYO	1000Z 08Sep2016	0.85m
MAYDH	1006Z 08Sep2016	1.29m
KABURA	1014Z 08Sep2016	1.28m
XARARDHEERE	1018Z 08Sep2016	0.86m
ANTERAL	1022Z 08Sep2016	1.10m
CEEL DHEER	1022Z 08Sep2016	0.75m
MAREEG	1032Z 08Sep2016	0.68m
BERBERA	1036Z 08Sep2016	1.32m
BAKI	1048Z 08Sep2016	1.56m
SAYLAC	1052Z 08Sep2016	1.92m
LOYADO	1114Z 08Sep2016	1.18m

TANZANIA

BOMALANDNI	1236Z 08Sep2016	0.93m
VUMBI	1246Z 08Sep2016	0.85m
GAZIJA	1248Z 08Sep2016	0.69m

UNITED ARAB EMIRATES

KALBA	0620Z 08Sep2016	4.95m
ZIGGHY BAY	0634Z 08Sep2016	4.72m

YEMEN

AL GHAYDAH AIRPORT	0834Z 08Sep2016	1.84m
SOCOTRA ISLAND NORTH	0846Z 08Sep2016	1.19m
AL QUMRAH	0912Z 08Sep2016	1.07m
HAMI	0916Z 08Sep2016	1.25m
AL MUKALLA	0922Z 08Sep2016	1.41m
YEMEN	0946Z 08Sep2016	0.86m
HISN BALID	0950Z 08Sep2016	1.07m
AHWAR	1004Z 08Sep2016	0.98m
BIR JABIR	1022Z 08Sep2016	1.09m
ADEN	1038Z 08Sep2016	0.92m
QAWAH	1058Z 08Sep2016	1.39m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology  
GPO BOX 1289 Melbourne, Victoria, Australia, 3001  
<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

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#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

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TEST TSUNAMI BULLETIN NUMBER 15
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
Issued at: 1735 UTC Thursday 08 September 2016
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... FINAL TSUNAMI BULLETIN FOR THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.  
It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning  
and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP AUSTRALIA has detected an earthquake with the following details:

Magnitude: 9.0 Mwp  
Depth: 15km  
Date: 08 Sep 2016  
Origin Time: 0600 UTC  
Latitude: 24.80N  
Longitude: 62.20E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Data from sea-level gauges confirmed that a TSUNAMI WAS GENERATED.

The expected period of significant tsunami waves is now over for all  
threatened Indian Ocean countries, based on IOTWMS-TSP AUSTRALIA modelling.

Because local conditions can cause a wide variation in tsunami wave  
action, CANCELLATION of national warnings and ALL CLEAR determination  
must be made by national/state/local authorities. Please be aware  
that dangerous currents can continue for several hours after the main  
tsunami waves have passed.

#### 3. TSUNAMI WAVE OBSERVATIONS

Listed below are maximum wave amplitudes recorded at the specified  
locations. Note that wave amplitude is measured relative to normal  
sea level: it is NOT the crest-to-trough wave height.

Ormara	PAKISTAN	25.20N	64.07E	4.20m	08 Sep 06:15 UTC
Jask	IRAN	25.60N	57.77E	6.50m	08 Sep 06:20 UTC
Gwadar	PAKISTAN	25.00N	62.00E	5.50m	08 Sep 06:25 UTC
Muscat	OMAN	23.60N	58.57E	6.80m	08 Sep 06:30 UTC
Chabahar	IRAN	25.33N	60.50E	4.00m	08 Sep 07:00 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.20m	08 Sep 07:20 UTC
Masirah	OMAN	20.70N	58.87E	1.80m	08 Sep 07:20 UTC
Salalah	OMAN	16.90N	54.01E	0.90m	08 Sep 08:30 UTC
Minicoy	INDIA	8.30N	73.05E	0.60m	08 Sep 09:20 UTC
Mormugao	INDIA	15.40N	73.78E	1.70m	08 Sep 09:45 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.60m	08 Sep 09:45 UTC
Male	MALDIVES	4.20N	73.53E	0.40m	08 Sep 10:20 UTC
Cochin	INDIA	10.00N	76.17E	1.40m	08 Sep 10:20 UTC
Gan	MALDIVES	0.70S	73.15E	0.50m	08 Sep 10:30 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.90m	08 Sep 10:45 UTC
Aden	YEMEN	12.80N	44.97E	0.90m	08 Sep 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.32m	08 Sep 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	08 Sep 11:15 UTC

Diego Garcia	UK	7.20S	72.43E	0.28m	08 Sep 11:45 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	08 Sep 11:45 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.35m	08 Sep 11:50 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	08 Sep 12:10 UTC

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

No further bulletins will be issued by IOTWMS-TSP AUSTRALIA for this event unless additional information becomes available.

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWMS-TSP AUSTRALIA

Joint Australian Tsunami Warning Centre (JATWC)

Bureau of Meteorology

GPO BOX 1289 Melbourne, Victoria, Australia, 3001

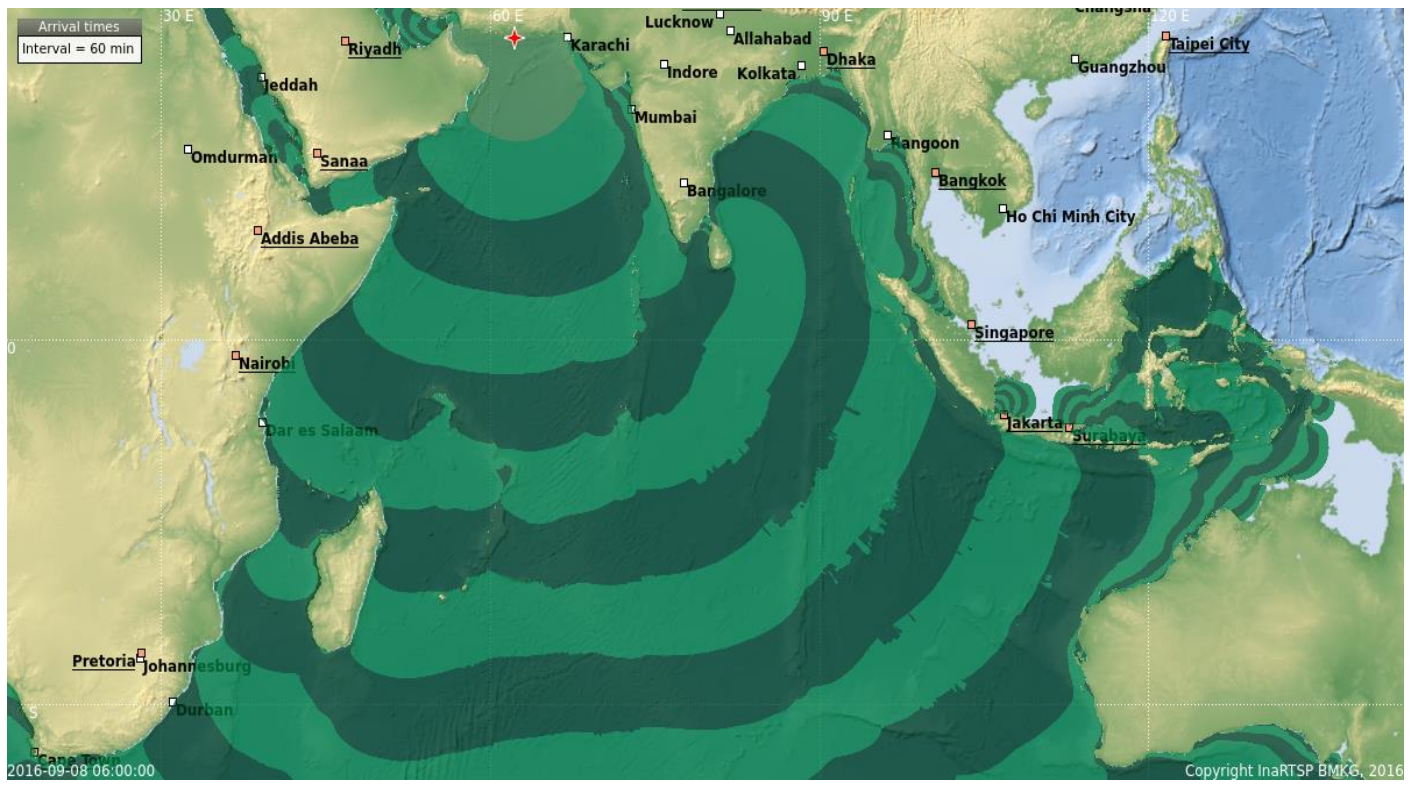
<http://reg.bom.gov.au/tsunami/rtsp>

END OF BULLETIN

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

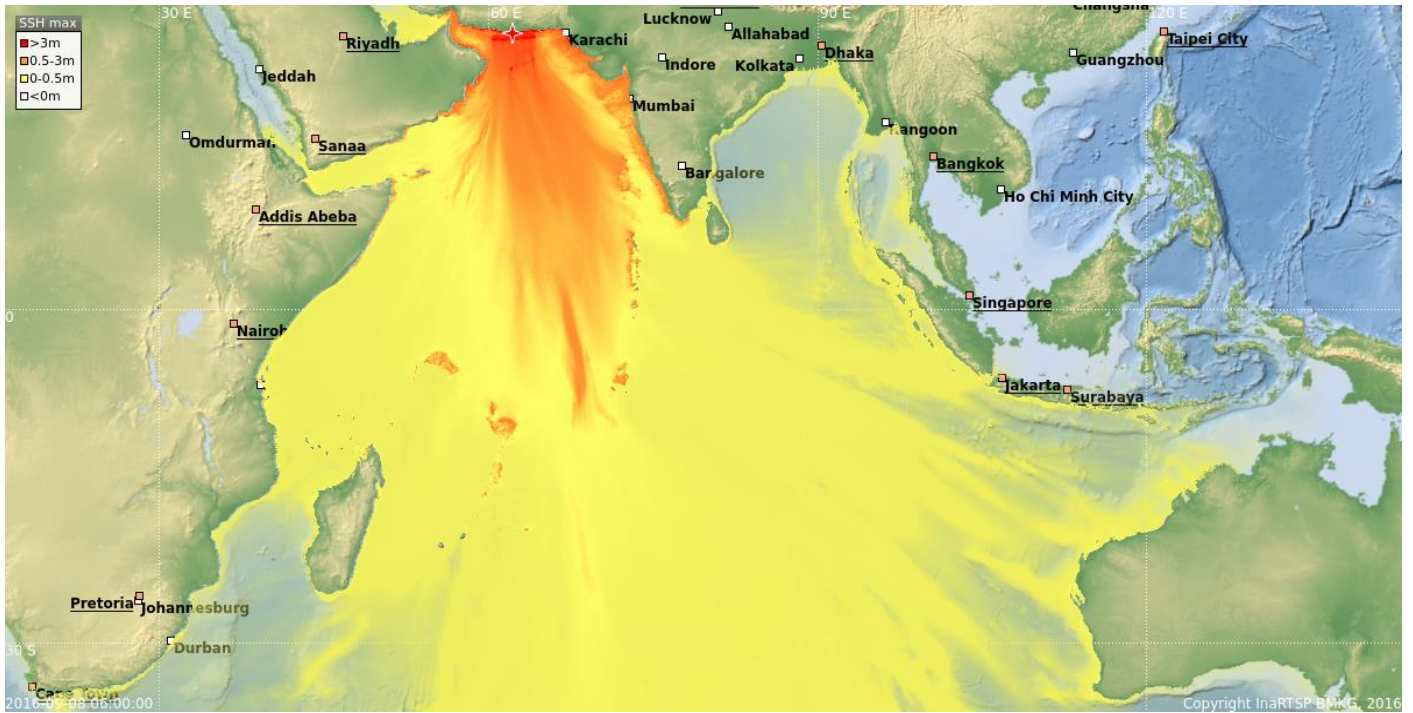
## TSP INDONESIA MAPS

### TSP Indonesia Travel Time Map:

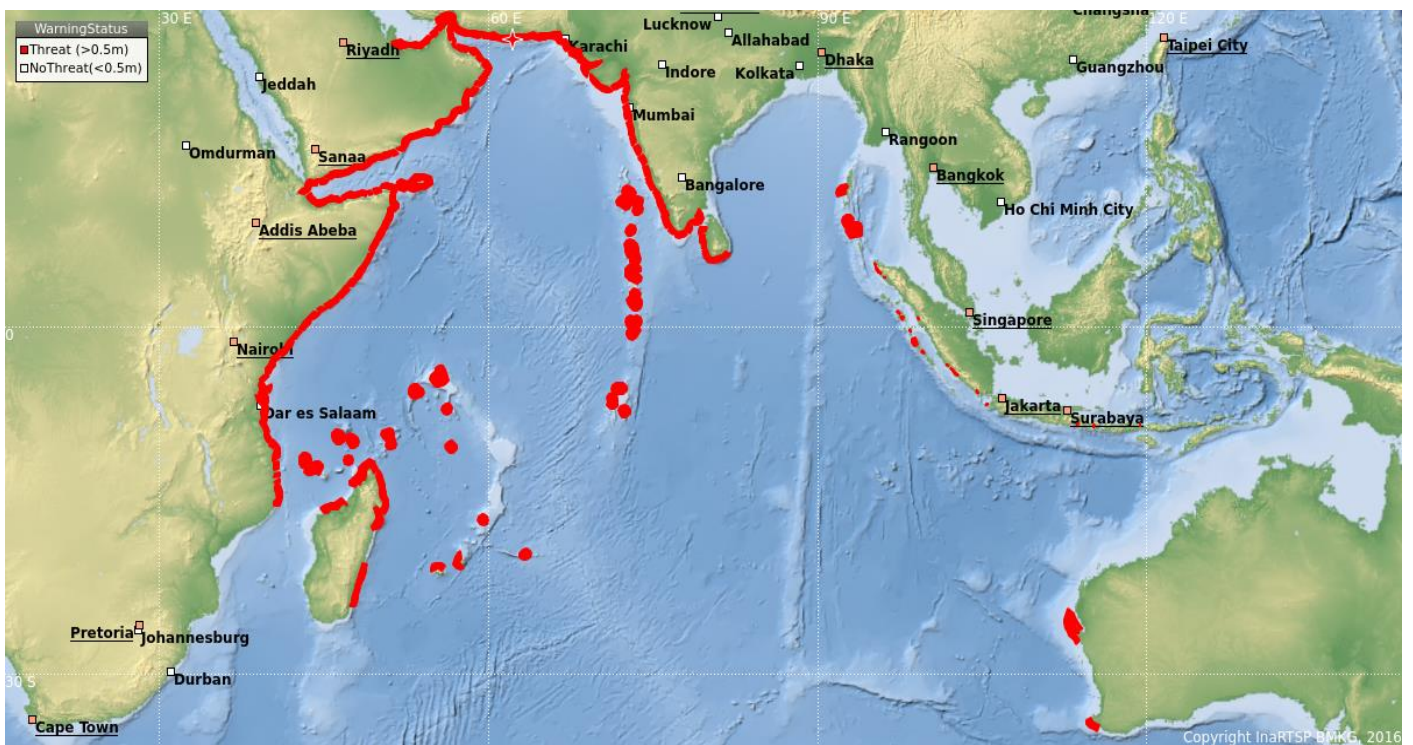




TSP Indonesia Maximum Deep-Water Wave Amplitude Map for Bulletin 2 (EQ Magnitude 8.7):

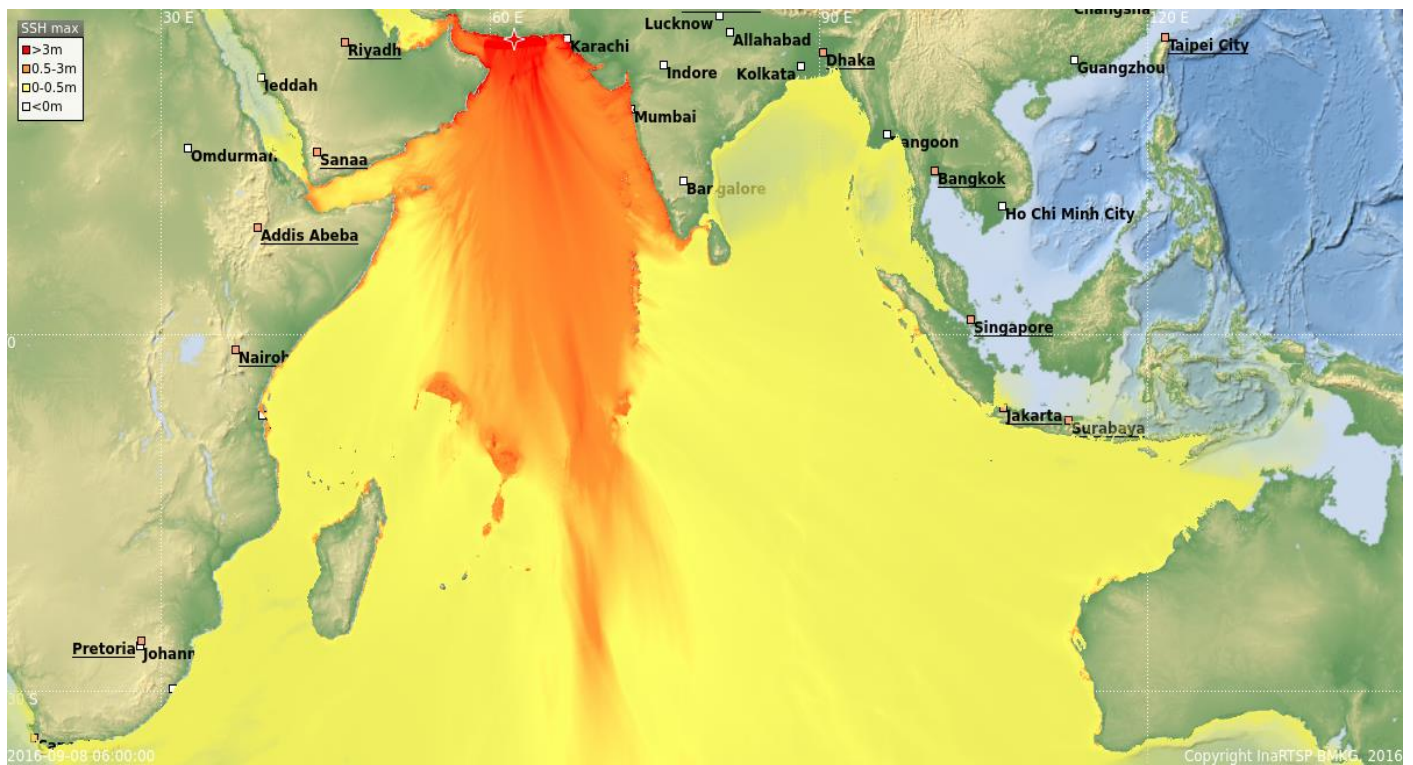


TSP Indonesia Threat Map for Bulletin 2 (EQ Magnitude 8.7):

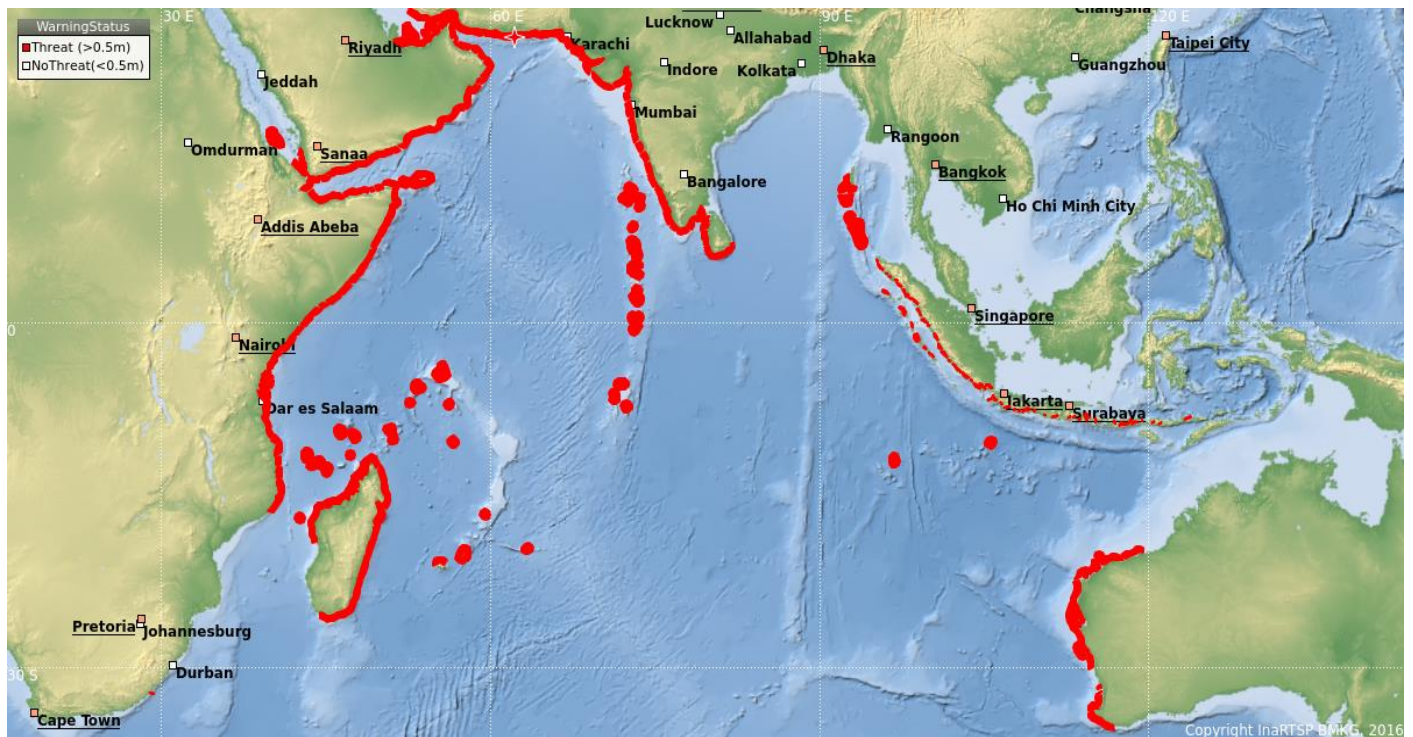




TSP Indonesia Maximum Deep-Water Wave Amplitude Map for Bulletins 3 to 12 (EQ Magnitude 9.0):



TSP Indonesia Threat Map for Bulletins 3 to 12 (EQ Magnitude 9.0):



## TSP INDONESIA BULLETINS

TEST TEST TEST TEST TEST IOWave-Sep-2016 TEST TEST TEST TEST TEST TEST TEST  
TEST TEST TEST TEST TEST IOWave-Sep-2016 TEST TEST TEST TEST TEST TEST TEST  
TSP-InaTEWS-20160908-0607-001

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TSUNAMI BULLETIN NUMBER 1 (TYPE-I)  
IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
issued at 0607 UTC, Thursday, 08 September 2016  
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... EARTHQUAKE BULLETIN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

### 1. EARTHQUAKE INFORMATION

IOTWS-TSP INDONESIA has detected an earthquake with the following preliminary information:

Magnitude : 8.5 (Mw)  
Depth : 10km  
Date : 08 Sep 2016  
Origin Time: 06:00:00 UTC  
Latitude : 24.80N  
Longitude : 62.20E  
Location : Off Coast of Pakistan

### 2. EVALUATION

(EQ mag between 6.5 and 7.9 in Pacific or South Atlantic source zones only)  
Although this earthquake may be capable of generating a tsunami in the Pacific or South Atlantic Ocean, based on historical data and tsunami modelling it is not capable of generating a tsunami affecting the Indian Ocean region. However IOTWS-TSP INDONESIA will monitor the situation and may issue further bulletins if new information becomes available.

(EQ mag  $\geq$  6.5 in IO, or  $\geq$  8.0 in Pacific or South Atlantic source zones)  
Based on historical data and tsunami modelling, this earthquake may be capable of generating a tsunami affecting the Indian Ocean region. IOTWS-TSP INDONESIA will monitor sea level gauges near the earthquake to determine if a tsunami was generated and will issue further bulletins for this event.

Further information on this event will be available at:  
<http://inatews.bmkg.go.id>

### 3. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

### 4. OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWS-TSPs may issue additional information at:  
IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

### 5. CONTACT INFORMATION

IOTWS-TSP INDONESIA:  
THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)  
InaTEWS - Indonesian Tsunami Early Warning System  
Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720

Tel.: +62 (21) 4246321/6546316  
Fax: +62 (21) 6546316/4246703  
P.O. Box 3540 Jakarta  
Website: <http://rtsp.bmkg.go.id/publicbull.php>  
<http://www.bmkg.go.id>  
<http://inatews.bmkg.go.id>  
E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)  
[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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TEST TEST TEST TEST TEST IOWave-Sep-2016 TEST TEST TEST TEST TEST TEST TEST  
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TEST TEST TEST TEST TEST IOWave-Sep-2016 TEST TEST TEST TEST TEST TEST TEST  
TSP-InaTEWS-20160908-0610-002

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TSUNAMI BULLETIN NUMBER 2 (TYPE-II)  
IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
issued at 0610 UTC, Thursday, 08 September 2016  
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... POTENTIAL TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

1. EARTHQUAKE INFORMATION (updated)

TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 8.7 (Mw)  
Depth : 10km  
Date : 08 Sep 2016  
Origin Time: 06:00:00 UTC  
Latitude : 24.80N  
Longitude : 62.20E  
Location : Off Coast of Pakistan

2. EVALUATION

Earthquakes of this size are capable of generating tsunamis. However, so far there is no confirmation about the triggering of a tsunami.

An investigation is under way to determine if a tsunami has been triggered. This TSP will monitor sea level gauges and report if any tsunami wave activity has occurred.

