

EXERCISE INDIAN OCEAN WAVE 20

An Indian Ocean-wide Tsunami Warning and Communications Exercise 6–20 October 2020

Volume 1

Exercise Manual

Supplement 3

TSP Bulletins for Scenario 3: Makran Trench

To be issued by the TSPs to NTWCs/TWFPs on 20 October 2020

UNESCO

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Prepared by the Exercise IOWave20 Task Team for the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System.

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INTRODUCTION

This document contains all the products generated by the Tsunami Service Providers (TSPs) in Australia, India and Indonesia in advance of the Makran Trench scenario of Exercise Indian Ocean Wave 2020 (IOWave20) to be conducted on 20 October 2020.

1. TSP AUSTRALIA MAPS

M7.9

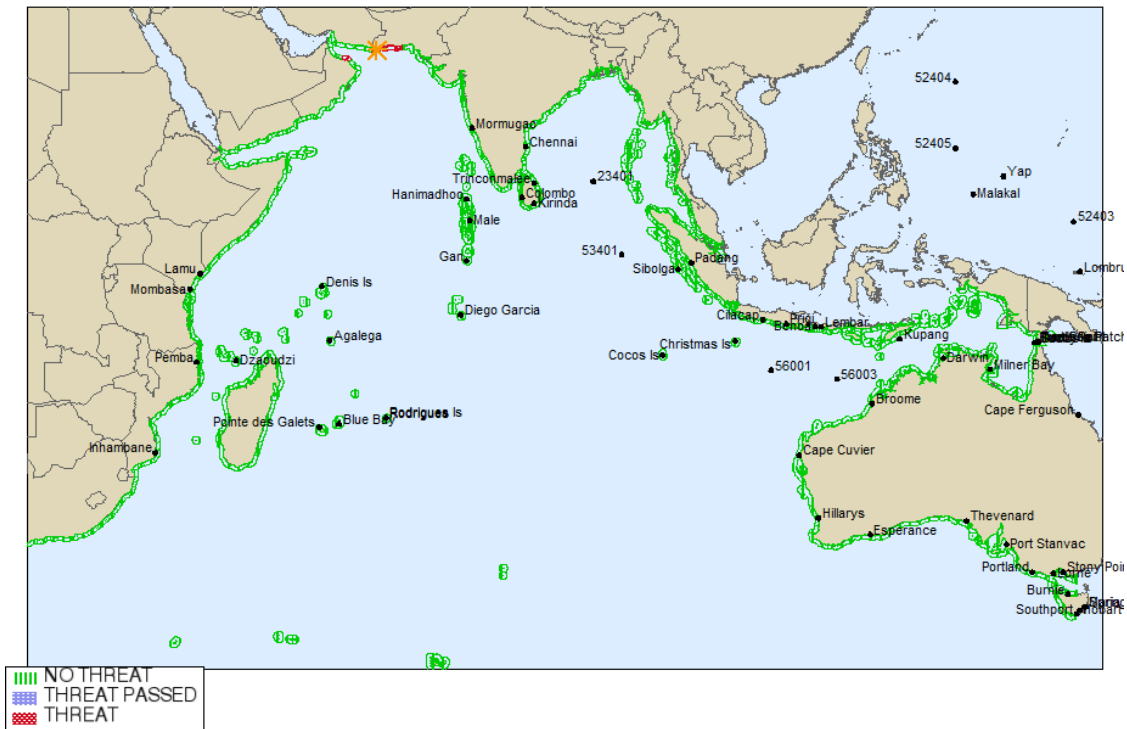


Figure S3-1. Threat Map

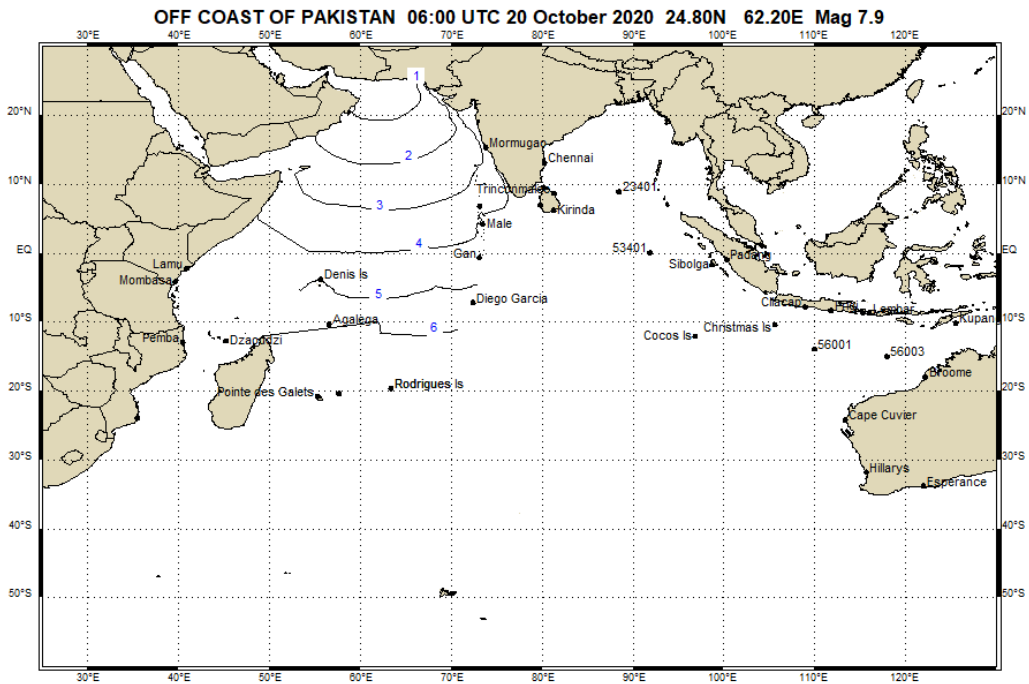


Figure S3-2. Travel Time Map

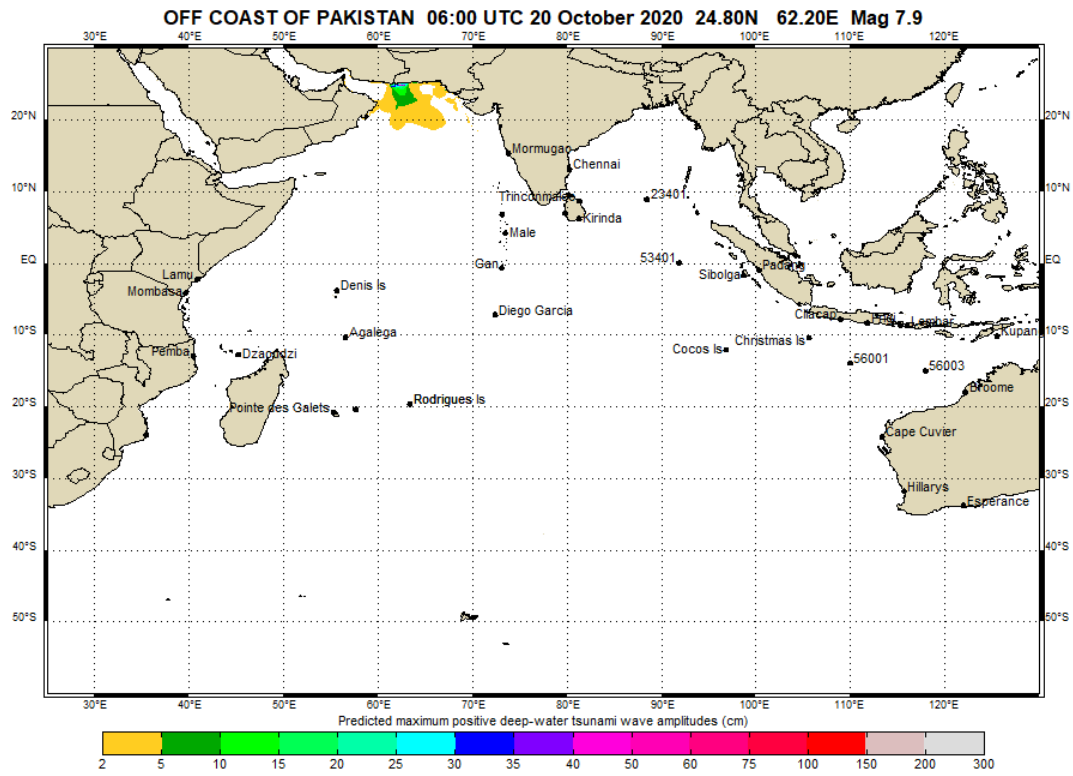


Figure S3-3. Wave Amplitude Map

M8.6

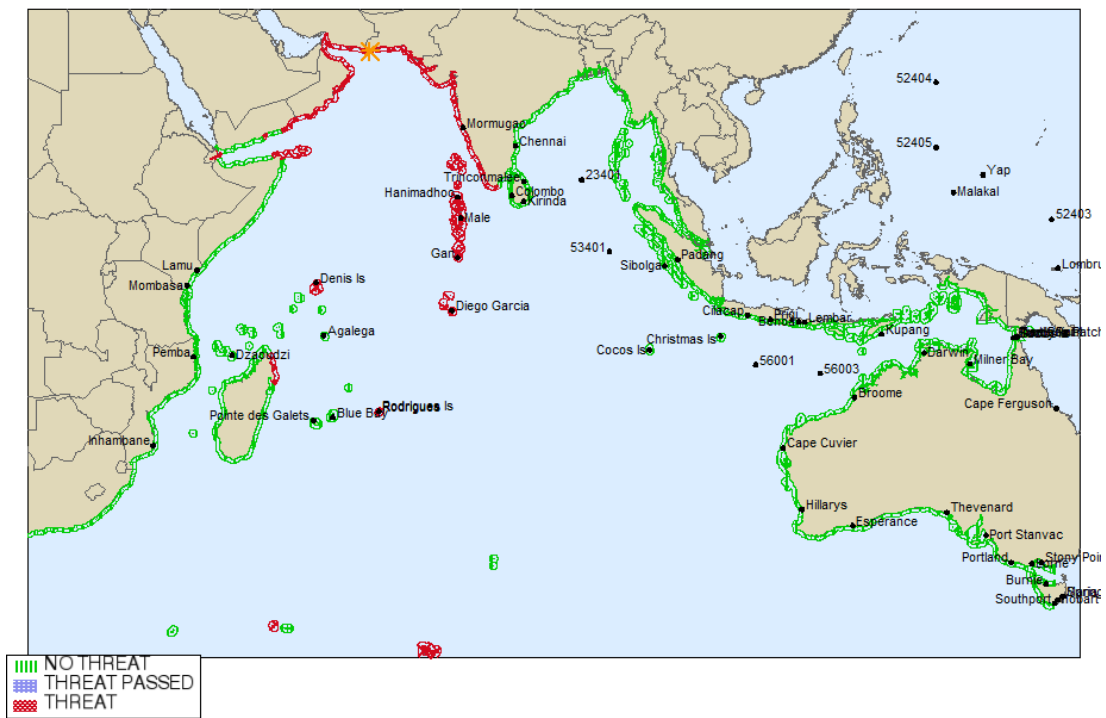


Figure S3-4. Threat Map

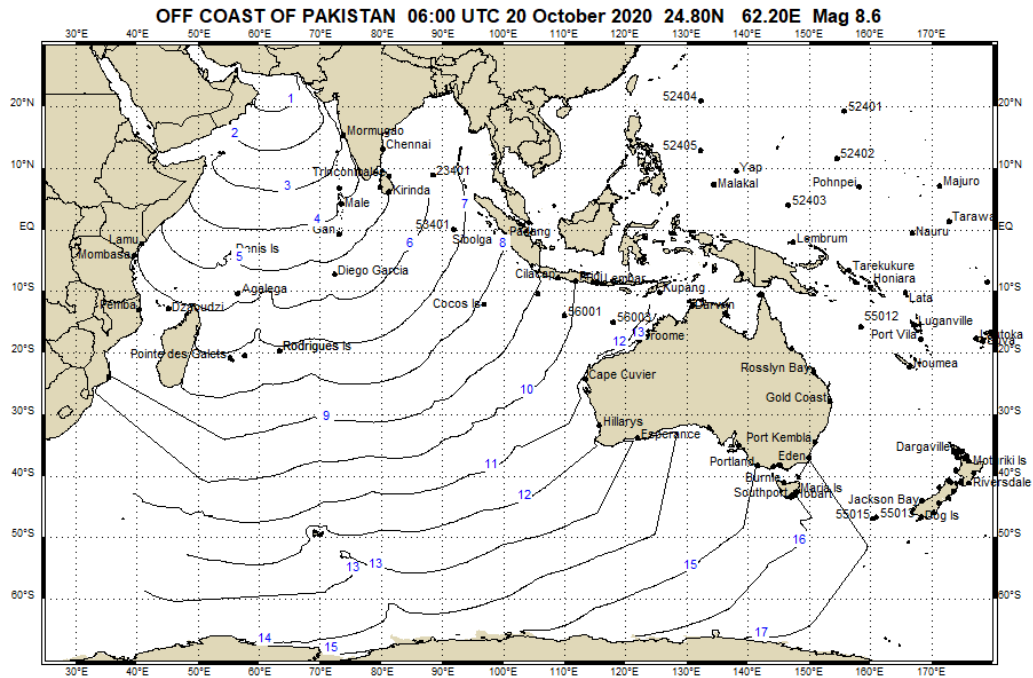


Figure S3-5. Travel Time Map

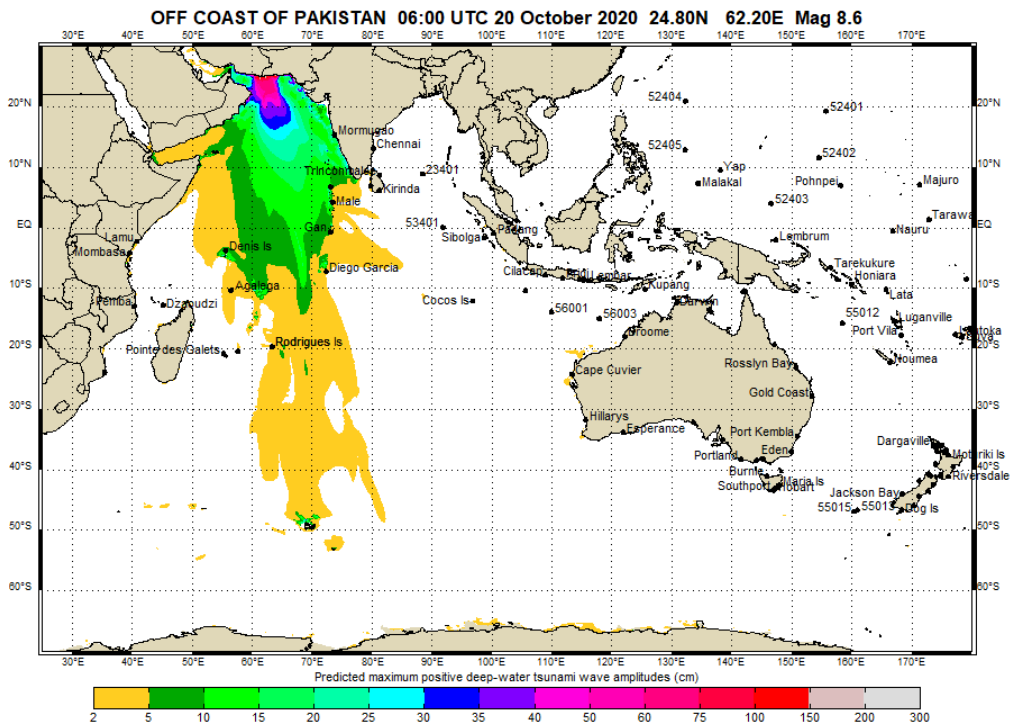


Figure S3-6. Wave Amplitude Map

M9.0

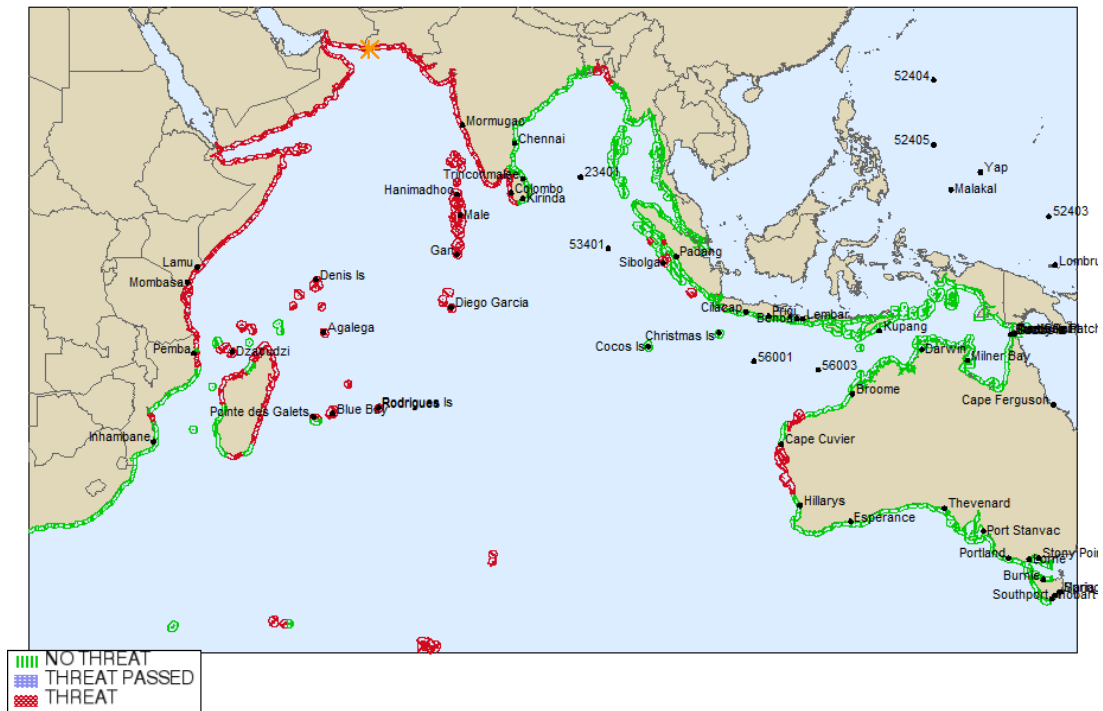


Figure S3-7. Threat Map

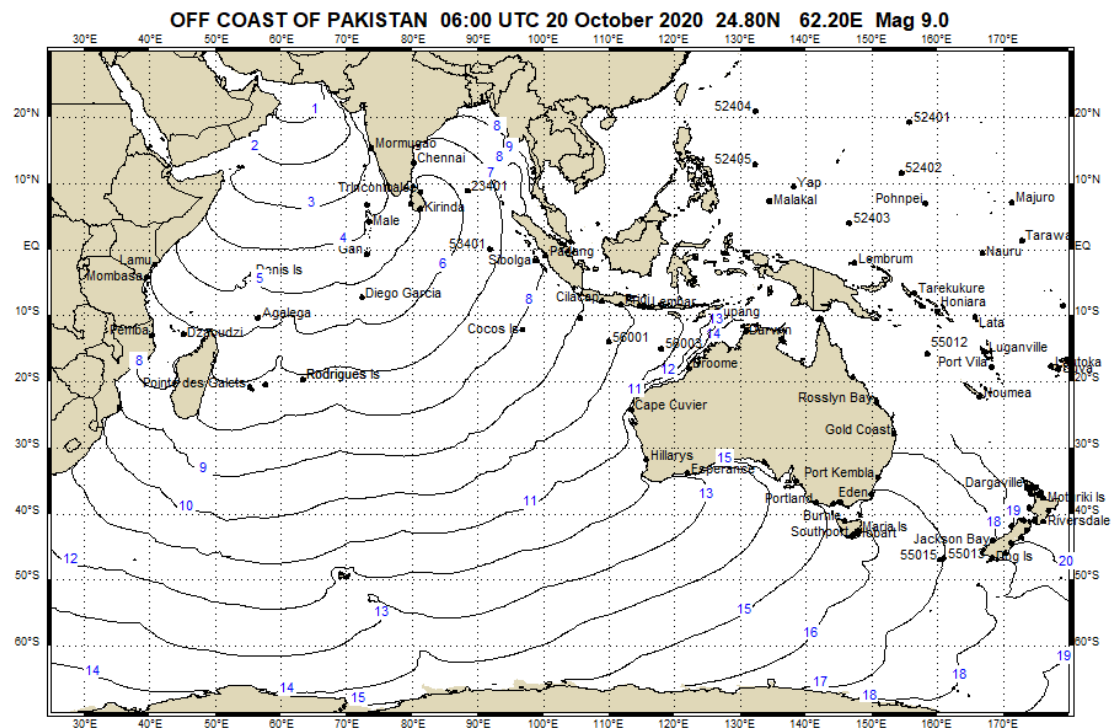


Figure S3-8. Travel Time Map

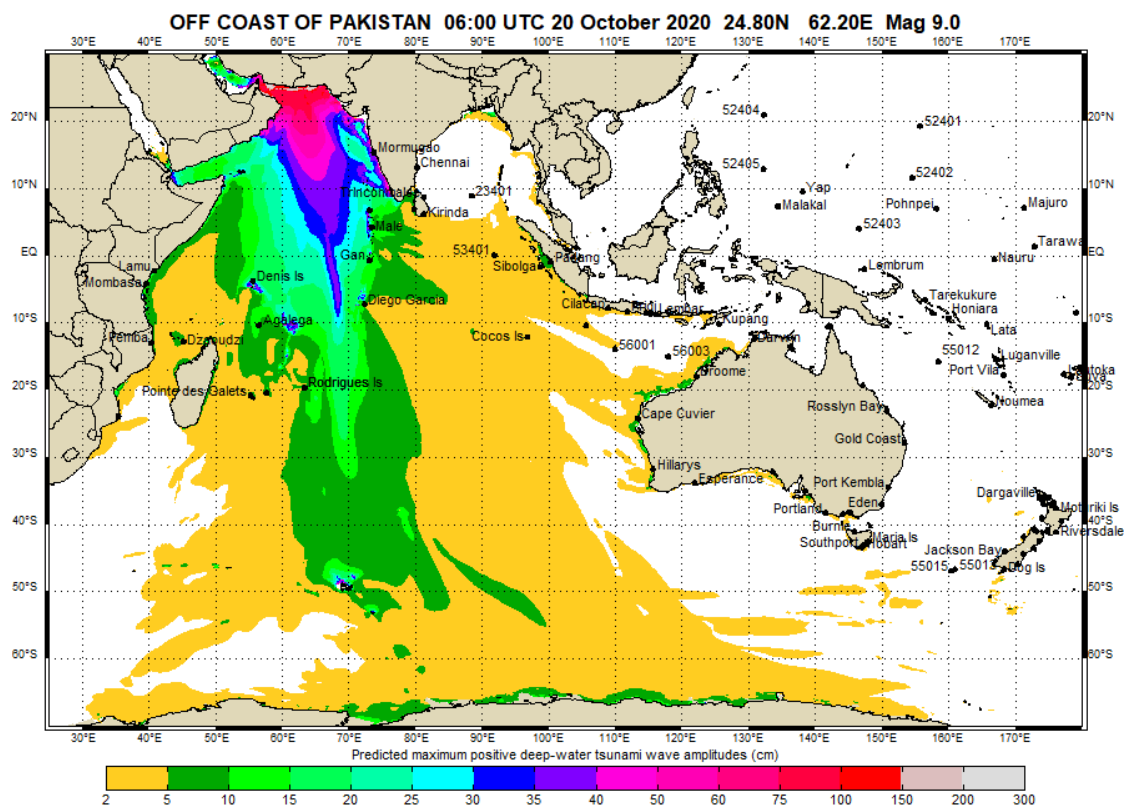


Figure S3-9. Wave Amplitude Map

2. TSP AUSTRALIA BULLETINS

BULLETIN 1

IDY68503

TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 1 (TYPE-I EARTHQUAKE BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 0612 UTC Tuesday 20 October 2020

... 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: 7.9 Mwp
Depth: 10km
Date: 20 Oct 2020
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 62.20E
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 AUSTRALIA 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://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. OTHER INDIAN OCEAN TSUNAMI SERVICE PROVIDERS:

Other IOTWMS-TSPs may issue additional information at:
IOTWMS-TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>
IOTWMS-TSP INDONESIA: <http://rtsp.bmkg.go.id>

5. CONTACT INFORMATION

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

END OF BULLETIN

#####

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#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
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BULLETIN 2

IDY68501

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#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
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-----  
TSUNAMI BULLETIN NUMBER 2 (TYPE-II THREAT ASSESSMENT BULLETIN)  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
ISSUED AT 0615 UTC Tuesday 20 October 2020  
-----
```

... 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: 7.9 Mwp
Depth: 10km
Date: 20 Oct 2020
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.

OMAN

MUSCAT 1214Z 20Oct2020 1.17m

PAKISTAN
ORMARA 0600Z 20Oct2020 1.85m

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:

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

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

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 3

IDY68501