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

AUSTRALIA

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HAMELIN POOL 17:42z 08Sep2016 0.58m  
KUDARDUP 19:46z 08Sep2016 0.67m  
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BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:57z	08Sep2016	1.72m
NW EGMONT ISLAND	11:07z	08Sep2016	1.37m
DIEGO GARCIA	11:35z	08Sep2016	1.69m

COMOROS

BAMBAO	12:18z	08Sep2016	0.57m
FOMBONI	12:25z	08Sep2016	0.64m
CHEZANI	19:47z	08Sep2016	0.56m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:09z	08Sep2016	0.61m
NW ARTA	11:14z	08Sep2016	1.30m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:24z	08Sep2016	0.67m
AND ANTARCTIC LANDS	18:51z	08Sep2016	2.24m

INDIA

MANDVI	07:54z	08Sep2016	2.16m
DWARKA	08:02z	08Sep2016	2.17m
PORBANDAR	08:04z	08Sep2016	1.50m
VERAVAL	08:19z	08Sep2016	2.09m
AGATTI	08:48z	08Sep2016	3.00m
AMINI	08:52z	08Sep2016	2.84m
KAVARATTI	08:59z	08Sep2016	1.10m
MALVAN BAY	09:04z	08Sep2016	1.62m
PANAJI	09:15z	08Sep2016	1.82m
MINICOY	09:15z	08Sep2016	1.39m
ANDROTH	09:15z	08Sep2016	1.65m
ANJANWEL	09:18z	08Sep2016	1.77m
KARWAR	09:25z	08Sep2016	1.86m
ALIBAG PORT	09:42z	08Sep2016	1.54m
MANGALORE	09:49z	08Sep2016	1.59m
UDUPI	09:51z	08Sep2016	1.61m
CHANDRAGIRI FORT	09:52z	08Sep2016	1.50m
VIRAR	09:54z	08Sep2016	1.56m
MUMBAI	09:56z	08Sep2016	1.98m
AMRELI	09:59z	08Sep2016	1.79m
MADAYI KANNUR	09:59z	08Sep2016	1.47m
MAHUVA	10:02z	08Sep2016	1.78m
ALLEPPEY ALAPPUZHA	10:02z	08Sep2016	1.44m
MANATTALA	10:05z	08Sep2016	1.43m
QUILON	10:06z	08Sep2016	1.32m
BORSI	10:07z	08Sep2016	1.71m
TIRURANGADI	10:07z	08Sep2016	1.71m
BEYPORE	10:09z	08Sep2016	1.62m
COCHIN	10:12z	08Sep2016	1.48m
TRIVANDRUM	10:20z	08Sep2016	1.11m
DAMAN	10:23z	08Sep2016	1.39m
KANYAKUMARI	10:31z	08Sep2016	1.23m
KOODANKULAM	11:07z	08Sep2016	1.32m
TUTICORIN	13:44z	08Sep2016	1.07m
KOMATRA AND KATCHAL ISLAND	20:38z	08Sep2016	0.69m
NORTH SENTINEL ISLAND	21:01z	08Sep2016	0.55m

RAMESWARAM	21:33z 08Sep2016	0.69m
CAR NICOBAR	23:51z 08Sep2016	0.53m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:50z 08Sep2016	0.74m
SUMUT NIAS-SELATAN PULAU NIAS	14:08z 08Sep2016	0.67m
NAD ACEH-BESAR PULAU PENAS	16:58z 08Sep2016	0.84m
NAD ACEH-BESAR BAGIAN BARAT	17:17z 08Sep2016	0.96m
NAD ACEH-BARAT	18:37z 08Sep2016	0.54m
NAD ACEH-BESAR PULAU BREUEH	18:46z 08Sep2016	0.58m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	18:58z 08Sep2016	0.61m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	19:16z 08Sep2016	0.73m
NTT KEPULAUAN MANGGARAI-BARAT	19:20z 08Sep2016	0.95m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	19:49z 08Sep2016	0.65m
BENGKULU SELUMA	19:53z 08Sep2016	0.73m
NAD ACEH-JAYA	20:12z 08Sep2016	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	20:24z 08Sep2016	0.67m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	20:31z 08Sep2016	0.76m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:40z 08Sep2016	0.52m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	21:10z 08Sep2016	0.52m
BANTEN PANDEGLANG BAGIAN SELATAN	21:38z 08Sep2016	0.57m
SUMUT NIAS-SELATAN PULAU TANABALA	21:54z 08Sep2016	0.64m
LAMPUNG TANGGAMUS BAGIAN BARAT	22:15z 08Sep2016	0.53m
JATENG PURWOREJO	22:29z 08Sep2016	0.61m
BALI BADUNG PANTAI-KUTA	23:29z 08Sep2016	0.53m
JATIM JEMBER	23:52z 08Sep2016	0.64m
JATIM JEMBER PULAU NUSABARUNG	23:54z 08Sep2016	0.59m

IRAN

PUSHT	06:06z 08Sep2016	16.75m
BIR	06:23z 08Sep2016	4.45m
MISKI	07:41z 08Sep2016	3.30m
SAR RIG	08:48z 08Sep2016	2.66m

KENYA

KISIMACHANDE	12:22z 08Sep2016	0.76m
MALINDI	13:49z 08Sep2016	0.64m
KIWAYU	14:37z 08Sep2016	0.79m
KIPINI	16:37z 08Sep2016	0.64m
TAKAUNGU	16:57z 08Sep2016	0.65m

MADAGASCAR

ANOROTSANGANA	12:08z 08Sep2016	0.85m
VOHEMAR	12:17z 08Sep2016	1.11m
TAMPOLO	14:11z 08Sep2016	1.01m
FARAFAGANA	14:57z 08Sep2016	0.51m
BALY	19:08z 08Sep2016	0.55m
AMBAHY	19:09z 08Sep2016	0.67m
GLORIOSO ISLANDS	20:21z 08Sep2016	0.58m

MALDIVES

KULHUDHUFFUSHI	09:23z 08Sep2016	3.86m
GOIDHOO	09:36z 08Sep2016	2.27m
FERIDHOO	09:40z 08Sep2016	2.53m

KOLHUFUSHI	09:49z	08Sep2016	2.07m
MALE-NORTH	09:55z	08Sep2016	1.27m
DHIYAMIGILI	09:56z	08Sep2016	1.82m
MALE-SOUTH	09:59z	08Sep2016	1.68m
THINADHOO	10:11z	08Sep2016	2.27m
HITHADHOO	10:22z	08Sep2016	1.58m

MAURITIUS

AGALEGA ISLAND	11:46z	08Sep2016	0.84m
GRANDE REVIERE SUD EST-WEST	13:16z	08Sep2016	0.54m
LA FERME	13:58z	08Sep2016	1.30m
CARGADOS CARAJOS	17:47z	08Sep2016	0.75m

MOZAMBIQUE

MAGANJA	13:05z	08Sep2016	0.94m
QUITERAJO	13:58z	08Sep2016	0.64m
MERONVI	18:15z	08Sep2016	0.53m
NANGATA	20:20z	08Sep2016	0.64m
LUMBO	21:44z	08Sep2016	0.75m
PEMBA	22:48z	08Sep2016	0.58m
LURIO	22:56z	08Sep2016	0.52m
MECUFI	22:58z	08Sep2016	0.52m
MINHAUINE	22:59z	08Sep2016	0.55m

OMAN

ASSIFAH	06:17z	08Sep2016	4.14m
DARSAIT	06:18z	08Sep2016	2.67m
QALHAT	06:19z	08Sep2016	6.57m
BARKA	06:28z	08Sep2016	4.13m
RASS AL HADD	06:33z	08Sep2016	4.44m
HAY ASEM	06:33z	08Sep2016	3.06m
AL KHABURAH	06:39z	08Sep2016	2.85m
SUHAR	06:49z	08Sep2016	2.41m
MASIRAH	06:54z	08Sep2016	2.62m
ABU GHALAT	06:57z	08Sep2016	2.50m
MUSANDAM	07:25z	08Sep2016	2.76m
JUWAYRAH	07:41z	08Sep2016	2.14m
HASIK	07:50z	08Sep2016	1.63m
MIRBAT	08:03z	08Sep2016	0.93m
SALALAH	08:10z	08Sep2016	1.14m
DHALKUT	08:18z	08Sep2016	1.66m

PAKISTAN

ORMARA	06:00z	08Sep2016	7.31m
WINDER	06:35z	08Sep2016	3.75m
KARACHI	07:13z	08Sep2016	3.65m
SINDH	07:24z	08Sep2016	3.86m

REUNION

SAINT DENIS	13:21z	08Sep2016	0.64m
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SEYCHELLES

FREGATE ISLAND	10:36z	08Sep2016	1.21m
ILE DESROCHES	10:53z	08Sep2016	1.01m
COETIVY ISLAND	11:18z	08Sep2016	0.63m
TAKAMAKA	11:35z	08Sep2016	1.75m
ASTOVE ISLAND	11:46z	08Sep2016	0.55m
ALDABRA	11:47z	08Sep2016	0.53m
FARQUHAR GROUP	12:27z	08Sep2016	0.52m

SOMALIA

ABO	09:12z	08Sep2016	1.61m
TOOXIN	09:18z	08Sep2016	1.50m
QANDALA	09:21z	08Sep2016	0.93m
BANDER-BEYLA	09:27z	08Sep2016	1.41m
HADAAFTIMO	09:36z	08Sep2016	0.85m
BOSASO	09:39z	08Sep2016	0.86m
EYL	09:39z	08Sep2016	1.09m
JARIIBAN	09:49z	08Sep2016	1.35m
MAYDH	09:52z	08Sep2016	0.72m
GALDOGOB	09:57z	08Sep2016	1.24m
KABURA	10:09z	08Sep2016	0.77m
XARARDHEERE	10:20z	08Sep2016	1.19m
CEEL DHEER	10:33z	08Sep2016	1.42m
MAREEG	10:39z	08Sep2016	1.15m
ITALA	10:39z	08Sep2016	0.78m
BAKI	10:40z	08Sep2016	0.92m
UARSCIECH	10:44z	08Sep2016	0.97m
MUQDISHO	10:51z	08Sep2016	0.85m
SAYLAC	10:52z	08Sep2016	0.90m
BEYNAX BARRE	11:01z	08Sep2016	1.16m
LOYADO	11:05z	08Sep2016	0.62m
BARAAWE	11:10z	08Sep2016	0.85m
JILIB	11:16z	08Sep2016	0.76m
NE BEERNAASI	13:19z	08Sep2016	0.75m
KAAMBOONI	13:30z	08Sep2016	0.78m
TURDHO	14:26z	08Sep2016	0.66m

SRI LANKA

AMBALANGODA	10:46z	08Sep2016	1.10m
BERUWALA	10:56z	08Sep2016	0.83m
MORATUWA	11:01z	08Sep2016	0.80m
GALLE	11:08z	08Sep2016	1.03m
MATARA	11:24z	08Sep2016	1.88m
COLOMBO	11:48z	08Sep2016	1.07m
MUNDAL LAKE	16:45z	08Sep2016	0.64m
NEGOMBO	17:56z	08Sep2016	0.76m
MANNAR ISLAND	19:08z	08Sep2016	0.54m
TANGALLA	20:35z	08Sep2016	0.67m
HAMBANTOTA	20:52z	08Sep2016	0.54m
KIRINDA	21:57z	08Sep2016	0.64m

TANZANIA

VUMBA	12:08z	08Sep2016	0.73m
SONGO SONGO ISLAND	12:32z	08Sep2016	0.80m
RUVU	12:37z	08Sep2016	0.85m
MADANGWA	12:41z	08Sep2016	0.80m
KUTANI	15:58z	08Sep2016	0.56m
MSASANI	16:11z	08Sep2016	0.72m
WEST TO KONDE	20:19z	08Sep2016	0.68m



BOMALANDNI	20:35z	08Sep2016	0.52m
VUMBI	20:36z	08Sep2016	0.69m
GAZIJA	21:34z	08Sep2016	0.57m
JIMBO	22:00z	08Sep2016	0.67m
ZANZIBAR	22:12z	08Sep2016	0.57m

UNITED ARAB EMIRATES

KALBA	06:57z	08Sep2016	2.52m
ZIGGHY BAY	07:14z	08Sep2016	3.13m
ALDAREH	10:28z	08Sep2016	0.79m
DEIRA	11:52z	08Sep2016	1.36m
AL HELIO	18:06z	08Sep2016	0.88m
AL SMALIYAH	18:29z	08Sep2016	0.82m

YEMEN

SOCOTRA ISLAND SOUTH	08:22z	08Sep2016	1.71m
DAMQAWT	08:24z	08Sep2016	1.24m
SOCOTRA ISLAND NORTH	08:31z	08Sep2016	1.62m
AL GHAYDAH AIRPORT	08:36z	08Sep2016	1.76m
SOCOTRA ISLAND WEST	08:45z	08Sep2016	1.32m
HUSWAYN	08:52z	08Sep2016	1.59m
ALQUMRAH	09:02z	08Sep2016	1.32m
MASILAH WADI	09:09z	08Sep2016	1.08m
HARRAH	09:13z	08Sep2016	1.42m
EAST TO HAMI	09:15z	08Sep2016	0.89m
HAMI	09:25z	08Sep2016	1.40m
AL MUKALLA	09:43z	08Sep2016	1.48m
RUDUM	09:43z	08Sep2016	0.81m
KHANFAR	10:35z	08Sep2016	1.12m
ADEN	10:48z	08Sep2016	1.26m
BROM MAYFA	11:00z	08Sep2016	0.95m
QAWAH	11:07z	08Sep2016	0.70m
	11:09z	08Sep2016	1.02m
AHWAR	11:51z	08Sep2016	0.76m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by TSP INDONESIA for this event as more information becomes available.

Other TSPs may issue additional information at:

TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720

Tel.: +62 (21) 4246321/6546316

Fax: +62 (21) 6546316/4246703

P.O. Box 3540 Jakarta

Website: <http://rtsp.bmkg.go.id/publicbull.php>

<http://www.bmkg.go.id>

<http://inatews.bmkg.go.id>

E-Mail: inartsp@bmkg.go.id  
monitrtp@bmkg.go.id

END OF BULLETIN

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 TSUNAMI BULLETIN NUMBER 3 (TYPE-III)  
 IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
 issued at 0640 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
 Depth : 10km  
 Date : 08 Sep 2016  
 Origin Time: 06:00:00 UTC  
 Latitude : 24.80N  
 Longitude : 62.20E  
 Location : Off Coast of Pakistan

### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

### AUSTRALIA

COCOS ISLAND	14:06z 08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z 08Sep2016	0.62m
CARNARVON	17:35z 08Sep2016	0.92m

HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m

KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m

LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z	08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z	08Sep2016	0.52m

NTT MANGGARAI BAGIAN SELATAN

23:57z 08Sep2016

0.50m

IRAN

PUSHT	06:00z	08Sep2016	19.10m
BIR	06:09z	08Sep2016	8.61m
MISKI	07:20z	08Sep2016	6.07m
SAR RIG	08:24z	08Sep2016	4.65m
KUSHK SAR	09:48z	08Sep2016	1.09m
ABU MUSA	09:59z	08Sep2016	1.11m
SIRRI	10:52z	08Sep2016	0.70m

KENYA

KIWAYU	11:32z	08Sep2016	1.43m
MALINDI	12:04z	08Sep2016	1.57m
KIPINI	12:06z	08Sep2016	1.12m
TAKAUNGU	12:09z	08Sep2016	1.37m
KISIMACHANDE	12:10z	08Sep2016	1.31m
MVULENI	12:30z	08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z	08Sep2016	1.01m
ANOROTSANGANA	11:58z	08Sep2016	1.58m
VOHEMAR	12:10z	08Sep2016	2.59m
BALY	12:44z	08Sep2016	0.83m
TAMOTAMO	12:51z	08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z	08Sep2016	0.61m
TAMPOLO	13:25z	08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z	08Sep2016	0.85m
AMBAHY	13:54z	08Sep2016	1.28m
FARAFAGANA	14:10z	08Sep2016	1.35m
MANANTENINA	14:28z	08Sep2016	0.83m
SAMPONA	15:45z	08Sep2016	0.94m
AMBANJA	21:41z	08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z	08Sep2016	5.85m
GOIDHOO	09:33z	08Sep2016	4.01m
FERIDHOO	09:37z	08Sep2016	4.49m
KOLHUFUSHI	09:46z	08Sep2016	3.59m
MALE-NORTH	09:52z	08Sep2016	2.44m
DHIYAMIGILI	09:54z	08Sep2016	3.50m
MALE-SOUTH	09:55z	08Sep2016	3.05m
THINADHOO	10:08z	08Sep2016	4.11m
HITHADHOO	10:19z	08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z	08Sep2016	1.49m
LA FERME	13:06z	08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z	08Sep2016	1.16m
CARGADOS CARAJOS	13:24z	08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z	08Sep2016	0.81m

MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJA	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL Khaburah	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m



QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

## SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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## SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

## TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m
RUVU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m

BAGAMOYO 12:37z 08Sep2016 0.97m

UNITED ARAB EMIRATES

KALBA	06:46z 08Sep2016	4.93m
ZIGGHY BAY	07:02z 08Sep2016	5.58m
ALDAREH	09:54z 08Sep2016	1.88m
AL HELIO	10:16z 08Sep2016	1.80m
DEIRA	11:00z 08Sep2016	2.78m
SIR BU NUAYR	11:41z 08Sep2016	0.72m
AL SMALIYAH	11:44z 08Sep2016	2.16m
DAS ISLAND	20:45z 08Sep2016	0.80m

YEMEN

DAMQAWT	08:17z 08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z 08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z 08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z 08Sep2016	2.73m
HUSWAYN	08:42z 08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z 08Sep2016	2.40m
ALQUMRAH	08:52z 08Sep2016	2.68m
MASILAH WADI	09:01z 08Sep2016	2.15m
HARRAH	09:04z 08Sep2016	2.76m
EAST TO HAMI	09:07z 08Sep2016	1.63m
HAMI	09:17z 08Sep2016	3.84m
AL MUKALLA	09:20z 08Sep2016	3.48m
BROM MAYFA	09:26z 08Sep2016	1.85m
RUDUM	09:32z 08Sep2016	1.52m
AHWAR	09:53z 08Sep2016	1.43m
KHANFAR	10:08z 08Sep2016	3.15m
ADEN	10:26z 08Sep2016	3.12m
	10:32z 08Sep2016	2.78m
QAWAH	10:51z 08Sep2016	1.73m
AL MUALLA	11:19z 08Sep2016	1.22m
YAKHTUL	12:04z 08Sep2016	0.86m
MAWSHIJ	12:59z 08Sep2016	0.83m
AT FUZAH	13:02z 08Sep2016	1.03m
BAYT AL FAQIAH	13:38z 08Sep2016	1.04m
AL HUDAYDAH	19:59z 08Sep2016	0.65m
AL MAN SURIYAH	20:08z 08Sep2016	0.54m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720

Tel.: +62 (21) 4246321/6546316  
Fax: +62 (21) 6546316/4246703  
P.O. Box 3540 Jakarta  
Website: <http://rtsp.bmkg.go.id/publicbull.php>  
<http://www.bmkg.go.id>  
<http://inatews.bmkg.go.id>  
E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)  
[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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 TSUNAMI BULLETIN NUMBER 4 (TYPE-III)  
 IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
 issued at 0700 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
 Depth : 10km  
 Date : 08 Sep 2016  
 Origin Time: 06:00:00 UTC  
 Latitude : 24.80N  
 Longitude : 62.20E  
 Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### AUSTRALIA

COCOS ISLAND	14:06z 08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z 08Sep2016	0.62m

CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m

ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m

NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z	08Sep2016	0.51m

NTB SUMBAWA BAGIAN BARAT	23:54z 08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z 08Sep2016	0.50m

IRAN

PUSHT	06:00z 08Sep2016	19.10m
BIR	06:09z 08Sep2016	8.61m
MISKI	07:20z 08Sep2016	6.07m
SAR RIG	08:24z 08Sep2016	4.65m
KUSHK SAR	09:48z 08Sep2016	1.09m
ABU MUSA	09:59z 08Sep2016	1.11m
SIRRI	10:52z 08Sep2016	0.70m

KENYA

KIWAYU	11:32z 08Sep2016	1.43m
MALINDI	12:04z 08Sep2016	1.57m
KIPINI	12:06z 08Sep2016	1.12m
TAKAUNGU	12:09z 08Sep2016	1.37m
KISIMACHANDE	12:10z 08Sep2016	1.31m
MVULENI	12:30z 08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z 08Sep2016	1.01m
ANOROTSANGANA	11:58z 08Sep2016	1.58m
VOHEMAR	12:10z 08Sep2016	2.59m
BALY	12:44z 08Sep2016	0.83m
TAMOTAMO	12:51z 08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z 08Sep2016	0.61m
TAMPOLO	13:25z 08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z 08Sep2016	0.85m
AMBAHY	13:54z 08Sep2016	1.28m
FARAFAGANA	14:10z 08Sep2016	1.35m
MANANTENINA	14:28z 08Sep2016	0.83m
SAMPONA	15:45z 08Sep2016	0.94m
AMBANJA	21:41z 08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z 08Sep2016	5.85m
GOIDHOO	09:33z 08Sep2016	4.01m
FERIDHOO	09:37z 08Sep2016	4.49m
KOLHUFUSHI	09:46z 08Sep2016	3.59m
MALE-NORTH	09:52z 08Sep2016	2.44m
DHIYAMIGILI	09:54z 08Sep2016	3.50m
MALE-SOUTH	09:55z 08Sep2016	3.05m
THINADHOO	10:08z 08Sep2016	4.11m
HITHADHOO	10:19z 08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z 08Sep2016	1.49m
LA FERME	13:06z 08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z 08Sep2016	1.16m
CARGADOS CARAJOS	13:24z 08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z 08Sep2016	0.81m



MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJÓ	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
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TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m
RUVU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m

BOMALANDNI	12:33z 08Sep2016	0.98m
BAGAMOYO	12:37z 08Sep2016	0.97m

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UNITED ARAB EMIRATES

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KALBA	06:46z 08Sep2016	4.93m
ZIGGHY BAY	07:02z 08Sep2016	5.58m
ALDAREH	09:54z 08Sep2016	1.88m
AL HELIO	10:16z 08Sep2016	1.80m
DEIRA	11:00z 08Sep2016	2.78m
SIR BU NUAYR	11:41z 08Sep2016	0.72m
AL SMALIYAH	11:44z 08Sep2016	2.16m
DAS ISLAND	20:45z 08Sep2016	0.80m

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YEMEN

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DAMQAWT	08:17z 08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z 08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z 08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z 08Sep2016	2.73m
HUSWAYN	08:42z 08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z 08Sep2016	2.40m
ALQUMRAH	08:52z 08Sep2016	2.68m
MASILAH WADI	09:01z 08Sep2016	2.15m
HARRAH	09:04z 08Sep2016	2.76m
EAST TO HAMI	09:07z 08Sep2016	1.63m
HAMI	09:17z 08Sep2016	3.84m
AL MUKALLA	09:20z 08Sep2016	3.48m
BROM MAYFA	09:26z 08Sep2016	1.85m
RUDUM	09:32z 08Sep2016	1.52m
AHWAR	09:53z 08Sep2016	1.43m
KHANFAR	10:08z 08Sep2016	3.15m
ADEN	10:26z 08Sep2016	3.12m
	10:32z 08Sep2016	2.78m
QAWAH	10:51z 08Sep2016	1.73m
AL MUALLA	11:19z 08Sep2016	1.22m
YAKHTUL	12:04z 08Sep2016	0.86m
MAWSHIJ	12:59z 08Sep2016	0.83m
AT FUZAH	13:02z 08Sep2016	1.03m
BAYT AL FAQIAH	13:38z 08Sep2016	1.04m
AL HUDAYDAH	19:59z 08Sep2016	0.65m
AL MAN SURIYAH	20:08z 08Sep2016	0.54m

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4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720  
Tel.: +62 (21) 4246321/6546316  
Fax: +62 (21) 6546316/4246703  
P.O. Box 3540 Jakarta  
Website: <http://rtsp.bmkg.go.id/publicbull.php>  
<http://www.bmkg.go.id>  
<http://inatews.bmkg.go.id>  
E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)  
[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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 TSP-InaTEWS-20160908-0800-005

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 TSUNAMI BULLETIN NUMBER 5 (TYPE-III)  
 IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
 issued at 0800 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
 Depth : 10km  
 Date : 08 Sep 2016  
 Origin Time: 06:00:00 UTC  
 Latitude : 24.80N  
 Longitude : 62.20E  
 Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### AUSTRALIA

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 COCOS ISLAND 14:06z 08Sep2016 0.64m

CHRISTMAS ISLAND	15:08z	08Sep2016	0.62m
CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m

ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m

JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m



NTT FLORES-TIMUR PULAU ADONARA	23:11z 08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z 08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z 08Sep2016	0.50m

IRAN

PUSHT	06:00z 08Sep2016	19.10m
BIR	06:09z 08Sep2016	8.61m
MISKI	07:20z 08Sep2016	6.07m
SAR RIG	08:24z 08Sep2016	4.65m
KUSHK SAR	09:48z 08Sep2016	1.09m
ABU MUSA	09:59z 08Sep2016	1.11m
SIRRI	10:52z 08Sep2016	0.70m

KENYA

KIWAYU	11:32z 08Sep2016	1.43m
MALINDI	12:04z 08Sep2016	1.57m
KIPINI	12:06z 08Sep2016	1.12m
TAKAUNGU	12:09z 08Sep2016	1.37m
KISIMACHANDE	12:10z 08Sep2016	1.31m
MVULENI	12:30z 08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z 08Sep2016	1.01m
ANOROTSANGANA	11:58z 08Sep2016	1.58m
VOHEMAR	12:10z 08Sep2016	2.59m
BALY	12:44z 08Sep2016	0.83m
TAMOTAMO	12:51z 08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z 08Sep2016	0.61m
TAMPOLO	13:25z 08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z 08Sep2016	0.85m
AMBAHY	13:54z 08Sep2016	1.28m
FARAFAGANA	14:10z 08Sep2016	1.35m
MANANTENINA	14:28z 08Sep2016	0.83m
SAMPONA	15:45z 08Sep2016	0.94m
AMBANJA	21:41z 08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z 08Sep2016	5.85m
GOIDHOO	09:33z 08Sep2016	4.01m
FERIDHOO	09:37z 08Sep2016	4.49m
KOLHUFUSHI	09:46z 08Sep2016	3.59m
MALE-NORTH	09:52z 08Sep2016	2.44m
DHIYAMIGILI	09:54z 08Sep2016	3.50m
MALE-SOUTH	09:55z 08Sep2016	3.05m
THINADHOO	10:08z 08Sep2016	4.11m
HITHADHOO	10:19z 08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z 08Sep2016	1.49m
LA FERME	13:06z 08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z 08Sep2016	1.16m
CARGADOS CARAJOS	13:24z 08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z 08Sep2016	0.81m

MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJÓ	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m
RUVU	12:26z	08Sep2016	1.58m

WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m
BAGAMOYO	12:37z	08Sep2016	0.97m

UNITED ARAB EMIRATES

KALBA	06:46z	08Sep2016	4.93m
ZIGGHY BAY	07:02z	08Sep2016	5.58m
ALDAREH	09:54z	08Sep2016	1.88m
AL HELIO	10:16z	08Sep2016	1.80m
DEIRA	11:00z	08Sep2016	2.78m
SIR BU NUAYR	11:41z	08Sep2016	0.72m
AL SMALIYAH	11:44z	08Sep2016	2.16m
DAS ISLAND	20:45z	08Sep2016	0.80m

YEMEN

DAMQAWT	08:17z	08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z	08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z	08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z	08Sep2016	2.73m
HUSWAYN	08:42z	08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z	08Sep2016	2.40m
ALQUMRAH	08:52z	08Sep2016	2.68m
MASILAH WADI	09:01z	08Sep2016	2.15m
HARRAH	09:04z	08Sep2016	2.76m
EAST TO HAMI	09:07z	08Sep2016	1.63m
HAMI	09:17z	08Sep2016	3.84m
AL MUKALLA	09:20z	08Sep2016	3.48m
BROM MAYFA	09:26z	08Sep2016	1.85m
RUDUM	09:32z	08Sep2016	1.52m
AHWAR	09:53z	08Sep2016	1.43m
KHANFAR	10:08z	08Sep2016	3.15m
ADEN	10:26z	08Sep2016	3.12m
	10:32z	08Sep2016	2.78m
QAWAH	10:51z	08Sep2016	1.73m
AL MUALLA	11:19z	08Sep2016	1.22m
YAKHTUL	12:04z	08Sep2016	0.86m
MAWSHIJ	12:59z	08Sep2016	0.83m
AT FUZAH	13:02z	08Sep2016	1.03m
BAYT AL FAQIAH	13:38z	08Sep2016	1.04m
AL HUDAYDAH	19:59z	08Sep2016	0.65m
AL MAN SURIYAH	20:08z	08Sep2016	0.54m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/egevents.jsp>

6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System  
Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720  
Tel.: +62 (21) 4246321/6546316  
Fax: +62 (21) 6546316/4246703  
P.O. Box 3540 Jakarta  
Website: <http://rtsp.bmkg.go.id/publicbull.php>  
<http://www.bmkg.go.id>  
<http://inatews.bmkg.go.id>  
E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)  
[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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TSUNAMI BULLETIN NUMBER 6 (TYPE-III)  
IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
issued at 0900 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
Depth : 10km  
Date : 08 Sep 2016  
Origin Time: 06:00:00 UTC  
Latitude : 24.80N  
Longitude : 62.20E  
Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016
SALALAH	OMAN	16.93N	54.01E	3.0	08:50	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

AUSTRALIA

COCOS ISLAND	14:06z	08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z	08Sep2016	0.62m
CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m

MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m



SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m

SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z	08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z	08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z	08Sep2016	0.50m

IRAN

PUSHT	06:00z	08Sep2016	19.10m
BIR	06:09z	08Sep2016	8.61m
MISKI	07:20z	08Sep2016	6.07m
SAR RIG	08:24z	08Sep2016	4.65m
KUSHK SAR	09:48z	08Sep2016	1.09m
ABU MUSA	09:59z	08Sep2016	1.11m
SIRRI	10:52z	08Sep2016	0.70m

KENYA

KIWAYU	11:32z	08Sep2016	1.43m
MALINDI	12:04z	08Sep2016	1.57m
KIPINI	12:06z	08Sep2016	1.12m
TAKAUNGU	12:09z	08Sep2016	1.37m
KISIMACHANDE	12:10z	08Sep2016	1.31m
MVULENI	12:30z	08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z	08Sep2016	1.01m
ANOROTSANGANA	11:58z	08Sep2016	1.58m
VOHEMAR	12:10z	08Sep2016	2.59m
BALY	12:44z	08Sep2016	0.83m
TAMOTAMO	12:51z	08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z	08Sep2016	0.61m
TAMPOLO	13:25z	08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z	08Sep2016	0.85m
AMBAHY	13:54z	08Sep2016	1.28m
FARAFAGANA	14:10z	08Sep2016	1.35m
MANANTENINA	14:28z	08Sep2016	0.83m
SAMPONA	15:45z	08Sep2016	0.94m
AMBANJA	21:41z	08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z	08Sep2016	5.85m
GOIDHOO	09:33z	08Sep2016	4.01m
FERIDHOO	09:37z	08Sep2016	4.49m
KOLHUFUSHI	09:46z	08Sep2016	3.59m
MALE-NORTH	09:52z	08Sep2016	2.44m
DHIYAMIGILI	09:54z	08Sep2016	3.50m
MALE-SOUTH	09:55z	08Sep2016	3.05m
THINADHOO	10:08z	08Sep2016	4.11m
HITHADHOO	10:19z	08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z	08Sep2016	1.49m
LA FERME	13:06z	08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z	08Sep2016	1.16m
CARGADOS CARAJOS	13:24z	08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z	08Sep2016	0.81m

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MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJÓ	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

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OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

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PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

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REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

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SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m

RUVU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m
BAGAMOYO	12:37z	08Sep2016	0.97m

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UNITED ARAB EMIRATES

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KALBA	06:46z	08Sep2016	4.93m
ZIGGHY BAY	07:02z	08Sep2016	5.58m
ALDAREH	09:54z	08Sep2016	1.88m
AL HELIO	10:16z	08Sep2016	1.80m
DEIRA	11:00z	08Sep2016	2.78m
SIR BU NUAYR	11:41z	08Sep2016	0.72m
AL SMALIYAH	11:44z	08Sep2016	2.16m
DAS ISLAND	20:45z	08Sep2016	0.80m

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YEMEN

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DAMQAWT	08:17z	08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z	08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z	08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z	08Sep2016	2.73m
HUSWAYN	08:42z	08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z	08Sep2016	2.40m
ALQUMRAH	08:52z	08Sep2016	2.68m
MASILAH WADI	09:01z	08Sep2016	2.15m
HARRAH	09:04z	08Sep2016	2.76m
EAST TO HAMI	09:07z	08Sep2016	1.63m
HAMI	09:17z	08Sep2016	3.84m
AL MUKALLA	09:20z	08Sep2016	3.48m
BROM MAYFA	09:26z	08Sep2016	1.85m
RUDUM	09:32z	08Sep2016	1.52m
AHWAR	09:53z	08Sep2016	1.43m
KHANFAR	10:08z	08Sep2016	3.15m
ADEN	10:26z	08Sep2016	3.12m
	10:32z	08Sep2016	2.78m
QAWAH	10:51z	08Sep2016	1.73m
AL MUALLA	11:19z	08Sep2016	1.22m
YAKHTUL	12:04z	08Sep2016	0.86m
MAWSHIJ	12:59z	08Sep2016	0.83m
AT FUZAH	13:02z	08Sep2016	1.03m
BAYT AL FAQIAH	13:38z	08Sep2016	1.04m
AL HUDAYDAH	19:59z	08Sep2016	0.65m
AL MAN SURIYAH	20:08z	08Sep2016	0.54m

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4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsfp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/egevents.jsp>