```
#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

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-----  
TSUNAMI BULLETIN NUMBER 3 (TYPE-III CONFIRMED THREAT BULLETIN)  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
ISSUED AT 0625 UTC Tuesday 20 October 2020  
-----
```

... 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: 8.6 Mwp (REVISED)
Depth: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 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.

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HEARD ISLAND AND MCDONALD ISLANDS 2050Z 20Oct2020 0.79m

DJIBOUTI

NW ARTA 1120Z 20Oct2020 0.96m
MUHAMMAD ALI BIN FATHA SUMANA 1126Z 20Oct2020 0.77m

FRANCE

CROZET PLATEAU 1846Z 20Oct2020 0.58m
ILE KERGUELEN 1908Z 20Oct2020 0.75m

INDIA

MANDVI 0802Z 20Oct2020 1.19m
PORBANDAR 0804Z 20Oct2020 0.99m
DWARKA 0806Z 20Oct2020 1.39m
JAMNAGAR 0812Z 20Oct2020 1.12m
MANGROL 0826Z 20Oct2020 1.01m
HAZIRA, DIU 0838Z 20Oct2020 0.82m
AGATTI 0852Z 20Oct2020 1.42m
AMINI 0854Z 20Oct2020 1.43m
KAVARATTI 0902Z 20Oct2020 1.05m
MALVAN BAY 0910Z 20Oct2020 0.82m
ANDROTH 0916Z 20Oct2020 1.35m
MINICOY 0920Z 20Oct2020 0.92m
PANAJI 0924Z 20Oct2020 0.82m
VASCO 0924Z 20Oct2020 0.90m
JAIGARH 0926Z 20Oct2020 0.81m
KARWAR 0934Z 20Oct2020 0.80m
UDUPI 0952Z 20Oct2020 0.89m
MANGALORE 0952Z 20Oct2020 0.75m
KASARAGOD 0956Z 20Oct2020 0.84m
PIPAVAV 1002Z 20Oct2020 0.76m
ALLEPPEY ALAPPUZHA 1004Z 20Oct2020 0.94m
MAHE 1006Z 20Oct2020 0.96m
VADANAPPALLY 1006Z 20Oct2020 0.86m
KANNUR 1008Z 20Oct2020 0.92m
MAHUVA 1010Z 20Oct2020 0.79m
VAKKAD 1010Z 20Oct2020 0.93m
QUILON 1010Z 20Oct2020 0.80m
BEYPORE 1010Z 20Oct2020 1.08m
COCHIN 1010Z 20Oct2020 0.84m
MUMBAI 1018Z 20Oct2020 0.75m
ALIBAG PORT 1018Z 20Oct2020 0.75m
TRIVANDRUM 1024Z 20Oct2020 0.61m
TARAPUR 1026Z 20Oct2020 0.57m
HAZIRA 1028Z 20Oct2020 0.67m
DAMAN 1028Z 20Oct2020 0.57m
BORSI 1028Z 20Oct2020 0.57m
KHAMBAT 1052Z 20Oct2020 0.66m
BHARUCH 1058Z 20Oct2020 0.69m
KANYAKUMARI 1446Z 20Oct2020 0.65m
KOODANKULAM 2320Z 20Oct2020 0.53m

IRAN

PUSHT 0600Z 20Oct2020 6.93m
BIR 0628Z 20Oct2020 1.41m
MISKI 0740Z 20Oct2020 1.56m

MADAGASCAR

VOHEMAR 1300Z 20Oct2020 0.52m

MALDIVES

KULHUDUFFUSHI 0926Z 20Oct2020 1.30m
GOIDHOO 0932Z 20Oct2020 1.18m
FERIDHOO 0944Z 20Oct2020 1.27m
NILANDHOO 0956Z 20Oct2020 1.06m
DHIYAMIGILI 1002Z 20Oct2020 1.02m
MALE 1012Z 20Oct2020 0.62m
THINADHOO 1016Z 20Oct2020 0.92m

HITHADHOO 1030Z 20Oct2020 0.72m
KOLHUFUSHI 1034Z 20Oct2020 0.55m

MAURITIUS

LA FERME 1402Z 20Oct2020 1.03m

OMAN

QURAYYAT 0622Z 20Oct2020 3.36m
MUSCAT 0624Z 20Oct2020 6.59m
SUR 0626Z 20Oct2020 3.45m
AL ASHKHARAH 0632Z 20Oct2020 2.91m
BARKA 0636Z 20Oct2020 1.55m
AL KHABURAH 0642Z 20Oct2020 1.13m
RAS AR RUWAYS 0654Z 20Oct2020 1.65m
MASIRAH 0658Z 20Oct2020 1.47m
SOHAR 0706Z 20Oct2020 1.45m
AD DUQM 0722Z 20Oct2020 0.97m
EAST MUSANDAM 0736Z 20Oct2020 1.39m
AL JAZER 0750Z 20Oct2020 0.73m
HASIK 0750Z 20Oct2020 0.83m
MIRBAT 0812Z 20Oct2020 0.64m
TAQAH 0814Z 20Oct2020 0.53m
SALALAH 0822Z 20Oct2020 0.76m

PAKISTAN

ORMARA 0600Z 20Oct2020 8.55m
WINDER 0638Z 20Oct2020 1.89m
KARACHI 0714Z 20Oct2020 1.69m
SINDH 0722Z 20Oct2020 1.20m

SEYCHELLES

FREGATE ISLAND 1040Z 20Oct2020 0.97m
TAKAMAKA 1124Z 20Oct2020 0.68m

SOMALIA

ABO 0930Z 20Oct2020 0.68m

UNITED ARAB EMIRATES

KALBA 0714Z 20Oct2020 1.49m

UNITED KINGDOM

MORESBY ISLAND 1104Z 20Oct2020 1.18m
NW EGMONT ISLAND 1114Z 20Oct2020 0.79m
DIEGO GARCIA 1202Z 20Oct2020 0.90m

YEMEN

SOCOTRA ISLAND SOUTH 0830Z 20Oct2020 0.78m
DAMQAWT 0836Z 20Oct2020 0.68m
SOCOTRA ISLAND NORTH 0838Z 20Oct2020 0.79m
AL GHAYDAH AIRPORT 0846Z 20Oct2020 0.73m
SOCOTRA ISLAND WEST 0900Z 20Oct2020 0.66m
ALQUMRAH 0910Z 20Oct2020 0.58m
AL MUKALLA 0932Z 20Oct2020 0.53m
HUSWAYN 1028Z 20Oct2020 0.50m

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:

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

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 4

IDY68501

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#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
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TSUNAMI BULLETIN NUMBER 4 (TYPE-III CONFIRMED THREAT BULLETIN)  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
ISSUED AT 0640 UTC Tuesday 20 October 2020  
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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 (REVISED)
Depth: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 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.

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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.

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GASCOYNE COAST		1746Z	20Oct2020	0.59m
PILBARA COAST WEST		1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS		1936Z	20Oct2020	1.40m
AURORA BANK		1952Z	20Oct2020	0.74m
GERALDTON COAST		2324Z	20Oct2020	0.53m

BANGLADESH

COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

COMOROS

BAMBAO	1222Z	20Oct2020	0.63m
FOMBONI	1226Z	20Oct2020	0.70m
DZAOUDZI	1226Z	20Oct2020	0.53m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE

SAINT-DENIS	1324Z	20Oct2020	0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA

MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
DWARKA	0754Z	20Oct2020	2.69m
JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
AGATTI	0848Z	20Oct2020	2.55m
KAVARATTI	0856Z	20Oct2020	1.83m
MALVAN BAY	0900Z	20Oct2020	1.67m
VASCO	0912Z	20Oct2020	1.86m
ANDROTH	0912Z	20Oct2020	2.40m
PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m
MAHUVA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
MAHE	0958Z	20Oct2020	2.03m
BEYPORE	1000Z	20Oct2020	2.04m
KANNUR	1000Z	20Oct2020	1.92m
BHARUCH	1000Z	20Oct2020	1.39m
VADANAPPALLY	1000Z	20Oct2020	1.73m
VAKKAD	1002Z	20Oct2020	1.96m
COCHIN	1002Z	20Oct2020	1.64m
TARAPUR	1002Z	20Oct2020	1.32m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m
ALIBAG PORT	1004Z	20Oct2020	1.63m
BORSI	1010Z	20Oct2020	1.26m
HAZIRA	1010Z	20Oct2020	1.41m
DAMAN	1010Z	20Oct2020	1.26m
TRIVANDRUM	1016Z	20Oct2020	1.32m
KANYAKUMARI	1030Z	20Oct2020	1.07m

KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
RAMESWARAM	1132Z	20Oct2020	0.57m
KOTTAIPPATTANAM	1140Z	20Oct2020	0.50m

INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
SUMUT NIAS B	1826Z	20Oct2020	0.54m
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
MURASAIBI	2032Z	20Oct2020	0.51m
MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m

IRAN

PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m

KENYA

KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
TAKAUNGU	1220Z	20Oct2020	0.63m
KISIMACHANDE	1224Z	20Oct2020	0.74m
KIPINI	1224Z	20Oct2020	0.79m
MVULENI	1240Z	20Oct2020	0.67m

MADAGASCAR

ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m
FARAFAGANA	1516Z	20Oct2020	0.66m
SAMPONA	0304Z	21Oct2020	0.56m

MALDIVES

KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m
DHIYAMIGILI	0958Z	20Oct2020	1.89m
MALE	1004Z	20Oct2020	1.21m
THINADHOO	1012Z	20Oct2020	1.77m
KOLHUFUSHI	1022Z	20Oct2020	1.13m
HITHADHOO	1026Z	20Oct2020	1.27m

MAURITIUS

AGALEGA ISLAND	1152Z	20Oct2020	0.87m
LA FERME	1312Z	20Oct2020	1.67m
GRANDE REVIERE SUD EST-WEST	1322Z	20Oct2020	0.66m
CARGADOS CARAJOS	1322Z	20Oct2020	0.82m
GRANDE REVIERE SUD EST-EAST	1336Z	20Oct2020	0.66m

MOZAMBIQUE

MAGANJA	1238Z	20Oct2020	0.60m
QUITERAJO	1252Z	20Oct2020	0.51m
MURREBUE	1300Z	20Oct2020	0.56m
MERONVI	1300Z	20Oct2020	0.54m
LURIO	1306Z	20Oct2020	0.57m
MECUFI	1306Z	20Oct2020	0.61m
PEMBA	1308Z	20Oct2020	0.54m
NANGATA	1312Z	20Oct2020	0.59m
MINHAUINE	1314Z	20Oct2020	0.65m

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NHANGAU 0422Z 21Oct2020 0.54m

OMAN

MUSCAT	0610Z	20Oct2020	16.49m
BARKA	0614Z	20Oct2020	12.14m
AL KHABURAH	0614Z	20Oct2020	10.92m
QURAYYAT	0614Z	20Oct2020	13.16m
SUR	0622Z	20Oct2020	11.04m
SOHAR	0624Z	20Oct2020	6.42m
AL ASHKHARAH	0630Z	20Oct2020	6.55m
EAST MUSANDAM	0642Z	20Oct2020	5.07m
RAS AR RUWAYS	0652Z	20Oct2020	3.45m
MASIRAH	0654Z	20Oct2020	3.06m
AD DUQM	0720Z	20Oct2020	2.29m
HASIK	0746Z	20Oct2020	1.83m
AL JAZER	0746Z	20Oct2020	1.62m
MIRBAT	0800Z	20Oct2020	1.41m
TAQAH	0808Z	20Oct2020	1.39m
SALALAH	0814Z	20Oct2020	1.66m

PAKISTAN

ORMARA	0600Z	20Oct2020	11.71m
WINDER	0602Z	20Oct2020	5.15m
KARACHI	0652Z	20Oct2020	4.04m
SINDH	0708Z	20Oct2020	3.30m

SEYCHELLES

FREGATE ISLAND	1036Z	20Oct2020	2.18m
ILE DESROCHES	1054Z	20Oct2020	0.90m
ALPHONSE ISLAND	1114Z	20Oct2020	0.54m
TAKAMAKA	1116Z	20Oct2020	1.64m
COETIVY ISLAND	1124Z	20Oct2020	0.73m
ALDABRA	1148Z	20Oct2020	0.59m
ASTOVE ISLAND	1148Z	20Oct2020	0.52m

SOMALIA

TOOXIN	0918Z	20Oct2020	1.07m
ABO	0920Z	20Oct2020	1.60m
QANDALA	0926Z	20Oct2020	1.05m
BANDER-BEYLA	0928Z	20Oct2020	1.02m
EYL	0938Z	20Oct2020	1.20m
HADAAFTIMO	0942Z	20Oct2020	0.81m
BOSASO	0944Z	20Oct2020	0.95m
JARIIBAN	0950Z	20Oct2020	1.14m
MAYDH	0956Z	20Oct2020	0.98m
GALDOGOB	1000Z	20Oct2020	1.00m
KABURA	1014Z	20Oct2020	1.13m
XARARDHEERE	1018Z	20Oct2020	0.86m
BAKI	1022Z	20Oct2020	1.15m
CEEL DHEER	1028Z	20Oct2020	0.75m
MAREEG	1032Z	20Oct2020	0.68m
ITALA	1034Z	20Oct2020	0.63m
UARSCIECH	1046Z	20Oct2020	0.61m
MUQDISHO	1054Z	20Oct2020	0.58m
SAYLAC	1100Z	20Oct2020	1.25m
BEYNAX BARRE	1104Z	20Oct2020	0.60m
LOYADO	1108Z	20Oct2020	1.35m
BARAAWE	1110Z	20Oct2020	0.58m
JILIB	1126Z	20Oct2020	0.56m
TURDHO	1130Z	20Oct2020	0.54m
NE BEERNAASI	1136Z	20Oct2020	0.58m
KAAMBOONI	1144Z	20Oct2020	0.53m

SRI LANKA

COLOMBO	1050Z	20Oct2020	0.56m
AMBALANGODA	1052Z	20Oct2020	0.58m
BERUWALA	1054Z	20Oct2020	0.56m
GALLE	1056Z	20Oct2020	0.54m

MORATUWA	1056Z	20Oct2020	0.64m
MATARA	1056Z	20Oct2020	0.56m
MUNDAL LAKE	1100Z	20Oct2020	0.56m
NEGOMBO	1100Z	20Oct2020	0.63m
MUSALI	1156Z	20Oct2020	0.53m
MANNAR ISLAND	1206Z	20Oct2020	0.58m

TANZANIA

ZANZIBAR	1228Z	20Oct2020	0.61m
KUTANI	1230Z	20Oct2020	0.57m
WEST TO KONDE	1238Z	20Oct2020	0.82m
RUVU	1238Z	20Oct2020	0.65m
VUMBA	1242Z	20Oct2020	0.64m
SONGO SONGO ISLAND	1242Z	20Oct2020	0.53m
MADANGWA	1242Z	20Oct2020	0.65m
BOMALANDNI	1244Z	20Oct2020	0.76m
MSASANI	1244Z	20Oct2020	0.65m
VUMBI	1246Z	20Oct2020	0.58m
BAGAMOYO	1246Z	20Oct2020	0.85m
GAZIJA	1248Z	20Oct2020	0.69m
JIMBO	1258Z	20Oct2020	0.66m

UNITED ARAB EMIRATES

KALBA	0628Z	20Oct2020	5.09m
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UNITED KINGDOM

MORESBY ISLAND	1058Z	20Oct2020	1.99m
NW EGMONT ISLAND	1108Z	20Oct2020	1.63m
DIEGO GARCIA	1138Z	20Oct2020	1.52m

YEMEN

SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
DAMQAWT	0830Z	20Oct2020	1.53m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HUSWAYN	0846Z	20Oct2020	1.25m
SOCOTRA ISLAND WEST	0852Z	20Oct2020	1.54m
ALQUMRAH	0858Z	20Oct2020	1.18m
MASILAH WADI	0906Z	20Oct2020	1.03m
HARRAH	0912Z	20Oct2020	1.07m
EAST TO HAMI	0916Z	20Oct2020	0.93m
HAMI	0920Z	20Oct2020	1.25m
AL MUKALLA	0922Z	20Oct2020	1.41m
BROM MAYFA	0926Z	20Oct2020	1.24m
RUDUM	0936Z	20Oct2020	1.07m
AHWAR	0956Z	20Oct2020	0.99m
KHANFAR	1022Z	20Oct2020	1.17m
ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:

TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>
TSP INDONESIA: <http://rtsp.bmkg.go.id>

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 5

IDY68501

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#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

TSUNAMI BULLETIN NUMBER 5 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 0730 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 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			
GASCOYNE COAST	1746Z	20Oct2020	0.59m
PILBARA COAST WEST	1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS	1936Z	20Oct2020	1.40m
AURORA BANK	1952Z	20Oct2020	0.74m
GERALDTON COAST	2324Z	20Oct2020	0.53m

BANGLADESH			
COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

COMOROS			
BAMB AO	1222Z	20Oct2020	0.63m
FOMBONI	1226Z	20Oct2020	0.70m
DZAOUDZI	1226Z	20Oct2020	0.53m

DJIBOUTI			
MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE			
SAINT-DENIS	1324Z	20Oct2020	0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA			
MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
DWARKA	0754Z	20Oct2020	2.69m
JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
AGATTI	0848Z	20Oct2020	2.55m
KAVARATTI	0856Z	20Oct2020	1.83m
MALVAN BAY	0900Z	20Oct2020	1.67m
VASCO	0912Z	20Oct2020	1.86m
ANDROTH	0912Z	20Oct2020	2.40m
PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m
MAHUVA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
MAHE	0958Z	20Oct2020	2.03m
BEYPORE	1000Z	20Oct2020	2.04m
KANNUR	1000Z	20Oct2020	1.92m
BHARUCH	1000Z	20Oct2020	1.39m
VADANAPPALLY	1000Z	20Oct2020	1.73m
VAKKAD	1002Z	20Oct2020	1.96m
COCHIN	1002Z	20Oct2020	1.64m
TARAPUR	1002Z	20Oct2020	1.32m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m
ALIBAG PORT	1004Z	20Oct2020	1.63m
BORSI	1010Z	20Oct2020	1.26m

HAZIRA	1010Z	20Oct2020	1.41m
DAMAN	1010Z	20Oct2020	1.26m
TRIVANDRUM	1016Z	20Oct2020	1.32m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
RAMESWARAM	1132Z	20Oct2020	0.57m
KOTTAIPPATTANAM	1140Z	20Oct2020	0.50m

INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
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KIPINI	1224Z	20Oct2020	0.79m
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MADAGASCAR

ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m
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MALDIVES

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MALE	1004Z	20Oct2020	1.21m
THINADHOO	1012Z	20Oct2020	1.77m
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MAGANJA	1238Z	20Oct2020	0.60m
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MURREBUE	1300Z	20Oct2020	0.56m
MERONVI	1300Z	20Oct2020	0.54m
LURIO	1306Z	20Oct2020	0.57m

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MECUFI	1306Z	20Oct2020	0.61m
PEMBA	1308Z	20Oct2020	0.54m
NANGATA	1312Z	20Oct2020	0.59m
MINHAUINE	1314Z	20Oct2020	0.65m
NHANGAU	0422Z	21Oct2020	0.54m

OMAN

MUSCAT	0610Z	20Oct2020	16.49m
BARKA	0614Z	20Oct2020	12.14m
AL KHABURAH	0614Z	20Oct2020	10.92m
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EAST MUSANDAM	0642Z	20Oct2020	5.07m
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MASIRAH	0654Z	20Oct2020	3.06m
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VUMBA	1242Z	20Oct2020	0.64m
SONGO SONGO ISLAND	1242Z	20Oct2020	0.53m
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BOMALANDNI	1244Z	20Oct2020	0.76m
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GAZIJA	1248Z	20Oct2020	0.69m
JIMBO	1258Z	20Oct2020	0.66m

UNITED ARAB EMIRATES

KALBA	0628Z	20Oct2020	5.09m
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UNITED KINGDOM

MORESBY ISLAND	1058Z	20Oct2020	1.99m
NW EGMONT ISLAND	1108Z	20Oct2020	1.63m
DIEGO GARCIA	1138Z	20Oct2020	1.52m

YEMEN

SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
DAMQAWT	0830Z	20Oct2020	1.53m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HUSWAYN	0846Z	20Oct2020	1.25m
SOCOTRA ISLAND WEST	0852Z	20Oct2020	1.54m
ALQUMRAH	0858Z	20Oct2020	1.18m
MASILAH WADI	0906Z	20Oct2020	1.03m
HARRAH	0912Z	20Oct2020	1.07m
EAST TO HAMI	0916Z	20Oct2020	0.93m
HAMI	0920Z	20Oct2020	1.25m
AL MUKALLA	0922Z	20Oct2020	1.41m
BROM MAYFA	0926Z	20Oct2020	1.24m
RUDUM	0936Z	20Oct2020	1.07m
AHWAR	0956Z	20Oct2020	0.99m
KHANFAR	1022Z	20Oct2020	1.17m
ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:

TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>
TSP INDONESIA: <http://rtsp.bmkg.go.id>

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 6

IDY68501

```
#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

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TSUNAMI BULLETIN NUMBER 6 (TYPE-III CONFIRMED THREAT BULLETIN)  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
ISSUED AT 0830 UTC Tuesday 20 October 2020  
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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: 10km
Date: 20 Oct 2020
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:

Salalah	OMAN	16.90N	54.01E	0.86m	31 Dec 00:00 UTC
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 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

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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

GASCOYNE COAST		1746Z	20Oct2020	0.59m
PILBARA COAST WEST		1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS		1936Z	20Oct2020	1.40m
AURORA BANK		1952Z	20Oct2020	0.74m
GERALDTON COAST		2324Z	20Oct2020	0.53m

BANGLADESH

COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

COMOROS

BAMBAO	1222Z	20Oct2020	0.63m
FOMBONI	1226Z	20Oct2020	0.70m
DZAOUDZI	1226Z	20Oct2020	0.53m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE

SAINT-DENIS	1324Z	20Oct2020	0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA

MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
DWARKA	0754Z	20Oct2020	2.69m
JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
AGATTI	0848Z	20Oct2020	2.55m
KAVARATTI	0856Z	20Oct2020	1.83m
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VASCO	0912Z	20Oct2020	1.86m
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PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m
MAHUVA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
MAHE	0958Z	20Oct2020	2.03m
BEYPORE	1000Z	20Oct2020	2.04m
KANNUR	1000Z	20Oct2020	1.92m
BHARUCH	1000Z	20Oct2020	1.39m
VADANAPPALLY	1000Z	20Oct2020	1.73m
VAKKAD	1002Z	20Oct2020	1.96m
COCHIN	1002Z	20Oct2020	1.64m
TARAPUR	1002Z	20Oct2020	1.32m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m

ALIBAG PORT	1004Z	20Oct2020	1.63m
BORSI	1010Z	20Oct2020	1.26m
HAZIRA	1010Z	20Oct2020	1.41m
DAMAN	1010Z	20Oct2020	1.26m
TRIVANDRUM	1016Z	20Oct2020	1.32m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
RAMESWARAM	1132Z	20Oct2020	0.57m
KOTTAIPPATTANAM	1140Z	20Oct2020	0.50m

INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
SUMUT NIAS B	1826Z	20Oct2020	0.54m
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
MURASAIBI	2032Z	20Oct2020	0.51m
MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m

IRAN

PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m

KENYA

KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
TAKAUNGU	1220Z	20Oct2020	0.63m
KISIMACHANDE	1224Z	20Oct2020	0.74m
KIPINI	1224Z	20Oct2020	0.79m
MVULENI	1240Z	20Oct2020	0.67m

MADAGASCAR

ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m
FARAFAGANA	1516Z	20Oct2020	0.66m
SAMPONA	0304Z	21Oct2020	0.56m

MALDIVES

KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m
DHIYAMIGILI	0958Z	20Oct2020	1.89m
MALE	1004Z	20Oct2020	1.21m
THINADHOO	1012Z	20Oct2020	1.77m
KOLHUFUSHI	1022Z	20Oct2020	1.13m
HITHADHOO	1026Z	20Oct2020	1.27m

MAURITIUS

AGALEGA ISLAND	1152Z	20Oct2020	0.87m
LA FERME	1312Z	20Oct2020	1.67m
GRANDE REVIERE SUD EST-WEST	1322Z	20Oct2020	0.66m
CARGADOS CARAJOS	1322Z	20Oct2020	0.82m
GRANDE REVIERE SUD EST-EAST	1336Z	20Oct2020	0.66m

MOZAMBIQUE

MAGANJA	1238Z	20Oct2020	0.60m
QUITERAJO	1252Z	20Oct2020	0.51m
MURREBUE	1300Z	20Oct2020	0.56m

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MERONVI	1300Z	20Oct2020	0.54m
LURIO	1306Z	20Oct2020	0.57m
MECUFI	1306Z	20Oct2020	0.61m
PEMBA	1308Z	20Oct2020	0.54m
NANGATA	1312Z	20Oct2020	0.59m
MINHAUINE	1314Z	20Oct2020	0.65m
NHANGAU	0422Z	21Oct2020	0.54m

OMAN

MUSCAT	0610Z	20Oct2020	16.49m
BARKA	0614Z	20Oct2020	12.14m
AL KHABURAH	0614Z	20Oct2020	10.92m
QURAYYAT	0614Z	20Oct2020	13.16m
SUR	0622Z	20Oct2020	11.04m
SOHAR	0624Z	20Oct2020	6.42m
AL ASHKHARAH	0630Z	20Oct2020	6.55m
EAST MUSANDAM	0642Z	20Oct2020	5.07m
RAS AR RUWAYS	0652Z	20Oct2020	3.45m
MASIRAH	0654Z	20Oct2020	3.06m
AD DUQM	0720Z	20Oct2020	2.29m
HASIK	0746Z	20Oct2020	1.83m
AL JAZER	0746Z	20Oct2020	1.62m
MIRBAT	0800Z	20Oct2020	1.41m
TAQAH	0808Z	20Oct2020	1.39m
SALALAH	0814Z	20Oct2020	1.66m

PAKISTAN

ORMARA	0600Z	20Oct2020	11.71m
WINDER	0602Z	20Oct2020	5.15m
KARACHI	0652Z	20Oct2020	4.04m
SINDH	0708Z	20Oct2020	3.30m

SEYCHELLES

FREGATE ISLAND	1036Z	20Oct2020	2.18m
ILE DESROCHES	1054Z	20Oct2020	0.90m
ALPHONSE ISLAND	1114Z	20Oct2020	0.54m
TAKAMAKA	1116Z	20Oct2020	1.64m
COETIVY ISLAND	1124Z	20Oct2020	0.73m
ALDABRA	1148Z	20Oct2020	0.59m
ASTOVE ISLAND	1148Z	20Oct2020	0.52m

SOMALIA

TOOXIN	0918Z	20Oct2020	1.07m
ABO	0920Z	20Oct2020	1.60m
QANDALA	0926Z	20Oct2020	1.05m
BANDER-BEYLA	0928Z	20Oct2020	1.02m
EYL	0938Z	20Oct2020	1.20m
HADAAFTIMO	0942Z	20Oct2020	0.81m
BOSASO	0944Z	20Oct2020	0.95m
JARIIBAN	0950Z	20Oct2020	1.14m
MAYDH	0956Z	20Oct2020	0.98m
GALDOGOB	1000Z	20Oct2020	1.00m
KABURA	1014Z	20Oct2020	1.13m
XARARDHEERE	1018Z	20Oct2020	0.86m
BAKI	1022Z	20Oct2020	1.15m
CEEL DHEER	1028Z	20Oct2020	0.75m
MAREEG	1032Z	20Oct2020	0.68m
ITALA	1034Z	20Oct2020	0.63m
UARSCIECH	1046Z	20Oct2020	0.61m
MUQDISHO	1054Z	20Oct2020	0.58m
SAYLAC	1100Z	20Oct2020	1.25m
BEYNAX BARRE	1104Z	20Oct2020	0.60m
LOYADO	1108Z	20Oct2020	1.35m
BARAAWE	1110Z	20Oct2020	0.58m
JILIB	1126Z	20Oct2020	0.56m
TURDHO	1130Z	20Oct2020	0.54m
NE BEERNAASI	1136Z	20Oct2020	0.58m
KAAMBOONI	1144Z	20Oct2020	0.53m

SRI LANKA			
COLOMBO	1050Z	20Oct2020	0.56m
AMBALANGODA	1052Z	20Oct2020	0.58m
BERUWALA	1054Z	20Oct2020	0.56m
GALLE	1056Z	20Oct2020	0.54m
MORATUWA	1056Z	20Oct2020	0.64m
MATARA	1056Z	20Oct2020	0.56m
MUNDAL LAKE	1100Z	20Oct2020	0.56m
NEGOMBO	1100Z	20Oct2020	0.63m
MUSALI	1156Z	20Oct2020	0.53m
MANNAR ISLAND	1206Z	20Oct2020	0.58m

TANZANIA			
ZANZIBAR	1228Z	20Oct2020	0.61m
KUTANI	1230Z	20Oct2020	0.57m
WEST TO KONDE	1238Z	20Oct2020	0.82m
RUVU	1238Z	20Oct2020	0.65m
VUMBA	1242Z	20Oct2020	0.64m
SONGO SONGO ISLAND	1242Z	20Oct2020	0.53m
MADANGWA	1242Z	20Oct2020	0.65m
BOMALANDNI	1244Z	20Oct2020	0.76m
MSASANI	1244Z	20Oct2020	0.65m
VUMBI	1246Z	20Oct2020	0.58m
BAGAMOYO	1246Z	20Oct2020	0.85m
GAZIJA	1248Z	20Oct2020	0.69m
JIMBO	1258Z	20Oct2020	0.66m

UNITED ARAB EMIRATES			
KALBA	0628Z	20Oct2020	5.09m

UNITED KINGDOM			
MORESBY ISLAND	1058Z	20Oct2020	1.99m
NW EGMONT ISLAND	1108Z	20Oct2020	1.63m
DIEGO GARCIA	1138Z	20Oct2020	1.52m

YEMEN			
SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
DAMQAWT	0830Z	20Oct2020	1.53m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HUSWAYN	0846Z	20Oct2020	1.25m
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EAST TO HAMI	0916Z	20Oct2020	0.93m
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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 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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 7

IDY68501

```
#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

TSUNAMI BULLETIN NUMBER 7 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 0930 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 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.

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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

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page 34

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

GASCOYNE COAST		1746Z	20Oct2020	0.59m
PILBARA COAST WEST		1756Z	20Oct2020	0.57m
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BANGLADESH

COXS BAZAR	2144Z	20Oct2020	0.58m
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ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA

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DWARKA	0754Z	20Oct2020	2.69m
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HAZIRA, DIU	0826Z	20Oct2020	2.03m
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VASCO	0912Z	20Oct2020	1.86m
ANDROTH	0912Z	20Oct2020	2.40m
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MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
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KHAMBAT	0954Z	20Oct2020	1.45m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
MAHE	0958Z	20Oct2020	2.03m
BEYPORE	1000Z	20Oct2020	2.04m
KANNUR	1000Z	20Oct2020	1.92m
BHARUCH	1000Z	20Oct2020	1.39m
VADANAPPALLY	1000Z	20Oct2020	1.73m
VAKKAD	1002Z	20Oct2020	1.96m
COCHIN	1002Z	20Oct2020	1.64m
TARAPUR	1002Z	20Oct2020	1.32m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m

ALIBAG PORT	1004Z	20Oct2020	1.63m
BORSI	1010Z	20Oct2020	1.26m
HAZIRA	1010Z	20Oct2020	1.41m
DAMAN	1010Z	20Oct2020	1.26m
TRIVANDRUM	1016Z	20Oct2020	1.32m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
RAMESWARAM	1132Z	20Oct2020	0.57m
KOTTAIPPATTANAM	1140Z	20Oct2020	0.50m

INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
SUMUT NIAS B	1826Z	20Oct2020	0.54m
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
MURASAIBI	2032Z	20Oct2020	0.51m
MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m

IRAN

PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m

KENYA

KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
TAKAUNGU	1220Z	20Oct2020	0.63m
KISIMACHANDE	1224Z	20Oct2020	0.74m
KIPINI	1224Z	20Oct2020	0.79m
MVULENI	1240Z	20Oct2020	0.67m

MADAGASCAR

ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m
FARAFAGANA	1516Z	20Oct2020	0.66m
SAMPONA	0304Z	21Oct2020	0.56m

MALDIVES

KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m
DHIYAMIGILI	0958Z	20Oct2020	1.89m
MALE	1004Z	20Oct2020	1.21m
THINADHOO	1012Z	20Oct2020	1.77m
KOLHUFUSHI	1022Z	20Oct2020	1.13m
HITHADHOO	1026Z	20Oct2020	1.27m

MAURITIUS

AGALEGA ISLAND	1152Z	20Oct2020	0.87m
LA FERME	1312Z	20Oct2020	1.67m
GRANDE REVIERE SUD EST-WEST	1322Z	20Oct2020	0.66m
CARGADOS CARAJOS	1322Z	20Oct2020	0.82m
GRANDE REVIERE SUD EST-EAST	1336Z	20Oct2020	0.66m

MOZAMBIQUE

MAGANJA	1238Z	20Oct2020	0.60m
QUITERAJO	1252Z	20Oct2020	0.51m
MURREBUE	1300Z	20Oct2020	0.56m

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MERONVI	1300Z	20Oct2020	0.54m
LURIO	1306Z	20Oct2020	0.57m
MECUFI	1306Z	20Oct2020	0.61m
PEMBA	1308Z	20Oct2020	0.54m
NANGATA	1312Z	20Oct2020	0.59m
MINHAUINE	1314Z	20Oct2020	0.65m
NHANGAU	0422Z	21Oct2020	0.54m

OMAN

MUSCAT	0610Z	20Oct2020	16.49m
BARKA	0614Z	20Oct2020	12.14m
AL KHABURAH	0614Z	20Oct2020	10.92m
QURAYYAT	0614Z	20Oct2020	13.16m
SUR	0622Z	20Oct2020	11.04m
SOHAR	0624Z	20Oct2020	6.42m
AL ASHKHARAH	0630Z	20Oct2020	6.55m
EAST MUSANDAM	0642Z	20Oct2020	5.07m
RAS AR RUWAYS	0652Z	20Oct2020	3.45m
MASIRAH	0654Z	20Oct2020	3.06m
AD DUQM	0720Z	20Oct2020	2.29m
HASIK	0746Z	20Oct2020	1.83m
AL JAZER	0746Z	20Oct2020	1.62m
MIRBAT	0800Z	20Oct2020	1.41m
TAQAH	0808Z	20Oct2020	1.39m
SALALAH	0814Z	20Oct2020	1.66m

PAKISTAN

ORMARA	0600Z	20Oct2020	11.71m
WINDER	0602Z	20Oct2020	5.15m
KARACHI	0652Z	20Oct2020	4.04m
SINDH	0708Z	20Oct2020	3.30m

SEYCHELLES

FREGATE ISLAND	1036Z	20Oct2020	2.18m
ILE DESROCHES	1054Z	20Oct2020	0.90m
ALPHONSE ISLAND	1114Z	20Oct2020	0.54m
TAKAMAKA	1116Z	20Oct2020	1.64m
COETIVY ISLAND	1124Z	20Oct2020	0.73m
ALDABRA	1148Z	20Oct2020	0.59m
ASTOVE ISLAND	1148Z	20Oct2020	0.52m

SOMALIA

TOOXIN	0918Z	20Oct2020	1.07m
ABO	0920Z	20Oct2020	1.60m
QANDALA	0926Z	20Oct2020	1.05m
BANDER-BEYLA	0928Z	20Oct2020	1.02m
EYL	0938Z	20Oct2020	1.20m
HADAAFTIMO	0942Z	20Oct2020	0.81m
BOSASO	0944Z	20Oct2020	0.95m
JARIIBAN	0950Z	20Oct2020	1.14m
MAYDH	0956Z	20Oct2020	0.98m
GALDOGOB	1000Z	20Oct2020	1.00m
KABURA	1014Z	20Oct2020	1.13m
XARARDHEERE	1018Z	20Oct2020	0.86m
BAKI	1022Z	20Oct2020	1.15m
CEEL DHEER	1028Z	20Oct2020	0.75m
MAREEG	1032Z	20Oct2020	0.68m
ITALA	1034Z	20Oct2020	0.63m
UARSCIECH	1046Z	20Oct2020	0.61m
MUQDISHO	1054Z	20Oct2020	0.58m
SAYLAC	1100Z	20Oct2020	1.25m
BEYNAX BARRE	1104Z	20Oct2020	0.60m
LOYADO	1108Z	20Oct2020	1.35m
BARAAWE	1110Z	20Oct2020	0.58m
JILIB	1126Z	20Oct2020	0.56m
TURDHO	1130Z	20Oct2020	0.54m
NE BEERNAASI	1136Z	20Oct2020	0.58m
KAAMBOONI	1144Z	20Oct2020	0.53m

SRI LANKA			
COLOMBO	1050Z	20Oct2020	0.56m
AMBALANGODA	1052Z	20Oct2020	0.58m
BERUWALA	1054Z	20Oct2020	0.56m
GALLE	1056Z	20Oct2020	0.54m
MORATUWA	1056Z	20Oct2020	0.64m
MATARA	1056Z	20Oct2020	0.56m
MUNDAL LAKE	1100Z	20Oct2020	0.56m
NEGOMBO	1100Z	20Oct2020	0.63m
MUSALI	1156Z	20Oct2020	0.53m
MANNAR ISLAND	1206Z	20Oct2020	0.58m

TANZANIA			
ZANZIBAR	1228Z	20Oct2020	0.61m
KUTANI	1230Z	20Oct2020	0.57m
WEST TO KONDE	1238Z	20Oct2020	0.82m
RUVU	1238Z	20Oct2020	0.65m
VUMBA	1242Z	20Oct2020	0.64m
SONGO SONGO ISLAND	1242Z	20Oct2020	0.53m
MADANGWA	1242Z	20Oct2020	0.65m
BOMALANDNI	1244Z	20Oct2020	0.76m
MSASANI	1244Z	20Oct2020	0.65m
VUMBI	1246Z	20Oct2020	0.58m
BAGAMOYO	1246Z	20Oct2020	0.85m
GAZIJA	1248Z	20Oct2020	0.69m
JIMBO	1258Z	20Oct2020	0.66m

UNITED ARAB EMIRATES			
KALBA	0628Z	20Oct2020	5.09m

UNITED KINGDOM			
MORESBY ISLAND	1058Z	20Oct2020	1.99m
NW EGMONT ISLAND	1108Z	20Oct2020	1.63m
DIEGO GARCIA	1138Z	20Oct2020	1.52m

YEMEN			
SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
DAMQAWT	0830Z	20Oct2020	1.53m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HUSWAYN	0846Z	20Oct2020	1.25m
SOCOTRA ISLAND WEST	0852Z	20Oct2020	1.54m
ALQUMRAH	0858Z	20Oct2020	1.18m
MASILAH WADI	0906Z	20Oct2020	1.03m
HARRAH	0912Z	20Oct2020	1.07m
EAST TO HAMI	0916Z	20Oct2020	0.93m
HAMI	0920Z	20Oct2020	1.25m
AL MUKALLA	0922Z	20Oct2020	1.41m
BROM MAYFA	0926Z	20Oct2020	1.24m
RUDUM	0936Z	20Oct2020	1.07m
AHWAR	0956Z	20Oct2020	0.99m
KHANFAR	1022Z	20Oct2020	1.17m
ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:
TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>
TSP INDONESIA: <http://rtsp.bmkg.go.id>

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 8

IDY68501

```
#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

TSUNAMI BULLETIN NUMBER 8 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1030 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 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

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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

GASCOYNE COAST		1746Z	20Oct2020	0.59m
PILBARA COAST WEST		1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS		1936Z	20Oct2020	1.40m
AURORA BANK		1952Z	20Oct2020	0.74m
GERALDTON COAST		2324Z	20Oct2020	0.53m

BANGLADESH

COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

COMOROS

BAMBAAO	1222Z	20Oct2020	0.63m
FOMBONI	1226Z	20Oct2020	0.70m
DZAOUDZI	1226Z	20Oct2020	0.53m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE

SAINT-DENIS	1324Z	20Oct2020	0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA

MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
DWARKA	0754Z	20Oct2020	2.69m
JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
AGATTI	0848Z	20Oct2020	2.55m
KAVARATTI	0856Z	20Oct2020	1.83m
MALVAN BAY	0900Z	20Oct2020	1.67m
VASCO	0912Z	20Oct2020	1.86m
ANDROTH	0912Z	20Oct2020	2.40m
PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m
MAHUVA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
MAHE	0958Z	20Oct2020	2.03m
BEYPORE	1000Z	20Oct2020	2.04m
KANNUR	1000Z	20Oct2020	1.92m
BHARUCH	1000Z	20Oct2020	1.39m
VADANAPPALLY	1000Z	20Oct2020	1.73m

VAKKAD	1002Z	20Oct2020	1.96m
COCHIN	1002Z	20Oct2020	1.64m
TARAPUR	1002Z	20Oct2020	1.32m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m
ALIBAG PORT	1004Z	20Oct2020	1.63m
BORSI	1010Z	20Oct2020	1.26m
HAZIRA	1010Z	20Oct2020	1.41m
DAMAN	1010Z	20Oct2020	1.26m
TRIVANDRUM	1016Z	20Oct2020	1.32m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
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INDONESIA			
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
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KISIMACHANDE	1224Z	20Oct2020	0.74m
KIPINI	1224Z	20Oct2020	0.79m
MVULENI	1240Z	20Oct2020	0.67m
MADAGASCAR			
ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m
FARAFAGANA	1516Z	20Oct2020	0.66m
SAMPONA	0304Z	21Oct2020	0.56m
MALDIVES			
KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m
DHIYAMIGILI	0958Z	20Oct2020	1.89m
MALE	1004Z	20Oct2020	1.21m
THINADHOO	1012Z	20Oct2020	1.77m
KOLHUFUSHI	1022Z	20Oct2020	1.13m
HITHADHOO	1026Z	20Oct2020	1.27m
MAURITIUS			
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LA FERME	1312Z	20Oct2020	1.67m
GRANDE REVIERE SUD EST-WEST	1322Z	20Oct2020	0.66m
CARGADOS CARAJOS	1322Z	20Oct2020	0.82m
GRANDE REVIERE SUD EST-EAST	1336Z	20Oct2020	0.66m

MOZAMBIQUE

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LURIO	1306Z	20Oct2020	0.57m
MECUFI	1306Z	20Oct2020	0.61m
PEMBA	1308Z	20Oct2020	0.54m
NANGATA	1312Z	20Oct2020	0.59m
MINHAUINE	1314Z	20Oct2020	0.65m
NHANGAU	0422Z	21Oct2020	0.54m

OMAN

MUSCAT	0610Z	20Oct2020	16.49m
BARKA	0614Z	20Oct2020	12.14m
AL KHABURAH	0614Z	20Oct2020	10.92m
QURAYYAT	0614Z	20Oct2020	13.16m
SUR	0622Z	20Oct2020	11.04m
SOHAR	0624Z	20Oct2020	6.42m
EAST MUSANDAM	0642Z	20Oct2020	5.07m
RAS AR RUWAYS	0652Z	20Oct2020	3.45m
MASIRAH	0654Z	20Oct2020	3.06m
AD DUQM	0720Z	20Oct2020	2.29m
HASIK	0746Z	20Oct2020	1.83m
AL JAZER	0746Z	20Oct2020	1.62m
MIRBAT	0800Z	20Oct2020	1.41m
TAQAH	0808Z	20Oct2020	1.39m
SALALAH	0814Z	20Oct2020	1.66m

PAKISTAN

ORMARA	0600Z	20Oct2020	11.71m
WINDER	0602Z	20Oct2020	5.15m
KARACHI	0652Z	20Oct2020	4.04m
SINDH	0708Z	20Oct2020	3.30m

SEYCHELLES

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COETIVY ISLAND	1124Z	20Oct2020	0.73m
ALDABRA	1148Z	20Oct2020	0.59m
ASTOVE ISLAND	1148Z	20Oct2020	0.52m

SOMALIA

TOOXIN	0918Z	20Oct2020	1.07m
ABO	0920Z	20Oct2020	1.60m
QANDALA	0926Z	20Oct2020	1.05m
BANDER-BEYLA	0928Z	20Oct2020	1.02m
EYL	0938Z	20Oct2020	1.20m
HADAAFTIMO	0942Z	20Oct2020	0.81m
BOSASO	0944Z	20Oct2020	0.95m
JARIIBAN	0950Z	20Oct2020	1.14m
MAYDH	0956Z	20Oct2020	0.98m
GALDOGOB	1000Z	20Oct2020	1.00m
KABURA	1014Z	20Oct2020	1.13m
XARARDHEERE	1018Z	20Oct2020	0.86m
BAKI	1022Z	20Oct2020	1.15m
CEEL DHEER	1028Z	20Oct2020	0.75m
MAREEG	1032Z	20Oct2020	0.68m
ITALA	1034Z	20Oct2020	0.63m
UARSIECH	1046Z	20Oct2020	0.61m
MUQDISHO	1054Z	20Oct2020	0.58m
SAYLAC	1100Z	20Oct2020	1.25m
BEYNAX BARRE	1104Z	20Oct2020	0.60m
LOYADO	1108Z	20Oct2020	1.35m
BARAAWE	1110Z	20Oct2020	0.58m

JILIB	1126Z	20Oct2020	0.56m
TURDHO	1130Z	20Oct2020	0.54m
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SRI LANKA

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BERUWALA	1054Z	20Oct2020	0.56m
GALLE	1056Z	20Oct2020	0.54m
MORATUWA	1056Z	20Oct2020	0.64m
MATARA	1056Z	20Oct2020	0.56m
MUNDAL LAKE	1100Z	20Oct2020	0.56m
NEGOMBO	1100Z	20Oct2020	0.63m
MUSALI	1156Z	20Oct2020	0.53m
MANNAR ISLAND	1206Z	20Oct2020	0.58m

TANZANIA

ZANZIBAR	1228Z	20Oct2020	0.61m
KUTANI	1230Z	20Oct2020	0.57m
WEST TO KONDE	1238Z	20Oct2020	0.82m
RUVU	1238Z	20Oct2020	0.65m
VUMBA	1242Z	20Oct2020	0.64m
SONGO SONGO ISLAND	1242Z	20Oct2020	0.53m
MADANGWA	1242Z	20Oct2020	0.65m
BOMALANDNI	1244Z	20Oct2020	0.76m
MSASANI	1244Z	20Oct2020	0.65m
VUMBI	1246Z	20Oct2020	0.58m
BAGAMOYO	1246Z	20Oct2020	0.85m
GAZIJA	1248Z	20Oct2020	0.69m
JIMBO	1258Z	20Oct2020	0.66m

UNITED ARAB EMIRATES

KALBA	0628Z	20Oct2020	5.09m
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UNITED KINGDOM

MORESBY ISLAND	1058Z	20Oct2020	1.99m
NW EGMONT ISLAND	1108Z	20Oct2020	1.63m
DIEGO GARCIA	1138Z	20Oct2020	1.52m

YEMEN

SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
DAMQAWT	0830Z	20Oct2020	1.53m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HUSWAYN	0846Z	20Oct2020	1.25m
SOCOTRA ISLAND WEST	0852Z	20Oct2020	1.54m
ALQUMRAH	0858Z	20Oct2020	1.18m
MASILAH WADI	0906Z	20Oct2020	1.03m
HARRAH	0912Z	20Oct2020	1.07m
EAST TO HAMI	0916Z	20Oct2020	0.93m
HAMI	0920Z	20Oct2020	1.25m
AL MUKALLA	0922Z	20Oct2020	1.41m
BROM MAYFA	0926Z	20Oct2020	1.24m
RUDUM	0936Z	20Oct2020	1.07m
AHWAR	0956Z	20Oct2020	0.99m
KHANFAR	1022Z	20Oct2020	1.17m
ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:

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

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

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 9

IDY68501

TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 9 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1130 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 UTC
Gan	MALDIVES	0.70S	73.15E	0.73m	20 Oct 10:35 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	20 Oct 10:50 UTC
Aden	YEMEN	12.80N	44.97E	0.88m	20 Oct 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.33m	20 Oct 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	20 Oct 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.

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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.

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

GASCOYNE COAST	1746Z	20Oct2020	0.59m
PILBARA COAST WEST	1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS	1936Z	20Oct2020	1.40m
AURORA BANK	1952Z	20Oct2020	0.74m
GERALDTON COAST	2324Z	20Oct2020	0.53m

BANGLADESH

COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

COMOROS

BAMBAO	1222Z	20Oct2020	0.63m
FOMBONI	1226Z	20Oct2020	0.70m
DZAOUDZI	1226Z	20Oct2020	0.53m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE

SAINT-DENIS	1324Z	20Oct2020	0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA

MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
DWARKA	0754Z	20Oct2020	2.69m
JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
MALVAN BAY	0900Z	20Oct2020	1.67m
ANDROTH	0912Z	20Oct2020	2.40m
VASCO	0912Z	20Oct2020	1.86m
PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m
MAHUVA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
MAHE	0958Z	20Oct2020	2.03m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
BHARUCH	1000Z	20Oct2020	1.39m

BEYPORE	1000Z	20Oct2020	2.04m
KANNUR	1000Z	20Oct2020	1.92m
VADANAPPALLY	1000Z	20Oct2020	1.73m
VAKKAD	1002Z	20Oct2020	1.96m
TARAPUR	1002Z	20Oct2020	1.32m
COCHIN	1002Z	20Oct2020	1.64m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m
ALIBAG PORT	1004Z	20Oct2020	1.63m
HAZIRA	1010Z	20Oct2020	1.41m
BORSI	1010Z	20Oct2020	1.26m
DAMAN	1010Z	20Oct2020	1.26m
TRIVANDRUM	1016Z	20Oct2020	1.32m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
RAMESWARAM	1132Z	20Oct2020	0.57m
KOTTAIPPATTANAM	1140Z	20Oct2020	0.50m

INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
SUMUT NIAS B	1826Z	20Oct2020	0.54m
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
MURASIBI	2032Z	20Oct2020	0.51m
MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m

IRAN

PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m

KENYA

KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
TAKAUNGU	1220Z	20Oct2020	0.63m
KISIMACHANDE	1224Z	20Oct2020	0.74m
KIPINI	1224Z	20Oct2020	0.79m
MVULENI	1240Z	20Oct2020	0.67m

MADAGASCAR

ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m
FARAFAGANA	1516Z	20Oct2020	0.66m
SAMPONA	0304Z	21Oct2020	0.56m

MALDIVES

KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m
DHIYAMIGILI	0958Z	20Oct2020	1.89m
MALE	1004Z	20Oct2020	1.21m
THINADHOO	1012Z	20Oct2020	1.77m
KOLHUFUSHI	1022Z	20Oct2020	1.13m
HITHADHOO	1026Z	20Oct2020	1.27m

MAURITIUS

AGALEGA ISLAND	1152Z	20Oct2020	0.87m
LA FERME	1312Z	20Oct2020	1.67m

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GRANDE REVIERE SUD EST-WEST	1322Z	20Oct2020	0.66m
CARGADOS CARAJOS	1322Z	20Oct2020	0.82m
GRANDE REVIERE SUD EST-EAST	1336Z	20Oct2020	0.66m

MOZAMBIQUE

MAGANJA	1238Z	20Oct2020	0.60m
QUITERAJO	1252Z	20Oct2020	0.51m
MURREBUE	1300Z	20Oct2020	0.56m
MERONVI	1300Z	20Oct2020	0.54m
LURIO	1306Z	20Oct2020	0.57m
MECUFI	1306Z	20Oct2020	0.61m
PEMBA	1308Z	20Oct2020	0.54m
NANGATA	1312Z	20Oct2020	0.59m
MINHAUINE	1314Z	20Oct2020	0.65m
NHANGAU	0422Z	21Oct2020	0.54m

OMAN

MUSCAT	0610Z	20Oct2020	16.49m
AL KHABURAH	0614Z	20Oct2020	10.92m
QURAYYAT	0614Z	20Oct2020	13.16m
BARKA	0614Z	20Oct2020	12.14m
SUR	0622Z	20Oct2020	11.04m
SOHAR	0624Z	20Oct2020	6.42m
EAST MUSANDAM	0642Z	20Oct2020	5.07m
RAS AR RUWAYS	0652Z	20Oct2020	3.45m
MASIRAH	0654Z	20Oct2020	3.06m
AD DUQM	0720Z	20Oct2020	2.29m
AL JAZER	0746Z	20Oct2020	1.62m
HASIK	0746Z	20Oct2020	1.83m

PAKISTAN

ORMARA	0600Z	20Oct2020	11.71m
WINDER	0602Z	20Oct2020	5.15m
KARACHI	0652Z	20Oct2020	4.04m
SINDH	0708Z	20Oct2020	3.30m

SEYCHELLES

FREGATE ISLAND	1036Z	20Oct2020	2.18m
ILE DESROCHES	1054Z	20Oct2020	0.90m
ALPHONSE ISLAND	1114Z	20Oct2020	0.54m
TAKAMAKA	1116Z	20Oct2020	1.64m
COETIVY ISLAND	1124Z	20Oct2020	0.73m
ALDABRA	1148Z	20Oct2020	0.59m
ASTOVE ISLAND	1148Z	20Oct2020	0.52m

SOMALIA

TOOXIN	0918Z	20Oct2020	1.07m
ABO	0920Z	20Oct2020	1.60m
EYL	0938Z	20Oct2020	1.20m
JARIIBAN	0950Z	20Oct2020	1.14m
MAYDH	0956Z	20Oct2020	0.98m
GALDOGOB	1000Z	20Oct2020	1.00m
KABURA	1014Z	20Oct2020	1.13m
XARARDHEERE	1018Z	20Oct2020	0.86m
BAKI	1022Z	20Oct2020	1.15m
CEEL DHEER	1028Z	20Oct2020	0.75m
MAREEG	1032Z	20Oct2020	0.68m
ITALA	1034Z	20Oct2020	0.63m
UARSCIECH	1046Z	20Oct2020	0.61m
MUQDISHO	1054Z	20Oct2020	0.58m
SAYLAC	1100Z	20Oct2020	1.25m
BEYNAX BARRE	1104Z	20Oct2020	0.60m
LOYADO	1108Z	20Oct2020	1.35m
BARAAWE	1110Z	20Oct2020	0.58m
JILIB	1126Z	20Oct2020	0.56m
TURDHO	1130Z	20Oct2020	0.54m
NE BEERNAASI	1136Z	20Oct2020	0.58m
KAAMBOONI	1144Z	20Oct2020	0.53m

SRI LANKA			
COLOMBO	1050Z	20Oct2020	0.56m
AMBALANGODA	1052Z	20Oct2020	0.58m
BERUWALA	1054Z	20Oct2020	0.56m
GALLE	1056Z	20Oct2020	0.54m
MORATUWA	1056Z	20Oct2020	0.64m
MATARA	1056Z	20Oct2020	0.56m
MUNDAL LAKE	1100Z	20Oct2020	0.56m
NEGOMBO	1100Z	20Oct2020	0.63m
MUSALI	1156Z	20Oct2020	0.53m
MANNAR ISLAND	1206Z	20Oct2020	0.58m

TANZANIA			
ZANZIBAR	1228Z	20Oct2020	0.61m
KUTANI	1230Z	20Oct2020	0.57m
WEST TO KONDE	1238Z	20Oct2020	0.82m
RUVU	1238Z	20Oct2020	0.65m
VUMBA	1242Z	20Oct2020	0.64m
SONGO SONGO ISLAND	1242Z	20Oct2020	0.53m
MADANGWA	1242Z	20Oct2020	0.65m
BOMALANDNI	1244Z	20Oct2020	0.76m
MSASANI	1244Z	20Oct2020	0.65m
VUMBI	1246Z	20Oct2020	0.58m
BAGAMOYO	1246Z	20Oct2020	0.85m
GAZIJA	1248Z	20Oct2020	0.69m
JIMBO	1258Z	20Oct2020	0.66m

UNITED ARAB EMIRATES			
KALBA	0628Z	20Oct2020	5.09m

UNITED KINGDOM			
MORESBY ISLAND	1058Z	20Oct2020	1.99m
NW EGMONT ISLAND	1108Z	20Oct2020	1.63m
DIEGO GARCIA	1138Z	20Oct2020	1.52m

YEMEN			
SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HUSWAYN	0846Z	20Oct2020	1.25m
SOCOTRA ISLAND WEST	0852Z	20Oct2020	1.54m
ALQUMRAH	0858Z	20Oct2020	1.18m
HARRAH	0912Z	20Oct2020	1.07m
HAMI	0920Z	20Oct2020	1.25m
AL MUKALLA	0922Z	20Oct2020	1.41m
RUDUM	0936Z	20Oct2020	1.07m
AHWAR	0956Z	20Oct2020	0.99m
KHANFAR	1022Z	20Oct2020	1.17m
ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:

TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>
TSP INDONESIA: <http://rtsp.bmkg.go.id>

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 10

IDY68501

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#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

TSUNAMI BULLETIN NUMBER 10 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1230 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 UTC
Gan	MALDIVES	0.70S	73.15E	0.73m	20 Oct 10:35 UTC
Denis Island	SEYHELLES	3.80S	55.67E	0.88m	20 Oct 10:50 UTC
Aden	YEMEN	12.80N	44.97E	0.88m	20 Oct 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.33m	20 Oct 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	20 Oct 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.26m	20 Oct 11:40 UTC
Pt LaRue	SEYHELLES	4.50S	55.50E	0.95m	20 Oct 11:50 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.33m	20 Oct 12:00 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	20 Oct 12:15 UTC
Mombasa	KENYA	4.10S	39.65E	0.35m	20 Oct 12:25 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

GASCOYNE COAST	1746Z	20Oct2020	0.59m
PILBARA COAST WEST	1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS	1936Z	20Oct2020	1.40m
AURORA BANK	1952Z	20Oct2020	0.74m
GERALDTON COAST	2324Z	20Oct2020	0.53m

BANGLADESH

COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

COMOROS

BAMBAO	1222Z	20Oct2020	0.63m
FOMBONI	1226Z	20Oct2020	0.70m
DZAOUDZI	1226Z	20Oct2020	0.53m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE

SAINT-DENIS	1324Z	20Oct2020	0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA

MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
DWARKA	0754Z	20Oct2020	2.69m
JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
MALVAN BAY	0900Z	20Oct2020	1.67m
ANDROTH	0912Z	20Oct2020	2.40m
VASCO	0912Z	20Oct2020	1.86m
PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m

MAHUVA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
MAHE	0958Z	20Oct2020	2.03m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
BHARUCH	1000Z	20Oct2020	1.39m
BEYPORE	1000Z	20Oct2020	2.04m
KANNUR	1000Z	20Oct2020	1.92m
VADANAPPALLY	1000Z	20Oct2020	1.73m
VAKKAD	1002Z	20Oct2020	1.96m
TARAPUR	1002Z	20Oct2020	1.32m
COCHIN	1002Z	20Oct2020	1.64m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m
ALIBAG PORT	1004Z	20Oct2020	1.63m
HAZIRA	1010Z	20Oct2020	1.41m
BORSI	1010Z	20Oct2020	1.26m
DAMAN	1010Z	20Oct2020	1.26m
TRIVANDRUM	1016Z	20Oct2020	1.32m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
RAMESWARAM	1132Z	20Oct2020	0.57m
KOTTTAIPPATTANAM	1140Z	20Oct2020	0.50m

INDONESIA

SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
SUMUT NIAS B	1826Z	20Oct2020	0.54m
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
MURASAIBI	2032Z	20Oct2020	0.51m
MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m

IRAN

PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m

KENYA

KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
TAKAUNGU	1220Z	20Oct2020	0.63m
KISIMACHANDE	1224Z	20Oct2020	0.74m
KIPINI	1224Z	20Oct2020	0.79m
MVULENI	1240Z	20Oct2020	0.67m

MADAGASCAR

ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m
FARAFAGANA	1516Z	20Oct2020	0.66m
SAMPONA	0304Z	21Oct2020	0.56m

MALDIVES

KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m
DHIYAMIGILI	0958Z	20Oct2020	1.89m
MALE	1004Z	20Oct2020	1.21m
THINADHOO	1012Z	20Oct2020	1.77m
KOLHUFUSHI	1022Z	20Oct2020	1.13m

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HITHADHOO 1026Z 20Oct2020 1.27m

MAURITIUS

AGALEGA ISLAND	1152Z	20Oct2020	0.87m
LA FERME	1312Z	20Oct2020	1.67m
GRANDE REVIERE SUD EST-WEST	1322Z	20Oct2020	0.66m
CARGADOS CARAJOS	1322Z	20Oct2020	0.82m
GRANDE REVIERE SUD EST-EAST	1336Z	20Oct2020	0.66m

MOZAMBIQUE

MAGANJA	1238Z	20Oct2020	0.60m
QUITERAJO	1252Z	20Oct2020	0.51m
MURREBUE	1300Z	20Oct2020	0.56m
MERONVI	1300Z	20Oct2020	0.54m
LURIO	1306Z	20Oct2020	0.57m
MECUFI	1306Z	20Oct2020	0.61m
PEMBA	1308Z	20Oct2020	0.54m
NANGATA	1312Z	20Oct2020	0.59m
MINHAUINE	1314Z	20Oct2020	0.65m
NHANGAU	0422Z	21Oct2020	0.54m

OMAN

MUSCAT	0610Z	20Oct2020	16.49m
AL KHABURAH	0614Z	20Oct2020	10.92m
QURAYYAT	0614Z	20Oct2020	13.16m
BARKA	0614Z	20Oct2020	12.14m
SUR	0622Z	20Oct2020	11.04m
SOHAR	0624Z	20Oct2020	6.42m
EAST MUSANDAM	0642Z	20Oct2020	5.07m
RAS AR RUWAYS	0652Z	20Oct2020	3.45m
MASIRAH	0654Z	20Oct2020	3.06m
AD DUQM	0720Z	20Oct2020	2.29m
AL JAZER	0746Z	20Oct2020	1.62m
HASIK	0746Z	20Oct2020	1.83m

PAKISTAN

ORMARA	0600Z	20Oct2020	11.71m
WINDER	0602Z	20Oct2020	5.15m
KARACHI	0652Z	20Oct2020	4.04m
SINDH	0708Z	20Oct2020	3.30m

SEYCHELLES

FREGATE ISLAND	1036Z	20Oct2020	2.18m
ILE DESROCHES	1054Z	20Oct2020	0.90m
ALPHONSE ISLAND	1114Z	20Oct2020	0.54m
TAKAMAKA	1116Z	20Oct2020	1.64m
COETIVY ISLAND	1124Z	20Oct2020	0.73m
ALDABRA	1148Z	20Oct2020	0.59m
ASTOVE ISLAND	1148Z	20Oct2020	0.52m

SOMALIA

TOOXIN	0918Z	20Oct2020	1.07m
ABO	0920Z	20Oct2020	1.60m
EYL	0938Z	20Oct2020	1.20m
JARIIBAN	0950Z	20Oct2020	1.14m
MAYDH	0956Z	20Oct2020	0.98m
GALDOGOB	1000Z	20Oct2020	1.00m
KABURA	1014Z	20Oct2020	1.13m
XARARDHEERE	1018Z	20Oct2020	0.86m
BAKI	1022Z	20Oct2020	1.15m
CEEL DHEER	1028Z	20Oct2020	0.75m
MAREEG	1032Z	20Oct2020	0.68m
ITALA	1034Z	20Oct2020	0.63m
UARSCIECH	1046Z	20Oct2020	0.61m
MUQDISHO	1054Z	20Oct2020	0.58m
SAYLAC	1100Z	20Oct2020	1.25m
BEYNAX BARRE	1104Z	20Oct2020	0.60m
LOYADO	1108Z	20Oct2020	1.35m

BARAAWE	1110Z	20Oct2020	0.58m
JILIB	1126Z	20Oct2020	0.56m
TURDHO	1130Z	20Oct2020	0.54m
NE BEERNAASI	1136Z	20Oct2020	0.58m
KAAMBOONI	1144Z	20Oct2020	0.53m

SRI LANKA			
COLOMBO	1050Z	20Oct2020	0.56m
AMBALANGODA	1052Z	20Oct2020	0.58m
BERUWALA	1054Z	20Oct2020	0.56m
GALLE	1056Z	20Oct2020	0.54m
MORATUWA	1056Z	20Oct2020	0.64m
MATARA	1056Z	20Oct2020	0.56m
MUNDAL LAKE	1100Z	20Oct2020	0.56m
NEGOMBO	1100Z	20Oct2020	0.63m
MUSALI	1156Z	20Oct2020	0.53m
MANNAR ISLAND	1206Z	20Oct2020	0.58m

TANZANIA			
ZANZIBAR	1228Z	20Oct2020	0.61m
KUTANI	1230Z	20Oct2020	0.57m
WEST TO KONDE	1238Z	20Oct2020	0.82m
RUVU	1238Z	20Oct2020	0.65m
VUMBA	1242Z	20Oct2020	0.64m
SONGO SONGO ISLAND	1242Z	20Oct2020	0.53m
MADANGWA	1242Z	20Oct2020	0.65m
BOMALANDNI	1244Z	20Oct2020	0.76m
MSASANI	1244Z	20Oct2020	0.65m
VUMBI	1246Z	20Oct2020	0.58m
BAGAMOYO	1246Z	20Oct2020	0.85m
GAZIJA	1248Z	20Oct2020	0.69m
JIMBO	1258Z	20Oct2020	0.66m

UNITED ARAB EMIRATES			
KALBA	0628Z	20Oct2020	5.09m

UNITED KINGDOM			
MORESBY ISLAND	1058Z	20Oct2020	1.99m
NW EGMONT ISLAND	1108Z	20Oct2020	1.63m
DIEGO GARCIA	1138Z	20Oct2020	1.52m

YEMEN			
SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HUSWAYN	0846Z	20Oct2020	1.25m
SOCOTRA ISLAND WEST	0852Z	20Oct2020	1.54m
ALQUMRAH	0858Z	20Oct2020	1.18m
HARRAH	0912Z	20Oct2020	1.07m
HAMI	0920Z	20Oct2020	1.25m
AL MUKALLA	0922Z	20Oct2020	1.41m
RUDUM	0936Z	20Oct2020	1.07m
AHWAR	0956Z	20Oct2020	0.99m
KHANFAR	1022Z	20Oct2020	1.17m
ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:
TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/egevents.jsp>
TSP INDONESIA: <http://rtsp.bmkg.go.id>