6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)  
InaTEWS - Indonesian Tsunami Early Warning System  
Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720  
Tel.: +62 (21) 4246321/6546316  
Fax: +62 (21) 6546316/4246703  
P.O. Box 3540 Jakarta  
Website: <http://rtsp.bmkg.go.id/publicbull.php>  
<http://www.bmkg.go.id>  
<http://inatews.bmkg.go.id>  
E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)  
[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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 TSP-InaTEWS-20160908-1000-007

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 TSUNAMI BULLETIN NUMBER 7 (TYPE-III)  
 IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
 issued at 1000 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
 Depth : 10km  
 Date : 08 Sep 2016  
 Origin Time: 06:00:00 UTC  
 Latitude : 24.80N  
 Longitude : 62.20E  
 Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016
SALALAH	OMAN	16.93N	54.01E	3.0	08:50	Sep 08, 2016
MINICOY	INDIA	08.28N	73.05E	2.0	09:30	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

AUSTRALIA

COCOS ISLAND	14:06z	08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z	08Sep2016	0.62m
CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m



PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m

SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m

NTT NGADA BAGIAN SELATAN	22:42z 08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z 08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z 08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z 08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z 08Sep2016	0.50m

IRAN

PUSHT	06:00z 08Sep2016	19.10m
BIR	06:09z 08Sep2016	8.61m
MISKI	07:20z 08Sep2016	6.07m
SAR RIG	08:24z 08Sep2016	4.65m
KUSHK SAR	09:48z 08Sep2016	1.09m
ABU MUSA	09:59z 08Sep2016	1.11m
SIRRI	10:52z 08Sep2016	0.70m

KENYA

KIWAYU	11:32z 08Sep2016	1.43m
MALINDI	12:04z 08Sep2016	1.57m
KIPINI	12:06z 08Sep2016	1.12m
TAKAUNGU	12:09z 08Sep2016	1.37m
KISIMACHANDE	12:10z 08Sep2016	1.31m
MVULENI	12:30z 08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z 08Sep2016	1.01m
ANOROTSANGANA	11:58z 08Sep2016	1.58m
VOHEMAR	12:10z 08Sep2016	2.59m
BALY	12:44z 08Sep2016	0.83m
TAMOTAMO	12:51z 08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z 08Sep2016	0.61m
TAMPOLO	13:25z 08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z 08Sep2016	0.85m
AMBAHY	13:54z 08Sep2016	1.28m
FARAFAGANA	14:10z 08Sep2016	1.35m
MANANTENINA	14:28z 08Sep2016	0.83m
SAMPONA	15:45z 08Sep2016	0.94m
AMBANJA	21:41z 08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z 08Sep2016	5.85m
GOIDHOO	09:33z 08Sep2016	4.01m
FERIDHOO	09:37z 08Sep2016	4.49m
KOLHUFUSHI	09:46z 08Sep2016	3.59m
MALE-NORTH	09:52z 08Sep2016	2.44m
DHIYAMIGILI	09:54z 08Sep2016	3.50m
MALE-SOUTH	09:55z 08Sep2016	3.05m
THINADHOO	10:08z 08Sep2016	4.11m
HITHADHOO	10:19z 08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z 08Sep2016	1.49m
LA FERME	13:06z 08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z 08Sep2016	1.16m
CARGADOS CARAJOS	13:24z 08Sep2016	1.31m

GRANDE REVIERE SUD EST-EAST 13:27z 08Sep2016 0.81m

MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJA	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m

MADANGWA	12:25z	08Sep2016	1.48m
RUVU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m
BAGAMOYO	12:37z	08Sep2016	0.97m

UNITED ARAB EMIRATES

KALBA	06:46z	08Sep2016	4.93m
ZIGGHY BAY	07:02z	08Sep2016	5.58m
ALDAREH	09:54z	08Sep2016	1.88m
AL HELIO	10:16z	08Sep2016	1.80m
DEIRA	11:00z	08Sep2016	2.78m
SIR BU NUAYR	11:41z	08Sep2016	0.72m
AL SMALIYAH	11:44z	08Sep2016	2.16m
DAS ISLAND	20:45z	08Sep2016	0.80m

YEMEN

DAMQAWT	08:17z	08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z	08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z	08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z	08Sep2016	2.73m
HUSWAYN	08:42z	08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z	08Sep2016	2.40m
ALQUMRAH	08:52z	08Sep2016	2.68m
MASILAH WADI	09:01z	08Sep2016	2.15m
HARRAH	09:04z	08Sep2016	2.76m
EAST TO HAMI	09:07z	08Sep2016	1.63m
HAMI	09:17z	08Sep2016	3.84m
AL MUKALLA	09:20z	08Sep2016	3.48m
BROM MAYFA	09:26z	08Sep2016	1.85m
RUDUM	09:32z	08Sep2016	1.52m
AHWAR	09:53z	08Sep2016	1.43m
KHANFAR	10:08z	08Sep2016	3.15m
ADEN	10:26z	08Sep2016	3.12m
	10:32z	08Sep2016	2.78m
QAWAH	10:51z	08Sep2016	1.73m
AL MUALLA	11:19z	08Sep2016	1.22m
YAKHTUL	12:04z	08Sep2016	0.86m
MAWSHIJ	12:59z	08Sep2016	0.83m
AT FUZAH	13:02z	08Sep2016	1.03m
BAYT AL FAQIAH	13:38z	08Sep2016	1.04m
AL HUDAYDAH	19:59z	08Sep2016	0.65m
AL MAN SURIYAH	20:08z	08Sep2016	0.54m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720

Tel.: +62 (21) 4246321/6546316

Fax: +62 (21) 6546316/4246703

P.O. Box 3540 Jakarta

Website: <http://rtsp.bmkg.go.id/publicbull.php>

<http://www.bmkg.go.id>

<http://inatews.bmkg.go.id>

E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)

[monitrtwp@bmkg.go.id](mailto:monitrtwp@bmkg.go.id)

END OF BULLETIN

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TSUNAMI BULLETIN NUMBER 8 (TYPE-III)  
IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
issued at 1100 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
Depth : 10km  
Date : 08 Sep 2016  
Origin Time: 06:00:00 UTC  
Latitude : 24.80N  
Longitude : 62.20E  
Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016
SALALAH	OMAN	16.93N	54.01E	3.0	08:50	Sep 08, 2016
MINICOY	INDIA	08.28N	73.05E	2.0	09:30	Sep 08, 2016
MALE	MALDIVES	04.19N	73.53E	1.5	10:10	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.



AUSTRALIA

COCOS ISLAND	14:06z	08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z	08Sep2016	0.62m
CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m

MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m

NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRACKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m

BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z	08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z	08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z	08Sep2016	0.50m

IRAN

PUSHT	06:00z	08Sep2016	19.10m
BIR	06:09z	08Sep2016	8.61m
MISKI	07:20z	08Sep2016	6.07m
SAR RIG	08:24z	08Sep2016	4.65m
KUSHK SAR	09:48z	08Sep2016	1.09m
ABU MUSA	09:59z	08Sep2016	1.11m
SIRRI	10:52z	08Sep2016	0.70m

KENYA

KIWAYU	11:32z	08Sep2016	1.43m
MALINDI	12:04z	08Sep2016	1.57m
KIPINI	12:06z	08Sep2016	1.12m
TAKAUNGU	12:09z	08Sep2016	1.37m
KISIMACHANDE	12:10z	08Sep2016	1.31m
MVULENI	12:30z	08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z	08Sep2016	1.01m
ANOROTSANGANA	11:58z	08Sep2016	1.58m
VOHEMAR	12:10z	08Sep2016	2.59m
BALY	12:44z	08Sep2016	0.83m
TAMOTAMO	12:51z	08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z	08Sep2016	0.61m
TAMPOLO	13:25z	08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z	08Sep2016	0.85m
AMBAHY	13:54z	08Sep2016	1.28m
FARAFAGANA	14:10z	08Sep2016	1.35m
MANANTENINA	14:28z	08Sep2016	0.83m
SAMPONA	15:45z	08Sep2016	0.94m
AMBANJA	21:41z	08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z	08Sep2016	5.85m
GOIDHOO	09:33z	08Sep2016	4.01m
FERIDHOO	09:37z	08Sep2016	4.49m
KOLHUFUSHI	09:46z	08Sep2016	3.59m
MALE-NORTH	09:52z	08Sep2016	2.44m
DHIYAMIGILI	09:54z	08Sep2016	3.50m
MALE-SOUTH	09:55z	08Sep2016	3.05m
THINADHOO	10:08z	08Sep2016	4.11m
HITHADHOO	10:19z	08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z	08Sep2016	1.49m
LA FERME	13:06z	08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z	08Sep2016	1.16m

CARGADOS CARAJOS	13:24z	08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z	08Sep2016	0.81m

MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJO	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m

MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m
RUVU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m
BAGAMOYO	12:37z	08Sep2016	0.97m

UNITED ARAB EMIRATES

KALBA	06:46z	08Sep2016	4.93m
ZIGGHY BAY	07:02z	08Sep2016	5.58m
ALDAREH	09:54z	08Sep2016	1.88m
AL HELIO	10:16z	08Sep2016	1.80m
DEIRA	11:00z	08Sep2016	2.78m
SIR BU NUAYR	11:41z	08Sep2016	0.72m
AL SMALIYAH	11:44z	08Sep2016	2.16m
DAS ISLAND	20:45z	08Sep2016	0.80m

YEMEN

DAMQAWT	08:17z	08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z	08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z	08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z	08Sep2016	2.73m
HUSWAYN	08:42z	08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z	08Sep2016	2.40m
ALQUMRAH	08:52z	08Sep2016	2.68m
MASILAH WADI	09:01z	08Sep2016	2.15m
HARRAH	09:04z	08Sep2016	2.76m
EAST TO HAMI	09:07z	08Sep2016	1.63m
HAMI	09:17z	08Sep2016	3.84m
AL MUKALLA	09:20z	08Sep2016	3.48m
BROM MAYFA	09:26z	08Sep2016	1.85m
RUDUM	09:32z	08Sep2016	1.52m
AHWAR	09:53z	08Sep2016	1.43m
KHANFAR	10:08z	08Sep2016	3.15m
ADEN	10:26z	08Sep2016	3.12m
	10:32z	08Sep2016	2.78m
QAWAH	10:51z	08Sep2016	1.73m
AL MUALLA	11:19z	08Sep2016	1.22m
YAKHTUL	12:04z	08Sep2016	0.86m
MAWSHIJ	12:59z	08Sep2016	0.83m
AT FUZAH	13:02z	08Sep2016	1.03m
BAYT AL FAQIAH	13:38z	08Sep2016	1.04m
AL HUDAYDAH	19:59z	08Sep2016	0.65m
AL MAN SURIYAH	20:08z	08Sep2016	0.54m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/egevents.jsp>

6. CONTACT INFORMATION

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<http://www.bmkg.go.id>

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END OF BULLETIN

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TSUNAMI BULLETIN NUMBER 9 (TYPE-III)  
IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
issued at 1200 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
Depth : 10km  
Date : 08 Sep 2016  
Origin Time: 06:00:00 UTC  
Latitude : 24.80N  
Longitude : 62.20E  
Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016
SALALAH	OMAN	16.93N	54.01E	3.0	08:50	Sep 08, 2016
MINICOY	INDIA	08.28N	73.05E	2.0	09:30	Sep 08, 2016
MALE	MALDIVES	04.19N	73.53E	1.5	10:10	Sep 08, 2016
COLOMBO	SRI LANKA	06.95N	79.85E	1.0	11:20	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

AUSTRALIA

COCOS ISLAND	14:06z	08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z	08Sep2016	0.62m
CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m

KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m

LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m

SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z	08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z	08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z	08Sep2016	0.50m

IRAN

PUSHT	06:00z	08Sep2016	19.10m
BIR	06:09z	08Sep2016	8.61m
MISKI	07:20z	08Sep2016	6.07m
SAR RIG	08:24z	08Sep2016	4.65m
KUSHK SAR	09:48z	08Sep2016	1.09m
ABU MUSA	09:59z	08Sep2016	1.11m
SIRRI	10:52z	08Sep2016	0.70m

KENYA

KIWAYU	11:32z	08Sep2016	1.43m
MALINDI	12:04z	08Sep2016	1.57m
KIPINI	12:06z	08Sep2016	1.12m
TAKAUNGU	12:09z	08Sep2016	1.37m
KISIMACHANDE	12:10z	08Sep2016	1.31m
MVULENI	12:30z	08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z	08Sep2016	1.01m
ANOROTSANGANA	11:58z	08Sep2016	1.58m
VOHEMAR	12:10z	08Sep2016	2.59m
BALY	12:44z	08Sep2016	0.83m
TAMOTAMO	12:51z	08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z	08Sep2016	0.61m
TAMPOLO	13:25z	08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z	08Sep2016	0.85m
AMBAHY	13:54z	08Sep2016	1.28m
FARAFAGANA	14:10z	08Sep2016	1.35m
MANANTENINA	14:28z	08Sep2016	0.83m
SAMPONA	15:45z	08Sep2016	0.94m
AMBANJA	21:41z	08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z	08Sep2016	5.85m
GOIDHOO	09:33z	08Sep2016	4.01m
FERIDHOO	09:37z	08Sep2016	4.49m
KOLHUFUSHI	09:46z	08Sep2016	3.59m
MALE-NORTH	09:52z	08Sep2016	2.44m
DHIYAMIGILI	09:54z	08Sep2016	3.50m
MALE-SOUTH	09:55z	08Sep2016	3.05m
THINADHOO	10:08z	08Sep2016	4.11m
HITHADHOO	10:19z	08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z	08Sep2016	1.49m
LA FERME	13:06z	08Sep2016	1.72m

GRANDE REVIERE SUD EST-WEST	13:12z	08Sep2016	1.16m
CARGADOS CARAJOS	13:24z	08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z	08Sep2016	0.81m

MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJO	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m

SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m
RUVU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m
BAGAMOYO	12:37z	08Sep2016	0.97m

UNITED ARAB EMIRATES

KALBA	06:46z	08Sep2016	4.93m
ZIGGHY BAY	07:02z	08Sep2016	5.58m
ALDAREH	09:54z	08Sep2016	1.88m
AL HELIO	10:16z	08Sep2016	1.80m
DEIRA	11:00z	08Sep2016	2.78m
SIR BU NUAYR	11:41z	08Sep2016	0.72m
AL SMALIYAH	11:44z	08Sep2016	2.16m
DAS ISLAND	20:45z	08Sep2016	0.80m

YEMEN

DAMQAWT	08:17z	08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z	08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z	08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z	08Sep2016	2.73m
HUSWAYN	08:42z	08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z	08Sep2016	2.40m
ALQUMRAH	08:52z	08Sep2016	2.68m
MASILAH WADI	09:01z	08Sep2016	2.15m
HARRAH	09:04z	08Sep2016	2.76m
EAST TO HAMI	09:07z	08Sep2016	1.63m
HAMI	09:17z	08Sep2016	3.84m
AL MUKALLA	09:20z	08Sep2016	3.48m
BROM MAYFA	09:26z	08Sep2016	1.85m
RUDUM	09:32z	08Sep2016	1.52m
AHWAR	09:53z	08Sep2016	1.43m
KHANFAR	10:08z	08Sep2016	3.15m
ADEN	10:26z	08Sep2016	3.12m
	10:32z	08Sep2016	2.78m
QAWAH	10:51z	08Sep2016	1.73m
AL MUALLA	11:19z	08Sep2016	1.22m
YAKHTUL	12:04z	08Sep2016	0.86m
MAWSHIJ	12:59z	08Sep2016	0.83m
AT FUZAH	13:02z	08Sep2016	1.03m
BAYT AL FAQIAH	13:38z	08Sep2016	1.04m
AL HUDAYDAH	19:59z	08Sep2016	0.65m
AL MAN SURIYAH	20:08z	08Sep2016	0.54m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/egevents.jsp>



6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720

Tel.: +62 (21) 4246321/6546316

Fax: +62 (21) 6546316/4246703

P.O. Box 3540 Jakarta

Website: <http://rtsp.bmkg.go.id/publicbull.php>

<http://www.bmkg.go.id>

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E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)

[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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 TSUNAMI BULLETIN NUMBER 10 (TYPE-III)  
 IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
 issued at 1300 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
 Depth : 10km  
 Date : 08 Sep 2016  
 Origin Time: 06:00:00 UTC  
 Latitude : 24.80N  
 Longitude : 62.20E  
 Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016
SALALAH	OMAN	16.93N	54.01E	3.0	08:50	Sep 08, 2016
MINICOY	INDIA	08.28N	73.05E	2.0	09:30	Sep 08, 2016
MALE	MALDIVES	04.19N	73.53E	1.5	10:10	Sep 08, 2016
COLOMBO	SRI LANKA	06.95N	79.85E	1.0	11:20	Sep 08, 2016
PORT LARUE	SEYCHELLES	04.50S	55.50E	2.0	12:00	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

AUSTRALIA

COCOS ISLAND	14:06z	08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z	08Sep2016	0.62m
CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m

AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m

LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m

JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z	08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z	08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z	08Sep2016	0.50m

IRAN

PUSHT	06:00z	08Sep2016	19.10m
BIR	06:09z	08Sep2016	8.61m
MISKI	07:20z	08Sep2016	6.07m
SAR RIG	08:24z	08Sep2016	4.65m
KUSHK SAR	09:48z	08Sep2016	1.09m
ABU MUSA	09:59z	08Sep2016	1.11m
SIRRI	10:52z	08Sep2016	0.70m

KENYA

KIWAYU	11:32z	08Sep2016	1.43m
MALINDI	12:04z	08Sep2016	1.57m
KIPINI	12:06z	08Sep2016	1.12m
TAKAUNGU	12:09z	08Sep2016	1.37m
KISIMACHANDE	12:10z	08Sep2016	1.31m
MVULENI	12:30z	08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z	08Sep2016	1.01m
ANOROTSANGANA	11:58z	08Sep2016	1.58m
VOHEMAR	12:10z	08Sep2016	2.59m
BALY	12:44z	08Sep2016	0.83m
TAMOTAMO	12:51z	08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z	08Sep2016	0.61m
TAMPOLO	13:25z	08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z	08Sep2016	0.85m
AMBAHY	13:54z	08Sep2016	1.28m
FARAFAGANA	14:10z	08Sep2016	1.35m
MANANTENINA	14:28z	08Sep2016	0.83m
SAMPONA	15:45z	08Sep2016	0.94m
AMBANJA	21:41z	08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z	08Sep2016	5.85m
GOIDHOO	09:33z	08Sep2016	4.01m
FERIDHOO	09:37z	08Sep2016	4.49m
KOLHUFUSHI	09:46z	08Sep2016	3.59m
MALE-NORTH	09:52z	08Sep2016	2.44m
DHIYAMIGILI	09:54z	08Sep2016	3.50m
MALE-SOUTH	09:55z	08Sep2016	3.05m
THINADHOO	10:08z	08Sep2016	4.11m
HITHADHOO	10:19z	08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z	08Sep2016	1.49m
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LA FERME	13:06z	08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z	08Sep2016	1.16m
CARGADOS CARAJOS	13:24z	08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z	08Sep2016	0.81m

MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJO	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m

FARQUHAR GROUP 11:44z 08Sep2016 0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE 21:21z 08Sep2016 0.51m

SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m



GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m
RUVU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m
BAGAMOYO	12:37z	08Sep2016	0.97m

UNITED ARAB EMIRATES

KALBA	06:46z	08Sep2016	4.93m
ZIGGHY BAY	07:02z	08Sep2016	5.58m
ALDAREH	09:54z	08Sep2016	1.88m
AL HELIO	10:16z	08Sep2016	1.80m
DEIRA	11:00z	08Sep2016	2.78m
SIR BU NUAYR	11:41z	08Sep2016	0.72m
AL SMALIYAH	11:44z	08Sep2016	2.16m
DAS ISLAND	20:45z	08Sep2016	0.80m

YEMEN

DAMQAWT	08:17z	08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z	08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z	08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z	08Sep2016	2.73m
HUSWAYN	08:42z	08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z	08Sep2016	2.40m
ALQUMRAH	08:52z	08Sep2016	2.68m
MASILAH WADI	09:01z	08Sep2016	2.15m
HARRAH	09:04z	08Sep2016	2.76m
EAST TO HAMI	09:07z	08Sep2016	1.63m
HAMI	09:17z	08Sep2016	3.84m
AL MUKALLA	09:20z	08Sep2016	3.48m
BROM MAYFA	09:26z	08Sep2016	1.85m
RUDUM	09:32z	08Sep2016	1.52m
AHWAR	09:53z	08Sep2016	1.43m
KHANFAR	10:08z	08Sep2016	3.15m
ADEN	10:26z	08Sep2016	3.12m
	10:32z	08Sep2016	2.78m
QAWAH	10:51z	08Sep2016	1.73m
AL MUALLA	11:19z	08Sep2016	1.22m
YAKHTUL	12:04z	08Sep2016	0.86m
MAWSHIJ	12:59z	08Sep2016	0.83m
AT FUZAH	13:02z	08Sep2016	1.03m
BAYT AL FAQIAH	13:38z	08Sep2016	1.04m
AL HUDAYDAH	19:59z	08Sep2016	0.65m
AL MAN SURIYAH	20:08z	08Sep2016	0.54m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:  
IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720

Tel.: +62 (21) 4246321/6546316

Fax: +62 (21) 6546316/4246703

P.O. Box 3540 Jakarta

Website: <http://rtsp.bmkg.go.id/publicbull.php>

<http://www.bmkg.go.id>

<http://inatews.bmkg.go.id>

E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)

[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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 TSUNAMI BULLETIN NUMBER 11 (TYPE-III)  
 IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
 issued at 1400 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
 Depth : 10km  
 Date : 08 Sep 2016  
 Origin Time: 06:00:00 UTC  
 Latitude : 24.80N  
 Longitude : 62.20E  
 Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016
SALALAH	OMAN	16.93N	54.01E	3.0	08:50	Sep 08, 2016
MINICOY	INDIA	08.28N	73.05E	2.0	09:30	Sep 08, 2016
MALE	MALDIVES	04.19N	73.53E	1.5	10:10	Sep 08, 2016
COLOMBO	SRI LANKA	06.95N	79.85E	1.0	11:20	Sep 08, 2016
PORT LARUE	SEYCHELLES	04.50S	55.50E	2.0	12:00	Sep 08, 2016
TOAMASINA	MADAGASCAR	18.15S	49.43E	1.0	13:10	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local

authorities.

AUSTRALIA

COCOS ISLAND	14:06z	08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z	08Sep2016	0.62m
CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m
VERAVAL	08:13z	08Sep2016	3.69m

AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m
NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m

LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m
SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m

BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z	08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z	08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z	08Sep2016	0.50m

IRAN

PUSHT	06:00z	08Sep2016	19.10m
BIR	06:09z	08Sep2016	8.61m
MISKI	07:20z	08Sep2016	6.07m
SAR RIG	08:24z	08Sep2016	4.65m
KUSHK SAR	09:48z	08Sep2016	1.09m
ABU MUSA	09:59z	08Sep2016	1.11m
SIRRI	10:52z	08Sep2016	0.70m

KENYA

KIWAYU	11:32z	08Sep2016	1.43m
MALINDI	12:04z	08Sep2016	1.57m
KIPINI	12:06z	08Sep2016	1.12m
TAKAUNGU	12:09z	08Sep2016	1.37m
KISIMACHANDE	12:10z	08Sep2016	1.31m
MVULENI	12:30z	08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z	08Sep2016	1.01m
ANOROTSANGANA	11:58z	08Sep2016	1.58m
VOHEMAR	12:10z	08Sep2016	2.59m
BALY	12:44z	08Sep2016	0.83m
TAMOTAMO	12:51z	08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z	08Sep2016	0.61m
TAMPOLO	13:25z	08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z	08Sep2016	0.85m
AMBAHY	13:54z	08Sep2016	1.28m
FARAFAGANA	14:10z	08Sep2016	1.35m
MANANTENINA	14:28z	08Sep2016	0.83m
SAMPONA	15:45z	08Sep2016	0.94m
AMBANJA	21:41z	08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z	08Sep2016	5.85m
GOIDHOO	09:33z	08Sep2016	4.01m
FERIDHOO	09:37z	08Sep2016	4.49m
KOLHUFUSHI	09:46z	08Sep2016	3.59m
MALE-NORTH	09:52z	08Sep2016	2.44m
DHIYAMIGILI	09:54z	08Sep2016	3.50m
MALE-SOUTH	09:55z	08Sep2016	3.05m
THINADHOO	10:08z	08Sep2016	4.11m
HITHADHOO	10:19z	08Sep2016	2.95m

MAURITIUS

AGALEGA ISLAND	11:43z	08Sep2016	1.49m
LA FERME	13:06z	08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z	08Sep2016	1.16m
CARGADOS CARAJOS	13:24z	08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z	08Sep2016	0.81m

MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJO	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m
ASTOVE ISLAND	11:34z	08Sep2016	0.94m



ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m
KUTANI	12:18z	08Sep2016	1.30m

JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m
RUUU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m
BAGAMOYO	12:37z	08Sep2016	0.97m

UNITED ARAB EMIRATES

KALBA	06:46z	08Sep2016	4.93m
ZIGGHY BAY	07:02z	08Sep2016	5.58m
ALDAREH	09:54z	08Sep2016	1.88m
AL HELIO	10:16z	08Sep2016	1.80m
DEIRA	11:00z	08Sep2016	2.78m
SIR BU NUAYR	11:41z	08Sep2016	0.72m
AL SMALIYAH	11:44z	08Sep2016	2.16m
DAS ISLAND	20:45z	08Sep2016	0.80m

YEMEN

DAMQAWT	08:17z	08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z	08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z	08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z	08Sep2016	2.73m
HUSWAYN	08:42z	08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z	08Sep2016	2.40m
ALQUMRAH	08:52z	08Sep2016	2.68m
MASILAH WADI	09:01z	08Sep2016	2.15m
HARRAH	09:04z	08Sep2016	2.76m
EAST TO HAMI	09:07z	08Sep2016	1.63m
HAMI	09:17z	08Sep2016	3.84m
AL MUKALLA	09:20z	08Sep2016	3.48m
BROM MAYFA	09:26z	08Sep2016	1.85m
RUDUM	09:32z	08Sep2016	1.52m
AHWAR	09:53z	08Sep2016	1.43m
KHANFAR	10:08z	08Sep2016	3.15m
ADEN	10:26z	08Sep2016	3.12m
	10:32z	08Sep2016	2.78m
QAWAH	10:51z	08Sep2016	1.73m
AL MUALLA	11:19z	08Sep2016	1.22m
YAKHTUL	12:04z	08Sep2016	0.86m
MAWSHIJ	12:59z	08Sep2016	0.83m
AT FUZAH	13:02z	08Sep2016	1.03m
BAYT AL FAQIAH	13:38z	08Sep2016	1.04m
AL HUDAYDAH	19:59z	08Sep2016	0.65m
AL MAN SURIYAH	20:08z	08Sep2016	0.54m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720

Tel.: +62 (21) 4246321/6546316

Fax: +62 (21) 6546316/4246703

P.O. Box 3540 Jakarta

Website: <http://rtsp.bmkg.go.id/publicbull.php>

<http://www.bmkg.go.id>

<http://inatews.bmkg.go.id>

E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)

[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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 TSUNAMI BULLETIN NUMBER 12 (TYPE-III)  
 IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
 issued at 1500 UTC, Thursday, 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION (updated)

IOTWS-TSP INDONESIA has detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
 Depth : 10km  
 Date : 08 Sep 2016  
 Origin Time: 06:00:00 UTC  
 Latitude : 24.80N  
 Longitude : 62.20E  
 Location : Off Coast of Pakistan

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016
SALALAH	OMAN	16.93N	54.01E	3.0	08:50	Sep 08, 2016
MINICOY	INDIA	08.28N	73.05E	2.0	09:30	Sep 08, 2016
MALE	MALDIVES	04.19N	73.53E	1.5	10:10	Sep 08, 2016
COLOMBO	SRI LANKA	06.95N	79.85E	1.0	11:20	Sep 08, 2016
PORT LARUE	SEYCHELLES	04.50S	55.50E	2.0	12:00	Sep 08, 2016
TOAMASINA	MADAGASCAR	18.15S	49.43E	1.0	13:10	Sep 08, 2016
COCOS	AUSTRALIA	12.12S	96.89E	0.3	14:30	Sep 08, 2016

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national

warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### AUSTRALIA

COCOS ISLAND	14:06z	08Sep2016	0.64m
CHRISTMAS ISLAND	15:08z	08Sep2016	0.62m
CARNARVON	17:35z	08Sep2016	0.92m
HAMELIN POOL	17:37z	08Sep2016	1.18m
BORROW ISLAND	17:43z	08Sep2016	0.90m
YALLINGUP	18:12z	08Sep2016	0.81m
KALBARRI	18:18z	08Sep2016	0.74m
KUDARDUP	18:26z	08Sep2016	1.08m
PORT HEADLAND	18:27z	08Sep2016	0.71m
WINDY HARBOUR	18:48z	08Sep2016	0.77m
DARDANUP	19:25z	08Sep2016	0.73m
LEARMONTH	21:37z	08Sep2016	0.55m
DEGREY	21:37z	08Sep2016	0.53m
WALKAWAY	21:46z	08Sep2016	0.71m
MOONYOONOOKA	22:39z	08Sep2016	0.65m
MANDURAH	22:54z	08Sep2016	0.63m
PADBURY	22:57z	08Sep2016	0.53m
YANCHEP	22:58z	08Sep2016	0.57m
PORT DENISON	23:09z	08Sep2016	0.83m
ROCKINGHAM	23:12z	08Sep2016	0.56m
WINCHESTER	23:27z	08Sep2016	0.62m
IRWIN	23:47z	08Sep2016	0.54m

#### BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	10:54z	08Sep2016	3.04m
NW EGMONT ISLAND	11:05z	08Sep2016	2.46m
DIEGO GARCIA	11:30z	08Sep2016	2.92m

#### COMOROS

CHEZANI	12:10z	08Sep2016	0.92m
BAMBAO	12:11z	08Sep2016	1.14m
FOMBONI	12:14z	08Sep2016	1.19m
DZAOUDZI	12:16z	08Sep2016	0.98m

#### DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	10:55z	08Sep2016	1.74m
NW ARTA	10:59z	08Sep2016	3.66m
ALAILI DADDA	11:20z	08Sep2016	1.28m

#### FRENCH SOUTHERN AND ANTARCTIC LA

LLE SAINT-PAUL-NORTH	16:20z	08Sep2016	1.63m
LLE SAINT-PAUL-SOUTH	16:36z	08Sep2016	0.94m
AND ANTARCTIC LANDS	18:34z	08Sep2016	3.70m

#### INDIA

MANDVI	07:47z	08Sep2016	4.59m
DWARKA	07:55z	08Sep2016	4.32m
PORBANDAR	07:57z	08Sep2016	2.75m

VERAVAL	08:13z	08Sep2016	3.69m
AGATTI	08:44z	08Sep2016	4.23m
AMINI	08:48z	08Sep2016	4.89m
KAVARATTI	08:56z	08Sep2016	1.80m
MALVAN BAY	08:58z	08Sep2016	2.53m
PANAJI	09:09z	08Sep2016	2.89m
MINICOY	09:11z	08Sep2016	2.27m
ANDROTH	09:12z	08Sep2016	3.07m
ANJANWEL	09:13z	08Sep2016	3.64m
KARWAR	09:19z	08Sep2016	3.70m
ALIBAG PORT	09:36z	08Sep2016	2.95m
MANGALORE	09:43z	08Sep2016	3.10m
UDUPI	09:45z	08Sep2016	3.34m
VIRAR	09:46z	08Sep2016	3.13m
CHANDRAGIRI FORT	09:46z	08Sep2016	2.96m
MUMBAI	09:49z	08Sep2016	3.46m
AMRELI	09:53z	08Sep2016	3.35m
MADAYI KANNUR	09:54z	08Sep2016	2.95m
MAHUVA	09:55z	08Sep2016	3.32m
ALLEPPEY ALAPPUZHA	09:58z	08Sep2016	2.56m
BORSI	10:00z	08Sep2016	3.33m
MANATTALA	10:01z	08Sep2016	2.69m
TIRURANGADI	10:02z	08Sep2016	2.77m
QUILON	10:02z	08Sep2016	2.65m
BEYPORE	10:04z	08Sep2016	2.80m
COCHIN	10:08z	08Sep2016	2.98m
DAMAN	10:14z	08Sep2016	2.75m
TRIVANDRUM	10:15z	08Sep2016	2.57m
KANYAKUMARI	10:26z	08Sep2016	2.56m
KOODANKULAM	11:03z	08Sep2016	2.42m
RAMESWARAM	11:09z	08Sep2016	1.07m
TUTICORIN	11:29z	08Sep2016	2.22m
KOMATRA AND KATCHAL ISLAND	13:50z	08Sep2016	1.09m
LITTLE ANDAMAN	13:52z	08Sep2016	0.82m
INDIRA POINT	16:00z	08Sep2016	0.92m
NORTH SENTINEL ISLAND	16:19z	08Sep2016	0.97m
CAR NICOBAR	17:38z	08Sep2016	0.75m
FLAT ISLAND	18:23z	08Sep2016	0.67m
PORT BLAIR	19:35z	08Sep2016	0.82m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:36z	08Sep2016	1.19m
NAD SIMEULUE PULAU SIMEULUE	13:51z	08Sep2016	0.70m
SUMUT NIAS-SELATAN PULAU NIAS	14:05z	08Sep2016	0.99m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:15z	08Sep2016	0.91m
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	14:15z	08Sep2016	0.91m
SUMUT NIAS-SELATAN PULAU TANABALA	14:17z	08Sep2016	1.03m
NAD ACEH-BESAR BAGIAN BARAT	14:19z	08Sep2016	1.66m
SUMUT NIAS-SELATAN PULAU TANAHMASA	14:22z	08Sep2016	0.81m
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	14:29z	08Sep2016	0.79m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	08Sep2016	1.06m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	08Sep2016	0.80m
BENGKULU KAUR	15:10z	08Sep2016	0.66m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:10z	08Sep2016	0.82m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:12z	08Sep2016	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	08Sep2016	0.78m
BANTEN PANDEGLANG PULAU PANAITAN	15:16z	08Sep2016	0.53m
BENGKULU SELUMA	15:19z	08Sep2016	1.22m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:19z	08Sep2016	0.84m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:28z	08Sep2016	1.12m
LAMPUNG TANGGAMUS PULAU TABUAN	15:30z	08Sep2016	0.77m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:31z	08Sep2016	0.89m

NAD ACEH-BESAR PULAU PENAS	15:32z	08Sep2016	1.24m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:34z	08Sep2016	0.55m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	08Sep2016	1.08m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	08Sep2016	1.23m
NAD ACEH-JAYA	15:47z	08Sep2016	1.04m
SUMUT MANDAILING-NATAL BAGIAN UTARA	15:54z	08Sep2016	1.11m
SUMBAR KEPULAUAN-MENTAWAI PULAU SIPORA	15:56z	08Sep2016	1.24m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	08Sep2016	0.71m
NAD ACEH-BARAT	16:08z	08Sep2016	1.16m
LAMPUNG LAMPUNG-SELATAN KALIANDA	16:16z	08Sep2016	0.76m
JATENG WONOGIRI	16:20z	08Sep2016	0.61m
NAD ACEH-BESAR PULAU BREUEH	16:28z	08Sep2016	0.69m
JATENG PURWOREJO	16:36z	08Sep2016	1.23m
BENGKULU MUKOMUKO	17:33z	08Sep2016	0.68m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:36z	08Sep2016	0.87m
NAD ACEH-SINGKIL	17:55z	08Sep2016	0.72m
NAD NAGAN-RAYA	18:28z	08Sep2016	0.67m
NTB SUMBAWA BAGIAN SELATAN	18:51z	08Sep2016	0.57m
BANTEN SERANG BAGIAN BARAT	18:52z	08Sep2016	0.58m
BALI BADUNG PANTAI-KUTA	18:58z	08Sep2016	0.98m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	19:02z	08Sep2016	0.63m
JATIM PACITAN	19:05z	08Sep2016	0.70m
SUMUT KOTA-SIBOLGA	19:06z	08Sep2016	0.73m
SUMUT TAPANULI-TENGAH BAGIAN SELATAN	19:09z	08Sep2016	0.61m
JATIM TRENGGALEK	19:14z	08Sep2016	0.53m
NTT KEPULAUAN MANGGARAI-BARAT	19:16z	08Sep2016	1.59m
JABAR GARUT	19:17z	08Sep2016	0.74m
JATIM LUMAJANG	19:19z	08Sep2016	0.58m
NTB KOTA-BIMA BAGIAN SELATAN	19:21z	08Sep2016	0.53m
NTB DOMPU BAGIAN SELATAN	19:25z	08Sep2016	0.70m
JATIM JEMBER PULAU NUSABARUNG	19:30z	08Sep2016	0.96m
BALI JEMBRANA	19:36z	08Sep2016	0.83m
SUMUT NIAS BAGIAN TIMUR	19:39z	08Sep2016	0.76m
NAD KOTA-SABANG PULAU WEH	19:40z	08Sep2016	0.54m
SUMUT NIAS-SELATAN PULAU PINI	19:40z	08Sep2016	0.74m
NAD KOTA-BANDA-ACEH	19:47z	08Sep2016	0.54m
SUMBAR PESISIR-SELATAN BAGIAN UTARA	19:47z	08Sep2016	0.81m
JATIM BANYUWANGI BAGIAN TIMUR	19:51z	08Sep2016	1.08m
BANTEN LEBAK	19:54z	08Sep2016	0.77m
SUMUT MANDAILING-NATAL BAGIAN SELATAN	20:09z	08Sep2016	1.43m
SUMBAR KOTA-PADANG BAGIAN SELATAN	20:18z	08Sep2016	0.75m
LAMPUNG LAMPUNG-SELATAN BAGIAN BARAT	20:20z	08Sep2016	0.57m
LAMPUNG KOTA-BANDAR-LAMPUNG PANTAI PANJANG	20:26z	08Sep2016	1.01m
SUMBAR PASAMAN-BARAT	20:31z	08Sep2016	1.06m
LAMPUNG LAMPUNG-SELATAN KEP. SEBUKU	20:36z	08Sep2016	0.68m
JABAR TASIKMALAYA	20:40z	08Sep2016	0.62m
JATENG KEBUMEN	20:43z	08Sep2016	0.63m
NAD ACEH-SELATAN BAGIAN UTARA	20:54z	08Sep2016	0.57m
SUMBAR PADANG-PARIAMAN BAGIAN UTARA	20:57z	08Sep2016	0.57m
JABAR CIAMIS	20:58z	08Sep2016	0.74m
DIY GUNUNG-KIDUL	21:00z	08Sep2016	0.52m
SUMBAR PESISIR-SELATAN BAGIAN SELATAN	21:03z	08Sep2016	1.01m
JATENG CILACAP	21:14z	08Sep2016	0.76m
NAD ACEH-BARAT-DAYA	21:16z	08Sep2016	0.57m
SUMBAR AGAM	21:21z	08Sep2016	0.70m
JATIM MALANG	21:32z	08Sep2016	0.53m
SUMBAR KOTA-PARIAMAN	21:37z	08Sep2016	0.78m
LAMPUNG LAMPUNG-SELATAN KEP. KRAKATAU	21:39z	08Sep2016	0.65m
JATIM JEMBER	21:41z	08Sep2016	1.27m
NTT LEMBATA BAGIAN UTARA	21:47z	08Sep2016	0.57m
SUMUT TAPANULI-TENGAH KEP. MURSALA	21:48z	08Sep2016	0.58m
BALI TABANAN	21:48z	08Sep2016	0.63m
JABAR CIANJUR SINDANGBARANG	21:49z	08Sep2016	0.65m
DIY BANTUL	21:54z	08Sep2016	0.65m

SUMBAR KOTA-PADANG BAGIAN UTARA	22:08z	08Sep2016	0.59m
BANTEN PANDEGLANG BAGIAN UTARA	22:10z	08Sep2016	0.76m
JABAR SUKABUMI UJUNG-GENTENG	22:13z	08Sep2016	0.51m
SUMUT TAPANULI-SELATAN	22:17z	08Sep2016	0.54m
BENGKULU BENGKULU-SELATAN	22:35z	08Sep2016	0.51m
NTT NGADA BAGIAN SELATAN	22:42z	08Sep2016	0.56m
SUMUT TAPANULI-TENGAH BAGIAN UTARA	23:10z	08Sep2016	0.90m
NTT FLORES-TIMUR PULAU ADONARA	23:11z	08Sep2016	0.51m
NTB SUMBAWA BAGIAN BARAT	23:54z	08Sep2016	0.52m
NTT MANGGARAI BAGIAN SELATAN	23:57z	08Sep2016	0.50m

IRAN

PUSHT	06:00z	08Sep2016	19.10m
BIR	06:09z	08Sep2016	8.61m
MISKI	07:20z	08Sep2016	6.07m
SAR RIG	08:24z	08Sep2016	4.65m
KUSHK SAR	09:48z	08Sep2016	1.09m
ABU MUSA	09:59z	08Sep2016	1.11m
SIRRI	10:52z	08Sep2016	0.70m

KENYA

KIWAYU	11:32z	08Sep2016	1.43m
MALINDI	12:04z	08Sep2016	1.57m
KIPINI	12:06z	08Sep2016	1.12m
TAKAUNGU	12:09z	08Sep2016	1.37m
KISIMACHANDE	12:10z	08Sep2016	1.31m
MVULENI	12:30z	08Sep2016	1.00m

MADAGASCAR

GLORIOSO ISLANDS	11:52z	08Sep2016	1.01m
ANOROTSANGANA	11:58z	08Sep2016	1.58m
VOHEMAR	12:10z	08Sep2016	2.59m
BALY	12:44z	08Sep2016	0.83m
TAMOTAMO	12:51z	08Sep2016	0.72m
JUAN DE NOVA ISLAND	13:16z	08Sep2016	0.61m
TAMPOLO	13:25z	08Sep2016	1.87m
TOAMASINA AIRPORT	13:28z	08Sep2016	0.85m
AMBAHY	13:54z	08Sep2016	1.28m
FARAFAGANA	14:10z	08Sep2016	1.35m
MANANTENINA	14:28z	08Sep2016	0.83m
SAMPONA	15:45z	08Sep2016	0.94m
AMBANJA	21:41z	08Sep2016	0.66m

MALDIVES

KULHUDHUFFUSHI	09:20z	08Sep2016	5.85m
GOIDHOO	09:33z	08Sep2016	4.01m
FERIDHOO	09:37z	08Sep2016	4.49m
KOLHUFUSHI	09:46z	08Sep2016	3.59m
MALE-NORTH	09:52z	08Sep2016	2.44m
DHIYAMIGILI	09:54z	08Sep2016	3.50m
MALE-SOUTH	09:55z	08Sep2016	3.05m
THINADHOO	10:08z	08Sep2016	4.11m
HITHADHOO	10:19z	08Sep2016	2.95m

MAURITIUS



AGALEGA ISLAND	11:43z	08Sep2016	1.49m
LA FERME	13:06z	08Sep2016	1.72m
GRANDE REVIERE SUD EST-WEST	13:12z	08Sep2016	1.16m
CARGADOS CARAJOS	13:24z	08Sep2016	1.31m
GRANDE REVIERE SUD EST-EAST	13:27z	08Sep2016	0.81m

MOZAMBIQUE

MAGANJA	12:23z	08Sep2016	1.40m
MERONVI	12:37z	08Sep2016	1.05m
QUITERAJO	12:39z	08Sep2016	1.07m
TAVARI	12:44z	08Sep2016	1.04m
PEMBA	12:49z	08Sep2016	0.84m
LURIO	12:53z	08Sep2016	1.05m
MURREBUE	12:53z	08Sep2016	0.66m
NANGATA	12:55z	08Sep2016	1.21m
MECUFI	12:56z	08Sep2016	1.00m
MINHAUINE	12:58z	08Sep2016	1.05m
LUMBO	13:00z	08Sep2016	1.01m
MOGINCUAL	13:21z	08Sep2016	0.65m

OMAN

DARSAIT	06:10z	08Sep2016	5.57m
ASSIFAH	06:11z	08Sep2016	11.50m
QALHAT	06:17z	08Sep2016	17.30m
BARKA	06:18z	08Sep2016	6.63m
HAY ASEM	06:23z	08Sep2016	5.90m
AL KHABURAH	06:29z	08Sep2016	6.11m
RASS AL HADD	06:30z	08Sep2016	10.00m
SUHAR	06:39z	08Sep2016	5.36m
MASIRAH	06:51z	08Sep2016	4.70m
ABU GHALAT	06:54z	08Sep2016	5.34m
MUSANDAM	07:13z	08Sep2016	5.60m
JUWAYRAH	07:38z	08Sep2016	3.20m
HASIK	07:47z	08Sep2016	3.05m
MIRBAT	07:53z	08Sep2016	1.61m
SALALAH	08:03z	08Sep2016	1.67m
DHALKUT	08:06z	08Sep2016	3.18m

PAKISTAN

ORMARA	06:00z	08Sep2016	12.07m
WINDER	06:18z	08Sep2016	7.63m
KARACHI	06:59z	08Sep2016	7.19m
SINDH	07:15z	08Sep2016	4.92m

REUNION

SAINT DENIS	13:15z	08Sep2016	1.31m
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SEYCHELLES

FREGATE ISLAND	10:33z	08Sep2016	2.61m
ILE DESROCHES	10:50z	08Sep2016	1.82m
ALPHONSE ISLAND	11:04z	08Sep2016	0.94m
TAKAMAKA	11:12z	08Sep2016	3.02m
COETIVY ISLAND	11:13z	08Sep2016	1.33m

ASTOVE ISLAND	11:34z	08Sep2016	0.94m
ALDABRA	11:38z	08Sep2016	1.05m
FARQUHAR GROUP	11:44z	08Sep2016	0.91m

SOMALIA

ABO	09:07z	08Sep2016	3.60m
TOOXIN	09:11z	08Sep2016	3.55m
QANDALA	09:12z	08Sep2016	1.78m
BANDER-BEYLA	09:19z	08Sep2016	2.28m
HADAAFTIMO	09:29z	08Sep2016	1.59m
EYL	09:31z	08Sep2016	2.21m
BOSASO	09:32z	08Sep2016	1.88m
JARIIBAN	09:42z	08Sep2016	2.33m
MAYDH	09:45z	08Sep2016	1.85m
GALDOGOB	09:50z	08Sep2016	2.27m
KABURA	10:01z	08Sep2016	1.92m
XARARDHEERE	10:12z	08Sep2016	2.51m
BAKI	10:20z	08Sep2016	2.12m
CEEL DHEER	10:22z	08Sep2016	2.39m
MAREEG	10:27z	08Sep2016	2.10m
ITALA	10:29z	08Sep2016	1.23m
UARSCIECH	10:36z	08Sep2016	1.60m
SAYLAC	10:42z	08Sep2016	2.38m
MUQDISHO	10:44z	08Sep2016	1.34m
BEYNAX BARRE	10:52z	08Sep2016	1.48m
LOYADO	10:52z	08Sep2016	1.78m
BARAAWE	11:00z	08Sep2016	1.38m
JILIB	11:12z	08Sep2016	1.35m
TURDHO	11:17z	08Sep2016	1.30m
NE BEERNAASI	11:24z	08Sep2016	1.85m
KAAMBOONI	11:29z	08Sep2016	1.50m

SOUTH AFRICA

ELLIOTDALE	21:21z	08Sep2016	0.51m
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SRI LANKA

COLOMBO	10:41z	08Sep2016	1.76m
AMBALANGODA	10:43z	08Sep2016	1.69m
NEGOMBO	10:44z	08Sep2016	0.99m
BERUWALA	10:51z	08Sep2016	1.33m
MORATUWA	10:52z	08Sep2016	1.52m
GALLE	10:54z	08Sep2016	1.41m
MATARA	10:55z	08Sep2016	2.28m
MANNAR ISLAND	10:57z	08Sep2016	0.95m
MUNDAL LAKE	11:00z	08Sep2016	0.82m
TANGALLA	11:00z	08Sep2016	1.10m
MUSALI	11:13z	08Sep2016	0.80m
HAMBANTOTA	11:33z	08Sep2016	1.01m
KIRINDA	14:23z	08Sep2016	1.12m
POTTUVIL	15:31z	08Sep2016	0.72m
OKANDA	17:12z	08Sep2016	0.72m

TANZANIA

VUMBA	12:01z	08Sep2016	1.07m
ZANZIBAR	12:10z	08Sep2016	1.17m
VUMBI	12:10z	08Sep2016	1.38m

KUTANI	12:18z	08Sep2016	1.30m
JIMBO	12:19z	08Sep2016	1.55m
GAZIJA	12:20z	08Sep2016	0.78m
SONGO SONGO ISLAND	12:21z	08Sep2016	1.18m
MSASANI	12:23z	08Sep2016	1.38m
MADANGWA	12:25z	08Sep2016	1.48m
RUVU	12:26z	08Sep2016	1.58m
WEST TO KONDE	12:28z	08Sep2016	1.28m
BOMALANDNI	12:33z	08Sep2016	0.98m
BAGAMOYO	12:37z	08Sep2016	0.97m

UNITED ARAB EMIRATES

KALBA	06:46z	08Sep2016	4.93m
ZIGGHY BAY	07:02z	08Sep2016	5.58m
ALDAREH	09:54z	08Sep2016	1.88m
AL HELIO	10:16z	08Sep2016	1.80m
DEIRA	11:00z	08Sep2016	2.78m
SIR BU NUAYR	11:41z	08Sep2016	0.72m
AL SMALIYAH	11:44z	08Sep2016	2.16m
DAS ISLAND	20:45z	08Sep2016	0.80m

YEMEN

DAMQAWT	08:17z	08Sep2016	2.05m
SOCOTRA ISLAND SOUTH	08:19z	08Sep2016	2.93m
AL GHAYDAH AIRPORT	08:26z	08Sep2016	3.53m
SOCOTRA ISLAND NORTH	08:28z	08Sep2016	2.73m
HUSWAYN	08:42z	08Sep2016	2.66m
SOCOTRA ISLAND WEST	08:42z	08Sep2016	2.40m
ALQUMRAH	08:52z	08Sep2016	2.68m
MASILAH WADI	09:01z	08Sep2016	2.15m
HARRAH	09:04z	08Sep2016	2.76m
EAST TO HAMI	09:07z	08Sep2016	1.63m
HAMI	09:17z	08Sep2016	3.84m
AL MUKALLA	09:20z	08Sep2016	3.48m
BROM MAYFA	09:26z	08Sep2016	1.85m
RUDUM	09:32z	08Sep2016	1.52m
AHWAR	09:53z	08Sep2016	1.43m
KHANFAR	10:08z	08Sep2016	3.15m
ADEN	10:26z	08Sep2016	3.12m
	10:32z	08Sep2016	2.78m
QAWAH	10:51z	08Sep2016	1.73m
AL MUALLA	11:19z	08Sep2016	1.22m
YAKHTUL	12:04z	08Sep2016	0.86m
MAWSHIJ	12:59z	08Sep2016	0.83m
AT FUZAH	13:02z	08Sep2016	1.03m
BAYT AL FAQIAH	13:38z	08Sep2016	1.04m
AL HUDAYDAH	19:59z	08Sep2016	0.65m
AL MAN SURIYAH	20:08z	08Sep2016	0.54m

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWS-TSP INDONESIA for this event as more information becomes available.

Other IOTWS-TSPs may issue additional information at:  
IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/egevents.jsp>

#### 6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:  
THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)  
InaTEWS - Indonesian Tsunami Early Warning System  
Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720  
Tel.: +62 (21) 4246321/6546316  
Fax: +62 (21) 6546316/4246703  
P.O. Box 3540 Jakarta  
Website: <http://rtsp.bmkg.go.id/publicbull.php>  
<http://www.bmkg.go.id>  
<http://inatews.bmkg.go.id>  
E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)  
[monitrtp@bmkg.go.id](mailto:monitrtp@bmkg.go.id)

END OF BULLETIN

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TEST TEST TEST TEST TEST IOWave-Sep-2016 TEST TEST TEST TEST TEST TEST TEST  
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 TEST TEST TEST TEST TEST IOWave-Sep-2016 TEST TEST TEST TEST TEST TEST TEST  
 TSP-InaTEWS-20160908-1700-013

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 TSUNAMI BULLETIN NUMBER 13 (TYPE-IV)  
 IOTWS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)  
 issued at 1700 UTC, Thursday, 08 September 2016  
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... FINAL TSUNAMI BULLETIN FOR THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWS).

#### 1. EARTHQUAKE INFORMATION

IOTWS-TSP INDONESIA detected an earthquake with the following details:

Magnitude : 9.0 (Mw)  
 Depth : 10km  
 Date : 08 Sep 2016  
 Origin Time: 06:00:00 UTC  
 Latitude : 24.80N  
 Longitude : 62.20E  
 Location : Off Coast of Pakistan

#### 2. EVALUATION

Data from sea-level gauges confirmed that a tsunami was generated.

The expected period of significant tsunami waves is now over for all threatened Indian Ocean countries, based on IOTWS-TSP INDONESIA modelling.

Because local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities. Please be aware that dangerous currents can continue for several hours after the main tsunami waves have passed.

#### 3. TSUNAMI WAVE OBSERVATIONS

Listed below are maximum wave amplitudes recorded at the specified locations. Note that wave amplitude is measured relative to normal sea level; it is NOT the crest-to-trough wave height.

LOCATION	COUNTRIES	LAT	LON	AMPL(m)	TIME(UTC)	DATE
CHABAHAR	IRAN	25.29N	60.60E	8.0	06:30	Sep 08, 2016
MUSCAT	OMAN	23.63N	58.57E	5.0	06:40	Sep 08, 2016
KARACHI	PAKISTAN	24.81N	66.75E	7.0	07:40	Sep 08, 2016
SALALAH	OMAN	16.93N	54.01E	3.0	08:50	Sep 08, 2016
MINICOY	INDIA	08.28N	73.05E	2.0	09:30	Sep 08, 2016
MALE	MALDIVES	04.19N	73.53E	1.5	10:10	Sep 08, 2016
COLOMBO	SRI LANKA	06.95N	79.85E	1.0	11:20	Sep 08, 2016
PORT LARUE	SEYCHELLES	04.50S	55.50E	2.0	12:00	Sep 08, 2016
TOAMASINA	MADAGASCAR	18.15S	49.43E	1.0	13:10	Sep 08, 2016
COCOS	AUSTRALIA	12.12S	96.89E	0.3	14:30	Sep 08, 2016

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

No further bulletins will be issued by IOTWS-TSP INDONESIA for this event unless

additional information becomes available.

Other IOTWS-TSPs may issue additional information at:

IOTWS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 6. CONTACT INFORMATION

IOTWS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720

Tel.: +62 (21) 4246321/6546316

Fax: +62 (21) 6546316/4246703

P.O. Box 3540 Jakarta

Website: <http://rtsp.bmkg.go.id/publicbull.php>

<http://www.bmkg.go.id>

<http://inatews.bmkg.go.id>

E-Mail: [inartsp@bmkg.go.id](mailto:inartsp@bmkg.go.id)

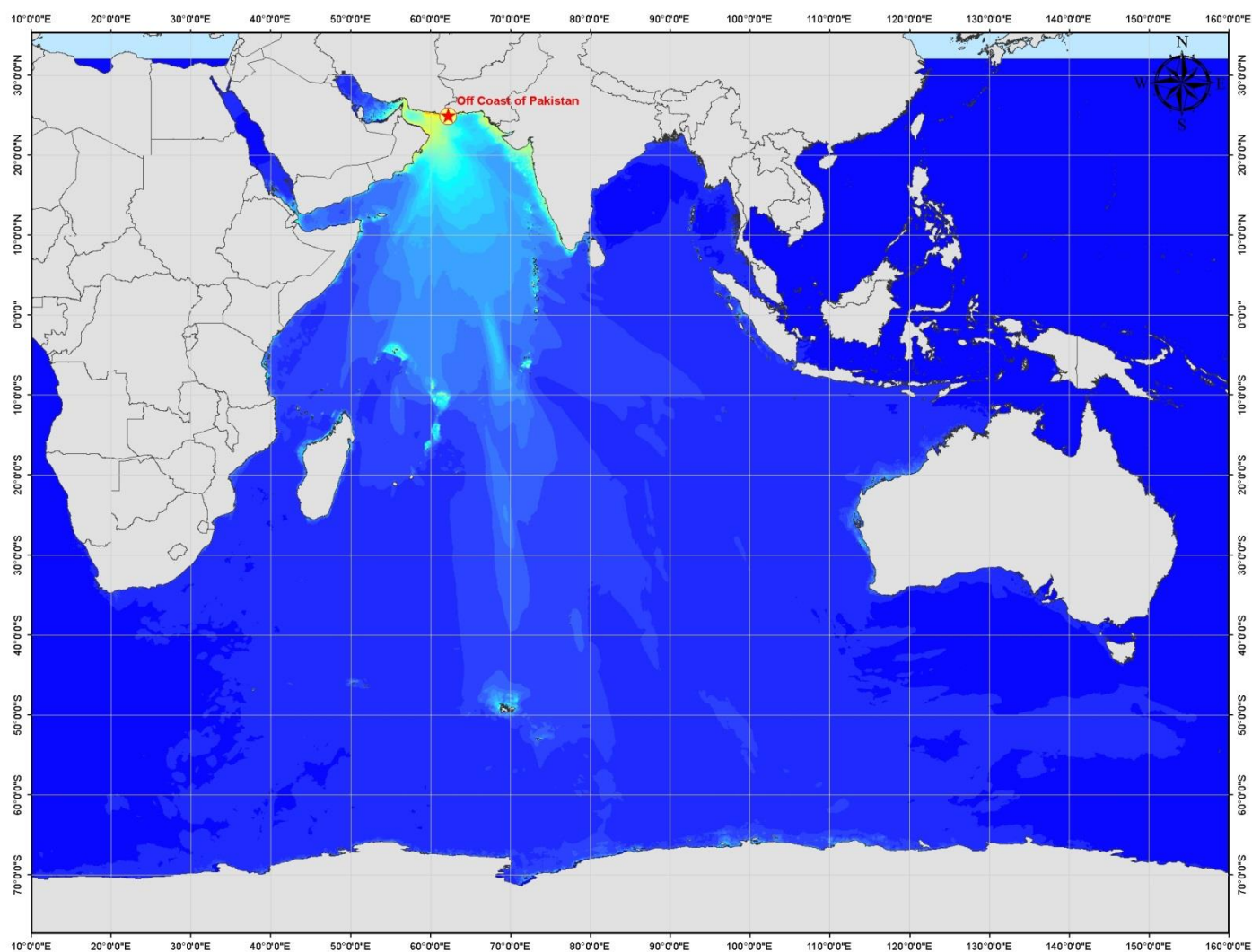
[monitrtpw@bmkg.go.id](mailto:monitrtpw@bmkg.go.id)