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 11

IDY68501

TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 11 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1330 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 UTC
Gan	MALDIVES	0.70S	73.15E	0.73m	20 Oct 10:35 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	20 Oct 10:50 UTC
Aden	YEMEN	12.80N	44.97E	0.88m	20 Oct 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.33m	20 Oct 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	20 Oct 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.26m	20 Oct 11:40 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	20 Oct 11:50 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.33m	20 Oct 12:00 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	20 Oct 12:15 UTC
Mombasa	KENYA	4.10S	39.65E	0.35m	20 Oct 12:25 UTC
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	20 Oct 12:30 UTC
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	20 Oct 12:35 UTC
Deep Ocean Buoy 23401	BAY OF BENGAL	8.86N	88.56E	0.03m	20 Oct 13:00 UTC
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	20 Oct 13:10 UTC
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	20 Oct 13:25 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

GASCOYNE COAST	1746Z	20Oct2020	0.59m
PILBARA COAST WEST	1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS	1936Z	20Oct2020	1.40m
AURORA BANK	1952Z	20Oct2020	0.74m
GERALDTON COAST	2324Z	20Oct2020	0.53m

BANGLADESH

COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

COMOROS

BAMBAO	1222Z	20Oct2020	0.63m
FOMBONI	1226Z	20Oct2020	0.70m
DZAOUDZI	1226Z	20Oct2020	0.53m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE

SAINT-DENIS	1324Z	20Oct2020	0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA

MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
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MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
MALVAN BAY	0900Z	20Oct2020	1.67m
ANDROTH	0912Z	20Oct2020	2.40m
VASCO	0912Z	20Oct2020	1.86m
PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m

KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
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ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
MAHE	0958Z	20Oct2020	2.03m
VADANAPPALLY	1000Z	20Oct2020	1.73m
BEYPORE	1000Z	20Oct2020	2.04m
KANNUR	1000Z	20Oct2020	1.92m
BHARUCH	1000Z	20Oct2020	1.39m
TARAPUR	1002Z	20Oct2020	1.32m
VAKKAD	1002Z	20Oct2020	1.96m
COCHIN	1002Z	20Oct2020	1.64m
QUILON	1004Z	20Oct2020	1.71m
ALIBAG PORT	1004Z	20Oct2020	1.63m
MUMBAI	1004Z	20Oct2020	1.63m
DAMAN	1010Z	20Oct2020	1.26m
BORSI	1010Z	20Oct2020	1.26m
HAZIRA	1010Z	20Oct2020	1.41m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
RAMESWARAM	1132Z	20Oct2020	0.57m
KOTTTAIPPATTANAM	1140Z	20Oct2020	0.50m
INDONESIA			
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
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SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
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MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m
IRAN			
PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m
KENYA			
KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
TAKAUNGU	1220Z	20Oct2020	0.63m
KISIMACHANDE	1224Z	20Oct2020	0.74m
KIPINI	1224Z	20Oct2020	0.79m
MVULENI	1240Z	20Oct2020	0.67m
MADAGASCAR			
ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m
FARAFAGANA	1516Z	20Oct2020	0.66m
SAMPONA	0304Z	21Oct2020	0.56m
MALDIVES			
KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m

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MALE 1004Z 20Oct2020 1.21m
KOLHUFUSHI 1022Z 20Oct2020 1.13m

MAURITIUS
AGALEGA ISLAND 1152Z 20Oct2020 0.87m
LA FERME 1312Z 20Oct2020 1.67m
GRANDE REVIERE SUD EST-WEST 1322Z 20Oct2020 0.66m
CARGADOS CARAJOS 1322Z 20Oct2020 0.82m
GRANDE REVIERE SUD EST-EAST 1336Z 20Oct2020 0.66m

MOZAMBIQUE
MAGANJA 1238Z 20Oct2020 0.60m
QUITERAJO 1252Z 20Oct2020 0.51m
MURREBUE 1300Z 20Oct2020 0.56m
MERONVI 1300Z 20Oct2020 0.54m
LURIO 1306Z 20Oct2020 0.57m
MECUFI 1306Z 20Oct2020 0.61m
PEMBA 1308Z 20Oct2020 0.54m
NANGATA 1312Z 20Oct2020 0.59m
MINHAUINE 1314Z 20Oct2020 0.65m
NHANGAU 0422Z 21Oct2020 0.54m

OMAN
MUSCAT 0610Z 20Oct2020 16.49m
AL KHABURAH 0614Z 20Oct2020 10.92m
QURAYYAT 0614Z 20Oct2020 13.16m
BARKA 0614Z 20Oct2020 12.14m
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MASIRAH 0654Z 20Oct2020 3.06m
AD DUQM 0720Z 20Oct2020 2.29m
AL JAZER 0746Z 20Oct2020 1.62m
HASIK 0746Z 20Oct2020 1.83m

PAKISTAN
ORMARA 0600Z 20Oct2020 11.71m
WINDER 0602Z 20Oct2020 5.15m
KARACHI 0652Z 20Oct2020 4.04m
SINDH 0708Z 20Oct2020 3.30m

SEYCHELLES
FREGATE ISLAND 1036Z 20Oct2020 2.18m
ILE DESROCHES 1054Z 20Oct2020 0.90m
TAKAMAKA 1116Z 20Oct2020 1.64m
COETIVY ISLAND 1124Z 20Oct2020 0.73m
ALDABRA 1148Z 20Oct2020 0.59m
ASTOVE ISLAND 1148Z 20Oct2020 0.52m

SOMALIA
TOOXIN 0918Z 20Oct2020 1.07m
ABO 0920Z 20Oct2020 1.60m
JARIIBAN 0950Z 20Oct2020 1.14m
GALDOGOB 1000Z 20Oct2020 1.00m
KABURA 1014Z 20Oct2020 1.13m
XARARDHEERE 1018Z 20Oct2020 0.86m
BAKI 1022Z 20Oct2020 1.15m
CEEL DHEER 1028Z 20Oct2020 0.75m
MAREEG 1032Z 20Oct2020 0.68m
SAYLAC 1100Z 20Oct2020 1.25m
LOYADO 1108Z 20Oct2020 1.35m
BARAAWE 1110Z 20Oct2020 0.58m
JILIB 1126Z 20Oct2020 0.56m
TURDHO 1130Z 20Oct2020 0.54m
NE BEERNAASI 1136Z 20Oct2020 0.58m
KAAMBOONI 1144Z 20Oct2020 0.53m

SRI LANKA
MORATUWA 1056Z 20Oct2020 0.64m
MUNDAL LAKE 1100Z 20Oct2020 0.56m
NEGOMBO 1100Z 20Oct2020 0.63m
MUSALI 1156Z 20Oct2020 0.53m
MANNAR ISLAND 1206Z 20Oct2020 0.58m

TANZANIA
ZANZIBAR 1228Z 20Oct2020 0.61m
KUTANI 1230Z 20Oct2020 0.57m
WEST TO KONDE 1238Z 20Oct2020 0.82m
RUVU 1238Z 20Oct2020 0.65m
VUMBA 1242Z 20Oct2020 0.64m
SONGO SONGO ISLAND 1242Z 20Oct2020 0.53m
MADANGWA 1242Z 20Oct2020 0.65m
BOMALANDNI 1244Z 20Oct2020 0.76m
MSASANI 1244Z 20Oct2020 0.65m
VUMBI 1246Z 20Oct2020 0.58m
BAGAMOYO 1246Z 20Oct2020 0.85m
GAZIJA 1248Z 20Oct2020 0.69m
JIMBO 1258Z 20Oct2020 0.66m

UNITED ARAB EMIRATES
KALBA 0628Z 20Oct2020 5.09m

UNITED KINGDOM
MORESBY ISLAND 1058Z 20Oct2020 1.99m
NW EGMONT ISLAND 1108Z 20Oct2020 1.63m
DIEGO GARCIA 1138Z 20Oct2020 1.52m

YEMEN
SOCOTRA ISLAND SOUTH 0826Z 20Oct2020 1.68m
SOCOTRA ISLAND NORTH 0834Z 20Oct2020 1.84m
AL GHAYDAH AIRPORT 0836Z 20Oct2020 1.84m
HUSWAYN 0846Z 20Oct2020 1.25m
ALQUMRAH 0858Z 20Oct2020 1.18m
HARRAH 0912Z 20Oct2020 1.07m
HAMI 0920Z 20Oct2020 1.25m
AL MUKALLA 0922Z 20Oct2020 1.41m
RUDUM 0936Z 20Oct2020 1.07m
AHWAR 0956Z 20Oct2020 0.99m
KHANFAR 1022Z 20Oct2020 1.17m
ADEN 1038Z 20Oct2020 0.92m
MA'ALLAH 1044Z 20Oct2020 1.33m
QAWAH 1100Z 20Oct2020 1.39m
AL MUALLA 1130Z 20Oct2020 1.16m

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:

TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>
TSP INDONESIA: <http://rtsp.bmkg.go.id>

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

BULLETIN 12

IDY68501

TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 12 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1430 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 UTC
Gan	MALDIVES	0.70S	73.15E	0.73m	20 Oct 10:35 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	20 Oct 10:50 UTC
Aden	YEMEN	12.80N	44.97E	0.88m	20 Oct 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.33m	20 Oct 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	20 Oct 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.26m	20 Oct 11:40 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	20 Oct 11:50 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.33m	20 Oct 12:00 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	20 Oct 12:15 UTC
Mombasa	KENYA	4.10S	39.65E	0.35m	20 Oct 12:25 UTC
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	20 Oct 12:30 UTC
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	20 Oct 12:35 UTC
Deep Ocean Buoy 23401	BAY OF BENGAL	8.86N	88.56E	0.03m	20 Oct 13:00 UTC
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	20 Oct 13:10 UTC
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	20 Oct 13:25 UTC
Sainte Marie	REUNION	20.90S	55.54E	0.29m	20 Oct 13:30 UTC

Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	20 Oct 13:35 UTC
Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	20 Oct 13:40 UTC
Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	20 Oct 13:40 UTC
Comores	COMORES	11.70S	43.25E	0.20m	20 Oct 13:50 UTC
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	20 Oct 14:10 UTC
Sabang	INDONESIA	5.80N	95.33E	0.11m	20 Oct 14:15 UTC
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	20 Oct 14:20 UTC
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	20 Oct 14:20 UTC
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	20 Oct 14:25 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				
GASCOYNE COAST		1746Z	20Oct2020	0.59m
PILBARA COAST WEST		1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS		1936Z	20Oct2020	1.40m
AURORA BANK		1952Z	20Oct2020	0.74m
GERALDTON COAST		2324Z	20Oct2020	0.53m

BANGLADESH				
COXS BAZAR	2144Z	20Oct2020		0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020		0.54m
BARGUNA	0218Z	21Oct2020		0.54m

COMOROS				
BAMBAO	1222Z	20Oct2020		0.63m
FOMBONI	1226Z	20Oct2020		0.70m
DZAOUDZI	1226Z	20Oct2020		0.53m

DJIBOUTI				
MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020		2.42m
NW ARTA	1108Z	20Oct2020		2.86m

FRANCE				
SAINT-DENIS	1324Z	20Oct2020		0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020		1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020		0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020		0.63m
CROZET PLATEAU	1840Z	20Oct2020		0.94m
ILE KERGUELEN	1840Z	20Oct2020		1.47m

INDIA				
MANDVI	0746Z	20Oct2020		3.20m
PORBANDAR	0752Z	20Oct2020		1.84m
DWARKA	0754Z	20Oct2020		2.69m

JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
MALVAN BAY	0900Z	20Oct2020	1.67m
ANDROTH	0912Z	20Oct2020	2.40m
VASCO	0912Z	20Oct2020	1.86m
PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m
MAHUVA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
MAHE	0958Z	20Oct2020	2.03m
BEYPORE	1000Z	20Oct2020	2.04m
BHARUCH	1000Z	20Oct2020	1.39m
VADANAPPALLY	1000Z	20Oct2020	1.73m
KANNUR	1000Z	20Oct2020	1.92m
TARAPUR	1002Z	20Oct2020	1.32m
COCHIN	1002Z	20Oct2020	1.64m
VAKKAD	1002Z	20Oct2020	1.96m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m
ALIBAG PORT	1004Z	20Oct2020	1.63m
DAMAN	1010Z	20Oct2020	1.26m
BORSI	1010Z	20Oct2020	1.26m
HAZIRA	1010Z	20Oct2020	1.41m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
INDONESIA			
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
SUMUT NIAS B	1826Z	20Oct2020	0.54m
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
MURASAIBI	2032Z	20Oct2020	0.51m
MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m
IRAN			
PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m
KENYA			
KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
TAKAUNGU	1220Z	20Oct2020	0.63m
KISIMACHANDE	1224Z	20Oct2020	0.74m
KIPINI	1224Z	20Oct2020	0.79m
MVULENI	1240Z	20Oct2020	0.67m
MADAGASCAR			
ANOROTSANGANA	1210Z	20Oct2020	0.87m
VOHEMAR	1214Z	20Oct2020	1.01m
BALY	1302Z	20Oct2020	0.64m
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m
TAMPOLO	1346Z	20Oct2020	1.05m
TAMOTAMO	1356Z	20Oct2020	0.59m
AMBAHY	1412Z	20Oct2020	0.55m

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FARAFAGANA 1516Z 20Oct2020 0.66m
SAMPONA 0304Z 21Oct2020 0.56m

MALDIVES

KULHUDUFFUSHI 0922Z 20Oct2020 2.28m
GOIDHOO 0928Z 20Oct2020 2.12m
FERIDHOO 0940Z 20Oct2020 2.31m
NILANDHOO 0952Z 20Oct2020 1.97m
MALE 1004Z 20Oct2020 1.21m
KOLHUFUSHI 1022Z 20Oct2020 1.13m

MAURITIUS

LA FERME 1312Z 20Oct2020 1.67m
GRANDE REVIERE SUD EST-WEST 1322Z 20Oct2020 0.66m
CARGADOS CARAJOS 1322Z 20Oct2020 0.82m
GRANDE REVIERE SUD EST-EAST 1336Z 20Oct2020 0.66m

MOZAMBIQUE

MAGANJA 1238Z 20Oct2020 0.60m
QUITERAJO 1252Z 20Oct2020 0.51m
MURREBUE 1300Z 20Oct2020 0.56m
MERONVI 1300Z 20Oct2020 0.54m
LURIO 1306Z 20Oct2020 0.57m
MECUFI 1306Z 20Oct2020 0.61m
PEMBA 1308Z 20Oct2020 0.54m
NANGATA 1312Z 20Oct2020 0.59m
MINHAUINE 1314Z 20Oct2020 0.65m
NHANGAU 0422Z 21Oct2020 0.54m

OMAN

MUSCAT 0610Z 20Oct2020 16.49m
AL KHABURAH 0614Z 20Oct2020 10.92m
QURAYYAT 0614Z 20Oct2020 13.16m
BARKA 0614Z 20Oct2020 12.14m
SUR 0622Z 20Oct2020 11.04m
SOHAR 0624Z 20Oct2020 6.42m
EAST MUSANDAM 0642Z 20Oct2020 5.07m
RAS AR RUWAYS 0652Z 20Oct2020 3.45m
MASIRAH 0654Z 20Oct2020 3.06m
AD DUQM 0720Z 20Oct2020 2.29m
AL JAZER 0746Z 20Oct2020 1.62m
HASIK 0746Z 20Oct2020 1.83m

PAKISTAN

ORMARA 0600Z 20Oct2020 11.71m
WINDER 0602Z 20Oct2020 5.15m
KARACHI 0652Z 20Oct2020 4.04m
SINDH 0708Z 20Oct2020 3.30m

SEYCHELLES

FREGATE ISLAND 1036Z 20Oct2020 2.18m
TAKAMAKA 1116Z 20Oct2020 1.64m
ASTOVE ISLAND 1148Z 20Oct2020 0.52m

SOMALIA

TOOXIN 0918Z 20Oct2020 1.07m
ABO 0920Z 20Oct2020 1.60m
JARIIBAN 0950Z 20Oct2020 1.14m
GALDOGOB 1000Z 20Oct2020 1.00m
KABURA 1014Z 20Oct2020 1.13m
XARARDHEERE 1018Z 20Oct2020 0.86m
BAKI 1022Z 20Oct2020 1.15m
CEEL DHEER 1028Z 20Oct2020 0.75m
MAREEG 1032Z 20Oct2020 0.68m
SAYLAC 1100Z 20Oct2020 1.25m
LOYADO 1108Z 20Oct2020 1.35m
NE BEERNAASI 1136Z 20Oct2020 0.58m

TANZANIA
ZANZIBAR 1228Z 20Oct2020 0.61m
KUTANI 1230Z 20Oct2020 0.57m
WEST TO KONDE 1238Z 20Oct2020 0.82m
RUVU 1238Z 20Oct2020 0.65m
VUMBA 1242Z 20Oct2020 0.64m
SONGO SONGO ISLAND 1242Z 20Oct2020 0.53m
MADANGWA 1242Z 20Oct2020 0.65m
BOMALANDNI 1244Z 20Oct2020 0.76m
MSASANI 1244Z 20Oct2020 0.65m
VUMBI 1246Z 20Oct2020 0.58m
BAGAMOYO 1246Z 20Oct2020 0.85m
GAZIJA 1248Z 20Oct2020 0.69m
JIMBO 1258Z 20Oct2020 0.66m

UNITED ARAB EMIRATES
KALBA 0628Z 20Oct2020 5.09m

UNITED KINGDOM
NW EGMONT ISLAND 1108Z 20Oct2020 1.63m
DIEGO GARCIA 1138Z 20Oct2020 1.52m

YEMEN
SOCOTRA ISLAND SOUTH 0826Z 20Oct2020 1.68m
SOCOTRA ISLAND NORTH 0834Z 20Oct2020 1.84m
AL GHAYDAH AIRPORT 0836Z 20Oct2020 1.84m
HUSWAYN 0846Z 20Oct2020 1.25m
ALQUMRAH 0858Z 20Oct2020 1.18m
HARRAH 0912Z 20Oct2020 1.07m
HAMI 0920Z 20Oct2020 1.25m
AL MUKALLA 0922Z 20Oct2020 1.41m
RUDUM 0936Z 20Oct2020 1.07m
AHWAR 0956Z 20Oct2020 0.99m
KHANFAR 1022Z 20Oct2020 1.17m
ADEN 1038Z 20Oct2020 0.92m
MA'ALLAH 1044Z 20Oct2020 1.33m
QAWAH 1100Z 20Oct2020 1.39m
AL MUALLA 1130Z 20Oct2020 1.16m

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:

TSP INDIA: <http://www.incois.gov.in/Incois/tsunami/eqevents.jsp>
TSP INDONESIA: <http://rtsp.bmkg.go.id>

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT
#

#####

BULLETIN 13

IDY68501

```
#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

TSUNAMI BULLETIN NUMBER 13 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1530 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 UTC
Gan	MALDIVES	0.70S	73.15E	0.73m	20 Oct 10:35 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	20 Oct 10:50 UTC
Aden	YEMEN	12.80N	44.97E	0.88m	20 Oct 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.33m	20 Oct 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	20 Oct 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.26m	20 Oct 11:40 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	20 Oct 11:50 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.33m	20 Oct 12:00 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	20 Oct 12:15 UTC
Mombasa	KENYA	4.10S	39.65E	0.35m	20 Oct 12:25 UTC
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	20 Oct 12:30 UTC
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	20 Oct 12:35 UTC
Deep Ocean Buoy 23401	BAY OF BENGAL	8.86N	88.56E	0.03m	20 Oct 13:00 UTC
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	20 Oct 13:10 UTC
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	20 Oct 13:25 UTC
Sainte Marie	REUNION	20.90S	55.54E	0.29m	20 Oct 13:30 UTC

Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	20 Oct 13:35 UTC
Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	20 Oct 13:40 UTC
Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	20 Oct 13:40 UTC
Comores	COMORES	11.70S	43.25E	0.20m	20 Oct 13:50 UTC
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	20 Oct 14:10 UTC
Sabang	INDONESIA	5.80N	95.33E	0.11m	20 Oct 14:15 UTC
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	20 Oct 14:20 UTC
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	20 Oct 14:20 UTC
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	20 Oct 14:25 UTC
Seblat	INDONESIA	3.17S	101.50E	0.20m	20 Oct 14:45 UTC
Enggano	INDONESIA	5.30S	102.28E	0.18m	20 Oct 15:00 UTC
Padang	INDONESIA	1.00S	100.37E	0.15m	20 Oct 15:10 UTC
Christmas Is	AUSTRALIA	10.40S	105.67E	0.13m	20 Oct 15:25 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

GASCOYNE COAST		1746Z	20Oct2020	0.59m
PILBARA COAST WEST		1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS		1936Z	20Oct2020	1.40m
AURORA BANK		1952Z	20Oct2020	0.74m
GERALDTON COAST		2324Z	20Oct2020	0.53m

BANGLADESH

COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

COMOROS

BAMBAO	1222Z	20Oct2020	0.63m
FOMBONI	1226Z	20Oct2020	0.70m
DZAOUDZI	1226Z	20Oct2020	0.53m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE

SAINT-DENIS	1324Z	20Oct2020	0.73m
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA				
MANDVI	0746Z	20Oct2020	3.20m	
PORBANDAR	0752Z	20Oct2020	1.84m	
DWARKA	0754Z	20Oct2020	2.69m	
JAMNAGAR	0758Z	20Oct2020	2.14m	
MANGROL	0814Z	20Oct2020	1.95m	
HAZIRA, DIU	0826Z	20Oct2020	2.03m	
AMINI	0848Z	20Oct2020	2.45m	
MALVAN BAY	0900Z	20Oct2020	1.67m	
ANDROTH	0912Z	20Oct2020	2.40m	
VASCO	0912Z	20Oct2020	1.86m	
PANAJI	0914Z	20Oct2020	1.74m	
MINICOY	0916Z	20Oct2020	1.55m	
JAIGARH	0916Z	20Oct2020	1.76m	
KARWAR	0922Z	20Oct2020	1.76m	
UDUPI	0940Z	20Oct2020	1.93m	
MANGALORE	0944Z	20Oct2020	1.62m	
KASARAGOD	0946Z	20Oct2020	1.75m	
PIPAVAV	0948Z	20Oct2020	1.74m	
MAHUVA	0952Z	20Oct2020	1.63m	
KHAMBAT	0954Z	20Oct2020	1.45m	
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m	
MAHE	0958Z	20Oct2020	2.03m	
BEYPORE	1000Z	20Oct2020	2.04m	
BHARUCH	1000Z	20Oct2020	1.39m	
VADANAPPALLY	1000Z	20Oct2020	1.73m	
KANNUR	1000Z	20Oct2020	1.92m	
TARAPUR	1002Z	20Oct2020	1.32m	
COCHIN	1002Z	20Oct2020	1.64m	
VAKKAD	1002Z	20Oct2020	1.96m	
MUMBAI	1004Z	20Oct2020	1.63m	
QUILON	1004Z	20Oct2020	1.71m	
ALIBAG PORT	1004Z	20Oct2020	1.63m	
DAMAN	1010Z	20Oct2020	1.26m	
BORSI	1010Z	20Oct2020	1.26m	
HAZIRA	1010Z	20Oct2020	1.41m	
KANYAKUMARI	1030Z	20Oct2020	1.07m	
KOODANKULAM	1102Z	20Oct2020	0.86m	
TUTICORIN	1130Z	20Oct2020	0.64m	
INDONESIA				
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	1416Z	20Oct2020	0.62m	
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m	
SUMUT NIAS B	1826Z	20Oct2020	0.54m	
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m	
SAKUBO	2030Z	20Oct2020	0.53m	
MURASAIBI	2032Z	20Oct2020	0.51m	
MUARASIGEP	2034Z	20Oct2020	0.57m	
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m	
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m	
IRAN				
PUSHT	0600Z	20Oct2020	7.88m	
BIR	0600Z	20Oct2020	12.69m	
MISKI	0640Z	20Oct2020	3.60m	
KENYA				
KIWAYU	1210Z	20Oct2020	0.69m	
MALINDI	1218Z	20Oct2020	0.85m	
KIPINI	1224Z	20Oct2020	0.79m	
MADAGASCAR				
ANOROTSANGANA	1210Z	20Oct2020	0.87m	
VOHEMAR	1214Z	20Oct2020	1.01m	
BALY	1302Z	20Oct2020	0.64m	
TOAMASINA AIRPORT	1342Z	20Oct2020	0.53m	
TAMPOLO	1346Z	20Oct2020	1.05m	
TAMOTAMO	1356Z	20Oct2020	0.59m	

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AMBAHY	1412Z	20Oct2020	0.55m
FARAFAGANA	1516Z	20Oct2020	0.66m
SAMPONA	0304Z	21Oct2020	0.56m

MALDIVES

KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m
MALE	1004Z	20Oct2020	1.21m
KOLHUFUSHI	1022Z	20Oct2020	1.13m

MAURITIUS

LA FERME	1312Z	20Oct2020	1.67m
CARGADOS CARAJOS	1322Z	20Oct2020	0.82m
GRANDE REVIERE SUD EST-EAST	1336Z	20Oct2020	0.66m

MOZAMBIQUE

MURREBUE	1300Z	20Oct2020	0.56m
PEMBA	1308Z	20Oct2020	0.54m
NHANGAU	0422Z	21Oct2020	0.54m

OMAN

MUSCAT	0610Z	20Oct2020	16.49m
AL KHABURAH	0614Z	20Oct2020	10.92m
QURAYYAT	0614Z	20Oct2020	13.16m
BARKA	0614Z	20Oct2020	12.14m
SUR	0622Z	20Oct2020	11.04m
SOHAR	0624Z	20Oct2020	6.42m
EAST MUSANDAM	0642Z	20Oct2020	5.07m
AD DUQM	0720Z	20Oct2020	2.29m
HASIK	0746Z	20Oct2020	1.83m

PAKISTAN

ORMARA	0600Z	20Oct2020	11.71m
WINDER	0602Z	20Oct2020	5.15m
KARACHI	0652Z	20Oct2020	4.04m
SINDH	0708Z	20Oct2020	3.30m

SEYCHELLES

FREGATE ISLAND	1036Z	20Oct2020	2.18m
TAKAMAKA	1116Z	20Oct2020	1.64m

SOMALIA

TOOXIN	0918Z	20Oct2020	1.07m
ABO	0920Z	20Oct2020	1.60m
JARIIBAN	0950Z	20Oct2020	1.14m
GALDOGOB	1000Z	20Oct2020	1.00m
KABURA	1014Z	20Oct2020	1.13m
XARARDHEERE	1018Z	20Oct2020	0.86m
BAKI	1022Z	20Oct2020	1.15m
CEEL DHEER	1028Z	20Oct2020	0.75m
MAREEG	1032Z	20Oct2020	0.68m
SAYLAC	1100Z	20Oct2020	1.25m
LOYADO	1108Z	20Oct2020	1.35m
NE BEERNAASI	1136Z	20Oct2020	0.58m

TANZANIA

BAGAMOYO	1246Z	20Oct2020	0.85m
GAZIJA	1248Z	20Oct2020	0.69m

UNITED ARAB EMIRATES

KALBA	0628Z	20Oct2020	5.09m
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UNITED KINGDOM

DIEGO GARCIA	1138Z	20Oct2020	1.52m
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YEMEN

SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HUSWAYN	0846Z	20Oct2020	1.25m
ALQUMRAH	0858Z	20Oct2020	1.18m
HARRAH	0912Z	20Oct2020	1.07m
HAMI	0920Z	20Oct2020	1.25m
AL MUKALLA	0922Z	20Oct2020	1.41m
RUDUM	0936Z	20Oct2020	1.07m
AHWAR	0956Z	20Oct2020	0.99m
KHANFAR	1022Z	20Oct2020	1.17m
ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:

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

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

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 14

IDY68501

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#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

TSUNAMI BULLETIN NUMBER 14 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1630 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 UTC
Gan	MALDIVES	0.70S	73.15E	0.73m	20 Oct 10:35 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	20 Oct 10:50 UTC
Aden	YEMEN	12.80N	44.97E	0.88m	20 Oct 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.33m	20 Oct 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	20 Oct 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.26m	20 Oct 11:40 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	20 Oct 11:50 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.33m	20 Oct 12:00 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	20 Oct 12:15 UTC
Mombasa	KENYA	4.10S	39.65E	0.35m	20 Oct 12:25 UTC
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	20 Oct 12:30 UTC
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	20 Oct 12:35 UTC
Deep Ocean Buoy 23401	BAY OF BENGAL	8.86N	88.56E	0.03m	20 Oct 13:00 UTC
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	20 Oct 13:10 UTC
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	20 Oct 13:25 UTC

Sainte Marie	REUNION	20.90S	55.54E	0.29m	20 Oct 13:30 UTC
Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	20 Oct 13:35 UTC
Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	20 Oct 13:40 UTC
Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	20 Oct 13:40 UTC
Comores	COMORES	11.70S	43.25E	0.20m	20 Oct 13:50 UTC
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	20 Oct 14:10 UTC
Sabang	INDONESIA	5.80N	95.33E	0.11m	20 Oct 14:15 UTC
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	20 Oct 14:20 UTC
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	20 Oct 14:20 UTC
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	20 Oct 14:25 UTC
Seblat	INDONESIA	3.17S	101.50E	0.20m	20 Oct 14:45 UTC
Enggano	INDONESIA	5.30S	102.28E	0.18m	20 Oct 15:00 UTC
Padang	INDONESIA	1.00S	100.37E	0.15m	20 Oct 15:10 UTC
Christmas Is	AUSTRALIA	10.40S	105.67E	0.13m	20 Oct 15:25 UTC
Inhambane	MOZAMBIQUE	24.00S	35.50E	0.11m	20 Oct 15:30 UTC
Sittwe	MYANMAR	20.00N	92.83E	0.20m	20 Oct 15:45 UTC
Ko Taphao Noi	THAILAND	7.80N	98.42E	0.15m	20 Oct 15:55 UTC
Tanjung Lesung	INDONESIA	6.50S	105.50E	0.29m	20 Oct 16:05 UTC
Deep Ocean Buoy 56001	INDIAN OCEAN	14.02S	109.94E	0.04m	20 Oct 16:10 UTC
Sibolga	INDONESIA	1.67N	98.67E	0.67m	20 Oct 16:10 UTC
Pangandaran	INDONESIA	7.83S	108.50E	0.20m	20 Oct 16:15 UTC
Cilacap	INDONESIA	7.80S	109.00E	0.24m	20 Oct 16:25 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			
GASCOYNE COAST		1746Z 20Oct2020	0.59m
PILBARA COAST WEST		1756Z 20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS		1936Z 20Oct2020	1.40m
AURORA BANK		1952Z 20Oct2020	0.74m
GERALDTON COAST		2324Z 20Oct2020	0.53m

BANGLADESH			
COXS BAZAR	2144Z	20Oct2020	0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020	0.54m
BARGUNA	0218Z	21Oct2020	0.54m

DJIBOUTI			
MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020	2.42m
NW ARTA	1108Z	20Oct2020	2.86m

FRANCE			
ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m

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CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m
INDIA			
MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
DWARKA	0754Z	20Oct2020	2.69m
JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
AMINI	0848Z	20Oct2020	2.45m
MALVAN BAY	0900Z	20Oct2020	1.67m
ANDROTH	0912Z	20Oct2020	2.40m
VASCO	0912Z	20Oct2020	1.86m
PANAJI	0914Z	20Oct2020	1.74m
MINICOY	0916Z	20Oct2020	1.55m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m
MAHUA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
MAHE	0958Z	20Oct2020	2.03m
BEYPORE	1000Z	20Oct2020	2.04m
BHARUCH	1000Z	20Oct2020	1.39m
VADANAPPALLY	1000Z	20Oct2020	1.73m
KANNUR	1000Z	20Oct2020	1.92m
TARAPUR	1002Z	20Oct2020	1.32m
COCHIN	1002Z	20Oct2020	1.64m
VAKKAD	1002Z	20Oct2020	1.96m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m
ALIBAG PORT	1004Z	20Oct2020	1.63m
DAMAN	1010Z	20Oct2020	1.26m
BORSI	1010Z	20Oct2020	1.26m
HAZIRA	1010Z	20Oct2020	1.41m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KOODANKULAM	1102Z	20Oct2020	0.86m
TUTICORIN	1130Z	20Oct2020	0.64m
INDONESIA			
BENGKULU BENGKULU-UTARA P.ENGGANO	1450Z	20Oct2020	0.53m
SUMUT NIAS B	1826Z	20Oct2020	0.54m
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
MURASAIBI	2032Z	20Oct2020	0.51m
MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m
IRAN			
PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m
KENYA			
KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
KIPINI	1224Z	20Oct2020	0.79m
MADAGASCAR			
ANOROTSANGANA	1210Z	20Oct2020	0.87m
BALY	1302Z	20Oct2020	0.64m
TAMPOLO	1346Z	20Oct2020	1.05m
FARAFAGANA	1516Z	20Oct2020	0.66m

SAMPONA 0304Z 21Oct2020 0.56m

MALDIVES

KULHUDUFFUSHI 0922Z 20Oct2020 2.28m
GOIDHOO 0928Z 20Oct2020 2.12m
FERIDHOO 0940Z 20Oct2020 2.31m
NILANDHOO 0952Z 20Oct2020 1.97m
MALE 1004Z 20Oct2020 1.21m
KOLHUFUSHI 1022Z 20Oct2020 1.13m

MAURITIUS

CARGADOS CARAJOS 1322Z 20Oct2020 0.82m

MOZAMBIQUE

PEMBA 1308Z 20Oct2020 0.54m
NHANGAU 0422Z 21Oct2020 0.54m

OMAN

MUSCAT 0610Z 20Oct2020 16.49m
AL KHABURAH 0614Z 20Oct2020 10.92m
QURAYYAT 0614Z 20Oct2020 13.16m
BARKA 0614Z 20Oct2020 12.14m
SUR 0622Z 20Oct2020 11.04m
SOHAR 0624Z 20Oct2020 6.42m
EAST MUSANDAM 0642Z 20Oct2020 5.07m
AD DUQM 0720Z 20Oct2020 2.29m
HASIK 0746Z 20Oct2020 1.83m

PAKISTAN

ORMARA 0600Z 20Oct2020 11.71m
WINDER 0602Z 20Oct2020 5.15m
KARACHI 0652Z 20Oct2020 4.04m
SINDH 0708Z 20Oct2020 3.30m

SEYCHELLES

FREGATE ISLAND 1036Z 20Oct2020 2.18m
TAKAMAKA 1116Z 20Oct2020 1.64m

SOMALIA

TOOXIN 0918Z 20Oct2020 1.07m
ABO 0920Z 20Oct2020 1.60m
JARIIBAN 0950Z 20Oct2020 1.14m
GALDOGOB 1000Z 20Oct2020 1.00m
KABURA 1014Z 20Oct2020 1.13m
XARARDHEERE 1018Z 20Oct2020 0.86m
BAKI 1022Z 20Oct2020 1.15m
CEEL DHEER 1028Z 20Oct2020 0.75m
MAREEG 1032Z 20Oct2020 0.68m
SAYLAC 1100Z 20Oct2020 1.25m
LOYADO 1108Z 20Oct2020 1.35m

TANZANIA

BAGAMOYO 1246Z 20Oct2020 0.85m
GAZIJA 1248Z 20Oct2020 0.69m

UNITED ARAB EMIRATES

KALBA 0628Z 20Oct2020 5.09m

YEMEN

SOCOTRA ISLAND SOUTH 0826Z 20Oct2020 1.68m
SOCOTRA ISLAND NORTH 0834Z 20Oct2020 1.84m
AL GHAYDAH AIRPORT 0836Z 20Oct2020 1.84m
HARRAH 0912Z 20Oct2020 1.07m
HAMI 0920Z 20Oct2020 1.25m
AL MUKALLA 0922Z 20Oct2020 1.41m
RUDUM 0936Z 20Oct2020 1.07m
AHWAR 0956Z 20Oct2020 0.99m
KHANFAR 1022Z 20Oct2020 1.17m

ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:

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

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

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 15

IDY68501

TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT

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TSUNAMI BULLETIN NUMBER 15 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1730 UTC Tuesday 20 October 2020

... 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: 10km
Date: 20 Oct 2020
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:

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 UTC
Gan	MALDIVES	0.70S	73.15E	0.73m	20 Oct 10:35 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	20 Oct 10:50 UTC
Aden	YEMEN	12.80N	44.97E	0.88m	20 Oct 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.33m	20 Oct 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	20 Oct 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.26m	20 Oct 11:40 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	20 Oct 11:50 UTC
Agalega	MAURITIUS	10.30S	56.59E	0.33m	20 Oct 12:00 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	20 Oct 12:15 UTC
Mombasa	KENYA	4.10S	39.65E	0.35m	20 Oct 12:25 UTC
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	20 Oct 12:30 UTC
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	20 Oct 12:35 UTC
Deep Ocean Buoy 23401	BAY OF BENGAL	8.86N	88.56E	0.03m	20 Oct 13:00 UTC
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	20 Oct 13:10 UTC
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	20 Oct 13:25 UTC
Sainte Marie	REUNION	20.90S	55.54E	0.29m	20 Oct 13:30 UTC

Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	20 Oct 13:35 UTC
Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	20 Oct 13:40 UTC
Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	20 Oct 13:40 UTC
Comores	COMORES	11.70S	43.25E	0.20m	20 Oct 13:50 UTC
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	20 Oct 14:10 UTC
Sabang	INDONESIA	5.80N	95.33E	0.11m	20 Oct 14:15 UTC
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	20 Oct 14:20 UTC
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	20 Oct 14:20 UTC
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	20 Oct 14:25 UTC
Seblat	INDONESIA	3.17S	101.50E	0.20m	20 Oct 14:45 UTC
Enggano	INDONESIA	5.30S	102.28E	0.18m	20 Oct 15:00 UTC
Padang	INDONESIA	1.00S	100.37E	0.15m	20 Oct 15:10 UTC
Christmas Is	AUSTRALIA	10.40S	105.67E	0.13m	20 Oct 15:25 UTC
Inhambane	MOZAMBIQUE	24.00S	35.50E	0.11m	20 Oct 15:30 UTC
Sittwe	MYANMAR	20.00N	92.83E	0.20m	20 Oct 15:45 UTC
Ko Taphao Noi	THAILAND	7.80N	98.42E	0.15m	20 Oct 15:55 UTC
Tanjung Lesung	INDONESIA	6.50S	105.50E	0.29m	20 Oct 16:05 UTC
Deep Ocean Buoy 56001	INDIAN OCEAN	14.02S	109.94E	0.04m	20 Oct 16:10 UTC
Sibolga	INDONESIA	1.67N	98.67E	0.67m	20 Oct 16:10 UTC
Pangandaran	INDONESIA	7.83S	108.50E	0.20m	20 Oct 16:15 UTC
Cilacap	INDONESIA	7.80S	109.00E	0.24m	20 Oct 16:25 UTC
Marina Jambu	INDONESIA	6.19S	105.83E	0.43m	20 Oct 16:30 UTC
Nancowry	INDIA	8.10N	93.55E	0.22m	20 Oct 16:30 UTC
Prigi	INDONESIA	8.33S	111.83E	0.15m	20 Oct 16:40 UTC
Langkawi	MALAYSIA	6.50N	99.83E	0.13m	20 Oct 17:00 UTC
Deep Ocean Buoy 56003	INDIAN OCEAN	15.02S	117.94E	0.03m	20 Oct 17:10 UTC
Benoa	INDONESIA	8.83S	115.33E	0.11m	20 Oct 17:10 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				
GASCOYNE COAST		1746Z	20Oct2020	0.59m
PILBARA COAST WEST		1756Z	20Oct2020	0.57m
HEARD ISLAND AND MCDONALD ISLANDS		1936Z	20Oct2020	1.40m
AURORA BANK		1952Z	20Oct2020	0.74m
GERALDTON COAST		2324Z	20Oct2020	0.53m

BANGLADESH				
COXS BAZAR	2144Z	20Oct2020		0.58m
KUTUBDIA ISLAND	0218Z	21Oct2020		0.54m
BARGUNA	0218Z	21Oct2020		0.54m

DJIBOUTI				
MUHAMMAD ALI BIN FATHA SUMANA	1106Z	20Oct2020		2.42m
NW ARTA	1108Z	20Oct2020		2.86m

FRANCE

ILE SAINT-PAUL-NORTH	1630Z	20Oct2020	1.00m
ILE SAINT-PAUL-SOUTH	1640Z	20Oct2020	0.89m
ILE DE LA POSSESSION	1826Z	20Oct2020	0.63m
CROZET PLATEAU	1840Z	20Oct2020	0.94m
ILE KERGUELEN	1840Z	20Oct2020	1.47m

INDIA

MANDVI	0746Z	20Oct2020	3.20m
PORBANDAR	0752Z	20Oct2020	1.84m
DWARKA	0754Z	20Oct2020	2.69m
JAMNAGAR	0758Z	20Oct2020	2.14m
MANGROL	0814Z	20Oct2020	1.95m
HAZIRA, DIU	0826Z	20Oct2020	2.03m
MALVAN BAY	0900Z	20Oct2020	1.67m
VASCO	0912Z	20Oct2020	1.86m
PANAJI	0914Z	20Oct2020	1.74m
JAIGARH	0916Z	20Oct2020	1.76m
KARWAR	0922Z	20Oct2020	1.76m
UDUPI	0940Z	20Oct2020	1.93m
MANGALORE	0944Z	20Oct2020	1.62m
KASARAGOD	0946Z	20Oct2020	1.75m
PIPAVAV	0948Z	20Oct2020	1.74m
MAHUVA	0952Z	20Oct2020	1.63m
KHAMBAT	0954Z	20Oct2020	1.45m
MAHE	0958Z	20Oct2020	2.03m
ALLEPPEY ALAPPUZHA	0958Z	20Oct2020	1.84m
BHARUCH	1000Z	20Oct2020	1.39m
KANNUR	1000Z	20Oct2020	1.92m
VADANAPPALLY	1000Z	20Oct2020	1.73m
BEYPORE	1000Z	20Oct2020	2.04m
COCHIN	1002Z	20Oct2020	1.64m
VAKKAD	1002Z	20Oct2020	1.96m
TARAPUR	1002Z	20Oct2020	1.32m
ALIBAG PORT	1004Z	20Oct2020	1.63m
MUMBAI	1004Z	20Oct2020	1.63m
QUILON	1004Z	20Oct2020	1.71m
BORSI	1010Z	20Oct2020	1.26m
DAMAN	1010Z	20Oct2020	1.26m
HAZIRA	1010Z	20Oct2020	1.41m
KANYAKUMARI	1030Z	20Oct2020	1.07m
KODANKULAM	1102Z	20Oct2020	0.86m

INDONESIA

SUMUT NIAS B	1826Z	20Oct2020	0.54m
SUMUT MANDAILING-NATAL U	1944Z	20Oct2020	0.55m
SAKUBO	2030Z	20Oct2020	0.53m
MURASAIBI	2032Z	20Oct2020	0.51m
MUARASIGEP	2034Z	20Oct2020	0.57m
JABAR SUKABUMI PELABUHAN-RATU	2044Z	20Oct2020	0.68m
LAMPUNG LAMPUNG-SELATAN KALIANDA	0314Z	21Oct2020	0.60m

IRAN

PUSHT	0600Z	20Oct2020	7.88m
BIR	0600Z	20Oct2020	12.69m
MISKI	0640Z	20Oct2020	3.60m

KENYA

KIWAYU	1210Z	20Oct2020	0.69m
MALINDI	1218Z	20Oct2020	0.85m
KIPINI	1224Z	20Oct2020	0.79m

MADAGASCAR

ANOROTSANGANA	1210Z	20Oct2020	0.87m
BALY	1302Z	20Oct2020	0.64m
TAMPOLO	1346Z	20Oct2020	1.05m
SAMPONA	0304Z	21Oct2020	0.56m

MALDIVES

KULHUDUFFUSHI	0922Z	20Oct2020	2.28m
GOIDHOO	0928Z	20Oct2020	2.12m
FERIDHOO	0940Z	20Oct2020	2.31m
NILANDHOO	0952Z	20Oct2020	1.97m
MALE	1004Z	20Oct2020	1.21m
KOLHUFUSHI	1022Z	20Oct2020	1.13m

MAURITIUS

CARGADOS CARAJOS	1322Z	20Oct2020	0.82m
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MOZAMBIQUE

NHANGAU	0422Z	21Oct2020	0.54m
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OMAN

MUSCAT	0610Z	20Oct2020	16.49m
AL KHABURAH	0614Z	20Oct2020	10.92m
QURAYYAT	0614Z	20Oct2020	13.16m
BARKA	0614Z	20Oct2020	12.14m
SUR	0622Z	20Oct2020	11.04m
SOHAR	0624Z	20Oct2020	6.42m
EAST MUSANDAM	0642Z	20Oct2020	5.07m
AD DUQM	0720Z	20Oct2020	2.29m
HASIK	0746Z	20Oct2020	1.83m

PAKISTAN

ORMARA	0600Z	20Oct2020	11.71m
WINDER	0602Z	20Oct2020	5.15m
KARACHI	0652Z	20Oct2020	4.04m
SINDH	0708Z	20Oct2020	3.30m

SEYCHELLES

FREGATE ISLAND	1036Z	20Oct2020	2.18m
TAKAMAKA	1116Z	20Oct2020	1.64m

SOMALIA

TOOXIN	0918Z	20Oct2020	1.07m
ABO	0920Z	20Oct2020	1.60m
JARIIBAN	0950Z	20Oct2020	1.14m
GALDOGOB	1000Z	20Oct2020	1.00m
KABURA	1014Z	20Oct2020	1.13m
XARARDHEERE	1018Z	20Oct2020	0.86m
BAKI	1022Z	20Oct2020	1.15m
MAREEG	1032Z	20Oct2020	0.68m
SAYLAC	1100Z	20Oct2020	1.25m
LOYADO	1108Z	20Oct2020	1.35m

TANZANIA

BAGAMOYO	1246Z	20Oct2020	0.85m
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UNITED ARAB EMIRATES

KALBA	0628Z	20Oct2020	5.09m
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YEMEN

SOCOTRA ISLAND SOUTH	0826Z	20Oct2020	1.68m
SOCOTRA ISLAND NORTH	0834Z	20Oct2020	1.84m
AL GHAYDAH AIRPORT	0836Z	20Oct2020	1.84m
HARRAH	0912Z	20Oct2020	1.07m
HAMI	0920Z	20Oct2020	1.25m
AL MUKALLA	0922Z	20Oct2020	1.41m
RUDUM	0936Z	20Oct2020	1.07m
AHWAR	0956Z	20Oct2020	0.99m
KHANFAR	1022Z	20Oct2020	1.17m
ADEN	1038Z	20Oct2020	0.92m
MA'ALLAH	1044Z	20Oct2020	1.33m
QAWAH	1100Z	20Oct2020	1.39m
AL MUALLA	1130Z	20Oct2020	1.16m

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:

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

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

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 16

IDY68504

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#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE20 - NOT A REAL TSUNAMI EVENT  
#  
#####
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TSUNAMI BULLETIN NUMBER 16 (TYPE-IV FINAL BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1830 UTC Tuesday 20 October 2020

... FINAL TSUNAMI BULLETIN FOR THE INDIAN OCEAN ...

1. EARTHQUAKE INFORMATION

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

Magnitude: 9.0 Mwp
Depth: 10km
Date: 20 Oct 2020
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.

Gwadar	PAKISTAN	25.00N	62.00E	7.25m	20 Oct 06:05 UTC
Jask	IRAN	25.60N	57.77E	6.75m	20 Oct 06:10 UTC
Chabahar	IRAN	25.33N	60.50E	5.95m	20 Oct 06:15 UTC
Muscat	OMAN	23.60N	58.57E	6.10m	20 Oct 06:20 UTC
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	20 Oct 06:50 UTC
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	20 Oct 06:55 UTC
Karachi	PAKISTAN	24.83N	66.83E	3.15m	20 Oct 07:25 UTC
Masirah	OMAN	20.70N	58.87E	1.91m	20 Oct 07:25 UTC
Ormara	PAKISTAN	25.20N	64.07E	4.80m	20 Oct 07:40 UTC
Salalah	OMAN	16.90N	54.01E	0.86m	20 Oct 08:35 UTC
Minicoy	INDIA	8.30N	73.05E	0.41m	20 Oct 09:30 UTC
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	20 Oct 09:40 UTC
Mormugao	INDIA	15.40N	73.78E	1.72m	20 Oct 09:40 UTC
Male	MALDIVES	4.20N	73.53E	0.37m	20 Oct 10:25 UTC
Cochin	INDIA	10.00N	76.17E	1.39m	20 Oct 10:25 UTC
Gan	MALDIVES	0.70S	73.15E	0.73m	20 Oct 10:35 UTC
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	20 Oct 10:50 UTC
Aden	YEMEN	12.80N	44.97E	0.88m	20 Oct 11:00 UTC
Colombo	SRI LANKA	7.00N	79.85E	0.33m	20 Oct 11:10 UTC
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	20 Oct 11:15 UTC
Diego Garcia	UK	7.20S	72.43E	0.26m	20 Oct 11:40 UTC
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	20 Oct 11:50 UTC

Agalega	MAURITIUS	10.30S	56.59E	0.33m	20 Oct 12:00 UTC
Lamu	KENYA	2.30S	40.90E	0.46m	20 Oct 12:15 UTC
Mombasa	KENYA	4.10S	39.65E	0.35m	20 Oct 12:25 UTC
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	20 Oct 12:30 UTC
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	20 Oct 12:35 UTC
Deep Ocean Buoy 23401	BAY OF BENGA	8.86N	88.56E	0.03m	20 Oct 13:00 UTC
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	20 Oct 13:10 UTC
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	20 Oct 13:25 UTC
Sainte Marie	REUNION	20.90S	55.54E	0.29m	20 Oct 13:30 UTC
Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	20 Oct 13:35 UTC
Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	20 Oct 13:40 UTC
Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	20 Oct 13:40 UTC
Comores	COMORES	11.70S	43.25E	0.20m	20 Oct 13:50 UTC
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	20 Oct 14:10 UTC
Sabang	INDONESIA	5.80N	95.33E	0.11m	20 Oct 14:15 UTC
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	20 Oct 14:20 UTC
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	20 Oct 14:20 UTC
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	20 Oct 14:25 UTC
Seblat	INDONESIA	3.17S	101.50E	0.20m	20 Oct 14:45 UTC
Enggano	INDONESIA	5.30S	102.28E	0.18m	20 Oct 15:00 UTC
Padang	INDONESIA	1.00S	100.37E	0.15m	20 Oct 15:10 UTC
Christmas Is	AUSTRALIA	10.40S	105.67E	0.13m	20 Oct 15:25 UTC
Inhambane	MOZAMBIQUE	24.00S	35.50E	0.11m	20 Oct 15:30 UTC
Sittwe	MYANMAR	20.00N	92.83E	0.20m	20 Oct 15:45 UTC
Ko Taphao Noi	THAILAND	7.80N	98.42E	0.15m	20 Oct 15:55 UTC
Tanjung Lesung	INDONESIA	6.50S	105.50E	0.29m	20 Oct 16:05 UTC
Sibolga	INDONESIA	1.67N	98.67E	0.67m	20 Oct 16:10 UTC
Deep Ocean Buoy 56001	INDIAN OCEAN	14.02S	109.94E	0.04m	20 Oct 16:10 UTC
Pangandaran	INDONESIA	7.83S	108.50E	0.20m	20 Oct 16:15 UTC
Cilacap	INDONESIA	7.80S	109.00E	0.24m	20 Oct 16:25 UTC
Nancowry	INDIA	8.10N	93.55E	0.22m	20 Oct 16:30 UTC
Marina Jambu	INDONESIA	6.19S	105.83E	0.43m	20 Oct 16:30 UTC
Prigi	INDONESIA	8.33S	111.83E	0.15m	20 Oct 16:40 UTC
Langkawi	MALAYSIA	6.50N	99.83E	0.13m	20 Oct 17:00 UTC
Benoa	INDONESIA	8.83S	115.33E	0.11m	20 Oct 17:10 UTC
Deep Ocean Buoy 56003	INDIAN OCEAN	15.02S	117.94E	0.03m	20 Oct 17:10 UTC