END OF BULLETIN

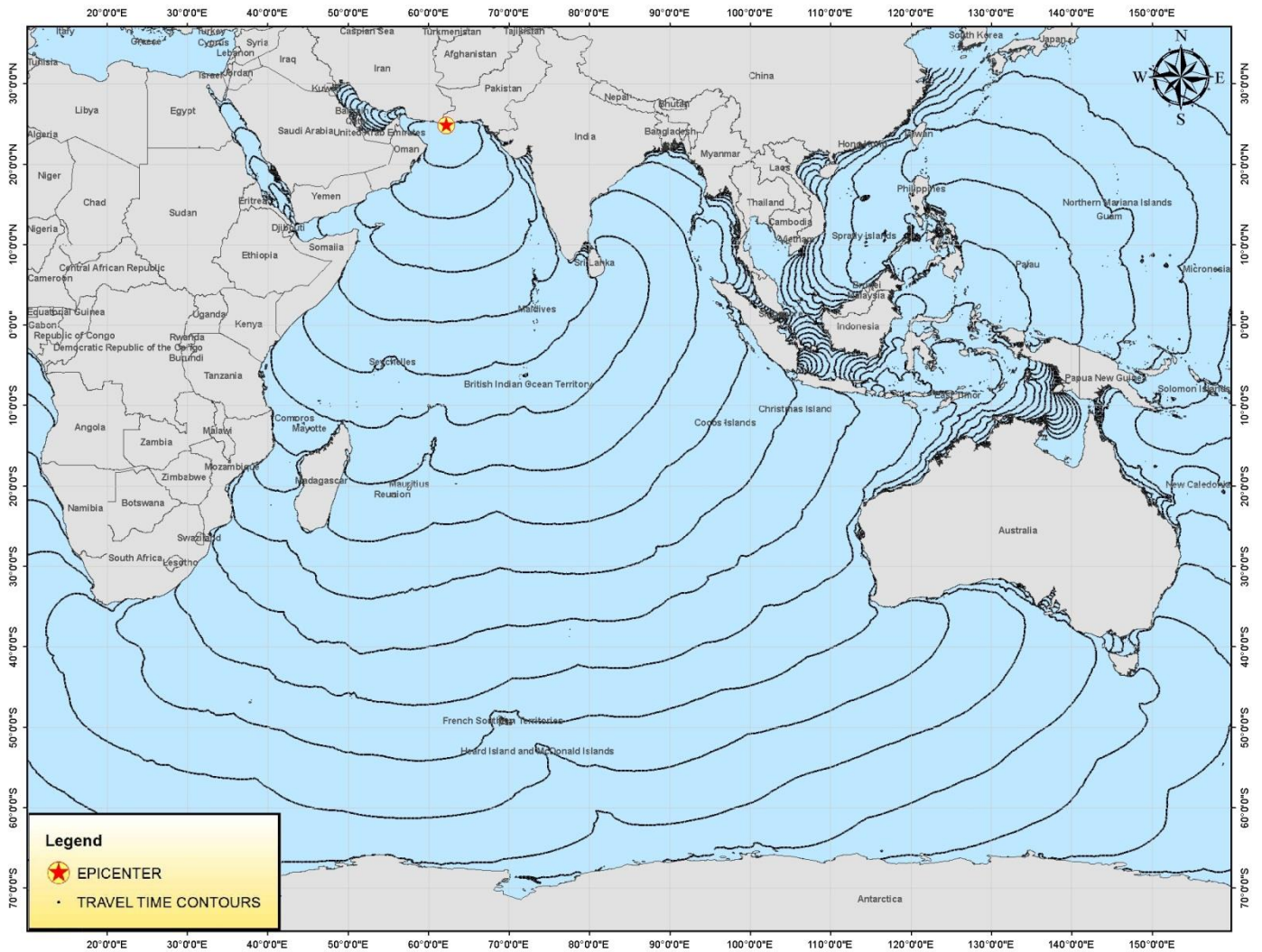
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TEST TEST TEST TEST TEST IOWave-Sep-2016 TEST TEST TEST TEST TEST TEST TEST  
TEST TEST TEST TEST TEST IOWave-Sep-2016 TEST TEST TEST TEST TEST TEST TEST

## TSP INDIA MAPS

TSP India Maximum Deep-Water Wave Amplitude Map for Bulletin 2 (EQ Magnitude 8.5):

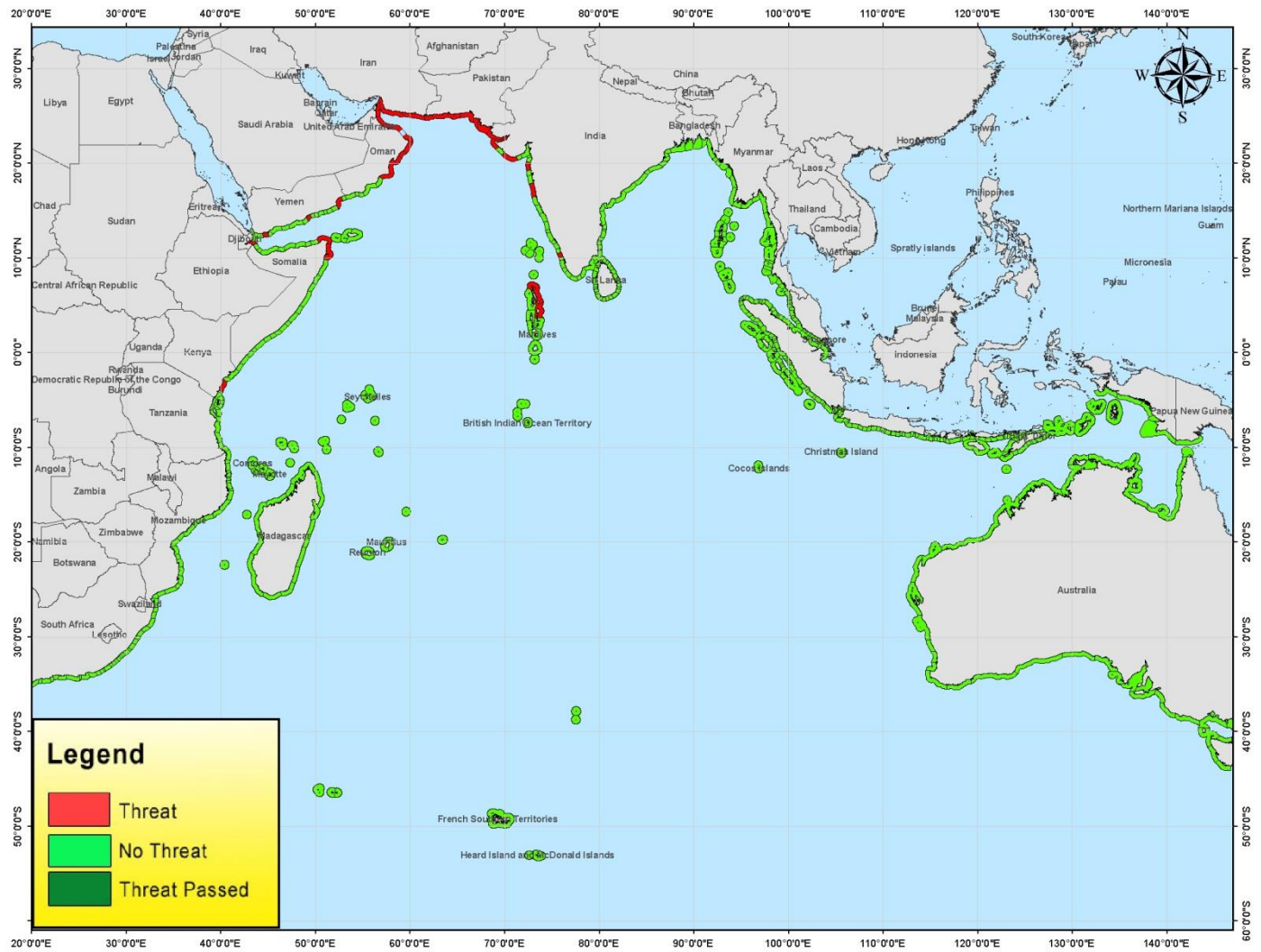


TSP India Travel Time Map for Bulletin 2 (EQ Magnitude 8.5):

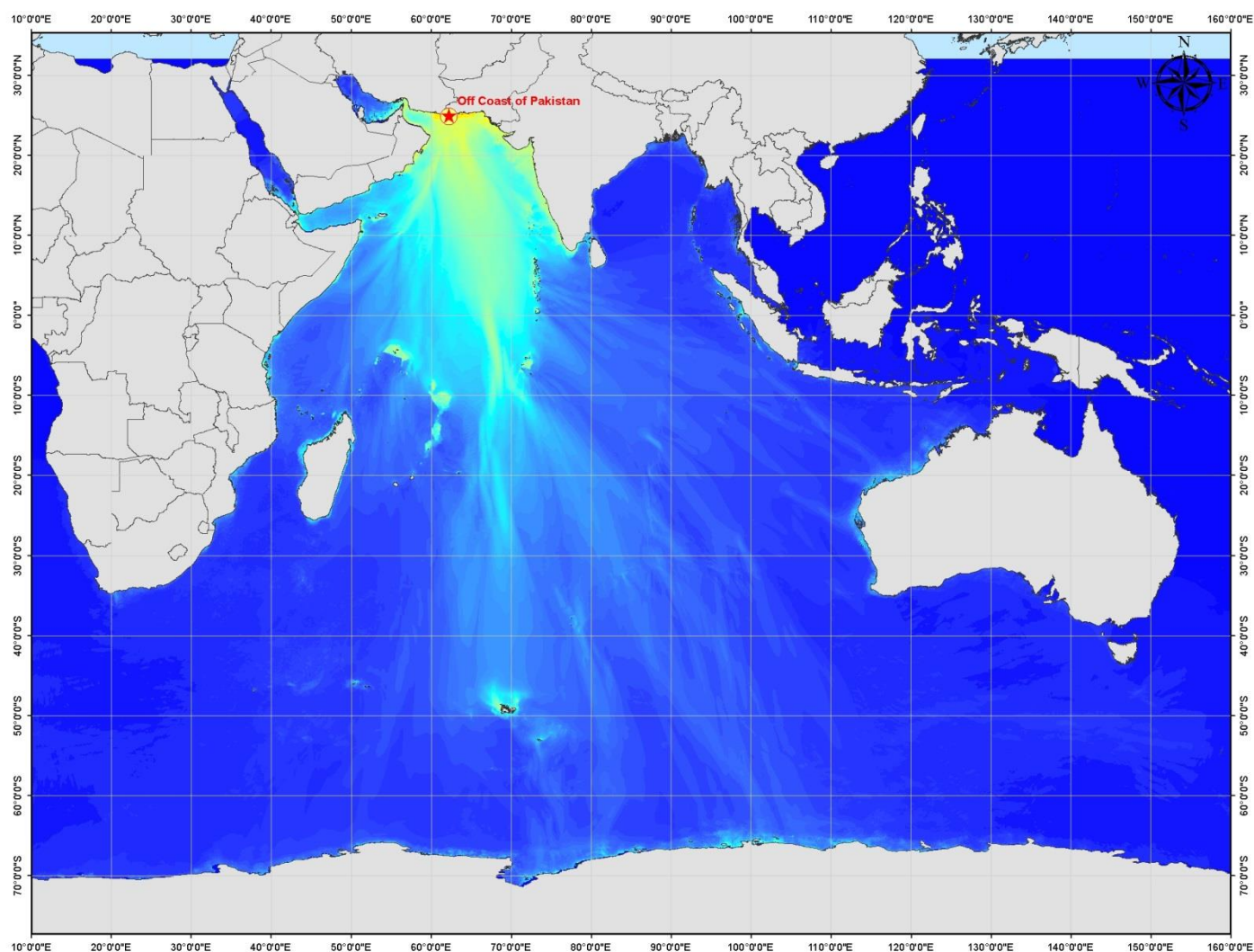




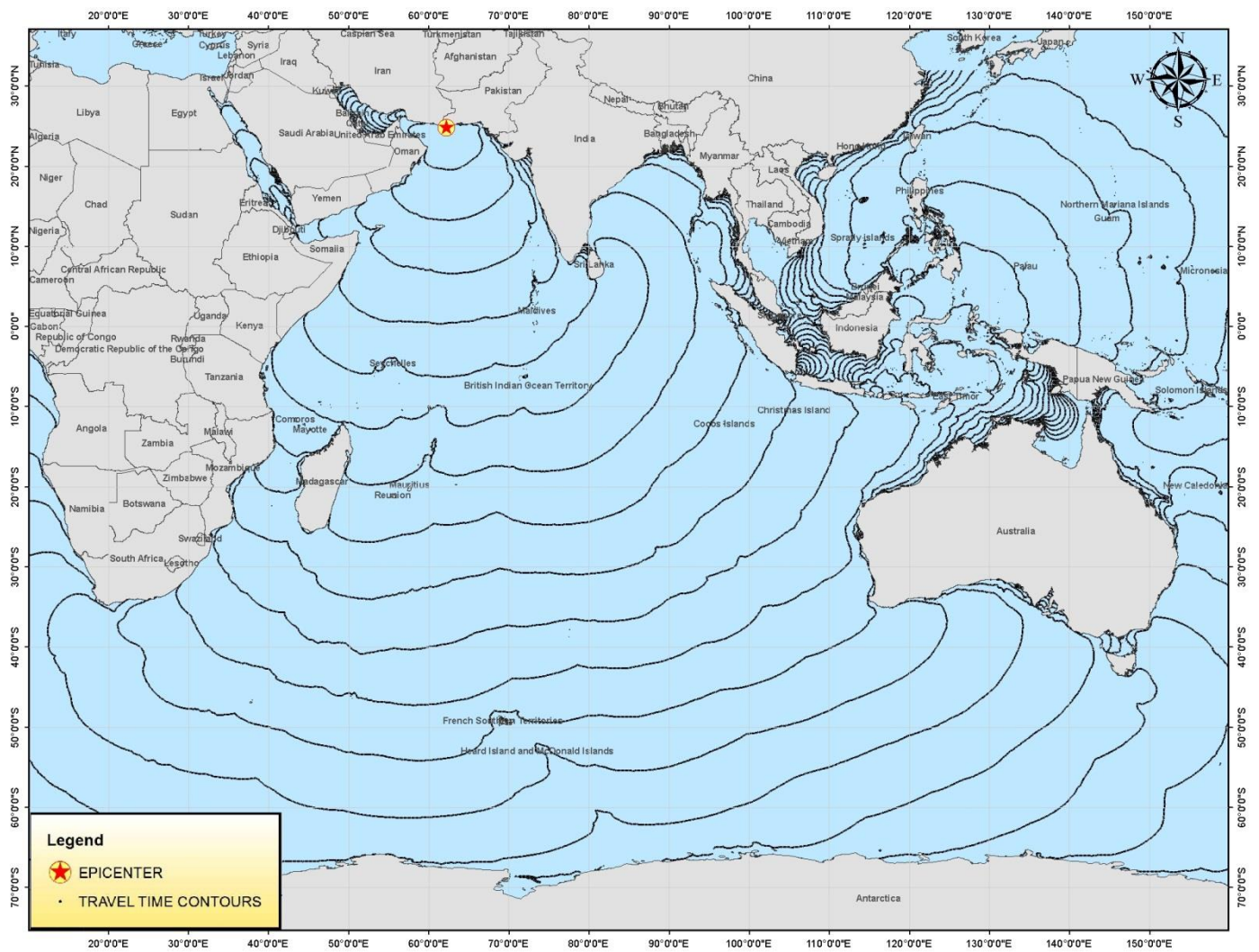
TSP India Threat Map for Bulletin 2 (EQ Magnitude 8.5):



TSP India Maximum Deep-Water Wave Amplitude Map for Bulletins 3 to 14 (EQ Magnitude 9.0):

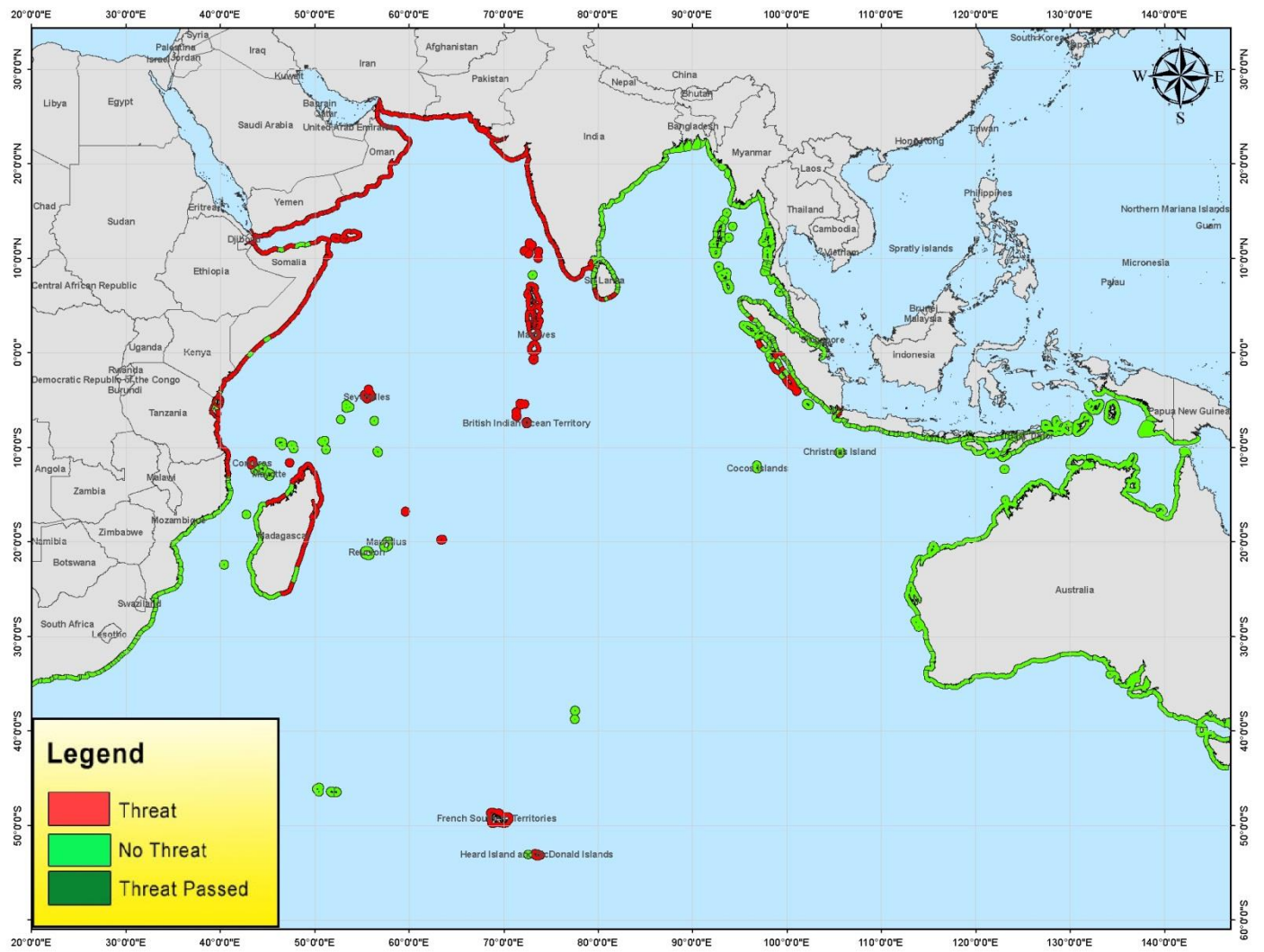


TSP India Travel Time Map for Bulletins 3 to 14 (EQ Magnitude 9.0):





TSP India Threat Map for Bulletins 3 to 14 (EQ Magnitude 9.0):



## TSP INDIA BULLETINS

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#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

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-----  
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST  
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TSUNAMI BULLETIN NUMBER 1  
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWC)  
ISSUED AT 0607 UTC THURSDAY 08 SEPTEMBER 2016  
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### ... EARTHQUAKE BULLETIN ...

This bulletin applies to areas within and bordering the Indian Ocean. It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 8.2 M  
Depth: 10 km  
Date: 08 SEP 2016  
Origin Time: 0600UTC  
Latitude: 24.8 N  
Longitude: 62.2 E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Based on historical data and tsunami modelling, this earthquake may be capable of generating a tsunami affecting the Indian Ocean region. IOTWMS-TSP INDIA will monitor sea level gauges near the earthquake to determine if a tsunami was generated and will issue further bulletins for this event. Further information on this event will be available at:

<http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

#### 3. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 4. OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

#### 5. CONTACT INFORMATION

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)  
INDIAN NATIONAL CENTRE FOR OCEAN INFORMATION SERVICES (INCOIS)  
ADDRESS: "OCEAN VALLEY", PRAGATHI NAGAR (BO), NIZAMPET (SO),  
HYDERABAD - 500 090, INDIA  
PHONE: 91-40-23895011  
FAX: 91-40-23895012  
EMAIL: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)  
WEB: [www.incois.gov.in](http://www.incois.gov.in)

END OF BULLETIN  
-----

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

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TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST
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```

#### TSUNAMI BULLETIN NUMBER 2

IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)

ISSUED AT 0612 UTC Thursday 08 September 2016

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... POTENTIAL TSUNAMI THREAT IN THE INDIAN OCEAN ...
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This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 8.5 M Mwp  
 Depth: 10 km  
 Date: 08 SEP 2016  
 Origin Time: 0600 UTC  
 Latitude: 24.8 N  
 Longitude: 62.2 E  
 Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Earthquakes of this size are capable of generating tsunamis. However, so far there is no confirmation about the triggering of a tsunami.

An investigation is under way to determine if a tsunami has been triggered.

This TSP will monitor sea level gauges and report if any tsunami wave activity has occurred.

Based on pre-run model scenarios, the zones listed below are POTENTIALLY UNDER THREAT.

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

#### DJIBOUTI

```
-----
NW ARTA                                2242z  08 Sep 2016 0.7m
```

#### INDIA

```
-----
MANDVI                                1528z  08 Sep 2016 0.7m
DWARKA                                2256z  08 Sep 2016 0.6m
VERAVAL                               2307z  08 Sep 2016 0.6m
ANJANWEL                             2347z  08 Sep 2016 0.5m
VIRAR                                 0222z  09 Sep 2016 0.5m
MANATTALA                             0415z  09 Sep 2016 0.6m
```

#### IRAN

```
-----
PUSHT                                0608z  08 Sep 2016 2.7m
```

BIR	1122z	08 Sep 2016	0.8m
MISKI	1153z	08 Sep 2016	0.9m

KENYA

MALINDI	2239z	08 Sep 2016	0.6m
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MALDIVES

MALE	2341z	08 Sep 2016	0.6m
KULHUDUFFUSHI	0626z	09 Sep 2016	0.5m

OMAN

SUR	0651z	08 Sep 2016	0.5m
QURAYYAT	0651z	08 Sep 2016	0.5m
AL ASHKHARAH	0702z	08 Sep 2016	1.3m
MUSCAT	0719z	08 Sep 2016	1.1m
EAST MUSANDAM	1038z	08 Sep 2016	0.8m
SOHAR	1145z	08 Sep 2016	0.6m
BARKA	1440z	08 Sep 2016	0.5m
AD DUQM	1528z	08 Sep 2016	0.7m
AL KHABURAH	1822z	08 Sep 2016	0.5m
RAS AR RUWAYS	2142z	08 Sep 2016	0.8m
MASIRAH	0226z	09 Sep 2016	0.5m

PAKISTAN

ORMARA	0603z	08 Sep 2016	5.2m
KARACHI	0801z	08 Sep 2016	0.7m
WINDER	0933z	08 Sep 2016	0.9m
SINDH	1924z	08 Sep 2016	0.7m

SOMALIA

ABO	1517z	08 Sep 2016	0.6m
TOOXIN	2322z	08 Sep 2016	0.5m

UNITED ARAB EMIRATES

KALBA	1400z	08 Sep 2016	0.6m
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YEMEN

AL GHAYDAH AIRPORT	1932z	08 Sep 2016	0.6m
AL MUKALLA	0316z	09 Sep 2016	0.6m
MAALLAH	0341z	09 Sep 2016	0.7m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by TSP INDIA for this event as more information becomes available.

Other TSPs may issue additional information at:

TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>

6. CONTACT INFORMATION

IOTWMS-TSP INDIA:

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)

Indian National Centre for Ocean Information Services (INCOIS)

Address: "ocean valley", Pragathi Nagar (Bo), Nizampet (So),

Hyderabad - 500 090, India

Phone: 91-40-23895011

Fax: 91-40-23895012

Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)

Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN

-----  
TEST  
TEST TEST TEST  
-----  
-----



```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
-----
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST
-----
```

#### TSUNAMI BULLETIN NUMBER 3

IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)

ISSUED AT 0648 UTC Thursday 08 September 2016

```
-----
... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...
```

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
 Depth: 10 km  
 Date: 08 SEP 2016  
 Origin Time: 0600UTC  
 Latitude: 24.8 N  
 Longitude: 62.2 E  
 Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
 Maximum wave amplitudes observed so far:

Jask(IRAN) 25.6 N 57.77 E 0614z 08 Sep 2016 7.2m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

##### DJIBOUTI

```
-----
NW ARTA                                2242z  08 Sep 2016 0.7m
```

##### INDIA

```
-----
MANDVI                                1528z  08 Sep 2016 0.7m
DWARKA                                2256z  08 Sep 2016 0.6m
VERAVAL                               2307z  08 Sep 2016 0.6m
ANJANWEL                              2347z  08 Sep 2016 0.5m
VIRAR                                 0222z  09 Sep 2016 0.5m
MANATTALA                             0415z  09 Sep 2016 0.6m
```

##### IRAN

```
-----
PUSHT                                0608z  08 Sep 2016 2.7m
BIR                                  1122z  08 Sep 2016 0.8m
```

MISKI	1153z	08 Sep 2016	0.9m
KENYA			
-----			
MALINDI	2239z	08 Sep 2016	0.6m
MALDIVES			
-----			
MALE	2341z	08 Sep 2016	0.6m
KULHUDUFFUSHI	0626z	09 Sep 2016	0.5m
OMAN			
-----			
SUR	0651z	08 Sep 2016	0.5m
QURAYYAT	0651z	08 Sep 2016	0.5m
AL ASHKHARAH	0702z	08 Sep 2016	1.3m
MUSCAT	0719z	08 Sep 2016	1.1m
EAST MUSANDAM	1038z	08 Sep 2016	0.8m
SOHAR	1145z	08 Sep 2016	0.6m
BARKA	1440z	08 Sep 2016	0.5m
AD DUQM	1528z	08 Sep 2016	0.7m
AL KHABURAH	1822z	08 Sep 2016	0.5m
RAS AR RUWAYS	2142z	08 Sep 2016	0.8m
MASIRAH	0226z	09 Sep 2016	0.5m
PAKISTAN			
-----			
ORMARA	0603z	08 Sep 2016	5.2m
KARACHI	0801z	08 Sep 2016	0.7m
WINDER	0933z	08 Sep 2016	0.9m
SINDH	1924z	08 Sep 2016	0.7m
SOMALIA			
-----			
ABO	1517z	08 Sep 2016	0.6m
TOOXIN	2322z	08 Sep 2016	0.5m
UNITED ARAB EMIRATES			
-----			
KALBA	1400z	08 Sep 2016	0.6m
YEMEN			
-----			
AL GHAYDAH AIRPORT	1932z	08 Sep 2016	0.6m
AL MUKALLA	0316z	09 Sep 2016	0.6m
MAALLAH	0341z	09 Sep 2016	0.7m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding

the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

#### OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

#### 6. CONTACT INFORMATION

IOTWMS-TSP INDIA:

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)

Indian National Centre for Ocean Information Services (INCOIS)

Address: "ocean valley", Pragathi Nagar (Bo), Nizampet (So),

Hyderabad - 500 090, India

Phone: 91-40-23895011

Fax: 91-40-23895012

Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)

Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN

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TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST  
TEST TEST TEST  
-----  
-----

```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST  
-----
```

TSUNAMI BULLETIN NUMBER 4  
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)  
ISSUED AT 0700 UTC Thursday 08 September 2016  
-----

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
Depth: 10 km  
Date: 08 SEP 2016  
Origin Time: 0600UTC  
Latitude: 24.8 N  
Longitude: 62.2 E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
Maximum wave amplitudes observed so far:

Jask(IRAN) 25.6 N 57.77 E 0614z 08 Sep 2016 7.2m  
Karachi(PAKISTAN) 24.8 N 66.97 E 0642z 08 Sep 2016 5.2m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

##### BRITISH INDIAN OCEAN TERRITORY

```
-----  
MORESBY ISLAND 1100z 08 Sep 2016 0.8m  
NW EGMONT ISLAND 1116z 08 Sep 2016 0.7m  
DIEGO GARCIA 1142z 08 Sep 2016 1.6m
```

##### COMOROS

```
-----  
CHEZANI 1335z 08 Sep 2016 0.7m
```

##### DJIBOUTI

```
-----  
NW ARTA 1127z 08 Sep 2016 1.6m  
MUHAMMAD ALI BIN FATHA SUMANA 1131z 08 Sep 2016 0.8m
```

##### FRENCH SOUTHERN TERRITORIES

-----				
FRENCH SOUTHERN AND ANTARCTIC LANDS	1854z	08 Sep 2016	1.4m	
HEARD ISLAND AND MCDONLAD ISLANDS				
-----				
HEARD ISLAND AND MCDONALD ISLANDS	1954z	08 Sep 2016	0.7m	
INDIA				
-----				
MANDVI	0804z	08 Sep 2016	2.7m	
DWARKA	0808z	08 Sep 2016	2.0m	
PORBANDAR	0809z	08 Sep 2016	1.8m	
VERAVAL	0822z	08 Sep 2016	1.9m	
AGATTI	0856z	08 Sep 2016	2.0m	
AMINI	0903z	08 Sep 2016	1.2m	
KAVARATTI	0911z	08 Sep 2016	1.0m	
MALVAN BAY	0914z	08 Sep 2016	1.7m	
PANAJI	0922z	08 Sep 2016	1.6m	
ANJANWEL	0924z	08 Sep 2016	1.7m	
KARWAR	0933z	08 Sep 2016	1.8m	
ANDROTH	0948z	08 Sep 2016	0.8m	
MANGALORE	0955z	08 Sep 2016	1.5m	
CHANDRAGIRI FORT	0956z	08 Sep 2016	1.4m	
ALIBAG PORT	0956z	08 Sep 2016	1.4m	
UDUPI	0957z	08 Sep 2016	1.8m	
MADAYI KANNUR	1004z	08 Sep 2016	1.2m	
ALLEPPEY ALAPPUZHA	1005z	08 Sep 2016	1.3m	
MUMBAI	1006z	08 Sep 2016	1.4m	
MANATTALA	1008z	08 Sep 2016	1.3m	
TIRURANGADI	1011z	08 Sep 2016	1.2m	
VIRAR	1011z	08 Sep 2016	1.7m	
BEYPORE	1013z	08 Sep 2016	1.3m	
COCHIN	1014z	08 Sep 2016	1.3m	
AMRELI	1014z	08 Sep 2016	1.3m	
QUILON	1016z	08 Sep 2016	1.1m	
MAHUVA	1020z	08 Sep 2016	1.5m	
BORSI	1025z	08 Sep 2016	1.4m	
TRIVANDRUM	1026z	08 Sep 2016	1.2m	
KANYAKUMARI	1037z	08 Sep 2016	1.4m	
DAMAN	1050z	08 Sep 2016	1.7m	
KOODANKULAM	1112z	08 Sep 2016	1.2m	
TUTICORIN	1152z	08 Sep 2016	1.3m	
RAMESWARAM	1426z	08 Sep 2016	0.7m	
INDONESIA				
-----				
SUMUT NIAS B	1918z	08 Sep 2016	0.6m	
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	08 Sep 2016	0.6m	
NAD NAGAN-RAYA	0029z	09 Sep 2016	0.5m	
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	09 Sep 2016	0.5m	
MUARASIBERUT	0328z	09 Sep 2016	0.7m	
SUMBAR KOTA-PADANG U	0339z	09 Sep 2016	0.6m	
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	09 Sep 2016	0.6m	
NIAS	0411z	09 Sep 2016	0.5m	
NIAS-EAST	0412z	09 Sep 2016	0.6m	
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m	
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m	
IRAN				
-----				
PUSHT	0604z	08 Sep 2016	7.1m	
BIR	0632z	08 Sep 2016	3.3m	
MISKI	0747z	08 Sep 2016	1.9m	

KENYA

MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m

MADAGASCAR

VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
AMBAHY	1556z	08 Sep 2016	1.0m
TOAMASINA AIRPORT	1645z	08 Sep 2016	0.8m
MANANTENINA	1750z	08 Sep 2016	0.7m
BALY	2018z	08 Sep 2016	0.5m
ANOROTSANGANA	2351z	08 Sep 2016	0.7m
GLORIOSO ISLANDS	2357z	08 Sep 2016	0.6m

MALDIVES

GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
HITHADHOO	1030z	08 Sep 2016	1.0m
KOLHUFUSHI	1035z	08 Sep 2016	0.9m

MAURITIUS

CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m

MOZAMBIQUE

MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m

OMAN

QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
BAKI	1124z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m

TANZANIA

BAGAMOYO	1508z	08 Sep 2016	0.8m
RUVU	1646z	08 Sep 2016	0.7m
JIMBO	1649z	08 Sep 2016	0.8m
MADANGWA	1829z	08 Sep 2016	0.6m
MSASANI	1840z	08 Sep 2016	0.8m
SONGO SONGO ISLAND	2101z	08 Sep 2016	0.6m
ZANZIBAR	2135z	08 Sep 2016	0.8m
WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m
KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m

UNITED ARAB EMIRATES

KALBA	0717z	08 Sep 2016	1.7m
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YEMEN

DAMQAWT	0835z	08 Sep 2016	0.9m
SOCOTRA ISLAND SOUTH	0847z	08 Sep 2016	1.7m
AL GHAYDAH AIRPORT	0848z	08 Sep 2016	1.9m
SOCOTRA ISLAND NORTH	0850z	08 Sep 2016	1.1m
HUSWAYN	0903z	08 Sep 2016	1.4m
ALQUMRAH	0912z	08 Sep 2016	1.1m
SOCOTRA ISLAND WEST	0913z	08 Sep 2016	0.6m
MASILAH WADI	0920z	08 Sep 2016	1.1m
HARRAH	0923z	08 Sep 2016	1.3m
EAST TO HAMI	0929z	08 Sep 2016	1.2m
HAMI	0936z	08 Sep 2016	1.1m
AL MUKALLA	0954z	08 Sep 2016	1.2m
RUDUM	1002z	08 Sep 2016	0.8m
KHANFAR	1044z	08 Sep 2016	1.3m
ADEN	1054z	08 Sep 2016	0.8m
MAALLAH	1103z	08 Sep 2016	1.7m
QAWAH	1120z	08 Sep 2016	0.7m
BROM MAYFA	1144z	08 Sep 2016	0.8m
AL MUALLA	1152z	08 Sep 2016	0.8m
AHWAR	1912z	08 Sep 2016	0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

#### OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:  
IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

#### 6. CONTACT INFORMATION

IOTWMS-TSP INDIA:  
INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)  
Indian National Centre for Ocean Information Services (INCOIS)  
Address: "ocean valley", Pragathi Nagar (Bo), Nizampet (So),  
Hyderabad - 500 090, India  
Phone: 91-40-23895011  
Fax: 91-40-23895012  
Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)  
Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN



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TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST  
TEST TEST TEST  
-----  
-----

```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST  
-----
```

TSUNAMI BULLETIN NUMBER 5  
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)  
ISSUED AT 0828 UTC Thursday 08 September 2016  
-----

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
Depth: 10 km  
Date: 08 SEP 2016  
Origin Time: 0600UTC  
Latitude: 24.8 N  
Longitude: 62.2 E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
Maximum wave amplitudes observed so far:

Jask(IRAN) 25.6 N 57.77 E 0614z 08 Sep 2016 7.2m  
Karachi(PAKISTAN) 24.8 N 66.97 E 0642z 08 Sep 2016 5.2m  
Masirah(OMAN) 20.6 N 58.87 E 0712z 08 Sep 2016 4.7m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

##### BRITISH INDIAN OCEAN TERRITORY

```
-----  
MORESBY ISLAND 1100z 08 Sep 2016 0.8m  
NW EGMONT ISLAND 1116z 08 Sep 2016 0.7m  
DIEGO GARCIA 1142z 08 Sep 2016 1.6m
```

##### COMOROS

```
-----  
CHEZANI 1335z 08 Sep 2016 0.7m
```

##### DJIBOUTI

```
-----  
NW ARTA 1127z 08 Sep 2016 1.6m  
MUHAMMAD ALI BIN FATHA SUMANA 1131z 08 Sep 2016 0.8m
```

FRENCH SOUTHERN TERRITORIES

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FRENCH SOUTHERN AND ANTARCTIC LANDS 1854z 08 Sep 2016 1.4m

HEARD ISLAND AND MCDONALD ISLANDS

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HEARD ISLAND AND MCDONALD ISLANDS 1954z 08 Sep 2016 0.7m

INDIA

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MANDVI	0804z	08 Sep 2016	2.7m
DWARKA	0808z	08 Sep 2016	2.0m
PORBANDAR	0809z	08 Sep 2016	1.8m
VERAVAL	0822z	08 Sep 2016	1.9m
AGATTI	0856z	08 Sep 2016	2.0m
AMINI	0903z	08 Sep 2016	1.2m
KAVARATTI	0911z	08 Sep 2016	1.0m
MALVAN BAY	0914z	08 Sep 2016	1.7m
PANAJI	0922z	08 Sep 2016	1.6m
ANJANWEL	0924z	08 Sep 2016	1.7m
KARWAR	0933z	08 Sep 2016	1.8m
ANDROTH	0948z	08 Sep 2016	0.8m
MANGALORE	0955z	08 Sep 2016	1.5m
CHANDRAGIRI FORT	0956z	08 Sep 2016	1.4m
ALIBAG PORT	0956z	08 Sep 2016	1.4m
UDUPI	0957z	08 Sep 2016	1.8m
MADAYI KANNUR	1004z	08 Sep 2016	1.2m
ALLEPPEY ALAPPUZHA	1005z	08 Sep 2016	1.3m
MUMBAI	1006z	08 Sep 2016	1.4m
MANATTALA	1008z	08 Sep 2016	1.3m
TIRURANGADI	1011z	08 Sep 2016	1.2m
VIRAR	1011z	08 Sep 2016	1.7m
BEYPORE	1013z	08 Sep 2016	1.3m
COCHIN	1014z	08 Sep 2016	1.3m
AMRELI	1014z	08 Sep 2016	1.3m
QUILON	1016z	08 Sep 2016	1.1m
MAHUVA	1020z	08 Sep 2016	1.5m
BORSI	1025z	08 Sep 2016	1.4m
TRIVANDRUM	1026z	08 Sep 2016	1.2m
KANYAKUMARI	1037z	08 Sep 2016	1.4m
DAMAN	1050z	08 Sep 2016	1.7m
KOODANKULAM	1112z	08 Sep 2016	1.2m
TUTICORIN	1152z	08 Sep 2016	1.3m
RAMESWARAM	1426z	08 Sep 2016	0.7m

INDONESIA

-----

SUMUT NIAS B	1918z	08 Sep 2016	0.6m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	08 Sep 2016	0.6m
NAD NAGAN-RAYA	0029z	09 Sep 2016	0.5m
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	09 Sep 2016	0.5m
MUARASIBERUT	0328z	09 Sep 2016	0.7m
SUMBAR KOTA-PADANG U	0339z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	09 Sep 2016	0.6m
NIAS	0411z	09 Sep 2016	0.5m
NIAS-EAST	0412z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m

IRAN

-----

PUSHT	0604z	08 Sep 2016	7.1m
BIR	0632z	08 Sep 2016	3.3m
MISKI	0747z	08 Sep 2016	1.9m

KENYA

MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m

MADAGASCAR

VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
AMBAHY	1556z	08 Sep 2016	1.0m
TOAMASINA AIRPORT	1645z	08 Sep 2016	0.8m
MANANTENINA	1750z	08 Sep 2016	0.7m
BALY	2018z	08 Sep 2016	0.5m
ANOROTSANGANA	2351z	08 Sep 2016	0.7m
GLORIOSO ISLANDS	2357z	08 Sep 2016	0.6m

MALDIVES

GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
HITHADHOO	1030z	08 Sep 2016	1.0m
KOLHUFUSHI	1035z	08 Sep 2016	0.9m

MAURITIUS

CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m

MOZAMBIQUE

MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m

OMAN

QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
BAKI	1124z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m

TANZANIA

BAGAMOYO	1508z	08 Sep 2016	0.8m
RUVU	1646z	08 Sep 2016	0.7m
JIMBO	1649z	08 Sep 2016	0.8m
MADANGWA	1829z	08 Sep 2016	0.6m
MSASANI	1840z	08 Sep 2016	0.8m
SONGO SONGO ISLAND	2101z	08 Sep 2016	0.6m
ZANZIBAR	2135z	08 Sep 2016	0.8m
WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m
KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m

UNITED ARAB EMIRATES

KALBA	0717z	08 Sep 2016	1.7m
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YEMEN

DAMQAWT	0835z	08 Sep 2016	0.9m
SOCOTRA ISLAND SOUTH	0847z	08 Sep 2016	1.7m
AL GHAYDAH AIRPORT	0848z	08 Sep 2016	1.9m
SOCOTRA ISLAND NORTH	0850z	08 Sep 2016	1.1m
HUSWAYN	0903z	08 Sep 2016	1.4m
ALQUMRAH	0912z	08 Sep 2016	1.1m
SOCOTRA ISLAND WEST	0913z	08 Sep 2016	0.6m
MASILAH WADI	0920z	08 Sep 2016	1.1m
HARRAH	0923z	08 Sep 2016	1.3m
EAST TO HAMI	0929z	08 Sep 2016	1.2m
HAMI	0936z	08 Sep 2016	1.1m
AL MUKALLA	0954z	08 Sep 2016	1.2m
RUDUM	1002z	08 Sep 2016	0.8m
KHANFAR	1044z	08 Sep 2016	1.3m
ADEN	1054z	08 Sep 2016	0.8m
MAALLAH	1103z	08 Sep 2016	1.7m
QAWAH	1120z	08 Sep 2016	0.7m
BROM MAYFA	1144z	08 Sep 2016	0.8m
AL MUALLA	1152z	08 Sep 2016	0.8m
AHWAR	1912z	08 Sep 2016	0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

#### OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:  
IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

#### 6. CONTACT INFORMATION

IOTWMS-TSP INDIA:  
INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)  
Indian National Centre for Ocean Information Services (INCOIS)  
Address:"ocean valley", Pragathi Nagar (Bo), Nizampet (So),  
Hyderabad - 500 090, India  
Phone: 91-40-23895011  
Fax: 91-40-23895012  
Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)

Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN

-----  
TEST  
TEST TEST TEST  
-----  
-----

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
-----
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST
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```

#### TSUNAMI BULLETIN NUMBER 6

IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)

ISSUED AT 0904 UTC Thursday 08 September 2016

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
 Depth: 10 km  
 Date: 08 SEP 2016  
 Origin Time: 0600UTC  
 Latitude: 24.8 N  
 Longitude: 62.2 E  
 Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
 Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

#### BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1100z	08 Sep 2016	0.8m
NW EGMONT ISLAND	1116z	08 Sep 2016	0.7m
DIEGO GARCIA	1142z	08 Sep 2016	1.6m

#### COMOROS

CHEZANI	1335z	08 Sep 2016	0.7m
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#### DJIBOUTI

NW ARTA	1127z	08 Sep 2016	1.6m
MUHAMMAD ALI BIN FATHA SUMANA	1131z	08 Sep 2016	0.8m



FRENCH SOUTHERN TERRITORIES

-----  
FRENCH SOUTHERN AND ANTARCTIC LANDS 1854z 08 Sep 2016 1.4m

HEARD ISLAND AND MCDONALD ISLANDS

-----  
HEARD ISLAND AND MCDONALD ISLANDS 1954z 08 Sep 2016 0.7m

INDIA

-----  
MANDVI 0804z 08 Sep 2016 2.7m  
DWARKA 0808z 08 Sep 2016 2.0m  
PORBANDAR 0809z 08 Sep 2016 1.8m  
VERAVAL 0822z 08 Sep 2016 1.9m  
AGATTI 0856z 08 Sep 2016 2.0m  
AMINI 0903z 08 Sep 2016 1.2m  
KAVARATTI 0911z 08 Sep 2016 1.0m  
MALVAN BAY 0914z 08 Sep 2016 1.7m  
PANAJI 0922z 08 Sep 2016 1.6m  
ANJANWEL 0924z 08 Sep 2016 1.7m  
KARWAR 0933z 08 Sep 2016 1.8m  
ANDROTH 0948z 08 Sep 2016 0.8m  
MANGALORE 0955z 08 Sep 2016 1.5m  
CHANDRAGIRI FORT 0956z 08 Sep 2016 1.4m  
ALIBAG PORT 0956z 08 Sep 2016 1.4m  
UDUPI 0957z 08 Sep 2016 1.8m  
MADAYI KANNUR 1004z 08 Sep 2016 1.2m  
ALLEPPEY ALAPPUZHA 1005z 08 Sep 2016 1.3m  
MUMBAI 1006z 08 Sep 2016 1.4m  
MANATTALA 1008z 08 Sep 2016 1.3m  
VIRAR 1011z 08 Sep 2016 1.7m  
TIRURANGADI 1011z 08 Sep 2016 1.2m  
BEYPORE 1013z 08 Sep 2016 1.3m  
AMRELI 1014z 08 Sep 2016 1.3m  
COCHIN 1014z 08 Sep 2016 1.3m  
QUILON 1016z 08 Sep 2016 1.1m  
MAHUVA 1020z 08 Sep 2016 1.5m  
BORSI 1025z 08 Sep 2016 1.4m  
TRIVANDRUM 1026z 08 Sep 2016 1.2m  
KANYAKUMARI 1037z 08 Sep 2016 1.4m  
DAMAN 1050z 08 Sep 2016 1.7m  
KODANKULAM 1112z 08 Sep 2016 1.2m  
TUTICORIN 1152z 08 Sep 2016 1.3m  
RAMESWARAM 1426z 08 Sep 2016 0.7m

INDONESIA

-----  
SUMUT NIAS B 1918z 08 Sep 2016 0.6m  
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI 2046z 08 Sep 2016 0.6m  
NAD NAGAN-RAYA 0029z 09 Sep 2016 0.5m  
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT 0130z 09 Sep 2016 0.5m  
MUARASIBERUT 0328z 09 Sep 2016 0.7m  
SUMBAR KOTA-PADANG U 0339z 09 Sep 2016 0.6m  
LAMPUNG LAMPUNG-SELATAN KALIANDA 0351z 09 Sep 2016 0.6m  
NIAS 0411z 09 Sep 2016 0.5m  
NIAS-EAST 0412z 09 Sep 2016 0.6m  
LAMPUNG LAMPUNG-SELATAN BAKAUHENI 0605z 09 Sep 2016 0.5m  
BANTEN PANDEGLANG U 0617z 09 Sep 2016 0.5m

IRAN

-----  
PUSHT 0604z 08 Sep 2016 7.1m  
BIR 0632z 08 Sep 2016 3.3m

MISKI	0747z	08 Sep 2016	1.9m
KENYA			
-----			
MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m
MADAGASCAR			
-----			
VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
AMBAHY	1556z	08 Sep 2016	1.0m
TOAMASINA AIRPORT	1645z	08 Sep 2016	0.8m
MANANTENINA	1750z	08 Sep 2016	0.7m
BALY	2018z	08 Sep 2016	0.5m
ANOROTSANGANA	2351z	08 Sep 2016	0.7m
GLORIOSO ISLANDS	2357z	08 Sep 2016	0.6m
MALDIVES			
-----			
GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
HITHADHOO	1030z	08 Sep 2016	1.0m
KOLHUFUSHI	1035z	08 Sep 2016	0.9m
MAURITIUS			
-----			
CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m
MOZAMBIQUE			
-----			
MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m
OMAN			
-----			
QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
BAKI	1124z	08 Sep 2016	0.6m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m

TANZANIA

BAGAMOYO	1508z	08 Sep 2016	0.8m
RUVU	1646z	08 Sep 2016	0.7m
JIMBO	1649z	08 Sep 2016	0.8m
MADANGWA	1829z	08 Sep 2016	0.6m
MSASANI	1840z	08 Sep 2016	0.8m
SONGO SONGO ISLAND	2101z	08 Sep 2016	0.6m
ZANZIBAR	2135z	08 Sep 2016	0.8m
WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m
KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m

UNITED ARAB EMIRATES

KALBA 0717z 08 Sep 2016 1.7m

YEMEN

```

-----
DAMQAWT 0835z 08 Sep 2016 0.9m
SOCOTRA ISLAND SOUTH 0847z 08 Sep 2016 1.7m
AL GHAYDAH AIRPORT 0848z 08 Sep 2016 1.9m
SOCOTRA ISLAND NORTH 0850z 08 Sep 2016 1.1m
HUSWAYN 0903z 08 Sep 2016 1.4m
ALQUMRAH 0912z 08 Sep 2016 1.1m
SOCOTRA ISLAND WEST 0913z 08 Sep 2016 0.6m
MASILAH WADI 0920z 08 Sep 2016 1.1m
HARRAH 0923z 08 Sep 2016 1.3m
EAST TO HAMI 0929z 08 Sep 2016 1.2m
HAMI 0936z 08 Sep 2016 1.1m
AL MUKALLA 0954z 08 Sep 2016 1.2m
RUDUM 1002z 08 Sep 2016 0.8m
KHANFAR 1044z 08 Sep 2016 1.3m
ADEN 1054z 08 Sep 2016 0.8m
MAALLAH 1103z 08 Sep 2016 1.7m
QAWAH 1120z 08 Sep 2016 0.7m
BROM MAYFA 1144z 08 Sep 2016 0.8m
AL MUALLA 1152z 08 Sep 2016 0.8m
AHWAR 1912z 08 Sep 2016 0.6m

```

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

#### OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:  
IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

#### 6. CONTACT INFORMATION

IOTWMS-TSP INDIA:  
INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)  
Indian National Centre for Ocean Information Services (INCOIS)  
Address: "ocean valley", Pragathi Nagar (Bo), Nizampet (So),  
Hyderabad - 500 090, India  
Phone: 91-40-23895011  
Fax: 91-40-23895012

Email: tsunami@incois.gov.in  
Web: www.incois.gov.inEND OF BULLETIN

-----  
TEST  
TEST TEST TEST  
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```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
-----
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST
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```

#### TSUNAMI BULLETIN NUMBER 7

IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)

ISSUED AT 1002 UTC Thursday 08 September 2016

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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...
```

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
 Depth: 10 km  
 Date: 08 SEP 2016  
 Origin Time: 0600UTC  
 Latitude: 24.8 N  
 Longitude: 62.2 E  
 Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
 Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m
Hanimaadhoo(MALDIVE ISLANDS)	6.77 N	73.17 E	0935z	08 Sep 2016	2.6m
Cochin(INDIA)	9.97 N	76.27 E	0953z	08 Sep 2016	2.2m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

##### BRITISH INDIAN OCEAN TERRITORY

```
-----
MORESBY ISLAND          1100z  08 Sep 2016 0.8m
NW EGMONT ISLAND        1116z  08 Sep 2016 0.7m
DIEGO GARCIA            1142z  08 Sep 2016 1.6m
```

##### COMOROS

```
-----
CHEZANI                  1335z  08 Sep 2016 0.7m
```

##### DJIBOUTI

NW ARTA	1127z	08 Sep 2016	1.6m
MUHAMMAD ALI BIN FATHA SUMANA	1131z	08 Sep 2016	0.8m

FRENCH SOUTHERN TERRITORIES

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FRENCH SOUTHERN AND ANTARCTIC LANDS	1854z	08 Sep 2016	1.4m
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HEARD ISLAND AND MCDONALD ISLANDS

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HEARD ISLAND AND MCDONALD ISLANDS	1954z	08 Sep 2016	0.7m
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INDIA

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MANDVI	0804z	08 Sep 2016	2.7m
DWARKA	0808z	08 Sep 2016	2.0m
PORBANDAR	0809z	08 Sep 2016	1.8m
VERAVAL	0822z	08 Sep 2016	1.9m
AGATTI	0856z	08 Sep 2016	2.0m
AMINI	0903z	08 Sep 2016	1.2m
KAVARATTI	0911z	08 Sep 2016	1.0m
MALVAN BAY	0914z	08 Sep 2016	1.7m
PANAJI	0922z	08 Sep 2016	1.6m
ANJANWEL	0924z	08 Sep 2016	1.7m
KARWAR	0933z	08 Sep 2016	1.8m
ANDROTH	0948z	08 Sep 2016	0.8m
MANGALORE	0955z	08 Sep 2016	1.5m
CHANDRAGIRI FORT	0956z	08 Sep 2016	1.4m
ALIBAG PORT	0956z	08 Sep 2016	1.4m
UDUPI	0957z	08 Sep 2016	1.8m
MADAYI KANNUR	1004z	08 Sep 2016	1.2m
ALLEPPEY ALAPPUZHA	1005z	08 Sep 2016	1.3m
MUMBAI	1006z	08 Sep 2016	1.4m
MANATTALA	1008z	08 Sep 2016	1.3m
TIRURANGADI	1011z	08 Sep 2016	1.2m
VIRAR	1011z	08 Sep 2016	1.7m
BEYPORE	1013z	08 Sep 2016	1.3m
AMRELI	1014z	08 Sep 2016	1.3m
COCHIN	1014z	08 Sep 2016	1.3m
QUILON	1016z	08 Sep 2016	1.1m
MAHUVA	1020z	08 Sep 2016	1.5m
BORSI	1025z	08 Sep 2016	1.4m
TRIVANDRUM	1026z	08 Sep 2016	1.2m
KANYAKUMARI	1037z	08 Sep 2016	1.4m
DAMAN	1050z	08 Sep 2016	1.7m
KOODANKULAM	1112z	08 Sep 2016	1.2m
TUTICORIN	1152z	08 Sep 2016	1.3m
RAMESWARAM	1426z	08 Sep 2016	0.7m

INDONESIA

-----

SUMUT NIAS B	1918z	08 Sep 2016	0.6m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	08 Sep 2016	0.6m
NAD NAGAN-RAYA	0029z	09 Sep 2016	0.5m
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	09 Sep 2016	0.5m
MUARASIBERUT	0328z	09 Sep 2016	0.7m
SUMBAR KOTA-PADANG U	0339z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	09 Sep 2016	0.6m
NIAS	0411z	09 Sep 2016	0.5m
NIAS-EAST	0412z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m

IRAN

-----

PUSHT	0604z	08 Sep 2016	7.1m
BIR	0632z	08 Sep 2016	3.3m
MISKI	0747z	08 Sep 2016	1.9m

KENYA

MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m

MADAGASCAR

VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
AMBAHY	1556z	08 Sep 2016	1.0m
TOAMASINA AIRPORT	1645z	08 Sep 2016	0.8m
MANANTENINA	1750z	08 Sep 2016	0.7m
BALY	2018z	08 Sep 2016	0.5m
ANOROTSANGANA	2351z	08 Sep 2016	0.7m
GLORIOSO ISLANDS	2357z	08 Sep 2016	0.6m

MALDIVES

GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
HITHADHOO	1030z	08 Sep 2016	1.0m
KOLHUFUSHI	1035z	08 Sep 2016	0.9m

MAURITIUS

CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m

MOZAMBIQUE

MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m

OMAN

QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m



SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m
PAKISTAN			
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ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m
SEYCHELLES			
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FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m
SOMALIA			
-----			
TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
BAKI	1124z	08 Sep 2016	0.6m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m
SRI LANKA			
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COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m
TANZANIA			
-----			
BAGAMOYO	1508z	08 Sep 2016	0.8m
RUVU	1646z	08 Sep 2016	0.7m
JIMBO	1649z	08 Sep 2016	0.8m
MADANGWA	1829z	08 Sep 2016	0.6m
MSASANI	1840z	08 Sep 2016	0.8m
SONGO SONGO ISLAND	2101z	08 Sep 2016	0.6m
ZANZIBAR	2135z	08 Sep 2016	0.8m
WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m
KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m

UNITED ARAB EMIRATES

-----  
KALBA 0717z 08 Sep 2016 1.7m

YEMEN

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DAMQAWT 0835z 08 Sep 2016 0.9m  
SOCOTRA ISLAND SOUTH 0847z 08 Sep 2016 1.7m  
AL GHAYDAH AIRPORT 0848z 08 Sep 2016 1.9m  
SOCOTRA ISLAND NORTH 0850z 08 Sep 2016 1.1m  
HUSWAYN 0903z 08 Sep 2016 1.4m  
ALQUMRAH 0912z 08 Sep 2016 1.1m  
SOCOTRA ISLAND WEST 0913z 08 Sep 2016 0.6m  
MASILAH WADI 0920z 08 Sep 2016 1.1m  
HARRAH 0923z 08 Sep 2016 1.3m  
EAST TO HAMI 0929z 08 Sep 2016 1.2m  
HAMI 0936z 08 Sep 2016 1.1m  
AL MUKALLA 0954z 08 Sep 2016 1.2m  
RUDUM 1002z 08 Sep 2016 0.8m  
KHANFAR 1044z 08 Sep 2016 1.3m  
ADEN 1054z 08 Sep 2016 0.8m  
MAALLAH 1103z 08 Sep 2016 1.7m  
QAWAH 1120z 08 Sep 2016 0.7m  
BROM MAYFA 1144z 08 Sep 2016 0.8m  
AL MUALLA 1152z 08 Sep 2016 0.8m  
AHWAR 1912z 08 Sep 2016 0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:  
IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

6. CONTACT INFORMATION

IOTWMS-TSP INDIA:  
INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)  
Indian National Centre for Ocean Information Services (INCOIS)  
Address:"ocean valley", Pragathi Nagar (Bo), Nizampet (So),  
Hyderabad - 500 090, India

Phone: 91-40-23895011  
Fax: 91-40-23895012  
Email: tsunami@incois.gov.in  
Web: www.incois.gov.inEND OF BULLETIN

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TEST  
TEST TEST TEST  
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```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
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TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST
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TSUNAMI BULLETIN NUMBER 8  
 IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)  
 ISSUED AT 1101 UTC Thursday 08 September 2016

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
 Depth: 10 km  
 Date: 08 SEP 2016  
 Origin Time: 0600UTC  
 Latitude: 24.8 N  
 Longitude: 62.2 E  
 Location: OFF COAST OF PAKISTAN

### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
 Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m
Hanimaadhoo(MALDIVE ISLANDS)	6.77 N	73.17 E	0935z	08 Sep 2016	2.6m
Cochin(INDIA)	9.97 N	76.27 E	0953z	08 Sep 2016	2.2m
Male(MALDIVE ISLANDS)	4.19 N	73.53 E	1006z	08 Sep 2016	2.5m
Aden(YEMEN)	12.7 N	44.98 E	1024z	08 Sep 2016	1.9m
Colombo(SRILANKA)	6.95 N	79.85 E	1042z	08 Sep 2016	1.0m

### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

#### BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1100z	08 Sep 2016	0.8m
NW EGMONT ISLAND	1116z	08 Sep 2016	0.7m
DIEGO GARCIA	1142z	08 Sep 2016	1.6m

#### COMOROS

CHEZANI	1335z	08 Sep 2016	0.7m
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DJIBOUTI

NW ARTA	1127z	08 Sep 2016	1.6m
MUHAMMAD ALI BIN FATHA SUMANA	1131z	08 Sep 2016	0.8m

FRENCH SOUTHERN TERRITORIES

FRENCH SOUTHERN AND ANTARCTIC LANDS	1854z	08 Sep 2016	1.4m
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HEARD ISLAND AND MCDONLAD ISLANDS

HEARD ISLAND AND MCDONALD ISLANDS	1954z	08 Sep 2016	0.7m
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INDIA

MANDVI	0804z	08 Sep 2016	2.7m
DWARKA	0808z	08 Sep 2016	2.0m
PORBANDAR	0809z	08 Sep 2016	1.8m
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AGATTI	0856z	08 Sep 2016	2.0m
AMINI	0903z	08 Sep 2016	1.2m
KAVARATTI	0911z	08 Sep 2016	1.0m
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ANJANWEL	0924z	08 Sep 2016	1.7m
KARWAR	0933z	08 Sep 2016	1.8m
ANDROTH	0948z	08 Sep 2016	0.8m
MANGALORE	0955z	08 Sep 2016	1.5m
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ALIBAG PORT	0956z	08 Sep 2016	1.4m
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MADAYI KANNUR	1004z	08 Sep 2016	1.2m
ALLEPPEY ALAPPUZHA	1005z	08 Sep 2016	1.3m
MUMBAI	1006z	08 Sep 2016	1.4m
MANATTALA	1008z	08 Sep 2016	1.3m
TIRURANGADI	1011z	08 Sep 2016	1.2m
VIRAR	1011z	08 Sep 2016	1.7m
BEYPORE	1013z	08 Sep 2016	1.3m
COCHIN	1014z	08 Sep 2016	1.3m
AMRELI	1014z	08 Sep 2016	1.3m
QUILON	1016z	08 Sep 2016	1.1m
MAHUVA	1020z	08 Sep 2016	1.5m
BORSI	1025z	08 Sep 2016	1.4m
TRIVANDRUM	1026z	08 Sep 2016	1.2m
KANYAKUMARI	1037z	08 Sep 2016	1.4m
DAMAN	1050z	08 Sep 2016	1.7m
KOODANKULAM	1112z	08 Sep 2016	1.2m
TUTICORIN	1152z	08 Sep 2016	1.3m
RAMESWARAM	1426z	08 Sep 2016	0.7m

INDONESIA

SUMUT NIAS B	1918z	08 Sep 2016	0.6m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	08 Sep 2016	0.6m
NAD NAGAN-RAYA	0029z	09 Sep 2016	0.5m
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	09 Sep 2016	0.5m
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NIAS	0411z	09 Sep 2016	0.5m
NIAS-EAST	0412z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m

IRAN

PUSHT	0604z	08 Sep 2016	7.1m
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KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m

MADAGASCAR

VOHEMAR	1302z	08 Sep 2016	1.3m
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MALDIVES

GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
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MAURITIUS

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MOZAMBIQUE

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TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m

OMAN

QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
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HASIK	0806z	08 Sep 2016	1.5m
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MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
BAKI	1124z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m

TANZANIA

BAGAMOYO	1508z	08 Sep 2016	0.8m
RUUU	1646z	08 Sep 2016	0.7m
JIMBO	1649z	08 Sep 2016	0.8m
MADANGWA	1829z	08 Sep 2016	0.6m
MSASANI	1840z	08 Sep 2016	0.8m
SONGO SONGO ISLAND	2101z	08 Sep 2016	0.6m
ZANZIBAR	2135z	08 Sep 2016	0.8m
WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m

KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m
UNITED ARAB EMIRATES			
-----			
KALBA	0717z	08 Sep 2016	1.7m
YEMEN			
-----			
DAMQAWT	0835z	08 Sep 2016	0.9m
SOCOTRA ISLAND SOUTH	0847z	08 Sep 2016	1.7m
AL GHAYDAH AIRPORT	0848z	08 Sep 2016	1.9m
SOCOTRA ISLAND NORTH	0850z	08 Sep 2016	1.1m
HUSWAYN	0903z	08 Sep 2016	1.4m
ALQUMRAH	0912z	08 Sep 2016	1.1m
SOCOTRA ISLAND WEST	0913z	08 Sep 2016	0.6m
MASILAH WADI	0920z	08 Sep 2016	1.1m
HARRAH	0923z	08 Sep 2016	1.3m
EAST TO HAMI	0929z	08 Sep 2016	1.2m
HAMI	0936z	08 Sep 2016	1.1m
AL MUKALLA	0954z	08 Sep 2016	1.2m
RUDUM	1002z	08 Sep 2016	0.8m
KHANFAR	1044z	08 Sep 2016	1.3m
ADEN	1054z	08 Sep 2016	0.8m
MAALLAH	1103z	08 Sep 2016	1.7m
QAWAH	1120z	08 Sep 2016	0.7m
BROM MAYFA	1144z	08 Sep 2016	0.8m
AL MUALLA	1152z	08 Sep 2016	0.8m
AHWAR	1912z	08 Sep 2016	0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

#### OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:  
IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

#### 6. CONTACT INFORMATION

IOTWMS-TSP INDIA:  
INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)



[illegible]