Point Murat	AUSTRALIA	21.80S	114.19E	0.31m	20 Oct 17:30 UTC
Waikelo	INDONESIA	9.40S	119.22E	0.13m	20 Oct 17:50 UTC
Meulaboh	INDONESIA	4.17N	96.00E	0.33m	20 Oct 17:50 UTC
Cape Cuvier Wharf	AUSTRALIA	24.20S	113.40E	0.37m	20 Oct 17:55 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:

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

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

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 IOWAVE20 - NOT A REAL TSUNAMI EVENT

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3. TSP INDIA MAPS

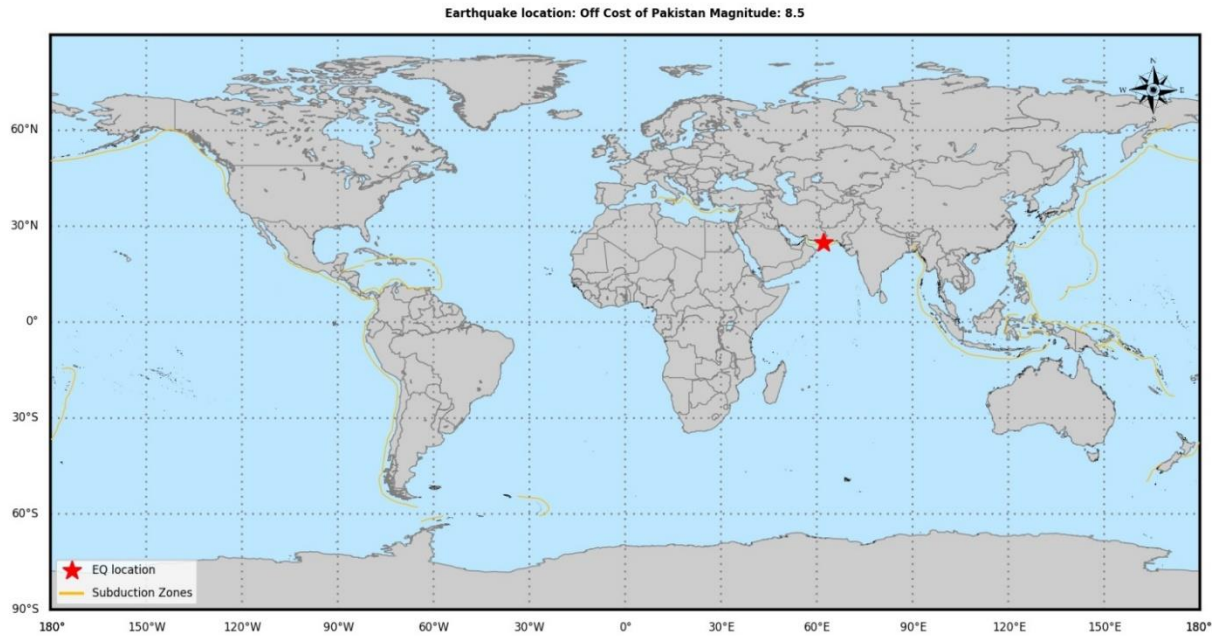


Figure S3-10. Location Map

M8.7

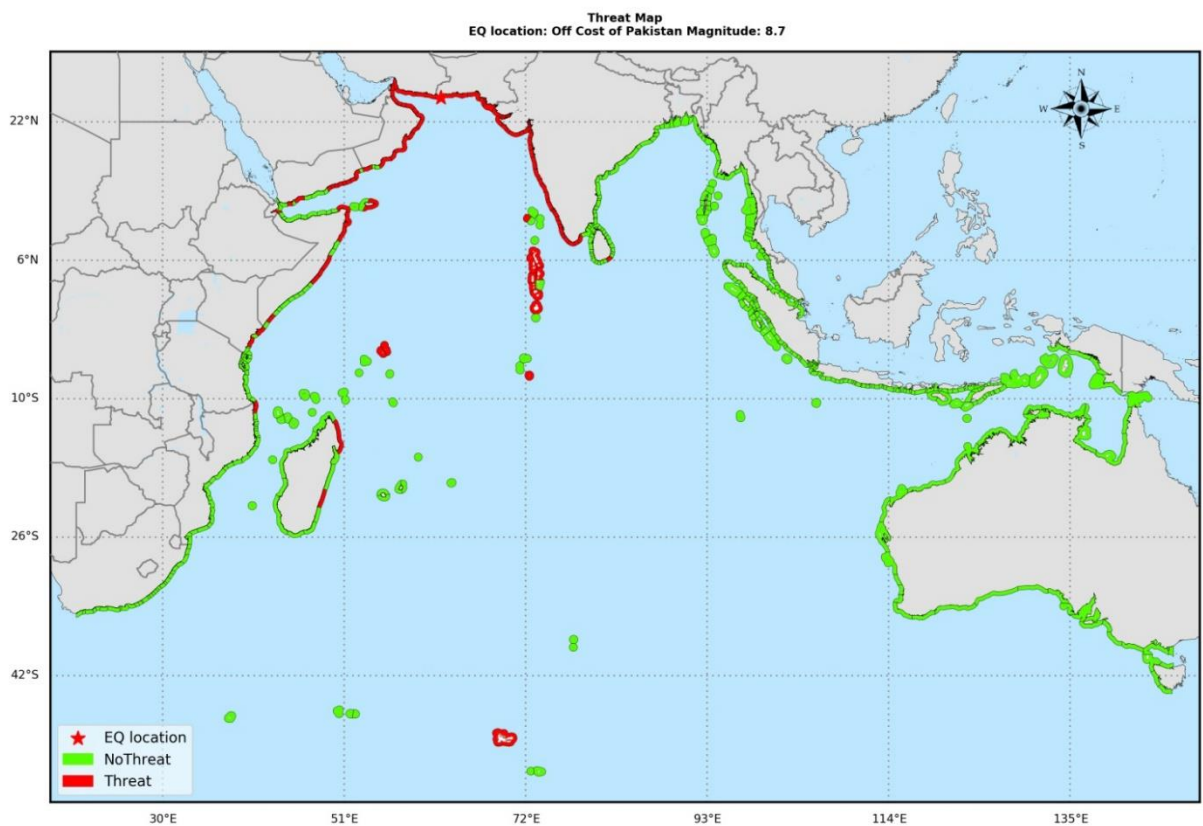


Figure S3-11. Threat Map

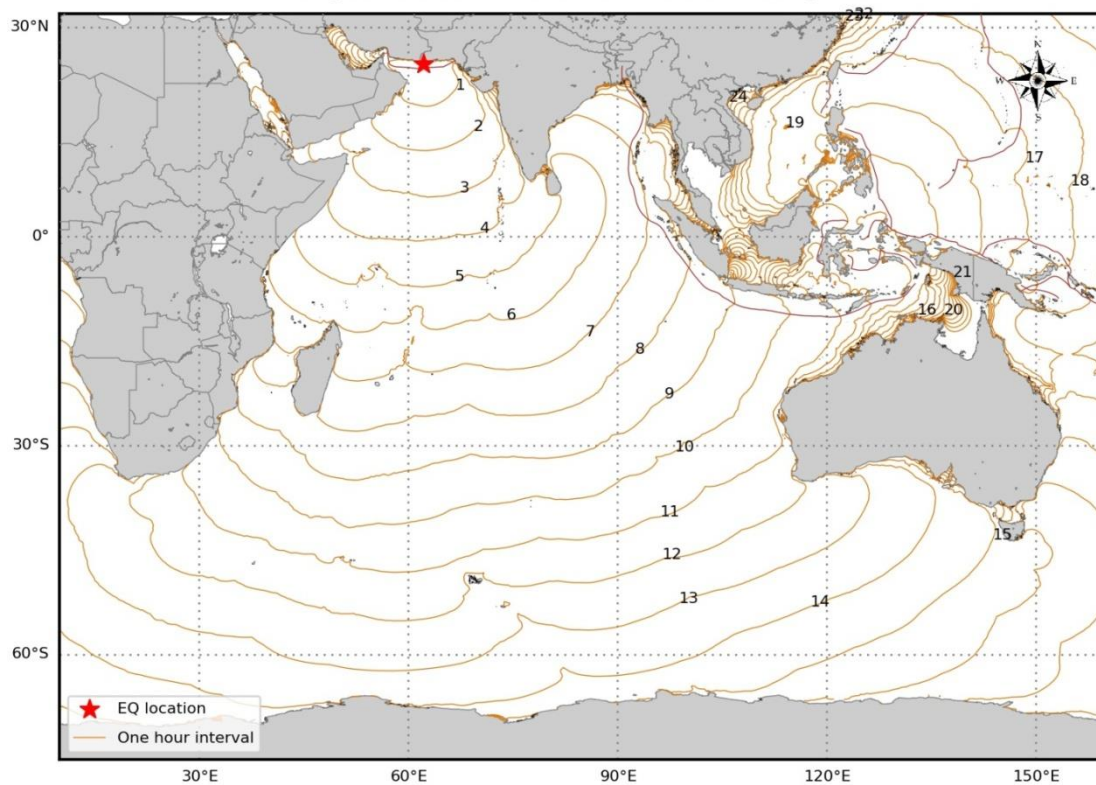


Figure S3-12. Travel Time Map

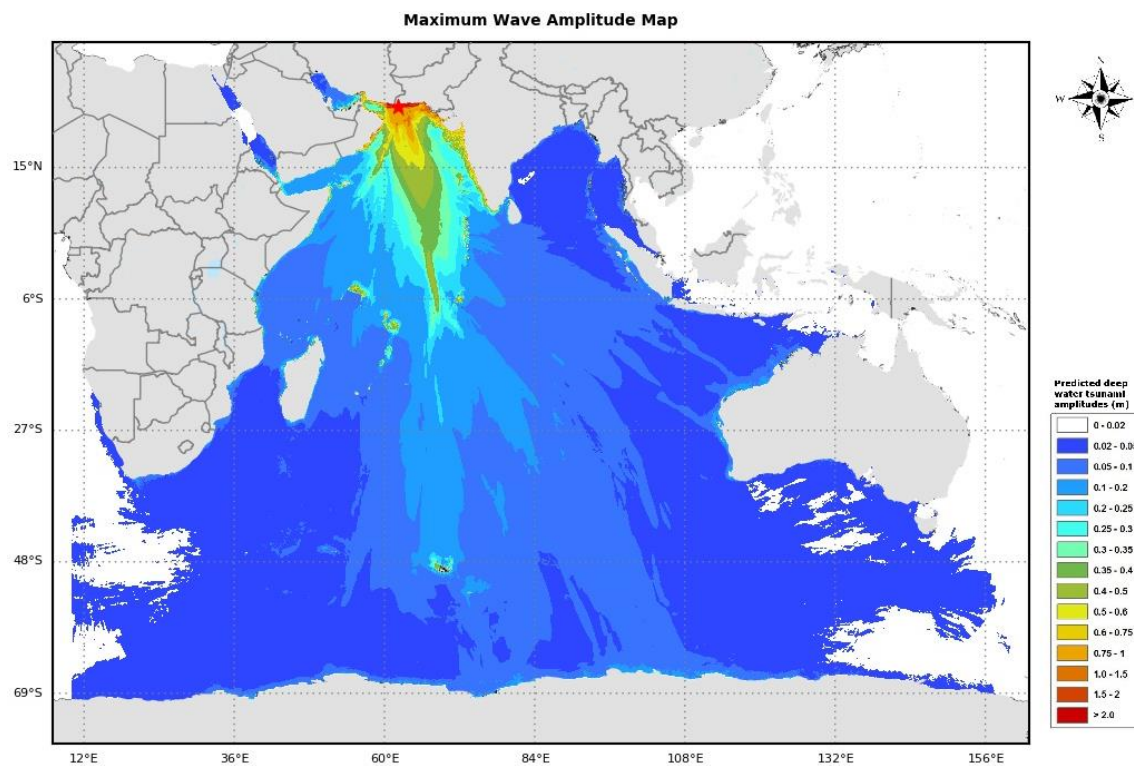


Figure S3-13. Wave Amplitude Map

M9.0

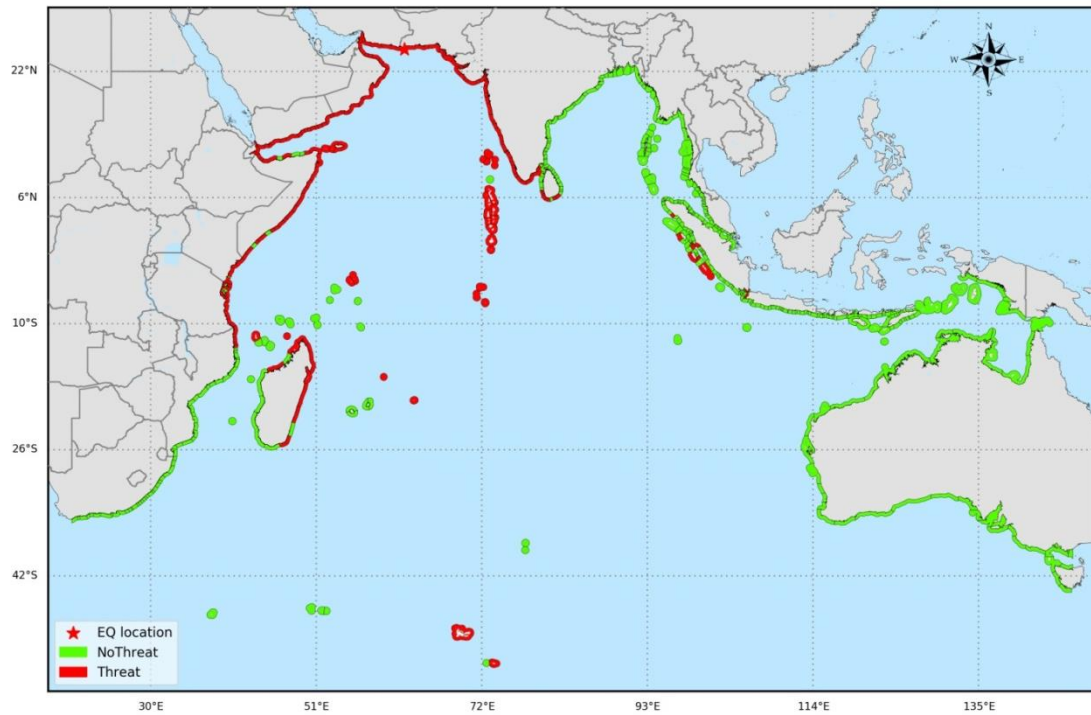


Figure S3-14. Threat Map

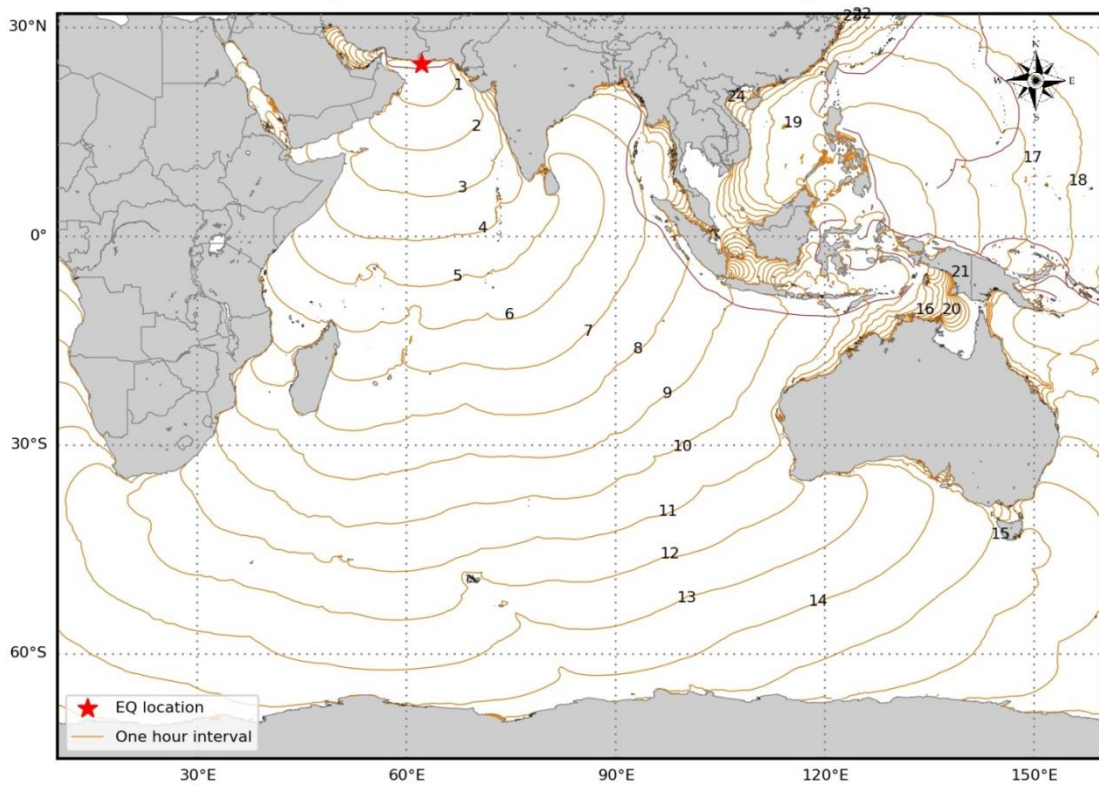


Figure S3-15. Travel time Map

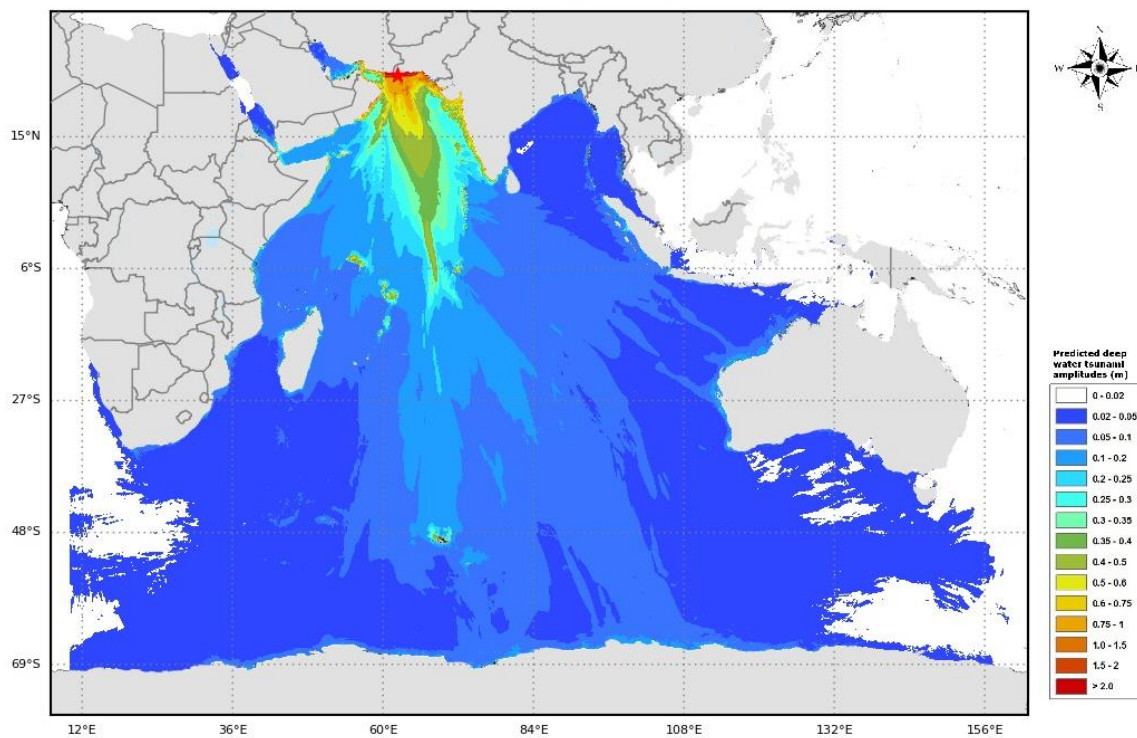


Figure S3-16. Maximum Wave Amplitude Map

4. TSP INDIA BULLETINS

BULLETIN 1

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# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 1 (TYPE-I EARTHQUAKE BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWC)
ISSUED AT 0605 UTC TUESDAY 20 OCTOBER 2020

... 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: 8.5 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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
WEB: www.incois.gov.in

END OF BULLETIN

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 2

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# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 2 (TYPE-II THREAT ASSESSMENT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 0615 UTC Tuesday 20 October 2020

... 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 INDIA has detected an earthquake with the following preliminary information:

Magnitude: 8.7 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600 UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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 1144z 20 Oct 2020 0.8m Threat

FRANCE

ILE KERGUELEN 1904z 20 Oct 2020 0.8m Threat

INDIA

MANDVI 0809z 20 Oct 2020 1.4m Threat
DWARKA 0819z 20 Oct 2020 1.0m Threat
MANGROL 0855z 20 Oct 2020 0.8m Threat
AGATTI 0913z 20 Oct 2020 0.9m Threat
JAIGARH 0956z 20 Oct 2020 0.9m Threat
ALLEPPEY ALAPPUZHA 1009z 20 Oct 2020 0.7m Threat
PIPAVAV 1021z 20 Oct 2020 0.7m Threat
UDUPI 1137z 20 Oct 2020 0.9m Threat

MUMBAI	1139z	20	Oct	2020	0.7m	Threat
MALVAN BAY	1229z	20	Oct	2020	0.9m	Threat
COCHIN	1240z	20	Oct	2020	0.7m	Threat
PANAJI	1245z	20	Oct	2020	0.7m	Threat
VASCO	1246z	20	Oct	2020	0.7m	Threat
KASARAGOD	1253z	20	Oct	2020	0.7m	Threat
VADANAPPALLY	1318z	20	Oct	2020	0.7m	Threat
KANNUR	1330z	20	Oct	2020	0.5m	Threat
KARWAR	1336z	20	Oct	2020	0.9m	Threat
BEYPORE	1343z	20	Oct	2020	0.6m	Threat
JAMNAGAR	1353z	20	Oct	2020	0.8m	Threat
HAZIRA, DIU	1417z	20	Oct	2020	0.9m	Threat
MANGALORE	1511z	20	Oct	2020	0.8m	Threat
TUTICORIN	1601z	20	Oct	2020	0.7m	Threat
MAHUVA	1605z	20	Oct	2020	0.6m	Threat
KHAMBAT	1613z	20	Oct	2020	0.8m	Threat
QUILON	1637z	20	Oct	2020	0.6m	Threat
DAMAN	1719z	20	Oct	2020	0.8m	Threat
BORSI	1720z	20	Oct	2020	0.9m	Threat
TARAPUR	1724z	20	Oct	2020	0.7m	Threat
MAHE	1724z	20	Oct	2020	0.5m	Threat
VAKKAD	1728z	20	Oct	2020	0.5m	Threat
PORBANDAR	1801z	20	Oct	2020	0.9m	Threat
BHARUCH	1808z	20	Oct	2020	0.7m	Threat
HAZIRA	1812z	20	Oct	2020	0.8m	Threat
KOODANKULAM	1844z	20	Oct	2020	0.6m	Threat
TRIVANDRUM	2128z	20	Oct	2020	0.6m	Threat
ALIBAG PORT	2157z	20	Oct	2020	0.7m	Threat
KANYAKUMARI	2200z	20	Oct	2020	0.7m	Threat
IRAN						

PUSHT	0604z	20	Oct	2020	4.9m	Threat
BIR	0606z	20	Oct	2020	1.9m	Threat
MISKI	0750z	20	Oct	2020	1.4m	Threat
KENYA						

MALINDI	1925z	20	Oct	2020	0.9m	Threat
KIWAYU	2245z	20	Oct	2020	0.6m	Threat
MADAGASCAR						

AMBAHY	2155z	20	Oct	2020	0.6m	Threat
VOHEMAR	0459z	21	Oct	2020	0.5m	Threat
MALDIVES						

KULHUDUFFUSHI	0933z	20	Oct	2020	0.9m	Threat
GOIDHOO	0937z	20	Oct	2020	0.9m	Threat
NILANDHOO	1000z	20	Oct	2020	0.6m	Threat
MALE	1022z	20	Oct	2020	1.4m	Threat
THINADHOO	1613z	20	Oct	2020	0.7m	Threat
FERIDHOO	2052z	20	Oct	2020	0.6m	Threat
DHIYAMIGILI	0632z	21	Oct	2020	0.5m	Threat
MOZAMBIQUE						

MERONVI	1905z	20	Oct	2020	0.5m	Threat
MAGANJA	2111z	20	Oct	2020	0.5m	Threat
OMAN						

MUSCAT	0628z	20	Oct	2020	2.4m	Threat
QURAYYAT	0628z	20	Oct	2020	2.4m	Threat
SUR	0632z	20	Oct	2020	2.8m	Threat
BARKA	0642z	20	Oct	2020	1.6m	Threat
AL ASHKHARAH	0651z	20	Oct	2020	2.5m	Threat

AL KHABURAH	0651z	20	Oct	2020	1.1m	Threat
SOHAR	0700z	20	Oct	2020	1.1m	Threat
MASIRAH	0705z	20	Oct	2020	1.0m	Threat
RAS AR RUWAYS	0713z	20	Oct	2020	1.9m	Threat
AD DUQM	0736z	20	Oct	2020	1.5m	Threat
EAST MUSANDAM	0741z	20	Oct	2020	1.6m	Threat
AL JAZER	0820z	20	Oct	2020	0.7m	Threat
HASIK	0834z	20	Oct	2020	0.8m	Threat
SALALAH	0835z	20	Oct	2020	0.9m	Threat
PAKISTAN						

ORMARA	0603z	20	Oct	2020	4.2m	Threat
WINDER	0604z	20	Oct	2020	2.1m	Threat
KARACHI	0709z	20	Oct	2020	1.3m	Threat
SINDH	0727z	20	Oct	2020	1.3m	Threat
SEYCHELLES						

TAKAMAKA	2118z	20	Oct	2020	0.6m	Threat
FREGATE ISLAND	0343z	21	Oct	2020	0.5m	Threat
SOMALIA						

BANDER-BEYLA	0947z	20	Oct	2020	0.6m	Threat
TOOXIN	0953z	20	Oct	2020	1.0m	Threat
ABO	0957z	20	Oct	2020	1.1m	Threat
GALDOGOB	1330z	20	Oct	2020	0.6m	Threat
XARARDHEERE	1353z	20	Oct	2020	0.8m	Threat
CEEL DHEER	2106z	20	Oct	2020	0.7m	Threat
NE BEERNAASI	0326z	21	Oct	2020	0.7m	Threat
SRI LANKA						

KIRINDA	0629z	21	Oct	2020	0.6m	Threat
UNITED ARAB EMIRATES						

KALBA	0717z	20	Oct	2020	1.0m	Threat
UNITED KINGDOM						

DIEGO GARCIA	1615z	20	Oct	2020	0.6m	Threat
YEMEN						

SOCOTRA ISLAND SOUTH	0853z	20	Oct	2020	0.9m	Threat
AL GHAYDAH AIRPORT	0859z	20	Oct	2020	1.1m	Threat
HUSWAYN	0911z	20	Oct	2020	0.8m	Threat
MASILAH WADI	1033z	20	Oct	2020	0.6m	Threat
AL MUKALLA	1136z	20	Oct	2020	0.7m	Threat
KHANFAR	1221z	20	Oct	2020	0.8m	Threat
ALQUMRAH	1238z	20	Oct	2020	0.6m	Threat
HAMI	1625z	20	Oct	2020	0.7m	Threat
EAST TO HAMI	2026z	20	Oct	2020	0.5m	Threat
MAALLAH	2221z	20	Oct	2020	0.9m	Threat
HARRAH	0325z	21	Oct	2020	0.6m	Threat

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

Web: www.incois.gov.inEND OF BULLETIN

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 3

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# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 3 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 0630 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct 2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct 2020	6.07m

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.

AUSTRALIA

HEARD ISLAND AND MCDONALD ISLANDS 1954z 20 Oct 2020 0.7m Threat

COMOROS

CHEZANI 1335z 20 Oct 2020 0.7m Threat

DJIBOUTI

NW ARTA 1127z 20 Oct 2020 1.6m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1131z 20 Oct 2020 0.8m Threat

FRANCE

ILE KERGUELEN 1854z 20 Oct 2020 1.4m Threat

INDIA

MANDVI	0804z	20	Oct	2020	2.7m	Threat
DWARKA	0808z	20	Oct	2020	2.0m	Threat
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat
MANGROL	0822z	20	Oct	2020	1.2m	Threat
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat
AGATTI	0856z	20	Oct	2020	2.0m	Threat
AMINI	0903z	20	Oct	2020	1.2m	Threat
KAVARATTI	0911z	20	Oct	2020	1.0m	Threat
MALVAN BAY	0914z	20	Oct	2020	1.7m	Threat
PANAJI	0922z	20	Oct	2020	1.6m	Threat
VASCO	0924z	20	Oct	2020	1.2m	Threat
JAIGARH	0924z	20	Oct	2020	1.7m	Threat
KARWAR	0933z	20	Oct	2020	1.8m	Threat
ANDROTH	0948z	20	Oct	2020	0.8m	Threat
MANGALORE	0955z	20	Oct	2020	1.5m	Threat
KASARAGOD	0956z	20	Oct	2020	1.4m	Threat
ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat
UDUPI	0957z	20	Oct	2020	1.8m	Threat
MAHE	1000z	20	Oct	2020	1.2m	Threat
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat
KANNUR	1005z	20	Oct	2020	1.1m	Threat
MUMBAI	1006z	20	Oct	2020	1.4m	Threat
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat
TARAPUR	1011z	20	Oct	2020	1.4m	Threat
VAKKAD	1011z	20	Oct	2020	1.2m	Threat
BEYPORE	1013z	20	Oct	2020	1.3m	Threat
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat
COCHIN	1014z	20	Oct	2020	1.3m	Threat
QUILON	1016z	20	Oct	2020	1.1m	Threat
MAHUVA	1020z	20	Oct	2020	1.5m	Threat
KHAMBAT	1025z	20	Oct	2020	1.4m	Threat
TRIVANDRUM	1026z	20	Oct	2020	1.2m	Threat
KANYAKUMARI	1037z	20	Oct	2020	1.4m	Threat
BHARUCH	1050z	20	Oct	2020	1.7m	Threat
BORSI	1059z	20	Oct	2020	1.7m	Threat
HAZIRA	1059z	20	Oct	2020	1.5m	Threat
DAMAN	1103z	20	Oct	2020	1.5m	Threat
KOODANKULAM	1112z	20	Oct	2020	1.2m	Threat
TUTICORIN	1152z	20	Oct	2020	1.3m	Threat
RAMESWARAM	1426z	20	Oct	2020	0.7m	Threat
KOTTTAIPPATTANAM	0408z	21	Oct	2020	0.6m	Threat

INDONESIA

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	20	Oct	2020	0.6m	Threat
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21	Oct	2020	0.5m	Threat
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21	Oct	2020	0.6m	Threat
NIAS	0411z	21	Oct	2020	0.5m	Threat
NIAS-EAST	0412z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21	Oct	2020	0.5m	Threat
BANTEN PANDEGLANG U	0617z	21	Oct	2020	0.5m	Threat

IRAN

PUSHT	0604z	20	Oct	2020	7.1m	Threat
BIR	0632z	20	Oct	2020	3.3m	Threat
MISKI	0747z	20	Oct	2020	1.9m	Threat

KENYA

MALINDI	1433z	20	Oct	2020	1.5m	Threat
KIPINI	1434z	20	Oct	2020	0.8m	Threat
KISIMACHANDE	1455z	20	Oct	2020	0.9m	Threat

KIWAYU	1719z	20	Oct	2020	1.2m	Threat
MVULENI	0653z	21	Oct	2020	0.7m	Threat
MADAGASCAR						

VOHEMAR	1302z	20	Oct	2020	1.3m	Threat
TAMPOLO	1555z	20	Oct	2020	0.8m	Threat
AMBAHY	1556z	20	Oct	2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20	Oct	2020	0.8m	Threat
MANANTENINA	1750z	20	Oct	2020	0.7m	Threat
BALY	2018z	20	Oct	2020	0.5m	Threat
ANOROTSANGANA	2351z	20	Oct	2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20	Oct	2020	0.6m	Threat
MALDIVES						

GOIDHOO	0927z	20	Oct	2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20	Oct	2020	1.9m	Threat
FERIDHOO	0948z	20	Oct	2020	1.2m	Threat
NILANDHOO	0956z	20	Oct	2020	1.4m	Threat
DHIYAMIGILI	1004z	20	Oct	2020	1.1m	Threat
MALE	1010z	20	Oct	2020	2.2m	Threat
THINADHOO	1020z	20	Oct	2020	1.6m	Threat
HITHADHOO	1030z	20	Oct	2020	1.0m	Threat
KOLHUFUSHI	1035z	20	Oct	2020	0.9m	Threat
MAURITIUS						

CARGADOS CARAJOS	1413z	20	Oct	2020	0.9m	Threat
LA FERME	1414z	20	Oct	2020	0.6m	Threat
MOZAMBIQUE						

MAGANJA	1632z	20	Oct	2020	1.1m	Threat
MERONVI	1757z	20	Oct	2020	0.9m	Threat
QUITERAJO	1902z	20	Oct	2020	0.7m	Threat
TAVARI	1942z	20	Oct	2020	0.9m	Threat
PEMBA	2333z	20	Oct	2020	0.5m	Threat
OMAN						

QURAYYAT	0627z	20	Oct	2020	3.6m	Threat
MUSCAT	0628z	20	Oct	2020	3.8m	Threat
SUR	0631z	20	Oct	2020	3.4m	Threat
BARKA	0645z	20	Oct	2020	2.4m	Threat
AL ASHKHARAH	0649z	20	Oct	2020	3.2m	Threat
AL KHABURAH	0654z	20	Oct	2020	1.4m	Threat
SOHAR	0702z	20	Oct	2020	2.0m	Threat
MASIRAH	0702z	20	Oct	2020	1.7m	Threat
RAS AR RUWAYS	0710z	20	Oct	2020	3.1m	Threat
AD DUQM	0730z	20	Oct	2020	2.6m	Threat
EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat
HASIK	0806z	20	Oct	2020	1.5m	Threat
AL JAZER	0813z	20	Oct	2020	1.2m	Threat
MIRBAT	0818z	20	Oct	2020	0.5m	Threat
SALALAH	0828z	20	Oct	2020	1.7m	Threat
TAQAH	1754z	20	Oct	2020	0.6m	Threat
PAKISTAN						

ORMARA	0603z	20	Oct	2020	7.2m	Threat
WINDER	0604z	20	Oct	2020	4.8m	Threat
KARACHI	0704z	20	Oct	2020	3.2m	Threat
SINDH	0724z	20	Oct	2020	2.6m	Threat
SEYCHELLES						

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat

TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat
SOMALIA						

TOOXIN	0927z	20	Oct	2020	1.5m	Threat
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat
QANDALA	0947z	20	Oct	2020	0.6m	Threat
EYL	0950z	20	Oct	2020	0.8m	Threat
ABO	0952z	20	Oct	2020	1.9m	Threat
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat
MAREEG	1050z	20	Oct	2020	1.0m	Threat
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat
SAYLAC	1118z	20	Oct	2020	0.6m	Threat
BAKI	1124z	20	Oct	2020	0.6m	Threat
LOYADO	1124z	20	Oct	2020	0.8m	Threat
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat
JARIIBAN	1605z	20	Oct	2020	0.8m	Threat
MAYDH	1923z	20	Oct	2020	0.7m	Threat
BARAAWE	1942z	20	Oct	2020	0.9m	Threat
JILIB	2005z	20	Oct	2020	0.5m	Threat
ITALA	2024z	20	Oct	2020	0.8m	Threat
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat
SRI LANKA						

COLOMBO	1109z	20	Oct	2020	0.6m	Threat
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat
MATARA	1142z	20	Oct	2020	0.7m	Threat
GALLE	1156z	20	Oct	2020	0.8m	Threat
MORATUWA	1747z	20	Oct	2020	0.7m	Threat
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat
KIRINDA	1753z	20	Oct	2020	0.8m	Threat
BERUWALA	1839z	20	Oct	2020	0.5m	Threat
TANZANIA						

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat
RUVU	1646z	20	Oct	2020	0.7m	Threat
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MSASANI	1840z	20	Oct	2020	0.8m	Threat
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat
VUMBA	2205z	20	Oct	2020	0.6m	Threat
KUTANI	2314z	20	Oct	2020	0.7m	Threat
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UNITED KINGDOM						

MORESBY ISLAND	1100z	20	Oct	2020	0.8m	Threat
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DIEGO GARCIA	1142z	20	Oct	2020	1.6m	Threat
YEMEN						

DAMQAWT	0835z	20	Oct	2020	0.9m	Threat
SOCOTRA ISLAND SOUTH	0847z	20	Oct	2020	1.7m	Threat
AL GHAYDAH AIRPORT	0848z	20	Oct	2020	1.9m	Threat
SOCOTRA ISLAND NORTH	0850z	20	Oct	2020	1.1m	Threat
HUSWAYN	0903z	20	Oct	2020	1.4m	Threat

ALQUMRAH	0912z	20	Oct	2020	1.1m	Threat
SOCOTRA ISLAND WEST	0913z	20	Oct	2020	0.6m	Threat
MASILAH WADI	0920z	20	Oct	2020	1.1m	Threat
HARRAH	0923z	20	Oct	2020	1.3m	Threat
EAST TO HAMI	0929z	20	Oct	2020	1.2m	Threat
HAMI	0936z	20	Oct	2020	1.1m	Threat
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AL MUALLA	1152z	20	Oct	2020	0.8m	Threat
AHWAR	1912z	20	Oct	2020	0.6m	Threat

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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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

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 4

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# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 4 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 0700 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct 2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct 2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct 2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct 2020	1.84m

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.

AUSTRALIA

HEARD ISLAND AND MCDONALD ISLANDS 1954z 20 Oct 2020 0.7m Threat

COMOROS

CHEZANI 1335z 20 Oct 2020 0.7m Threat

DJIBOUTI

NW ARTA 1127z 20 Oct 2020 1.6m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1131z 20 Oct 2020 0.8m Threat

FRANCE

ILE KERGUELEN 1854z 20 Oct 2020 1.4m Threat

INDIA

MANDVI	0804z	20	Oct	2020	2.7m	Threat
DWARKA	0808z	20	Oct	2020	2.0m	Threat
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat
MANGROL	0822z	20	Oct	2020	1.2m	Threat
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat
AGATTI	0856z	20	Oct	2020	2.0m	Threat
AMINI	0903z	20	Oct	2020	1.2m	Threat
KAVARATTI	0911z	20	Oct	2020	1.0m	Threat
MALVAN BAY	0914z	20	Oct	2020	1.7m	Threat
PANAJI	0922z	20	Oct	2020	1.6m	Threat
VASCO	0924z	20	Oct	2020	1.2m	Threat
JAIGARH	0924z	20	Oct	2020	1.7m	Threat
KARWAR	0933z	20	Oct	2020	1.8m	Threat
ANDROTH	0948z	20	Oct	2020	0.8m	Threat
MANGALORE	0955z	20	Oct	2020	1.5m	Threat
KASARAGOD	0956z	20	Oct	2020	1.4m	Threat
ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat
UDUPI	0957z	20	Oct	2020	1.8m	Threat
MAHE	1000z	20	Oct	2020	1.2m	Threat
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat
KANNUR	1005z	20	Oct	2020	1.1m	Threat
MUMBAI	1006z	20	Oct	2020	1.4m	Threat
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat
TARAPUR	1011z	20	Oct	2020	1.4m	Threat
VAKKAD	1011z	20	Oct	2020	1.2m	Threat
BEYPORE	1013z	20	Oct	2020	1.3m	Threat
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat
COCHIN	1014z	20	Oct	2020	1.3m	Threat
QUILON	1016z	20	Oct	2020	1.1m	Threat
MAHUVA	1020z	20	Oct	2020	1.5m	Threat
KHAMBAT	1025z	20	Oct	2020	1.4m	Threat
TRIVANDRUM	1026z	20	Oct	2020	1.2m	Threat
KANYAKUMARI	1037z	20	Oct	2020	1.4m	Threat
BHARUCH	1050z	20	Oct	2020	1.7m	Threat
BORSI	1059z	20	Oct	2020	1.7m	Threat
HAZIRA	1059z	20	Oct	2020	1.5m	Threat
DAMAN	1103z	20	Oct	2020	1.5m	Threat
KOODANKULAM	1112z	20	Oct	2020	1.2m	Threat
TUTICORIN	1152z	20	Oct	2020	1.3m	Threat
RAMESWARAM	1426z	20	Oct	2020	0.7m	Threat
KOTTAIPPATTANAM	0408z	21	Oct	2020	0.6m	Threat

INDONESIA

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	20	Oct	2020	0.6m	Threat
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21	Oct	2020	0.5m	Threat
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21	Oct	2020	0.6m	Threat
NIAS	0411z	21	Oct	2020	0.5m	Threat
NIAS-EAST	0412z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21	Oct	2020	0.5m	Threat
BANTEN PANDEGLANG U	0617z	21	Oct	2020	0.5m	Threat

IRAN

PUSHT	0604z	20	Oct	2020	7.1m	Threat
BIR	0632z	20	Oct	2020	3.3m	Threat
MISKI	0747z	20	Oct	2020	1.9m	Threat

KENYA

MALINDI	1433z	20	Oct	2020	1.5m	Threat
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KIPINI	1434z	20	Oct	2020	0.8m	Threat
KISIMACHANDE	1455z	20	Oct	2020	0.9m	Threat
KIWAYU	1719z	20	Oct	2020	1.2m	Threat
MVULENI	0653z	21	Oct	2020	0.7m	Threat

MADAGASCAR

VOHEMAR	1302z	20	Oct	2020	1.3m	Threat
TAMPOLO	1555z	20	Oct	2020	0.8m	Threat
AMBAHY	1556z	20	Oct	2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20	Oct	2020	0.8m	Threat
MANANTENINA	1750z	20	Oct	2020	0.7m	Threat
BALY	2018z	20	Oct	2020	0.5m	Threat
ANOROTSANGANA	2351z	20	Oct	2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20	Oct	2020	0.6m	Threat

MALDIVES

GOIDHOO	0927z	20	Oct	2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20	Oct	2020	1.9m	Threat
FERIDHOO	0948z	20	Oct	2020	1.2m	Threat
NILANDHOO	0956z	20	Oct	2020	1.4m	Threat
DHIYAMIGILI	1004z	20	Oct	2020	1.1m	Threat
MALE	1010z	20	Oct	2020	2.2m	Threat
THINADHOO	1020z	20	Oct	2020	1.6m	Threat
HITHADHOO	1030z	20	Oct	2020	1.0m	Threat
KOLHUFUSHI	1035z	20	Oct	2020	0.9m	Threat

MAURITIUS

CARGADOS CARAJOS	1413z	20	Oct	2020	0.9m	Threat
LA FERME	1414z	20	Oct	2020	0.6m	Threat

MOZAMBIQUE

MAGANJA	1632z	20	Oct	2020	1.1m	Threat
MERONVI	1757z	20	Oct	2020	0.9m	Threat
QUITERAJO	1902z	20	Oct	2020	0.7m	Threat
TAVARI	1942z	20	Oct	2020	0.9m	Threat
PEMBA	2333z	20	Oct	2020	0.5m	Threat

OMAN

QURAYYAT	0627z	20	Oct	2020	3.6m	Threat
MUSCAT	0628z	20	Oct	2020	3.8m	Threat
SUR	0631z	20	Oct	2020	3.4m	Threat
BARKA	0645z	20	Oct	2020	2.4m	Threat
AL ASHKHARAH	0649z	20	Oct	2020	3.2m	Threat
AL KHABURAH	0654z	20	Oct	2020	1.4m	Threat
SOHAR	0702z	20	Oct	2020	2.0m	Threat
MASIRAH	0702z	20	Oct	2020	1.7m	Threat
RAS AR RUWAYS	0710z	20	Oct	2020	3.1m	Threat
AD DUQM	0730z	20	Oct	2020	2.6m	Threat
EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat
HASIK	0806z	20	Oct	2020	1.5m	Threat
AL JAZER	0813z	20	Oct	2020	1.2m	Threat
MIRBAT	0818z	20	Oct	2020	0.5m	Threat
SALALAH	0828z	20	Oct	2020	1.7m	Threat
TAQAH	1754z	20	Oct	2020	0.6m	Threat

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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

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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INDIA

MANDVI	0804z	20	Oct	2020	2.7m	Threat
DWARKA	0808z	20	Oct	2020	2.0m	Threat
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat
MANGROL	0822z	20	Oct	2020	1.2m	Threat
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat
AGATTI	0856z	20	Oct	2020	2.0m	Threat
AMINI	0903z	20	Oct	2020	1.2m	Threat
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ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat
UDUPI	0957z	20	Oct	2020	1.8m	Threat
MAHE	1000z	20	Oct	2020	1.2m	Threat
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat
KANNUR	1005z	20	Oct	2020	1.1m	Threat
MUMBAI	1006z	20	Oct	2020	1.4m	Threat
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat
TARAPUR	1011z	20	Oct	2020	1.4m	Threat
VAKKAD	1011z	20	Oct	2020	1.2m	Threat
BEYPORE	1013z	20	Oct	2020	1.3m	Threat
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat
COCHIN	1014z	20	Oct	2020	1.3m	Threat
QUILON	1016z	20	Oct	2020	1.1m	Threat
MAHUVA	1020z	20	Oct	2020	1.5m	Threat
KHAMBAT	1025z	20	Oct	2020	1.4m	Threat
TRIVANDRUM	1026z	20	Oct	2020	1.2m	Threat
KANYAKUMARI	1037z	20	Oct	2020	1.4m	Threat
BHARUCH	1050z	20	Oct	2020	1.7m	Threat
BORSI	1059z	20	Oct	2020	1.7m	Threat
HAZIRA	1059z	20	Oct	2020	1.5m	Threat
DAMAN	1103z	20	Oct	2020	1.5m	Threat
KOODANKULAM	1112z	20	Oct	2020	1.2m	Threat
TUTICORIN	1152z	20	Oct	2020	1.3m	Threat
RAMESWARAM	1426z	20	Oct	2020	0.7m	Threat
KOTTAIPPATTANAM	0408z	21	Oct	2020	0.6m	Threat

INDONESIA

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	20	Oct	2020	0.6m	Threat
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21	Oct	2020	0.5m	Threat
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21	Oct	2020	0.6m	Threat
NIAS	0411z	21	Oct	2020	0.5m	Threat
NIAS-EAST	0412z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21	Oct	2020	0.5m	Threat
BANTEN PANDEGLANG U	0617z	21	Oct	2020	0.5m	Threat

IRAN

PUSHT	0604z	20	Oct	2020	7.1m	Threat
BIR	0632z	20	Oct	2020	3.3m	Threat
MISKI	0747z	20	Oct	2020	1.9m	Threat

KENYA

MALINDI	1433z	20	Oct	2020	1.5m	Threat
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KIPINI	1434z	20	Oct	2020	0.8m	Threat
KISIMACHANDE	1455z	20	Oct	2020	0.9m	Threat
KIWAYU	1719z	20	Oct	2020	1.2m	Threat
MVULENI	0653z	21	Oct	2020	0.7m	Threat

MADAGASCAR

VOHEMAR	1302z	20	Oct	2020	1.3m	Threat
TAMPOLO	1555z	20	Oct	2020	0.8m	Threat
AMBAHY	1556z	20	Oct	2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20	Oct	2020	0.8m	Threat
MANANTENINA	1750z	20	Oct	2020	0.7m	Threat
BALY	2018z	20	Oct	2020	0.5m	Threat
ANOROTSANGANA	2351z	20	Oct	2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20	Oct	2020	0.6m	Threat

MALDIVES

GOIDHOO	0927z	20	Oct	2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20	Oct	2020	1.9m	Threat
FERIDHOO	0948z	20	Oct	2020	1.2m	Threat
NILANDHOO	0956z	20	Oct	2020	1.4m	Threat
DHIYAMIGILI	1004z	20	Oct	2020	1.1m	Threat
MALE	1010z	20	Oct	2020	2.2m	Threat
THINADHOO	1020z	20	Oct	2020	1.6m	Threat
HITHADHOO	1030z	20	Oct	2020	1.0m	Threat
KOLHUFUSHI	1035z	20	Oct	2020	0.9m	Threat

MAURITIUS

CARGADOS CARAJOS	1413z	20	Oct	2020	0.9m	Threat
LA FERME	1414z	20	Oct	2020	0.6m	Threat

MOZAMBIQUE

MAGANJA	1632z	20	Oct	2020	1.1m	Threat
MERONVI	1757z	20	Oct	2020	0.9m	Threat
QUITERAJO	1902z	20	Oct	2020	0.7m	Threat
TAVARI	1942z	20	Oct	2020	0.9m	Threat
PEMBA	2333z	20	Oct	2020	0.5m	Threat

OMAN

QURAYYAT	0627z	20	Oct	2020	3.6m	Threat
MUSCAT	0628z	20	Oct	2020	3.8m	Threat
SUR	0631z	20	Oct	2020	3.4m	Threat
BARKA	0645z	20	Oct	2020	2.4m	Threat
AL ASHKHARAH	0649z	20	Oct	2020	3.2m	Threat
AL KHABURAH	0654z	20	Oct	2020	1.4m	Threat
SOHAR	0702z	20	Oct	2020	2.0m	Threat
MASIRAH	0702z	20	Oct	2020	1.7m	Threat
RAS AR RUWAYS	0710z	20	Oct	2020	3.1m	Threat
AD DUQM	0730z	20	Oct	2020	2.6m	Threat
EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat
HASIK	0806z	20	Oct	2020	1.5m	Threat
AL JAZER	0813z	20	Oct	2020	1.2m	Threat
MIRBAT	0818z	20	Oct	2020	0.5m	Threat
SALALAH	0828z	20	Oct	2020	1.7m	Threat
TAQAH	1754z	20	Oct	2020	0.6m	Threat

PAKISTAN

ORMARA	0603z	20	Oct	2020	7.2m	Threat
WINDER	0604z	20	Oct	2020	4.8m	Threat
KARACHI	0704z	20	Oct	2020	3.2m	Threat
SINDH	0724z	20	Oct	2020	2.6m	Threat

SEYCHELLES

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat
SOMALIA						

TOOXIN	0927z	20	Oct	2020	1.5m	Threat
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat
QANDALA	0947z	20	Oct	2020	0.6m	Threat
EYL	0950z	20	Oct	2020	0.8m	Threat
ABO	0952z	20	Oct	2020	1.9m	Threat
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat
MAREEG	1050z	20	Oct	2020	1.0m	Threat
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat
SAYLAC	1118z	20	Oct	2020	0.6m	Threat
BAKI	1124z	20	Oct	2020	0.6m	Threat
LOYADO	1124z	20	Oct	2020	0.8m	Threat
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat
JARIBAN	1605z	20	Oct	2020	0.8m	Threat
MAYDH	1923z	20	Oct	2020	0.7m	Threat
BARAAWE	1942z	20	Oct	2020	0.9m	Threat
JILIB	2005z	20	Oct	2020	0.5m	Threat
ITALA	2024z	20	Oct	2020	0.8m	Threat
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat
SRI LANKA						

COLOMBO	1109z	20	Oct	2020	0.6m	Threat
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat
MATARA	1142z	20	Oct	2020	0.7m	Threat
GALLE	1156z	20	Oct	2020	0.8m	Threat
MORATUWA	1747z	20	Oct	2020	0.7m	Threat
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat
KIRINDA	1753z	20	Oct	2020	0.8m	Threat
BERUWALA	1839z	20	Oct	2020	0.5m	Threat
TANZANIA						

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat
RUVU	1646z	20	Oct	2020	0.7m	Threat
JIMBO	1649z	20	Oct	2020	0.8m	Threat
MADANGWA	1829z	20	Oct	2020	0.6m	Threat
MSASANI	1840z	20	Oct	2020	0.8m	Threat
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat
VUMBA	2205z	20	Oct	2020	0.6m	Threat
KUTANI	2314z	20	Oct	2020	0.7m	Threat
VUMBI	0441z	21	Oct	2020	0.5m	Threat
UNITED ARAB EMIRATES						

KALBA	0717z	20	Oct	2020	1.7m	Threat
UNITED KINGDOM						

MORESBY ISLAND	1100z	20	Oct	2020	0.8m	Threat
NW EGMONT ISLAND	1116z	20	Oct	2020	0.7m	Threat
DIEGO GARCIA	1142z	20	Oct	2020	1.6m	Threat
YEMEN						

DAMQAWT	0835z	20	Oct	2020	0.9m	Threat
SOCOTRA ISLAND SOUTH	0847z	20	Oct	2020	1.7m	Threat
AL GHAYDAH AIRPORT	0848z	20	Oct	2020	1.9m	Threat

SOCOTRA ISLAND NORTH	0850z	20 Oct 2020	1.1m	Threat
HUSWAYN	0903z	20 Oct 2020	1.4m	Threat
ALQUMRAH	0912z	20 Oct 2020	1.1m	Threat
SOCOTRA ISLAND WEST	0913z	20 Oct 2020	0.6m	Threat
MASILAH WADI	0920z	20 Oct 2020	1.1m	Threat
HARRAH	0923z	20 Oct 2020	1.3m	Threat
EAST TO HAMI	0929z	20 Oct 2020	1.2m	Threat
HAMI	0936z	20 Oct 2020	1.1m	Threat
AL MUKALLA	0954z	20 Oct 2020	1.2m	Threat
RUDUM	1002z	20 Oct 2020	0.8m	Threat
KHANFAR	1044z	20 Oct 2020	1.3m	Threat
ADEN	1054z	20 Oct 2020	0.8m	Threat
MAALLAH	1103z	20 Oct 2020	1.7m	Threat
QAWAH	1120z	20 Oct 2020	0.7m	Threat
BROM MAYFA	1144z	20 Oct 2020	0.8m	Threat
AL MUALLA	1152z	20 Oct 2020	0.8m	Threat
AHWAR	1912z	20 Oct 2020	0.6m	Threat

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

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 6

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#####  
#  
# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
#  
#####
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TSUNAMI BULLETIN NUMBER 6 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 0900 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct 2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct 2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct 2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct 2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct 2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct 2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct 2020	0.85m

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.

AUSTRALIA

HEARD ISLAND AND MCDONALD ISLANDS 1954z 20 Oct 2020 0.7m Threat

COMOROS

CHEZANI 1335z 20 Oct 2020 0.7m Threat

DJIBOUTI

NW ARTA 1127z 20 Oct 2020 1.6m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1131z 20 Oct 2020 0.8m Threat

FRANCE

ILE KERGUELEN	1854z	20	Oct	2020	1.4m	Threat
INDIA						

MANDVI	0804z	20	Oct	2020	2.7m	Threat
DWARKA	0808z	20	Oct	2020	2.0m	Threat
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat
MANGROL	0822z	20	Oct	2020	1.2m	Threat
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat
AGATTI	0856z	20	Oct	2020	2.0m	Threat
AMINI	0903z	20	Oct	2020	1.2m	Threat
KAVARATTI	0911z	20	Oct	2020	1.0m	Threat
MALVAN BAY	0914z	20	Oct	2020	1.7m	Threat
PANAJI	0922z	20	Oct	2020	1.6m	Threat
VASCO	0924z	20	Oct	2020	1.2m	Threat
JAIGARH	0924z	20	Oct	2020	1.7m	Threat
KARWAR	0933z	20	Oct	2020	1.8m	Threat
ANDROTH	0948z	20	Oct	2020	0.8m	Threat
MANGALORE	0955z	20	Oct	2020	1.5m	Threat
KASARAGOD	0956z	20	Oct	2020	1.4m	Threat
ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat
UDUPI	0957z	20	Oct	2020	1.8m	Threat
MAHE	1000z	20	Oct	2020	1.2m	Threat
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat
KANNUR	1005z	20	Oct	2020	1.1m	Threat
MUMBAI	1006z	20	Oct	2020	1.4m	Threat
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat
TARAPUR	1011z	20	Oct	2020	1.4m	Threat
VAKKAD	1011z	20	Oct	2020	1.2m	Threat
BEYPORE	1013z	20	Oct	2020	1.3m	Threat
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat
COCHIN	1014z	20	Oct	2020	1.3m	Threat
QUILON	1016z	20	Oct	2020	1.1m	Threat
MAHUVA	1020z	20	Oct	2020	1.5m	Threat
KHAMBAT	1025z	20	Oct	2020	1.4m	Threat
TRIVANDRUM	1026z	20	Oct	2020	1.2m	Threat
KANYAKUMARI	1037z	20	Oct	2020	1.4m	Threat
BHARUCH	1050z	20	Oct	2020	1.7m	Threat
BORSI	1059z	20	Oct	2020	1.7m	Threat
HAZIRA	1059z	20	Oct	2020	1.5m	Threat
DAMAN	1103z	20	Oct	2020	1.5m	Threat
KOODANKULAM	1112z	20	Oct	2020	1.2m	Threat
TUTICORIN	1152z	20	Oct	2020	1.3m	Threat
RAMESWARAM	1426z	20	Oct	2020	0.7m	Threat
KOTTTAIPPATTANAM	0408z	21	Oct	2020	0.6m	Threat
INDONESIA						

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat
SUMBAR KEPULAUAN-MENTAWAI KEP. PAGAI	2046z	20	Oct	2020	0.6m	Threat
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat
SUMBAR KEPULAUAN-MENTAWAI P. SIBERUT	0130z	21	Oct	2020	0.5m	Threat
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21	Oct	2020	0.6m	Threat
NIAS	0411z	21	Oct	2020	0.5m	Threat
NIAS-EAST	0412z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21	Oct	2020	0.5m	Threat
BANTEN PANDEGLANG U	0617z	21	Oct	2020	0.5m	Threat
IRAN						

PUSHT	0604z	20	Oct	2020	7.1m	Threat
BIR	0632z	20	Oct	2020	3.3m	Threat
MISKI	0747z	20	Oct	2020	1.9m	Threat
KENYA						

MALINDI 1433z 20 Oct 2020 1.5m Threat
KIPINI 1434z 20 Oct 2020 0.8m Threat
KISIMACHANDE 1455z 20 Oct 2020 0.9m Threat
KIWAYU 1719z 20 Oct 2020 1.2m Threat
MVULENI 0653z 21 Oct 2020 0.7m Threat

MADAGASCAR

VOHEMAR 1302z 20 Oct 2020 1.3m Threat
TAMPOLO 1555z 20 Oct 2020 0.8m Threat
AMBAHY 1556z 20 Oct 2020 1.0m Threat
TOAMASINA AIRPORT 1645z 20 Oct 2020 0.8m Threat
MANANTENINA 1750z 20 Oct 2020 0.7m Threat
BALY 2018z 20 Oct 2020 0.5m Threat
ANOROTSANGANA 2351z 20 Oct 2020 0.7m Threat
GLORIOSO ISLANDS 2357z 20 Oct 2020 0.6m Threat

MALDIVES

GOIDHOO 0927z 20 Oct 2020 1.7m Threat
KULHUDUFFUSHI 0929z 20 Oct 2020 1.9m Threat
FERIDHOO 0948z 20 Oct 2020 1.2m Threat
NILANDHOO 0956z 20 Oct 2020 1.4m Threat
DHIYAMIGILI 1004z 20 Oct 2020 1.1m Threat
MALE 1010z 20 Oct 2020 2.2m Threat
THINADHOO 1020z 20 Oct 2020 1.6m Threat
HITHADHOO 1030z 20 Oct 2020 1.0m Threat
KOLHUFUSHI 1035z 20 Oct 2020 0.9m Threat

MAURITIUS

CARGADOS CARAJOS 1413z 20 Oct 2020 0.9m Threat
LA FERME 1414z 20 Oct 2020 0.6m Threat

MOZAMBIQUE

MAGANJA 1632z 20 Oct 2020 1.1m Threat
MERONVI 1757z 20 Oct 2020 0.9m Threat
QUITERAJO 1902z 20 Oct 2020 0.7m Threat
TAVARI 1942z 20 Oct 2020 0.9m Threat
PEMBA 2333z 20 Oct 2020 0.5m Threat

OMAN

QURAYYAT 0627z 20 Oct 2020 3.6m Threat
MUSCAT 0628z 20 Oct 2020 3.8m Threat
SUR 0631z 20 Oct 2020 3.4m Threat
BARKA 0645z 20 Oct 2020 2.4m Threat
AL ASHKHARAH 0649z 20 Oct 2020 3.2m Threat
AL KHABURAH 0654z 20 Oct 2020 1.4m Threat
SOHAR 0702z 20 Oct 2020 2.0m Threat
MASIRAH 0702z 20 Oct 2020 1.7m Threat
RAS AR RUWAYS 0710z 20 Oct 2020 3.1m Threat
AD DUQM 0730z 20 Oct 2020 2.6m Threat
EAST MUSANDAM 0742z 20 Oct 2020 2.7m Threat
HASIK 0806z 20 Oct 2020 1.5m Threat
AL JAZER 0813z 20 Oct 2020 1.2m Threat
MIRBAT 0818z 20 Oct 2020 0.5m Threat
SALALAH 0828z 20 Oct 2020 1.7m Threat
TAQAH 1754z 20 Oct 2020 0.6m Threat

PAKISTAN

ORMARA 0603z 20 Oct 2020 7.2m Threat
WINDER 0604z 20 Oct 2020 4.8m Threat
KARACHI 0704z 20 Oct 2020 3.2m Threat
SINDH 0724z 20 Oct 2020 2.6m Threat

SEYCHELLES

 FREGATE ISLAND 1050z 20 Oct 2020 1.2m Threat
 TAKAMAKA 1146z 20 Oct 2020 1.1m Threat

SOMALIA

 TOOXIN 0927z 20 Oct 2020 1.5m Threat
 BANDER-BEYLA 0935z 20 Oct 2020 1.2m Threat
 QANDALA 0947z 20 Oct 2020 0.6m Threat
 EYL 0950z 20 Oct 2020 0.8m Threat
 ABO 0952z 20 Oct 2020 1.9m Threat
 GALDOGOB 1005z 20 Oct 2020 1.1m Threat
 XARARDHEERE 1031z 20 Oct 2020 1.2m Threat
 CEEL DHEER 1045z 20 Oct 2020 1.3m Threat
 MAREEG 1050z 20 Oct 2020 1.0m Threat
 MUQDISHO 1101z 20 Oct 2020 0.7m Threat
 SAYLAC 1118z 20 Oct 2020 0.6m Threat
 BAKI 1124z 20 Oct 2020 0.6m Threat
 LOYADO 1124z 20 Oct 2020 0.8m Threat
 NE BEERNAASI 1514z 20 Oct 2020 1.2m Threat
 JARIIBAN 1605z 20 Oct 2020 0.8m Threat
 MAYDH 1923z 20 Oct 2020 0.7m Threat
 BARAAWE 1942z 20 Oct 2020 0.9m Threat
 JILIB 2005z 20 Oct 2020 0.5m Threat
 ITALA 2024z 20 Oct 2020 0.8m Threat
 UARSCIECH 2025z 20 Oct 2020 0.6m Threat
 KAAMBOONI 0031z 21 Oct 2020 0.6m Threat

SRI LANKA

 COLOMBO 1109z 20 Oct 2020 0.6m Threat
 AMBALANGODA 1118z 20 Oct 2020 0.7m Threat
 MATARA 1142z 20 Oct 2020 0.7m Threat
 GALLE 1156z 20 Oct 2020 0.8m Threat
 MORATUWA 1747z 20 Oct 2020 0.7m Threat
 HAMBANTOTA 1748z 20 Oct 2020 0.7m Threat
 KIRINDA 1753z 20 Oct 2020 0.8m Threat
 BERUWALA 1839z 20 Oct 2020 0.5m Threat

TANZANIA

 BAGAMOYO 1508z 20 Oct 2020 0.8m Threat
 RUVU 1646z 20 Oct 2020 0.7m Threat
 JIMBO 1649z 20 Oct 2020 0.8m Threat
 MADANGWA 1829z 20 Oct 2020 0.6m Threat
 MSASANI 1840z 20 Oct 2020 0.8m Threat
 SONGO SONGO ISLAND 2101z 20 Oct 2020 0.6m Threat
 ZANZIBAR 2135z 20 Oct 2020 0.8m Threat
 WEST TO KONDE 2147z 20 Oct 2020 0.6m Threat
 VUMBA 2205z 20 Oct 2020 0.6m Threat
 KUTANI 2314z 20 Oct 2020 0.7m Threat
 VUMBI 0441z 21 Oct 2020 0.5m Threat

UNITED ARAB EMIRATES

 KALBA 0717z 20 Oct 2020 1.7m Threat

UNITED KINGDOM

 MORESBY ISLAND 1100z 20 Oct 2020 0.8m Threat
 NW EGMONT ISLAND 1116z 20 Oct 2020 0.7m Threat
 DIEGO GARCIA 1142z 20 Oct 2020 1.6m Threat

YEMEN

 DAMQAWT 0835z 20 Oct 2020 0.9m Threat

SOCOTRA ISLAND SOUTH	0847z	20 Oct 2020	1.7m	Threat
AL GHAYDAH AIRPORT	0848z	20 Oct 2020	1.9m	Threat
SOCOTRA ISLAND NORTH	0850z	20 Oct 2020	1.1m	Threat
HUSWAYN	0903z	20 Oct 2020	1.4m	Threat
ALQUMRAH	0912z	20 Oct 2020	1.1m	Threat
SOCOTRA ISLAND WEST	0913z	20 Oct 2020	0.6m	Threat
MASILAH WADI	0920z	20 Oct 2020	1.1m	Threat
HARRAH	0923z	20 Oct 2020	1.3m	Threat
EAST TO HAMI	0929z	20 Oct 2020	1.2m	Threat
HAMI	0936z	20 Oct 2020	1.1m	Threat
AL MUKALLA	0954z	20 Oct 2020	1.2m	Threat
RUDUM	1002z	20 Oct 2020	0.8m	Threat
KHANFAR	1044z	20 Oct 2020	1.3m	Threat
ADEN	1054z	20 Oct 2020	0.8m	Threat
MAALLAH	1103z	20 Oct 2020	1.7m	Threat
QAWAH	1120z	20 Oct 2020	0.7m	Threat
BROM MAYFA	1144z	20 Oct 2020	0.8m	Threat
AL MUALLA	1152z	20 Oct 2020	0.8m	Threat
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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:

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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
Web: www.incois.gov.inEND OF BULLETIN

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 7

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#  
# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
#  
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TSUNAMI BULLETIN NUMBER 7 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1000 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct 2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct 2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct 2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct 2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct 2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct 2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct 2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct 2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct 2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct 2020	1.71m

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.

AUSTRALIA

HEARD ISLAND AND MCDONALD ISLANDS 1954z 20 Oct 2020 0.7m Threat

COMOROS

CHEZANI 1335z 20 Oct 2020 0.7m Threat

DJIBOUTI

NW ARTA 1127z 20 Oct 2020 1.6m Threat

MUHAMMAD ALI BIN FATHA SUMANA	1131z	20	Oct	2020	0.8m	Threat
FRANCE						

ILE KERGUELEN	1854z	20	Oct	2020	1.4m	Threat
INDIA						

MANDVI	0804z	20	Oct	2020	2.7m	Threat
DWARKA	0808z	20	Oct	2020	2.0m	Threat
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat
MANGROL	0822z	20	Oct	2020	1.2m	Threat
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat
AGATTI	0856z	20	Oct	2020	2.0m	Threat
AMINI	0903z	20	Oct	2020	1.2m	Threat
KAVARATTI	0911z	20	Oct	2020	1.0m	Threat
MALVAN BAY	0914z	20	Oct	2020	1.7m	Threat
PANAJI	0922z	20	Oct	2020	1.6m	Threat
VASCO	0924z	20	Oct	2020	1.2m	Threat
JAIGARH	0924z	20	Oct	2020	1.7m	Threat
KARWAR	0933z	20	Oct	2020	1.8m	Threat
ANDROTH	0948z	20	Oct	2020	0.8m	Threat
MANGALORE	0955z	20	Oct	2020	1.5m	Threat
KASARAGOD	0956z	20	Oct	2020	1.4m	Threat
ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat
UDUPI	0957z	20	Oct	2020	1.8m	Threat
MAHE	1000z	20	Oct	2020	1.2m	Threat
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat
KANNUR	1005z	20	Oct	2020	1.1m	Threat
MUMBAI	1006z	20	Oct	2020	1.4m	Threat
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat
TARAPUR	1011z	20	Oct	2020	1.4m	Threat
VAKKAD	1011z	20	Oct	2020	1.2m	Threat
BEYPORE	1013z	20	Oct	2020	1.3m	Threat
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat
COCHIN	1014z	20	Oct	2020	1.3m	Threat
QUILON	1016z	20	Oct	2020	1.1m	Threat
MAHUVA	1020z	20	Oct	2020	1.5m	Threat
KHAMBAT	1025z	20	Oct	2020	1.4m	Threat
TRIVANDRUM	1026z	20	Oct	2020	1.2m	Threat
KANYAKUMARI	1037z	20	Oct	2020	1.4m	Threat
BHARUCH	1050z	20	Oct	2020	1.7m	Threat
BORSI	1059z	20	Oct	2020	1.7m	Threat
HAZIRA	1059z	20	Oct	2020	1.5m	Threat
DAMAN	1103z	20	Oct	2020	1.5m	Threat
KOODANKULAM	1112z	20	Oct	2020	1.2m	Threat
TUTICORIN	1152z	20	Oct	2020	1.3m	Threat
RAMESWARAM	1426z	20	Oct	2020	0.7m	Threat
KOTTTAIPPATTANAM	0408z	21	Oct	2020	0.6m	Threat
INDONESIA						

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	20	Oct	2020	0.6m	Threat
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21	Oct	2020	0.5m	Threat
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21	Oct	2020	0.6m	Threat
NIAS	0411z	21	Oct	2020	0.5m	Threat
NIAS-EAST	0412z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21	Oct	2020	0.5m	Threat
BANTEN PANDEGLANG U	0617z	21	Oct	2020	0.5m	Threat
IRAN						

PUSHT	0604z	20	Oct	2020	7.1m	Threat

BIR	0632z	20	Oct	2020	3.3m	Threat
MISKI	0747z	20	Oct	2020	1.9m	Threat
KENYA						

MALINDI	1433z	20	Oct	2020	1.5m	Threat
KIPINI	1434z	20	Oct	2020	0.8m	Threat
KISIMACHANDE	1455z	20	Oct	2020	0.9m	Threat
KIWAYU	1719z	20	Oct	2020	1.2m	Threat
MVULENI	0653z	21	Oct	2020	0.7m	Threat
MADAGASCAR						

VOHEMAR	1302z	20	Oct	2020	1.3m	Threat
TAMPOLO	1555z	20	Oct	2020	0.8m	Threat
AMBAHY	1556z	20	Oct	2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20	Oct	2020	0.8m	Threat
MANANTENINA	1750z	20	Oct	2020	0.7m	Threat
BALY	2018z	20	Oct	2020	0.5m	Threat
ANOROTSANGANA	2351z	20	Oct	2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20	Oct	2020	0.6m	Threat
MALDIVES						

GOIDHOO	0927z	20	Oct	2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20	Oct	2020	1.9m	Threat
FERIDHOO	0948z	20	Oct	2020	1.2m	Threat
NILANDHOO	0956z	20	Oct	2020	1.4m	Threat
DHIYAMIGILI	1004z	20	Oct	2020	1.1m	Threat
MALE	1010z	20	Oct	2020	2.2m	Threat
THINADHOO	1020z	20	Oct	2020	1.6m	Threat
HITHADHOO	1030z	20	Oct	2020	1.0m	Threat
KOLHUFUSHI	1035z	20	Oct	2020	0.9m	Threat
MAURITIUS						

CARGADOS CARAJOS	1413z	20	Oct	2020	0.9m	Threat
LA FERME	1414z	20	Oct	2020	0.6m	Threat
MOZAMBIQUE						

MAGANJA	1632z	20	Oct	2020	1.1m	Threat
MERONVI	1757z	20	Oct	2020	0.9m	Threat
QUITERAJO	1902z	20	Oct	2020	0.7m	Threat
TAVARI	1942z	20	Oct	2020	0.9m	Threat
PEMBA	2333z	20	Oct	2020	0.5m	Threat
OMAN						

QURAYYAT	0627z	20	Oct	2020	3.6m	Threat
MUSCAT	0628z	20	Oct	2020	3.8m	Threat
SUR	0631z	20	Oct	2020	3.4m	Threat
BARKA	0645z	20	Oct	2020	2.4m	Threat
AL ASHKHARAH	0649z	20	Oct	2020	3.2m	Threat
AL KHABURAH	0654z	20	Oct	2020	1.4m	Threat
SOHAR	0702z	20	Oct	2020	2.0m	Threat
MASIRAH	0702z	20	Oct	2020	1.7m	Threat
RAS AR RUWAYS	0710z	20	Oct	2020	3.1m	Threat
AD DUQM	0730z	20	Oct	2020	2.6m	Threat
EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat
HASIK	0806z	20	Oct	2020	1.5m	Threat
AL JAZER	0813z	20	Oct	2020	1.2m	Threat
MIRBAT	0818z	20	Oct	2020	0.5m	Threat
SALALAH	0828z	20	Oct	2020	1.7m	Threat
TAQAH	1754z	20	Oct	2020	0.6m	Threat
PAKISTAN						

ORMARA	0603z	20	Oct	2020	7.2m	Threat
WINDER	0604z	20	Oct	2020	4.8m	Threat
KARACHI	0704z	20	Oct	2020	3.2m	Threat
SINDH	0724z	20	Oct	2020	2.6m	Threat

SEYCHELLES

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat

SOMALIA

TOOXIN	0927z	20	Oct	2020	1.5m	Threat
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat
QANDALA	0947z	20	Oct	2020	0.6m	Threat
EYL	0950z	20	Oct	2020	0.8m	Threat
ABO	0952z	20	Oct	2020	1.9m	Threat
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat
MAREEG	1050z	20	Oct	2020	1.0m	Threat
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat
SAYLAC	1118z	20	Oct	2020	0.6m	Threat
BAKI	1124z	20	Oct	2020	0.6m	Threat
LOYADO	1124z	20	Oct	2020	0.8m	Threat
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat
JARIIBAN	1605z	20	Oct	2020	0.8m	Threat
MAYDH	1923z	20	Oct	2020	0.7m	Threat
BARAAWE	1942z	20	Oct	2020	0.9m	Threat
JILIB	2005z	20	Oct	2020	0.5m	Threat
ITALA	2024z	20	Oct	2020	0.8m	Threat
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat

SRI LANKA

COLOMBO	1109z	20	Oct	2020	0.6m	Threat
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat
MATARA	1142z	20	Oct	2020	0.7m	Threat
GALLE	1156z	20	Oct	2020	0.8m	Threat
MORATUWA	1747z	20	Oct	2020	0.7m	Threat
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat
KIRINDA	1753z	20	Oct	2020	0.8m	Threat
BERUWALA	1839z	20	Oct	2020	0.5m	Threat

TANZANIA

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat
RUVU	1646z	20	Oct	2020	0.7m	Threat
JIMBO	1649z	20	Oct	2020	0.8m	Threat
MADANGWA	1829z	20	Oct	2020	0.6m	Threat
MSASANI	1840z	20	Oct	2020	0.8m	Threat
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat
VUMBA	2205z	20	Oct	2020	0.6m	Threat
KUTANI	2314z	20	Oct	2020	0.7m	Threat
VUMBI	0441z	21	Oct	2020	0.5m	Threat

UNITED ARAB EMIRATES

KALBA	0717z	20	Oct	2020	1.7m	Threat
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UNITED KINGDOM

MORESBY ISLAND	1100z	20	Oct	2020	0.8m	Threat
NW EGMONT ISLAND	1116z	20	Oct	2020	0.7m	Threat
DIEGO GARCIA	1142z	20	Oct	2020	1.6m	Threat

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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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#   IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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BULLETIN 8

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#####  
#  
# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
#  
#####  
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TSUNAMI BULLETIN NUMBER 8 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1100 UTC Tuesday 20 October 2020

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It is issued in support of the UNESCO/IOC Indian Ocean Tsunami Warning and Mitigation System (IOTWMS).

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TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct 2020	1.84m
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Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct 2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct 2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct 2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct 2020	1.71m
Cochin (INDIA)	9.97 N	76.27 E	1026z	20 Oct 2020	1.38m
Gan (MALDIVE ISLANDS)	0.69 S	73.15 E	1033z	20 Oct 2020	0.73m

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.

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COMOROS

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DJIBOUTI

NW ARTA 1127z 20 Oct 2020 1.6m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1131z 20 Oct 2020 0.8m Threat

FRANCE

ILE KERGUELEN 1854z 20 Oct 2020 1.4m Threat

INDIA

MANDVI 0804z 20 Oct 2020 2.7m Threat
DWARKA 0808z 20 Oct 2020 2.0m Threat
PORBANDAR 0809z 20 Oct 2020 1.8m Threat
JAMNAGAR 0811z 20 Oct 2020 1.7m Threat
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HAZIRA, DIU 0834z 20 Oct 2020 1.9m Threat
AGATTI 0856z 20 Oct 2020 2.0m Threat
AMINI 0903z 20 Oct 2020 1.2m Threat
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ALIBAG PORT 0956z 20 Oct 2020 1.4m Threat
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PIPAVAV 1014z 20 Oct 2020 1.3m Threat
COCHIN 1014z 20 Oct 2020 1.3m Threat
QUILON 1016z 20 Oct 2020 1.1m Threat
MAHUVA 1020z 20 Oct 2020 1.5m Threat
KHAMBAT 1025z 20 Oct 2020 1.4m Threat
TRIVANDRUM 1026z 20 Oct 2020 1.2m Threat
KANYAKUMARI 1037z 20 Oct 2020 1.4m Threat
BHARUCH 1050z 20 Oct 2020 1.7m Threat
BORSI 1059z 20 Oct 2020 1.7m Threat
HAZIRA 1059z 20 Oct 2020 1.5m Threat
DAMAN 1103z 20 Oct 2020 1.5m Threat
KODANKULAM 1112z 20 Oct 2020 1.2m Threat
TUTICORIN 1152z 20 Oct 2020 1.3m Threat
RAMESWARAM 1426z 20 Oct 2020 0.7m Threat
KOTTTAIPPATTANAM 0408z 21 Oct 2020 0.6m Threat

INDONESIA

SUMUT NIAS B 1918z 20 Oct 2020 0.6m Threat
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI 2046z 20 Oct 2020 0.6m Threat
NAD NAGAN-RAYA 0029z 21 Oct 2020 0.5m Threat
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT 0130z 21 Oct 2020 0.5m Threat
MUARASIBERUT 0328z 21 Oct 2020 0.7m Threat
SUMBAR KOTA-PADANG U 0339z 21 Oct 2020 0.6m Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA 0351z 21 Oct 2020 0.6m Threat
NIAS 0411z 21 Oct 2020 0.5m Threat
NIAS-EAST 0412z 21 Oct 2020 0.6m Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI 0605z 21 Oct 2020 0.5m Threat
BANTEN PANDEGLANG U 0617z 21 Oct 2020 0.5m Threat

IRAN

PUSHT	0604z	20	Oct	2020	7.1m	Threat
BIR	0632z	20	Oct	2020	3.3m	Threat
MISKI	0747z	20	Oct	2020	1.9m	Threat
KENYA						

MALINDI	1433z	20	Oct	2020	1.5m	Threat
KIPINI	1434z	20	Oct	2020	0.8m	Threat
KISIMACHANDE	1455z	20	Oct	2020	0.9m	Threat
KIWAYU	1719z	20	Oct	2020	1.2m	Threat
MVULENI	0653z	21	Oct	2020	0.7m	Threat
MADAGASCAR						

VOHEMAR	1302z	20	Oct	2020	1.3m	Threat
TAMPOLO	1555z	20	Oct	2020	0.8m	Threat
AMBAHY	1556z	20	Oct	2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20	Oct	2020	0.8m	Threat
MANANTENINA	1750z	20	Oct	2020	0.7m	Threat
BALY	2018z	20	Oct	2020	0.5m	Threat
ANOROTSANGANA	2351z	20	Oct	2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20	Oct	2020	0.6m	Threat
MALDIVES						

GOIDHOO	0927z	20	Oct	2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20	Oct	2020	1.9m	Threat
FERIDHOO	0948z	20	Oct	2020	1.2m	Threat
NILANDHOO	0956z	20	Oct	2020	1.4m	Threat
DHIYAMIGILI	1004z	20	Oct	2020	1.1m	Threat
MALE	1010z	20	Oct	2020	2.2m	Threat
THINADHOO	1020z	20	Oct	2020	1.6m	Threat
HITHADHOO	1030z	20	Oct	2020	1.0m	Threat
KOLHUFUSHI	1035z	20	Oct	2020	0.9m	Threat
MAURITIUS						

CARGADOS CARAJOS	1413z	20	Oct	2020	0.9m	Threat
LA FERME	1414z	20	Oct	2020	0.6m	Threat
MOZAMBIQUE						

MAGANJA	1632z	20	Oct	2020	1.1m	Threat
MERONVI	1757z	20	Oct	2020	0.9m	Threat
QUITERAJO	1902z	20	Oct	2020	0.7m	Threat
TAVARI	1942z	20	Oct	2020	0.9m	Threat
PEMBA	2333z	20	Oct	2020	0.5m	Threat
OMAN						

QURAYYAT	0627z	20	Oct	2020	3.6m	Threat
MUSCAT	0628z	20	Oct	2020	3.8m	Threat
SUR	0631z	20	Oct	2020	3.4m	Threat
BARKA	0645z	20	Oct	2020	2.4m	Threat
AL ASHKHARAH	0649z	20	Oct	2020	3.2m	Threat
AL KHABURAH	0654z	20	Oct	2020	1.4m	Threat
SOHAR	0702z	20	Oct	2020	2.0m	Threat
MASIRAH	0702z	20	Oct	2020	1.7m	Threat
RAS AR RUWAYS	0710z	20	Oct	2020	3.1m	Threat
AD DUQM	0730z	20	Oct	2020	2.6m	Threat
EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat
HASIK	0806z	20	Oct	2020	1.5m	Threat
AL JAZER	0813z	20	Oct	2020	1.2m	Threat
MIRBAT	0818z	20	Oct	2020	0.5m	Threat Passed
SALALAH	0828z	20	Oct	2020	1.7m	Threat
TAQAH	1754z	20	Oct	2020	0.6m	Threat

PAKISTAN

ORMARA	0603z	20	Oct	2020	7.2m	Threat
WINDER	0604z	20	Oct	2020	4.8m	Threat
KARACHI	0704z	20	Oct	2020	3.2m	Threat
SINDH	0724z	20	Oct	2020	2.6m	Threat

SEYCHELLES

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat

SOMALIA

TOOXIN	0927z	20	Oct	2020	1.5m	Threat
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat
QANDALA	0947z	20	Oct	2020	0.6m	Threat
EYL	0950z	20	Oct	2020	0.8m	Threat
ABO	0952z	20	Oct	2020	1.9m	Threat
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat
MAREEG	1050z	20	Oct	2020	1.0m	Threat
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat
SAYLAC	1118z	20	Oct	2020	0.6m	Threat
BAKI	1124z	20	Oct	2020	0.6m	Threat
LOYADO	1124z	20	Oct	2020	0.8m	Threat
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat
JARIIBAN	1605z	20	Oct	2020	0.8m	Threat
MAYDH	1923z	20	Oct	2020	0.7m	Threat
BARAAWE	1942z	20	Oct	2020	0.9m	Threat
JILIB	2005z	20	Oct	2020	0.5m	Threat
ITALA	2024z	20	Oct	2020	0.8m	Threat
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat

SRI LANKA

COLOMBO	1109z	20	Oct	2020	0.6m	Threat
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat
MATARA	1142z	20	Oct	2020	0.7m	Threat
GALLE	1156z	20	Oct	2020	0.8m	Threat
MORATUWA	1747z	20	Oct	2020	0.7m	Threat
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat
KIRINDA	1753z	20	Oct	2020	0.8m	Threat
BERUWALA	1839z	20	Oct	2020	0.5m	Threat

TANZANIA

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat
RUVU	1646z	20	Oct	2020	0.7m	Threat
JIMBO	1649z	20	Oct	2020	0.8m	Threat
MADANGWA	1829z	20	Oct	2020	0.6m	Threat
MSASANI	1840z	20	Oct	2020	0.8m	Threat
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat
VUMBA	2205z	20	Oct	2020	0.6m	Threat
KUTANI	2314z	20	Oct	2020	0.7m	Threat
VUMBI	0441z	21	Oct	2020	0.5m	Threat

UNITED ARAB EMIRATES

KALBA	0717z	20	Oct	2020	1.7m	Threat
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UNITED KINGDOM

MORESBY ISLAND	1100z	20	Oct	2020	0.8m	Threat
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NW EGMONT ISLAND	1116z	20 Oct 2020	0.7m	Threat
DIEGO GARCIA	1142z	20 Oct 2020	1.6m	Threat

YEMEN

DAMQAWT	0835z	20 Oct 2020	0.9m	Threat
SOCOTRA ISLAND SOUTH	0847z	20 Oct 2020	1.7m	Threat
AL GHAYDAH AIRPORT	0848z	20 Oct 2020	1.9m	Threat
SOCOTRA ISLAND NORTH	0850z	20 Oct 2020	1.1m	Threat
HUSWAYN	0903z	20 Oct 2020	1.4m	Threat
ALQUMRAH	0912z	20 Oct 2020	1.1m	Threat
SOCOTRA ISLAND WEST	0913z	20 Oct 2020	0.6m	Threat
MASILAH WADI	0920z	20 Oct 2020	1.1m	Threat
HARRAH	0923z	20 Oct 2020	1.3m	Threat
EAST TO HAMI	0929z	20 Oct 2020	1.2m	Threat
HAMI	0936z	20 Oct 2020	1.1m	Threat
AL MUKALLA	0954z	20 Oct 2020	1.2m	Threat
RUDUM	1002z	20 Oct 2020	0.8m	Threat
KHANFAR	1044z	20 Oct 2020	1.3m	Threat
ADEN	1054z	20 Oct 2020	0.8m	Threat
MAALLAH	1103z	20 Oct 2020	1.7m	Threat
QAWAH	1120z	20 Oct 2020	0.7m	Threat
BROM MAYFA	1144z	20 Oct 2020	0.8m	Threat
AL MUALLA	1152z	20 Oct 2020	0.8m	Threat
AHWAR	1912z	20 Oct 2020	0.6m	Threat

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.in END OF BULLETIN

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#####  
#  
#   IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
#  
#####
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BULLETIN 9

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#####  
#  
#   IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
#  
#####
```