```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST  
-----
```

TSUNAMI BULLETIN NUMBER 9  
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)  
ISSUED AT 1202 UTC Thursday 08 September 2016  
-----

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
Depth: 10 km  
Date: 08 SEP 2016  
Origin Time: 0600UTC  
Latitude: 24.8 N  
Longitude: 62.2 E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m
Hanimaadhoo(MALDIVE ISLANDS)	6.77 N	73.17 E	0935z	08 Sep 2016	2.6m
Cochin(INDIA)	9.97 N	76.27 E	0953z	08 Sep 2016	2.2m
Male(MALDIVE ISLANDS)	4.19 N	73.53 E	1006z	08 Sep 2016	2.5m
Aden(YEMEN)	12.7 N	44.98 E	1024z	08 Sep 2016	1.9m
Colombo(SRILANKA)	6.95 N	79.85 E	1042z	08 Sep 2016	1.0m
Denis Island(SEYCHELLES)	3.80 S	55.67 E	1122z	08 Sep 2016	1.8m
Agalega(MAURITIUS)	10.3 S	56.59 E	1155z	08 Sep 2016	0.9m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

#### BRITISH INDIAN OCEAN TERRITORY

```
-----  
MORESBY ISLAND          1100z   08 Sep 2016 0.8m  
NW EGMONT ISLAND        1116z   08 Sep 2016 0.7m  
DIEGO GARCIA            1142z   08 Sep 2016 1.6m
```

COMOROS

-----				
CHEZANI	1335z	08 Sep 2016	0.7m	
DJIBOUTI				
-----				
NW ARTA	1127z	08 Sep 2016	1.6m	
MUHAMMAD ALI BIN FATHA SUMANA	1131z	08 Sep 2016	0.8m	
FRENCH SOUTHERN TERRITORIES				
-----				
FRENCH SOUTHERN AND ANTARCTIC LANDS	1854z	08 Sep 2016	1.4m	
HEARD ISLAND AND MCDONLAD ISLANDS				
-----				
HEARD ISLAND AND MCDONALD ISLANDS	1954z	08 Sep 2016	0.7m	
INDIA				
-----				
MANDVI	0804z	08 Sep 2016	2.7m	
DWARKA	0808z	08 Sep 2016	2.0m	
PORBANDAR	0809z	08 Sep 2016	1.8m	
VERAVAL	0822z	08 Sep 2016	1.9m	
AGATTI	0856z	08 Sep 2016	2.0m	
AMINI	0903z	08 Sep 2016	1.2m	
KAVARATTI	0911z	08 Sep 2016	1.0m	
MALVAN BAY	0914z	08 Sep 2016	1.7m	
PANAJI	0922z	08 Sep 2016	1.6m	
ANJANWEL	0924z	08 Sep 2016	1.7m	
KARWAR	0933z	08 Sep 2016	1.8m	
ANDROTH	0948z	08 Sep 2016	0.8m	
MANGALORE	0955z	08 Sep 2016	1.5m	
CHANDRAGIRI FORT	0956z	08 Sep 2016	1.4m	
ALIBAG PORT	0956z	08 Sep 2016	1.4m	
UDUPI	0957z	08 Sep 2016	1.8m	
MADAYI KANNUR	1004z	08 Sep 2016	1.2m	
ALLEPPEY ALAPPUZHA	1005z	08 Sep 2016	1.3m	
MUMBAI	1006z	08 Sep 2016	1.4m	
MANATTALA	1008z	08 Sep 2016	1.3m	
TIRURANGADI	1011z	08 Sep 2016	1.2m	
VIRAR	1011z	08 Sep 2016	1.7m	
BEYPORE	1013z	08 Sep 2016	1.3m	
COCHIN	1014z	08 Sep 2016	1.3m	
AMRELI	1014z	08 Sep 2016	1.3m	
QUILON	1016z	08 Sep 2016	1.1m	
MAHUVA	1020z	08 Sep 2016	1.5m	
BORSI	1025z	08 Sep 2016	1.4m	
TRIVANDRUM	1026z	08 Sep 2016	1.2m	
KANYAKUMARI	1037z	08 Sep 2016	1.4m	
DAMAN	1050z	08 Sep 2016	1.7m	
KOODANKULAM	1112z	08 Sep 2016	1.2m	
TUTICORIN	1152z	08 Sep 2016	1.3m	
RAMESWARAM	1426z	08 Sep 2016	0.7m	
INDONESIA				
-----				
SUMUT NIAS B	1918z	08 Sep 2016	0.6m	
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	08 Sep 2016	0.6m	
NAD NAGAN-RAYA	0029z	09 Sep 2016	0.5m	
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	09 Sep 2016	0.5m	
MUARASIBERUT	0328z	09 Sep 2016	0.7m	
SUMBAR KOTA-PADANG U	0339z	09 Sep 2016	0.6m	
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	09 Sep 2016	0.6m	
NIAS	0411z	09 Sep 2016	0.5m	
NIAS-EAST	0412z	09 Sep 2016	0.6m	

LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m
IRAN			
-----			
PUSHT	0604z	08 Sep 2016	7.1m
BIR	0632z	08 Sep 2016	3.3m
MISKI	0747z	08 Sep 2016	1.9m
KENYA			
-----			
MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m
MADAGASCAR			
-----			
VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
AMBAHY	1556z	08 Sep 2016	1.0m
TOAMASINA AIRPORT	1645z	08 Sep 2016	0.8m
MANANTENINA	1750z	08 Sep 2016	0.7m
BALY	2018z	08 Sep 2016	0.5m
ANOROTSANGANA	2351z	08 Sep 2016	0.7m
GLORIOSO ISLANDS	2357z	08 Sep 2016	0.6m
MALDIVES			
-----			
GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
HITHADHOO	1030z	08 Sep 2016	1.0m
KOLHUFUSHI	1035z	08 Sep 2016	0.9m
MAURITIUS			
-----			
CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m
MOZAMBIQUE			
-----			
MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m
OMAN			
-----			
QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m

AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
BAKI	1124z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m

TANZANIA

BAGAMOYO	1508z	08 Sep 2016	0.8m
RUVU	1646z	08 Sep 2016	0.7m
JIMBO	1649z	08 Sep 2016	0.8m
MADANGWA	1829z	08 Sep 2016	0.6m
MSASANI	1840z	08 Sep 2016	0.8m
SONGO SONGO ISLAND	2101z	08 Sep 2016	0.6m
ZANZIBAR	2135z	08 Sep 2016	0.8m

WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m
KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m

UNITED ARAB EMIRATES

KALBA	0717z	08 Sep 2016	1.7m
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YEMEN

DAMQAWT	0835z	08 Sep 2016	0.9m
SOCOTRA ISLAND SOUTH	0847z	08 Sep 2016	1.7m
AL GHAYDAH AIRPORT	0848z	08 Sep 2016	1.9m
SOCOTRA ISLAND NORTH	0850z	08 Sep 2016	1.1m
HUSWAYN	0903z	08 Sep 2016	1.4m
ALQUMRAH	0912z	08 Sep 2016	1.1m
SOCOTRA ISLAND WEST	0913z	08 Sep 2016	0.6m
MASILAH WADI	0920z	08 Sep 2016	1.1m
HARRAH	0923z	08 Sep 2016	1.3m
EAST TO HAMI	0929z	08 Sep 2016	1.2m
HAMI	0936z	08 Sep 2016	1.1m
AL MUKALLA	0954z	08 Sep 2016	1.2m
RUDUM	1002z	08 Sep 2016	0.8m
KHANFAR	1044z	08 Sep 2016	1.3m
ADEN	1054z	08 Sep 2016	0.8m
MAALLAH	1103z	08 Sep 2016	1.7m
QAWAH	1120z	08 Sep 2016	0.7m
BROM MAYFA	1144z	08 Sep 2016	0.8m
AL MUALLA	1152z	08 Sep 2016	0.8m
AHWAR	1912z	08 Sep 2016	0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

#### OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:  
 IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
 IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

#### 6. CONTACT INFORMATION

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)  
Indian National Centre for Ocean Information Services (INCOIS)  
Address: "ocean valley", Pragathi Nagar (Bo), Nizampet (So),  
Hyderabad - 500 090, India  
Phone: 91-40-23895011  
Fax: 91-40-23895012  
Email: tsunami@incois.gov.in  
Web: www.incois.gov.in

[illegible]

```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
```

```
-----
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST
-----
```

#### TSUNAMI BULLETIN NUMBER 10

IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)

ISSUED AT 1301 UTC Thursday 08 September 2016

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
 Depth: 10 km  
 Date: 08 SEP 2016  
 Origin Time: 0600UTC  
 Latitude: 24.8 N  
 Longitude: 62.2 E  
 Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
 Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m
Hanimaadhoo(MALDIVE ISLANDS)	6.77 N	73.17 E	0935z	08 Sep 2016	2.6m
Cochin(INDIA)	9.97 N	76.27 E	0953z	08 Sep 2016	2.2m
Male(MALDIVE ISLANDS)	4.19 N	73.53 E	1006z	08 Sep 2016	2.5m
Aden(YEMEN)	12.7 N	44.98 E	1024z	08 Sep 2016	1.9m
Colombo(SRILANKA)	6.95 N	79.85 E	1042z	08 Sep 2016	1.0m
Denis Island(SEYCHELLES)	3.80 S	55.67 E	1122z	08 Sep 2016	1.8m
Agalega(MAURITIUS)	10.3 S	56.59 E	1155z	08 Sep 2016	0.9m
Mombasa(KENYA)	4.07 S	39.65 E	1212z	08 Sep 2016	1.0m
Zanzibar(TANZANIA)	6.16 S	39.19 E	1244z	08 Sep 2016	1.5m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

#### BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1100z	08 Sep 2016	0.8m
NW EGMONT ISLAND	1116z	08 Sep 2016	0.7m
DIEGO GARCIA	1142z	08 Sep 2016	1.6m



COMOROS

CHEZANI 1335z 08 Sep 2016 0.7m

DJIBOUTI

NW ARTA 1127z 08 Sep 2016 1.6m

MUHAMMAD ALI BIN FATHA SUMANA 1131z 08 Sep 2016 0.8m

FRENCH SOUTHERN TERRITORIES

FRENCH SOUTHERN AND ANTARCTIC LANDS 1854z 08 Sep 2016 1.4m

HEARD ISLAND AND MCDONLAD ISLANDS

HEARD ISLAND AND MCDONALD ISLANDS 1954z 08 Sep 2016 0.7m

INDIA

MANDVI 0804z 08 Sep 2016 2.7m

DWARKA 0808z 08 Sep 2016 2.0m

PORBANDAR 0809z 08 Sep 2016 1.8m

VERAVAL 0822z 08 Sep 2016 1.9m

AGATTI 0856z 08 Sep 2016 2.0m

AMINI 0903z 08 Sep 2016 1.2m

KAVARATTI 0911z 08 Sep 2016 1.0m

MALVAN BAY 0914z 08 Sep 2016 1.7m

PANAJI 0922z 08 Sep 2016 1.6m

ANJANWEL 0924z 08 Sep 2016 1.7m

KARWAR 0933z 08 Sep 2016 1.8m

ANDROTH 0948z 08 Sep 2016 0.8m

MANGALORE 0955z 08 Sep 2016 1.5m

CHANDRAGIRI FORT 0956z 08 Sep 2016 1.4m

ALIBAG PORT 0956z 08 Sep 2016 1.4m

UDUPI 0957z 08 Sep 2016 1.8m

MADAYI KANNUR 1004z 08 Sep 2016 1.2m

ALLEPPEY ALAPPUZHA 1005z 08 Sep 2016 1.3m

MUMBAI 1006z 08 Sep 2016 1.4m

MANATTALA 1008z 08 Sep 2016 1.3m

TIRURANGADI 1011z 08 Sep 2016 1.2m

VIRAR 1011z 08 Sep 2016 1.7m

BEYPORE 1013z 08 Sep 2016 1.3m

COCHIN 1014z 08 Sep 2016 1.3m

AMRELI 1014z 08 Sep 2016 1.3m

QUILON 1016z 08 Sep 2016 1.1m

MAHUVA 1020z 08 Sep 2016 1.5m

BORSI 1025z 08 Sep 2016 1.4m

TRIVANDRUM 1026z 08 Sep 2016 1.2m

KANYAKUMARI 1037z 08 Sep 2016 1.4m

DAMAN 1050z 08 Sep 2016 1.7m

KOODANKULAM 1112z 08 Sep 2016 1.2m

TUTICORIN 1152z 08 Sep 2016 1.3m

RAMESWARAM 1426z 08 Sep 2016 0.7m

INDONESIA

SUMUT NIAS B 1918z 08 Sep 2016 0.6m

SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI 2046z 08 Sep 2016 0.6m

NAD NAGAN-RAYA 0029z 09 Sep 2016 0.5m

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT 0130z 09 Sep 2016 0.5m

MUARASIBERUT 0328z 09 Sep 2016 0.7m

SUMBAR KOTA-PADANG U 0339z 09 Sep 2016 0.6m

LAMPUNG LAMPUNG-SELATAN KALIANDA 0351z 09 Sep 2016 0.6m

NIAS	0411z	09 Sep 2016	0.5m
NIAS-EAST	0412z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m

IRAN

PUSHT	0604z	08 Sep 2016	7.1m
BIR	0632z	08 Sep 2016	3.3m
MISKI	0747z	08 Sep 2016	1.9m

KENYA

MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m

MADAGASCAR

VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
AMBAHY	1556z	08 Sep 2016	1.0m
TOAMASINA AIRPORT	1645z	08 Sep 2016	0.8m
MANANTENINA	1750z	08 Sep 2016	0.7m
BALY	2018z	08 Sep 2016	0.5m
ANOROTSANGANA	2351z	08 Sep 2016	0.7m
GLORIOSO ISLANDS	2357z	08 Sep 2016	0.6m

MALDIVES

GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
HITHADHOO	1030z	08 Sep 2016	1.0m
KOLHUFUSHI	1035z	08 Sep 2016	0.9m

MAURITIUS

CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m

MOZAMBIQUE

MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m

OMAN

QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m

MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
BAKI	1124z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m

TANZANIA

BAGAMOYO	1508z	08 Sep 2016	0.8m
RUVU	1646z	08 Sep 2016	0.7m
JIMBO	1649z	08 Sep 2016	0.8m
MADANGWA	1829z	08 Sep 2016	0.6m
MSASANI	1840z	08 Sep 2016	0.8m

SONGO SONGO ISLAND	2101z	08 Sep 2016	0.6m
ZANZIBAR	2135z	08 Sep 2016	0.8m
WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m
KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m

#### UNITED ARAB EMIRATES

KALBA	0717z	08 Sep 2016	1.7m
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#### YEMEN

DAMQAWT	0835z	08 Sep 2016	0.9m
SOCOTRA ISLAND SOUTH	0847z	08 Sep 2016	1.7m
AL GHAYDAH AIRPORT	0848z	08 Sep 2016	1.9m
SOCOTRA ISLAND NORTH	0850z	08 Sep 2016	1.1m
HUSWAYN	0903z	08 Sep 2016	1.4m
ALQUMRAH	0912z	08 Sep 2016	1.1m
SOCOTRA ISLAND WEST	0913z	08 Sep 2016	0.6m
MASILAH WADI	0920z	08 Sep 2016	1.1m
HARRAH	0923z	08 Sep 2016	1.3m
EAST TO HAMI	0929z	08 Sep 2016	1.2m
HAMI	0936z	08 Sep 2016	1.1m
AL MUKALLA	0954z	08 Sep 2016	1.2m
RUDUM	1002z	08 Sep 2016	0.8m
KHANFAR	1044z	08 Sep 2016	1.3m
ADEN	1054z	08 Sep 2016	0.8m
MAALLAH	1103z	08 Sep 2016	1.7m
QAWAH	1120z	08 Sep 2016	0.7m
BROM MAYFA	1144z	08 Sep 2016	0.8m
AL MUALLA	1152z	08 Sep 2016	0.8m
AHWAR	1912z	08 Sep 2016	0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

#### OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:  
 IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
 IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

## 6. CONTACT INFORMATION

IOTWMS-TSP INDIA:

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)

Indian National Centre for Ocean Information Services (INCOIS)

Address:"ocean valley", Pragathi Nagar (Bo), Nizampet (So),  
Hyderabad - 500 090, India

Phone: 91-40-23895011

Fax: 91-40-23895012

Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)

Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN

[illegible]

#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####

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TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST  
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TSUNAMI BULLETIN NUMBER 11  
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)  
ISSUED AT 1400 UTC Thursday 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
Depth: 10 km  
Date: 08 SEP 2016  
Origin Time: 0600UTC  
Latitude: 24.8 N  
Longitude: 62.2 E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m
Hanimaadhoo(MALDIVE ISLANDS)	6.77 N	73.17 E	0935z	08 Sep 2016	2.6m
Cochin(INDIA)	9.97 N	76.27 E	0953z	08 Sep 2016	2.2m
Male(MALDIVE ISLANDS)	4.19 N	73.53 E	1006z	08 Sep 2016	2.5m
Aden(YEMEN)	12.7 N	44.98 E	1024z	08 Sep 2016	1.9m
Colombo(SRILANKA)	6.95 N	79.85 E	1042z	08 Sep 2016	1.0m
Denis Island(SEYCHELLES)	3.80 S	55.67 E	1122z	08 Sep 2016	1.8m
Agalega(MAURITIUS)	10.3 S	56.59 E	1155z	08 Sep 2016	0.9m
Mombasa(KENYA)	4.07 S	39.65 E	1212z	08 Sep 2016	1.0m
Zanzibar(TANZANIA)	6.16 S	39.19 E	1244z	08 Sep 2016	1.5m
Pemba(MOCAMBIQUE)	12.9 S	40.49 E	1304z	08 Sep 2016	0.9m
Visakhapatnam(INDIA)	17.6 N	83.28 E	1313z	08 Sep 2016	0.2m
Rodrigue(MAURITIUS)	19.6 S	63.42 E	1314z	08 Sep 2016	1.3m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

BRITISH INDIAN OCEAN TERRITORY  
-----

MORESBY ISLAND	1100z	08 Sep 2016	0.8m
NW EGMONT ISLAND	1116z	08 Sep 2016	0.7m
DIEGO GARCIA	1142z	08 Sep 2016	1.6m

COMOROS

CHEZANI	1335z	08 Sep 2016	0.7m
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DJIBOUTI

NW ARTA	1127z	08 Sep 2016	1.6m
MUHAMMAD ALI BIN FATHA SUMANA	1131z	08 Sep 2016	0.8m

FRENCH SOUTHERN TERRITORIES

FRENCH SOUTHERN AND ANTARCTIC LANDS	1854z	08 Sep 2016	1.4m
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HEARD ISLAND AND MCDONALD ISLANDS

HEARD ISLAND AND MCDONALD ISLANDS	1954z	08 Sep 2016	0.7m
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INDIA

MANDVI	0804z	08 Sep 2016	2.7m
DWARKA	0808z	08 Sep 2016	2.0m
PORBANDAR	0809z	08 Sep 2016	1.8m
VERAVAL	0822z	08 Sep 2016	1.9m
AGATTI	0856z	08 Sep 2016	2.0m
AMINI	0903z	08 Sep 2016	1.2m
KAVARATTI	0911z	08 Sep 2016	1.0m
MALVAN BAY	0914z	08 Sep 2016	1.7m
PANAJI	0922z	08 Sep 2016	1.6m
ANJANWEL	0924z	08 Sep 2016	1.7m
KARWAR	0933z	08 Sep 2016	1.8m
ANDROTH	0948z	08 Sep 2016	0.8m
MANGALORE	0955z	08 Sep 2016	1.5m
ALIBAG PORT	0956z	08 Sep 2016	1.4m
CHANDRAGIRI FORT	0956z	08 Sep 2016	1.4m
UDUPI	0957z	08 Sep 2016	1.8m
MADAYI KANNUR	1004z	08 Sep 2016	1.2m
ALLEPPEY ALAPPUZHA	1005z	08 Sep 2016	1.3m
MUMBAI	1006z	08 Sep 2016	1.4m
MANATTALA	1008z	08 Sep 2016	1.3m
TIRURANGADI	1011z	08 Sep 2016	1.2m
VIRAR	1011z	08 Sep 2016	1.7m
BEYPORE	1013z	08 Sep 2016	1.3m
AMRELI	1014z	08 Sep 2016	1.3m
COCHIN	1014z	08 Sep 2016	1.3m
QUILON	1016z	08 Sep 2016	1.1m
MAHUVA	1020z	08 Sep 2016	1.5m
BORSI	1025z	08 Sep 2016	1.4m
TRIVANDRUM	1026z	08 Sep 2016	1.2m
KANYAKUMARI	1037z	08 Sep 2016	1.4m
DAMAN	1050z	08 Sep 2016	1.7m
KOODANKULAM	1112z	08 Sep 2016	1.2m
TUTICORIN	1152z	08 Sep 2016	1.3m
RAMESWARAM	1426z	08 Sep 2016	0.7m

INDONESIA

SUMUT NIAS B	1918z	08 Sep 2016	0.6m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	08 Sep 2016	0.6m
NAD NAGAN-RAYA	0029z	09 Sep 2016	0.5m
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	09 Sep 2016	0.5m

MUARASIBERUT	0328z	09 Sep 2016	0.7m
SUMBAR KOTA-PADANG U	0339z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	09 Sep 2016	0.6m
NIAS	0411z	09 Sep 2016	0.5m
NIAS-EAST	0412z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m

#### IRAN

PUSHT	0604z	08 Sep 2016	7.1m
BIR	0632z	08 Sep 2016	3.3m
MISKI	0747z	08 Sep 2016	1.9m

#### KENYA

MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
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MVULENI	0653z	09 Sep 2016	0.7m

#### MADAGASCAR

VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
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NILANDHOO	0956z	08 Sep 2016	1.4m
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#### MAURITIUS

CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m

#### MOZAMBIQUE

MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m

#### OMAN

QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m



AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
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SEYCHELLES

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SOMALIA

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JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
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SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
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ZANZIBAR	2135z	08 Sep 2016	0.8m
WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m
KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m

UNITED ARAB EMIRATES

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KALBA	0717z	08 Sep 2016	1.7m
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YEMEN

-----

DAMQAWT	0835z	08 Sep 2016	0.9m
SOCOTRA ISLAND SOUTH	0847z	08 Sep 2016	1.7m
AL GHAYDAH AIRPORT	0848z	08 Sep 2016	1.9m
SOCOTRA ISLAND NORTH	0850z	08 Sep 2016	1.1m
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ALQUMRAH	0912z	08 Sep 2016	1.1m
SOCOTRA ISLAND WEST	0913z	08 Sep 2016	0.6m
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HARRAH	0923z	08 Sep 2016	1.3m
EAST TO HAMI	0929z	08 Sep 2016	1.2m
HAMI	0936z	08 Sep 2016	1.1m
AL MUKALLA	0954z	08 Sep 2016	1.2m
RUDUM	1002z	08 Sep 2016	0.8m
KHANFAR	1044z	08 Sep 2016	1.3m
ADEN	1054z	08 Sep 2016	0.8m
MAALLAH	1103z	08 Sep 2016	1.7m
QAWAH	1120z	08 Sep 2016	0.7m
BROM MAYFA	1144z	08 Sep 2016	0.8m
AL MUALLA	1152z	08 Sep 2016	0.8m
AHWAR	1912z	08 Sep 2016	0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

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#### 5. UPDATES

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OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

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 IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
 IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

## 6. CONTACT INFORMATION

IOTWMS-TSP INDIA:

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)

Indian National Centre for Ocean Information Services (INCOIS)

Address:"ocean valley", Pragathi Nagar (Bo), Nizampet (So),

Hyderabad - 500 090, India

Phone: 91-40-23895011

Fax: 91-40-23895012

Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)

Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN

[illegible]

```
#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST  
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```

TSUNAMI BULLETIN NUMBER 12  
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)  
ISSUED AT 1500 UTC Thursday 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
Depth: 10 km  
Date: 08 SEP 2016  
Origin Time: 0600UTC  
Latitude: 24.8 N  
Longitude: 62.2 E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m
Hanimaadhoo(MALDIVE ISLANDS)	6.77 N	73.17 E	0935z	08 Sep 2016	2.6m
Cochin(INDIA)	9.97 N	76.27 E	0953z	08 Sep 2016	2.2m
Male(MALDIVE ISLANDS)	4.19 N	73.53 E	1006z	08 Sep 2016	2.5m
Aden(YEMEN)	12.7 N	44.98 E	1024z	08 Sep 2016	1.9m
Colombo(SRILANKA)	6.95 N	79.85 E	1042z	08 Sep 2016	1.0m
Denis Island(SEYCHELLES)	3.80 S	55.67 E	1122z	08 Sep 2016	1.8m
Agalega(MAURITIUS)	10.3 S	56.59 E	1155z	08 Sep 2016	0.9m
Mombasa(KENYA)	4.07 S	39.65 E	1212z	08 Sep 2016	1.0m
Zanzibar(TANZANIA)	6.16 S	39.19 E	1244z	08 Sep 2016	1.5m
Pemba(MOCAMBIQUE)	12.9 S	40.49 E	1304z	08 Sep 2016	0.9m
Visakhapatnam(INDIA)	17.6 N	83.28 E	1313z	08 Sep 2016	0.2m
Rodrigue(MAURITIUS)	19.6 S	63.42 E	1314z	08 Sep 2016	1.3m
seblat(INDONESIA)	3.22 S	101.60 E	1423z	08 Sep 2016	0.7m
Sittwe(MYANMAR)	20.1 N	92.90 E	1430z	08 Sep 2016	0.3m
Christmas Island(AUSTRALIA)	10.4 S	105.67 E	1456z	08 Sep 2016	0.6m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1100z	08 Sep 2016	0.8m
NW EGMONT ISLAND	1116z	08 Sep 2016	0.7m
DIEGO GARCIA	1142z	08 Sep 2016	1.6m

COMOROS

CHEZANI	1335z	08 Sep 2016	0.7m
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DJIBOUTI

NW ARTA	1127z	08 Sep 2016	1.6m
MUHAMMAD ALI BIN FATHA SUMANA	1131z	08 Sep 2016	0.8m

FRENCH SOUTHERN TERRITORIES

FRENCH SOUTHERN AND ANTARCTIC LANDS	1854z	08 Sep 2016	1.4m
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HEARD ISLAND AND MCDONLAD ISLANDS

HEARD ISLAND AND MCDONALD ISLANDS	1954z	08 Sep 2016	0.7m
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INDIA

MANDVI	0804z	08 Sep 2016	2.7m
DWARKA	0808z	08 Sep 2016	2.0m
PORBANDAR	0809z	08 Sep 2016	1.8m
VERAVAL	0822z	08 Sep 2016	1.9m
AGATTI	0856z	08 Sep 2016	2.0m
AMINI	0903z	08 Sep 2016	1.2m
KAVARATTI	0911z	08 Sep 2016	1.0m
MALVAN BAY	0914z	08 Sep 2016	1.7m
PANAJI	0922z	08 Sep 2016	1.6m
ANJANWEL	0924z	08 Sep 2016	1.7m
KARWAR	0933z	08 Sep 2016	1.8m
ANDROTH	0948z	08 Sep 2016	0.8m
MANGALORE	0955z	08 Sep 2016	1.5m
CHANDRAGIRI FORT	0956z	08 Sep 2016	1.4m
ALIBAG PORT	0956z	08 Sep 2016	1.4m
UDUPI	0957z	08 Sep 2016	1.8m
MADAYI KANNUR	1004z	08 Sep 2016	1.2m
ALLEPPEY ALAPPUZHA	1005z	08 Sep 2016	1.3m
MUMBAI	1006z	08 Sep 2016	1.4m
MANATTALA	1008z	08 Sep 2016	1.3m
TIRURANGADI	1011z	08 Sep 2016	1.2m
VIRAR	1011z	08 Sep 2016	1.7m
BEYPORE	1013z	08 Sep 2016	1.3m
COCHIN	1014z	08 Sep 2016	1.3m
AMRELI	1014z	08 Sep 2016	1.3m
QUILON	1016z	08 Sep 2016	1.1m
MAHUVA	1020z	08 Sep 2016	1.5m
BORSI	1025z	08 Sep 2016	1.4m
TRIVANDRUM	1026z	08 Sep 2016	1.2m
KANYAKUMARI	1037z	08 Sep 2016	1.4m
DAMAN	1050z	08 Sep 2016	1.7m
KOODANKULAM	1112z	08 Sep 2016	1.2m
TUTICORIN	1152z	08 Sep 2016	1.3m
RAMESWARAM	1426z	08 Sep 2016	0.7m

INDONESIA

SUMUT NIAS B	1918z	08 Sep 2016	0.6m
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SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	08 Sep 2016	0.6m
NAD NAGAN-RAYA	0029z	09 Sep 2016	0.5m
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	09 Sep 2016	0.5m
MUARASIBERUT	0328z	09 Sep 2016	0.7m
SUMBAR KOTA-PADANG U	0339z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	09 Sep 2016	0.6m
NIAS	0411z	09 Sep 2016	0.5m
NIAS-EAST	0412z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m

#### IRAN

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PUSHT	0604z	08 Sep 2016	7.1m
BIR	0632z	08 Sep 2016	3.3m
MISKI	0747z	08 Sep 2016	1.9m

#### KENYA

-----

MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m

#### MADAGASCAR

-----

VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
AMBAHY	1556z	08 Sep 2016	1.0m
TOAMASINA AIRPORT	1645z	08 Sep 2016	0.8m
MANANTENINA	1750z	08 Sep 2016	0.7m
BALY	2018z	08 Sep 2016	0.5m
ANOROTSANGANA	2351z	08 Sep 2016	0.7m
GLORIOSO ISLANDS	2357z	08 Sep 2016	0.6m

#### MALDIVES

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GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
HITHADHOO	1030z	08 Sep 2016	1.0m
KOLHUFUSHI	1035z	08 Sep 2016	0.9m

#### MAURITIUS

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CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m

#### MOZAMBIQUE

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MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m

#### OMAN

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QURAYYAT	0627z	08 Sep 2016	3.6m
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MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

#### PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

#### SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

#### SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
BAKI	1124z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

#### SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m

#### TANZANIA

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BAGAMOYO          1508z  08 Sep 2016 0.8m
RUVU              1646z  08 Sep 2016 0.7m
JIMBO            1649z  08 Sep 2016 0.8m
MADANGWA        1829z  08 Sep 2016 0.6m
MSASANI         1840z  08 Sep 2016 0.8m
SONGO SONGO ISLAND 2101z  08 Sep 2016 0.6m
ZANZIBAR        2135z  08 Sep 2016 0.8m
WEST TO KONDE    2147z  08 Sep 2016 0.6m
VUMBA           2205z  08 Sep 2016 0.6m
KUTANI          2314z  08 Sep 2016 0.7m
VUMBI           0441z  09 Sep 2016 0.5m

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UNITED ARAB EMIRATES

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KALBA             0717z  08 Sep 2016 1.7m

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YEMEN

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DAMQAWT          0835z  08 Sep 2016 0.9m
SOCOTRA ISLAND SOUTH 0847z  08 Sep 2016 1.7m
AL GHAYDAH AIRPORT 0848z  08 Sep 2016 1.9m
SOCOTRA ISLAND NORTH 0850z  08 Sep 2016 1.1m
HUSWAYN          0903z  08 Sep 2016 1.4m
ALQUMRAH         0912z  08 Sep 2016 1.1m
SOCOTRA ISLAND WEST 0913z  08 Sep 2016 0.6m
MASILAH WADI     0920z  08 Sep 2016 1.1m
HARRAH           0923z  08 Sep 2016 1.3m
EAST TO HAMI     0929z  08 Sep 2016 1.2m
HAMI             0936z  08 Sep 2016 1.1m
AL MUKALLA       0954z  08 Sep 2016 1.2m
RUDUM           1002z  08 Sep 2016 0.8m
KHANFAR         1044z  08 Sep 2016 1.3m
ADEN            1054z  08 Sep 2016 0.8m
MAALLAH         1103z  08 Sep 2016 1.7m
QAWAH           1120z  08 Sep 2016 0.7m
BROM MAYFA      1144z  08 Sep 2016 0.8m
AL MUALLA       1152z  08 Sep 2016 0.8m
AHWAR           1912z  08 Sep 2016 0.6m

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Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available



OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

6. CONTACT INFORMATION

IOTWMS-TSP INDIA:

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)

Indian National Centre for Ocean Information Services (INCOIS)

Address:"ocean valley", Pragathi Nagar (Bo), Nizampet (So),

Hyderabad - 500 090, India

Phone: 91-40-23895011

Fax: 91-40-23895012

Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)

Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN

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TEST  
TEST TEST TEST  
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```
#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
#####
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TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST
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#### TSUNAMI BULLETIN NUMBER 13

IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)

ISSUED AT 1601 UTC Thursday 08 September 2016

... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
 Depth: 10 km  
 Date: 08 SEP 2016  
 Origin Time: 0600UTC  
 Latitude: 24.8 N  
 Longitude: 62.2 E  
 Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
 Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
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Christmas Island(AUSTRALIA)	10.4 S	105.67 E	1456z	08 Sep 2016	0.6m
Cilicap(INDONESIA)	7.75 S	109.01 E	1536z	08 Sep 2016	0.5m
Sadeng(INDONESIA)	8.19 S	110.80 E	1549z	08 Sep 2016	0.5m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.

The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

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COMOROS

CHEZANI	1335z	08 Sep 2016	0.7m
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DJIBOUTI

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FRENCH SOUTHERN AND ANTARCTIC LANDS	1854z	08 Sep 2016	1.4m
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HITHADHOO	1030z	08 Sep	2016	1.0m
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AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
BAKI	1124z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m
BERUWALA	1839z	08 Sep 2016	0.5m

TANZANIA

BAGAMOYO	1508z	08 Sep 2016	0.8m
RUVU	1646z	08 Sep 2016	0.7m
JIMBO	1649z	08 Sep 2016	0.8m
MADANGWA	1829z	08 Sep 2016	0.6m
MSASANI	1840z	08 Sep 2016	0.8m
SONGO SONGO ISLAND	2101z	08 Sep 2016	0.6m
ZANZIBAR	2135z	08 Sep 2016	0.8m
WEST TO KONDE	2147z	08 Sep 2016	0.6m
VUMBA	2205z	08 Sep 2016	0.6m
KUTANI	2314z	08 Sep 2016	0.7m
VUMBI	0441z	09 Sep 2016	0.5m

UNITED ARAB EMIRATES

KALBA	0717z	08 Sep 2016	1.7m
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YEMEN

DAMQAWT	0835z	08 Sep 2016	0.9m
SOCOTRA ISLAND SOUTH	0847z	08 Sep 2016	1.7m
AL GHAYDAH AIRPORT	0848z	08 Sep 2016	1.9m
SOCOTRA ISLAND NORTH	0850z	08 Sep 2016	1.1m
HUSWAYN	0903z	08 Sep 2016	1.4m
ALQUMRAH	0912z	08 Sep 2016	1.1m
SOCOTRA ISLAND WEST	0913z	08 Sep 2016	0.6m
MASILAH WADI	0920z	08 Sep 2016	1.1m
HARRAH	0923z	08 Sep 2016	1.3m
EAST TO HAMI	0929z	08 Sep 2016	1.2m
HAMI	0936z	08 Sep 2016	1.1m
AL MUKALLA	0954z	08 Sep 2016	1.2m
RUDUM	1002z	08 Sep 2016	0.8m
KHANFAR	1044z	08 Sep 2016	1.3m
ADEN	1054z	08 Sep 2016	0.8m
MAALLAH	1103z	08 Sep 2016	1.7m
QAWAH	1120z	08 Sep 2016	0.7m
BROM MAYFA	1144z	08 Sep 2016	0.8m
AL MUALLA	1152z	08 Sep 2016	0.8m
AHWAR	1912z	08 Sep 2016	0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more

information becomes available

OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

6. CONTACT INFORMATION

IOTWMS-TSP INDIA:

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)

Indian National Centre for Ocean Information Services (INCOIS)

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Hyderabad - 500 090, India

Phone: 91-40-23895011

Fax: 91-40-23895012

Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)

Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN

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TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST  
TEST TEST TEST  
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#####  
#  
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT  
#  
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TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST  
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TSUNAMI BULLETIN NUMBER 14  
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)  
ISSUED AT 1700 UTC Thursday 08 September 2016  
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... CONFIRMED TSUNAMI THREAT IN THE INDIAN OCEAN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

#### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
Depth: 10 km  
Date: 08 SEP 2016  
Origin Time: 0600UTC  
Latitude: 24.8 N  
Longitude: 62.2 E  
Location: OFF COAST OF PAKISTAN

#### 2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.  
Maximum wave amplitudes observed so far:

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m
Hanimaadhoo(MALDIVE ISLANDS)	6.77 N	73.17 E	0935z	08 Sep 2016	2.6m
Cochin(INDIA)	9.97 N	76.27 E	0953z	08 Sep 2016	2.2m
Male(MALDIVE ISLANDS)	4.19 N	73.53 E	1006z	08 Sep 2016	2.5m
Aden(YEMEN)	12.7 N	44.98 E	1024z	08 Sep 2016	1.9m
Colombo(SRILANKA)	6.95 N	79.85 E	1042z	08 Sep 2016	1.0m
Denis Island(SEYCHELLES)	3.80 S	55.67 E	1122z	08 Sep 2016	1.8m
Agalega(MAURITIUS)	10.3 S	56.59 E	1155z	08 Sep 2016	0.9m
Mombasa(KENYA)	4.07 S	39.65 E	1212z	08 Sep 2016	1.0m
Zanzibar(TANZANIA)	6.16 S	39.19 E	1244z	08 Sep 2016	1.5m
Pemba(MOCAMBIQUE)	12.9 S	40.49 E	1304z	08 Sep 2016	0.9m
Visakhapatnam(INDIA)	17.6 N	83.28 E	1313z	08 Sep 2016	0.2m
Rodrigue(MAURITIUS)	19.6 S	63.42 E	1314z	08 Sep 2016	1.3m
seblat(INDONESIA)	3.22 S	101.60 E	1423z	08 Sep 2016	0.7m
Sittwe(MYANMAR)	20.1 N	92.90 E	1430z	08 Sep 2016	0.3m
Christmas Island(AUSTRALIA)	10.4 S	105.67 E	1456z	08 Sep 2016	0.6m
Cilicap(INDONESIA)	7.75 S	109.01 E	1536z	08 Sep 2016	0.5m
Sadeng(INDONESIA)	8.19 S	110.80 E	1549z	08 Sep 2016	0.5m
Prigi(INDONESIA)	8.28 S	111.73 E	1604z	08 Sep 2016	0.5m

#### 3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the threshold amplitude at the beach are not shown.



The list is grouped by country (alphabetic order) and ordered according to the earliest estimated times of arrival at the beach.

BRITISH INDIAN OCEAN TERRITORY

MORESBY ISLAND	1100z	08 Sep 2016	0.8m
NW EGMONT ISLAND	1116z	08 Sep 2016	0.7m
DIEGO GARCIA	1142z	08 Sep 2016	1.6m

COMOROS

CHEZANI	1335z	08 Sep 2016	0.7m
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DJIBOUTI

NW ARTA	1127z	08 Sep 2016	1.6m
MUHAMMAD ALI BIN FATHA SUMANA	1131z	08 Sep 2016	0.8m

FRENCH SOUTHERN TERRITORIES

FRENCH SOUTHERN AND ANTARCTIC LANDS	1854z	08 Sep 2016	1.4m
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HEARD ISLAND AND MCDONALD ISLANDS

HEARD ISLAND AND MCDONALD ISLANDS	1954z	08 Sep 2016	0.7m
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INDIA

MANDVI	0804z	08 Sep 2016	2.7m
DWARKA	0808z	08 Sep 2016	2.0m
PORBANDAR	0809z	08 Sep 2016	1.8m
VERAVAL	0822z	08 Sep 2016	1.9m
AGATTI	0856z	08 Sep 2016	2.0m
AMINI	0903z	08 Sep 2016	1.2m
KAVARATTI	0911z	08 Sep 2016	1.0m
MALVAN BAY	0914z	08 Sep 2016	1.7m
PANAJI	0922z	08 Sep 2016	1.6m
ANJANWEL	0924z	08 Sep 2016	1.7m
KARWAR	0933z	08 Sep 2016	1.8m
ANDROTH	0948z	08 Sep 2016	0.8m
MANGALORE	0955z	08 Sep 2016	1.5m
CHANDRAGIRI FORT	0956z	08 Sep 2016	1.4m
ALIBAG PORT	0956z	08 Sep 2016	1.4m
UDUPI	0957z	08 Sep 2016	1.8m
MADAYI KANNUR	1004z	08 Sep 2016	1.2m
ALLEPPEY ALAPPUZHA	1005z	08 Sep 2016	1.3m
MUMBAI	1006z	08 Sep 2016	1.4m
MANATTALA	1008z	08 Sep 2016	1.3m
TIRURANGADI	1011z	08 Sep 2016	1.2m
VIRAR	1011z	08 Sep 2016	1.7m
BEYPORE	1013z	08 Sep 2016	1.3m
COCHIN	1014z	08 Sep 2016	1.3m
AMRELI	1014z	08 Sep 2016	1.3m
QUILON	1016z	08 Sep 2016	1.1m
MAHUVA	1020z	08 Sep 2016	1.5m
BORSI	1025z	08 Sep 2016	1.4m
TRIVANDRUM	1026z	08 Sep 2016	1.2m
KANYAKUMARI	1037z	08 Sep 2016	1.4m
DAMAN	1050z	08 Sep 2016	1.7m
KOODANKULAM	1112z	08 Sep 2016	1.2m
TUTICORIN	1152z	08 Sep 2016	1.3m
RAMESWARAM	1426z	08 Sep 2016	0.7m

INDONESIA

SUMUT NIAS B	1918z	08 Sep 2016	0.6m
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	08 Sep 2016	0.6m
NAD NAGAN-RAYA	0029z	09 Sep 2016	0.5m
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	09 Sep 2016	0.5m
MUARASIBERUT	0328z	09 Sep 2016	0.7m
SUMBAR KOTA-PADANG U	0339z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	09 Sep 2016	0.6m
NIAS	0411z	09 Sep 2016	0.5m
NIAS-EAST	0412z	09 Sep 2016	0.6m
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	09 Sep 2016	0.5m
BANTEN PANDEGLANG U	0617z	09 Sep 2016	0.5m

IRAN

PUSHT	0604z	08 Sep 2016	7.1m
BIR	0632z	08 Sep 2016	3.3m
MISKI	0747z	08 Sep 2016	1.9m

KENYA

MALINDI	1433z	08 Sep 2016	1.5m
KIPINI	1434z	08 Sep 2016	0.8m
KISIMACHANDE	1455z	08 Sep 2016	0.9m
KIWAYU	1719z	08 Sep 2016	1.2m
MVULENI	0653z	09 Sep 2016	0.7m

MADAGASCAR

VOHEMAR	1302z	08 Sep 2016	1.3m
TAMPOLO	1555z	08 Sep 2016	0.8m
AMBAHY	1556z	08 Sep 2016	1.0m
TOAMASINA AIRPORT	1645z	08 Sep 2016	0.8m
MANANTENINA	1750z	08 Sep 2016	0.7m
BALY	2018z	08 Sep 2016	0.5m
ANOROTSANGANA	2351z	08 Sep 2016	0.7m
GLORIOSO ISLANDS	2357z	08 Sep 2016	0.6m

MALDIVES

GOIDHOO	0927z	08 Sep 2016	1.7m
KULHUDUFFUSHI	0929z	08 Sep 2016	1.9m
FERIDHOO	0948z	08 Sep 2016	1.2m
NILANDHOO	0956z	08 Sep 2016	1.4m
DHIYAMIGILI	1004z	08 Sep 2016	1.1m
MALE	1010z	08 Sep 2016	2.2m
THINADHOO	1020z	08 Sep 2016	1.6m
HITHADHOO	1030z	08 Sep 2016	1.0m
KOLHUFUSHI	1035z	08 Sep 2016	0.9m

MAURITIUS

CARGADOS CARAJOS	1413z	08 Sep 2016	0.9m
LA FERME	1414z	08 Sep 2016	0.6m

MOZAMBIQUE

MAGANJA	1632z	08 Sep 2016	1.1m
MERONVI	1757z	08 Sep 2016	0.9m
QUITERAJO	1902z	08 Sep 2016	0.7m
TAVARI	1942z	08 Sep 2016	0.9m
PEMBA	2333z	08 Sep 2016	0.5m

OMAN

QURAYYAT	0627z	08 Sep 2016	3.6m
MUSCAT	0628z	08 Sep 2016	3.8m
SUR	0631z	08 Sep 2016	3.4m
BARKA	0645z	08 Sep 2016	2.4m
AL ASHKHARAH	0649z	08 Sep 2016	3.2m
AL KHABURAH	0654z	08 Sep 2016	1.4m
SOHAR	0702z	08 Sep 2016	2.0m
MASIRAH	0702z	08 Sep 2016	1.7m
RAS AR RUWAYS	0710z	08 Sep 2016	3.1m
AD DUQM	0730z	08 Sep 2016	2.6m
EAST MUSANDAM	0742z	08 Sep 2016	2.7m
HASIK	0806z	08 Sep 2016	1.5m
AL JAZER	0813z	08 Sep 2016	1.2m
MIRBAT	0818z	08 Sep 2016	0.5m
SALALAH	0828z	08 Sep 2016	1.7m
TAQAH	1754z	08 Sep 2016	0.6m

PAKISTAN

ORMARA	0603z	08 Sep 2016	7.2m
WINDER	0604z	08 Sep 2016	4.8m
KARACHI	0704z	08 Sep 2016	3.2m
SINDH	0724z	08 Sep 2016	2.6m

SEYCHELLES

FREGATE ISLAND	1050z	08 Sep 2016	1.2m
TAKAMAKA	1146z	08 Sep 2016	1.1m

SOMALIA

TOOXIN	0927z	08 Sep 2016	1.5m
BANDER-BEYLA	0935z	08 Sep 2016	1.2m
QANDALA	0947z	08 Sep 2016	0.6m
EYL	0950z	08 Sep 2016	0.8m
ABO	0952z	08 Sep 2016	1.9m
GALDOGOB	1005z	08 Sep 2016	1.1m
XARARDHEERE	1031z	08 Sep 2016	1.2m
CEEL DHEER	1045z	08 Sep 2016	1.3m
MAREEG	1050z	08 Sep 2016	1.0m
MUQDISHO	1101z	08 Sep 2016	0.7m
SAYLAC	1118z	08 Sep 2016	0.6m
BAKI	1124z	08 Sep 2016	0.6m
LOYADO	1124z	08 Sep 2016	0.8m
NE BEERNAASI	1514z	08 Sep 2016	1.2m
JARIIBAN	1605z	08 Sep 2016	0.8m
MAYDH	1923z	08 Sep 2016	0.7m
BARAAWE	1942z	08 Sep 2016	0.9m
JILIB	2005z	08 Sep 2016	0.5m
ITALA	2024z	08 Sep 2016	0.8m
UARSCIECH	2025z	08 Sep 2016	0.6m
KAAMBOONI	0031z	09 Sep 2016	0.6m

SRI LANKA

COLOMBO	1109z	08 Sep 2016	0.6m
AMBALANGODA	1118z	08 Sep 2016	0.7m
MATARA	1142z	08 Sep 2016	0.7m
GALLE	1156z	08 Sep 2016	0.8m
MORATUWA	1747z	08 Sep 2016	0.7m
HAMBANTOTA	1748z	08 Sep 2016	0.7m
KIRINDA	1753z	08 Sep 2016	0.8m

BERUWALA 1839z 08 Sep 2016 0.5m

TANZANIA

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BAGAMOYO 1508z 08 Sep 2016 0.8m  
RUVU 1646z 08 Sep 2016 0.7m  
JIMBO 1649z 08 Sep 2016 0.8m  
MADANGWA 1829z 08 Sep 2016 0.6m  
MSASANI 1840z 08 Sep 2016 0.8m  
SONGO SONGO ISLAND 2101z 08 Sep 2016 0.6m  
ZANZIBAR 2135z 08 Sep 2016 0.8m  
WEST TO KONDE 2147z 08 Sep 2016 0.6m  
VUMBA 2205z 08 Sep 2016 0.6m  
KUTANI 2314z 08 Sep 2016 0.7m  
VUMBI 0441z 09 Sep 2016 0.5m

UNITED ARAB EMIRATES

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KALBA 0717z 08 Sep 2016 1.7m

YEMEN

-----  
DAMQAWT 0835z 08 Sep 2016 0.9m  
SOCOTRA ISLAND SOUTH 0847z 08 Sep 2016 1.7m  
AL GHAYDAH AIRPORT 0848z 08 Sep 2016 1.9m  
SOCOTRA ISLAND NORTH 0850z 08 Sep 2016 1.1m  
HUSWAYN 0903z 08 Sep 2016 1.4m  
ALQUMRAH 0912z 08 Sep 2016 1.1m  
SOCOTRA ISLAND WEST 0913z 08 Sep 2016 0.6m  
MASILAH WADI 0920z 08 Sep 2016 1.1m  
HARRAH 0923z 08 Sep 2016 1.3m  
EAST TO HAMI 0929z 08 Sep 2016 1.2m  
HAMI 0936z 08 Sep 2016 1.1m  
AL MUKALLA 0954z 08 Sep 2016 1.2m  
RUDUM 1002z 08 Sep 2016 0.8m  
KHANFAR 1044z 08 Sep 2016 1.3m  
ADEN 1054z 08 Sep 2016 0.8m  
MAALLAH 1103z 08 Sep 2016 1.7m  
QAWAH 1120z 08 Sep 2016 0.7m  
BROM MAYFA 1144z 08 Sep 2016 0.8m  
AL MUALLA 1152z 08 Sep 2016 0.8m  
AHWAR 1912z 08 Sep 2016 0.6m

Please be aware that actual wave arrival times may differ from those below, and the initial wave may not be the largest. A tsunami is a series of waves and the time between successive waves can be five minutes to one hour.

The threat is deemed to have passed two hours after the forecast time for last exceedance of the 0.5m threat threshold for a zone. As local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities.

4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

5. UPDATES

Additional bulletins will be issued by IOTWMS-TSP INDIA for this event as more information becomes available

OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:

IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>

IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

6. CONTACT INFORMATION

IOTWMS-TSP INDIA:

INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)

Indian National Centre for Ocean Information Services (INCOIS)

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Hyderabad - 500 090, India

Phone: 91-40-23895011

Fax: 91-40-23895012

Email: [tsunami@incois.gov.in](mailto:tsunami@incois.gov.in)

Web: [www.incois.gov.in](http://www.incois.gov.in)END OF BULLETIN

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TEST  
TEST TEST TEST  
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#####
#
#   TEST TEST TEST - EXERCISE IOWAVE16 - NOT A REAL TSUNAMI EVENT
#
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TEST TEST TEST EXERCISE IOWAVE16 TEST TEST TEST TEST TEST TEST TEST TEST
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TSUNAMI BULLETIN NUMBER 15  
 IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)  
 ISSUED AT 1801 UTC Thursday 08 September 2016

... FINAL TSUNAMI BULLETIN ...

This bulletin applies to areas within and bordering the Indian Ocean.

It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

### 1. EARTHQUAKE INFORMATION

IOTWMS-TSP INDIA has detected an earthquake with the following preliminary information:

Magnitude: 9 M Mwp  
 Depth: 10 km  
 Date: 08 SEP 2016  
 Origin Time: 0600  
 Latitude: 24.8 N  
 Longitude: 62.2 E  
 Location: OFF COAST OF PAKISTAN

### 2. EVALUATION

Data from sea-level gauges confirmed that a tsunami was generated. The expected period of significant tsunami waves is now over for all threatened Indian Ocean countries, based on IOTWMS-TSP INDIA modelling. Because local conditions can cause a wide variation in tsunami wave action, CANCELLATION of national warnings and ALL CLEAR determination must be made by national/state/local authorities. Please be aware that dangerous currents can continue for several hours after the main tsunami waves have passed.

### 3. TSUNAMI WAVE OBSERVATIONS

Listed below are maximum wave amplitudes recorded at the specified locations. Note that wave amplitude is measured relative to normal sea level: it is NOT the crest-to-trough wave height.

Jask(IRAN)	25.6 N	57.77 E	0614z	08 Sep 2016	7.2m
Karachi(PAKISTAN)	24.8 N	66.97 E	0642z	08 Sep 2016	5.2m
Masirah(OMAN)	20.6 N	58.87 E	0712z	08 Sep 2016	4.7m
Salalah(OMAN)	16.9 N	54.01 E	0817z	08 Sep 2016	2.7m
Hanimaadhoo(MALDIVE ISLANDS)	6.77 N	73.17 E	0935z	08 Sep 2016	2.6m
Cochin(INDIA)	9.97 N	76.27 E	0953z	08 Sep 2016	2.2m
Male(MALDIVE ISLANDS)	4.19 N	73.53 E	1006z	08 Sep 2016	2.5m
Aden(YEMEN)	12.7 N	44.98 E	1024z	08 Sep 2016	1.9m
Colombo(SRILANKA)	6.95 N	79.85 E	1042z	08 Sep 2016	1.0m
Denis Island(SEYCHELLES)	3.80 S	55.67 E	1122z	08 Sep 2016	1.8m
Agalega(MAURITIUS)	10.3 S	56.59 E	1155z	08 Sep 2016	0.9m
Mombasa(KENYA)	4.07 S	39.65 E	1212z	08 Sep 2016	1.0m
Zanzibar(TANZANIA)	6.16 S	39.19 E	1244z	08 Sep 2016	1.5m
Pemba(MOCAMBIQUE)	12.9 S	40.49 E	1304z	08 Sep 2016	0.9m
Visakhapatnam(INDIA)	17.6 N	83.28 E	1313z	08 Sep 2016	0.2m
Rodrigue(MAURITIUS)	19.6 S	63.42 E	1314z	08 Sep 2016	1.3m
seblat(INDONESIA)	3.22 S	101.60 E	1423z	08 Sep 2016	0.7m
Sittwe(MYANMAR)	20.1 N	92.90 E	1430z	08 Sep 2016	0.3m
Christmas Island(AUSTRALIA)	10.4 S	105.67 E	1456z	08 Sep 2016	0.6m
Cilicap(INDONESIA)	7.75 S	109.01 E	1536z	08 Sep 2016	0.5m

Sadeng (INDONESIA)	8.19 S	110.80 E	1549z	08 Sep 2016	0.5m
Prigi (INDONESIA)	8.28 S	111.73 E	1604z	08 Sep 2016	0.5m
Point Murat (AUSTRALIA)	21.8 S	114.19 E	1705z	08 Sep 2016	0.6m

#### 4. ADVICE

This bulletin is being issued as advice. Only national/state/local authorities and disaster management officers have the authority to make decisions regarding the official threat and warning status in their coastal areas and any action to be taken in response.

#### 4. UPDATE

No further bulletins will be issued by IOTWMS-TSP INDIA for this event unless additional information becomes available.

6. OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:  
 IOTWMS-TSP AUSTRALIA: <http://reg.bom.gov.au/tsunami/rtsp/>  
 IOTWMS-TSP INDONESIA: <http://inatews.bmkg.gov.id>

## 7. CONTACT INFORMATION

IOTWMS-TSP INDIA:  
INDIAN TSUNAMI EARLY WARNING CENTRE (ITEWC)  
Indian National Centre for Ocean Information Services (INCOIS)  
Address:"ocean valley", Pragathi Nagar (Bo), Nizampet (So),  
Hyderabad - 500 090, India  
Phone: 91-40-23895011  
Fax: 91-40-23895012  
Email: tsunami@incois.gov.in  
Web: www.incois.gov.in

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