TSUNAMI BULLETIN NUMBER 9 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1200 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct	2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct	2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct	2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct	2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct	2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct	2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct	2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct	2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct	2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct	2020	1.71m
Cochin (INDIA)	9.97 N	76.27 E	1026z	20 Oct	2020	1.38m
Gan (MALDIVE ISLANDS)	0.69 S	73.15 E	1033z	20 Oct	2020	0.73m
Aden (YEMEN)	12.7 N	44.98 E	1102z	20 Oct	2020	0.88m
Colombo (SRILANKA)	6.95 N	79.85 E	1110z	20 Oct	2020	0.33m
Pt. LaRue (SEYCHELLES)	4.67 S	55.53 E	1152z	20 Oct	2020	0.94m

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.

AUSTRALIA

HEARD ISLAND AND MCDONALD ISLANDS 1954z 20 Oct 2020 0.7m Threat

COMOROS

CHEZANI	1335z	20	Oct	2020	0.7m	Threat
DJIBOUTI						

NW ARTA	1127z	20	Oct	2020	1.6m	Threat
MUHAMMAD ALI BIN FATHA SUMANA	1131z	20	Oct	2020	0.8m	Threat
FRANCE						

ILE KERGUELEN	1854z	20	Oct	2020	1.4m	Threat
INDIA						

MANDVI	0804z	20	Oct	2020	2.7m	Threat
DWARKA	0808z	20	Oct	2020	2.0m	Threat
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat
MANGROL	0822z	20	Oct	2020	1.2m	Threat
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat
AGATTI	0856z	20	Oct	2020	2.0m	Threat
AMINI	0903z	20	Oct	2020	1.2m	Threat
KAVARATTI	0911z	20	Oct	2020	1.0m	Threat
MALVAN BAY	0914z	20	Oct	2020	1.7m	Threat
PANAJI	0922z	20	Oct	2020	1.6m	Threat
VASCO	0924z	20	Oct	2020	1.2m	Threat
JAIGARH	0924z	20	Oct	2020	1.7m	Threat
KARWAR	0933z	20	Oct	2020	1.8m	Threat
ANDROTH	0948z	20	Oct	2020	0.8m	Threat
MANGALORE	0955z	20	Oct	2020	1.5m	Threat
KASARAGOD	0956z	20	Oct	2020	1.4m	Threat
ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat
UDUPI	0957z	20	Oct	2020	1.8m	Threat
MAHE	1000z	20	Oct	2020	1.2m	Threat
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat
KANNUR	1005z	20	Oct	2020	1.1m	Threat
MUMBAI	1006z	20	Oct	2020	1.4m	Threat
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat
TARAPUR	1011z	20	Oct	2020	1.4m	Threat
VAKKAD	1011z	20	Oct	2020	1.2m	Threat
BEYPORE	1013z	20	Oct	2020	1.3m	Threat
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat
COCHIN	1014z	20	Oct	2020	1.3m	Threat
QUILON	1016z	20	Oct	2020	1.1m	Threat
MAHUVA	1020z	20	Oct	2020	1.5m	Threat
KHAMBAT	1025z	20	Oct	2020	1.4m	Threat
TRIVANDRUM	1026z	20	Oct	2020	1.2m	Threat
KANYAKUMARI	1037z	20	Oct	2020	1.4m	Threat
BHARUCH	1050z	20	Oct	2020	1.7m	Threat
BORSI	1059z	20	Oct	2020	1.7m	Threat
HAZIRA	1059z	20	Oct	2020	1.5m	Threat
DAMAN	1103z	20	Oct	2020	1.5m	Threat
KOODANKULAM	1112z	20	Oct	2020	1.2m	Threat
TUTICORIN	1152z	20	Oct	2020	1.3m	Threat
RAMESWARAM	1426z	20	Oct	2020	0.7m	Threat
KOTTTAIPPATTANAM	0408z	21	Oct	2020	0.6m	Threat
INDONESIA						

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	20	Oct	2020	0.6m	Threat
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21	Oct	2020	0.5m	Threat
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21	Oct	2020	0.6m	Threat
NIAS	0411z	21	Oct	2020	0.5m	Threat
NIAS-EAST	0412z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21	Oct	2020	0.5m	Threat

BANTEN PANDEGLANG U	0617z	21 Oct 2020	0.5m	Threat
IRAN				

PUSHT	0604z	20 Oct 2020	7.1m	Threat
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MADAGASCAR				

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TAMPOLO	1555z	20 Oct 2020	0.8m	Threat
AMBAHY	1556z	20 Oct 2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20 Oct 2020	0.8m	Threat
MANANTENINA	1750z	20 Oct 2020	0.7m	Threat
BALY	2018z	20 Oct 2020	0.5m	Threat
ANOROTSANGANA	2351z	20 Oct 2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20 Oct 2020	0.6m	Threat
MALDIVES				

GOIDHOO	0927z	20 Oct 2020	1.7m	Threat
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FERIDHOO	0948z	20 Oct 2020	1.2m	Threat
NILANDHOO	0956z	20 Oct 2020	1.4m	Threat
DHIYAMIGILI	1004z	20 Oct 2020	1.1m	Threat
MALE	1010z	20 Oct 2020	2.2m	Threat
THINADHOO	1020z	20 Oct 2020	1.6m	Threat
HITHADHOO	1030z	20 Oct 2020	1.0m	Threat
KOLHUFUSHI	1035z	20 Oct 2020	0.9m	Threat
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MERONVI	1757z	20 Oct 2020	0.9m	Threat
QUITERAJO	1902z	20 Oct 2020	0.7m	Threat
TAVARI	1942z	20 Oct 2020	0.9m	Threat
PEMBA	2333z	20 Oct 2020	0.5m	Threat
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QURAYYAT	0627z	20 Oct 2020	3.6m	Threat
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AL ASHKHARAH	0649z	20 Oct 2020	3.2m	Threat
AL KHABURAH	0654z	20 Oct 2020	1.4m	Threat
SOHAR	0702z	20 Oct 2020	2.0m	Threat
MASIRAH	0702z	20 Oct 2020	1.7m	Threat
RAS AR RUWAYS	0710z	20 Oct 2020	3.1m	Threat
AD DUQM	0730z	20 Oct 2020	2.6m	Threat
EAST MUSANDAM	0742z	20 Oct 2020	2.7m	Threat
HASIK	0806z	20 Oct 2020	1.5m	Threat
AL JAZER	0813z	20 Oct 2020	1.2m	Threat
MIRBAT	0818z	20 Oct 2020	0.5m	Threat Passed

SALALAH	0828z	20	Oct	2020	1.7m	Threat
TAQAH	1754z	20	Oct	2020	0.6m	Threat
PAKISTAN						

ORMARA	0603z	20	Oct	2020	7.2m	Threat
WINDER	0604z	20	Oct	2020	4.8m	Threat
KARACHI	0704z	20	Oct	2020	3.2m	Threat
SINDH	0724z	20	Oct	2020	2.6m	Threat
SEYCHELLES						

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat
SOMALIA						

TOOXIN	0927z	20	Oct	2020	1.5m	Threat
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat
QANDALA	0947z	20	Oct	2020	0.6m	Threat
EYL	0950z	20	Oct	2020	0.8m	Threat
ABO	0952z	20	Oct	2020	1.9m	Threat
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat
MAREEG	1050z	20	Oct	2020	1.0m	Threat
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat
SAYLAC	1118z	20	Oct	2020	0.6m	Threat
BAKI	1124z	20	Oct	2020	0.6m	Threat
LOYADO	1124z	20	Oct	2020	0.8m	Threat
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MAYDH	1923z	20	Oct	2020	0.7m	Threat
BARAAWE	1942z	20	Oct	2020	0.9m	Threat
JILIB	2005z	20	Oct	2020	0.5m	Threat
ITALA	2024z	20	Oct	2020	0.8m	Threat
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat
SRI LANKA						

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MATARA	1142z	20	Oct	2020	0.7m	Threat
GALLE	1156z	20	Oct	2020	0.8m	Threat
MORATUWA	1747z	20	Oct	2020	0.7m	Threat
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat
KIRINDA	1753z	20	Oct	2020	0.8m	Threat
BERUWALA	1839z	20	Oct	2020	0.5m	Threat
TANZANIA						

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat
RUVU	1646z	20	Oct	2020	0.7m	Threat
JIMBO	1649z	20	Oct	2020	0.8m	Threat
MADANGWA	1829z	20	Oct	2020	0.6m	Threat
MSASANI	1840z	20	Oct	2020	0.8m	Threat
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat
VUMBA	2205z	20	Oct	2020	0.6m	Threat
KUTANI	2314z	20	Oct	2020	0.7m	Threat
VUMBI	0441z	21	Oct	2020	0.5m	Threat
UNITED ARAB EMIRATES						

KALBA	0717z	20	Oct	2020	1.7m	Threat

UNITED KINGDOM

MORESBY ISLAND 1100z 20 Oct 2020 0.8m Threat
NW EGMONT ISLAND 1116z 20 Oct 2020 0.7m Threat
DIEGO GARCIA 1142z 20 Oct 2020 1.6m Threat

YEMEN

DAMQAWT 0835z 20 Oct 2020 0.9m Threat
SOCOTRA ISLAND SOUTH 0847z 20 Oct 2020 1.7m Threat
AL GHAYDAH AIRPORT 0848z 20 Oct 2020 1.9m Threat
SOCOTRA ISLAND NORTH 0850z 20 Oct 2020 1.1m Threat
HUSWAYN 0903z 20 Oct 2020 1.4m Threat
ALQUMRAH 0912z 20 Oct 2020 1.1m Threat
SOCOTRA ISLAND WEST 0913z 20 Oct 2020 0.6m Threat
MASILAH WADI 0920z 20 Oct 2020 1.1m Threat
HARRAH 0923z 20 Oct 2020 1.3m Threat
EAST TO HAMI 0929z 20 Oct 2020 1.2m Threat
HAMI 0936z 20 Oct 2020 1.1m Threat
AL MUKALLA 0954z 20 Oct 2020 1.2m Threat
RUDUM 1002z 20 Oct 2020 0.8m Threat
KHANFAR 1044z 20 Oct 2020 1.3m Threat
ADEN 1054z 20 Oct 2020 0.8m Threat
MAALLAH 1103z 20 Oct 2020 1.7m Threat
QAWAH 1120z 20 Oct 2020 0.7m Threat
BROM MAYFA 1144z 20 Oct 2020 0.8m Threat
AL MUALLA 1152z 20 Oct 2020 0.8m Threat
AHWAR 1912z 20 Oct 2020 0.6m Threat

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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#  
#   IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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BULLETIN 10

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#####  
#  
# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 10 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1300 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct 2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct 2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct 2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct 2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct 2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct 2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct 2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct 2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct 2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct 2020	1.71m
Cochin (INDIA)	9.97 N	76.27 E	1026z	20 Oct 2020	1.38m
Gan (MALDIVE ISLANDS)	0.69 S	73.15 E	1033z	20 Oct 2020	0.73m
Aden (YEMEN)	12.7 N	44.98 E	1102z	20 Oct 2020	0.88m
Colombo (SRILANKA)	6.95 N	79.85 E	1110z	20 Oct 2020	0.33m
Pt. LaRue (SEYCHELLES)	4.67 S	55.53 E	1152z	20 Oct 2020	0.94m
Lamu (KENYA)	2.27 S	40.90 E	1214z	20 Oct 2020	0.46m
Dzaoudzi (FRANCE)	12.7 S	45.26 E	1232z	20 Oct 2020	0.19m

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.

AUSTRALIA

HEARD ISLAND AND MCDONALD ISLANDS 1954z 20 Oct 2020 0.7m Threat

COMOROS

CHEZANI 1335z 20 Oct 2020 0.7m Threat

DJIBOUTI

NW ARTA 1127z 20 Oct 2020 1.6m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1131z 20 Oct 2020 0.8m Threat

FRANCE

ILE KERGUELEN 1854z 20 Oct 2020 1.4m Threat

INDIA

MANDVI 0804z 20 Oct 2020 2.7m Threat
DWARKA 0808z 20 Oct 2020 2.0m Threat
PORBANDAR 0809z 20 Oct 2020 1.8m Threat
JAMNAGAR 0811z 20 Oct 2020 1.7m Threat
MANGROL 0822z 20 Oct 2020 1.2m Threat
HAZIRA, DIU 0834z 20 Oct 2020 1.9m Threat
AGATTI 0856z 20 Oct 2020 2.0m Threat
AMINI 0903z 20 Oct 2020 1.2m Threat
KAVARATTI 0911z 20 Oct 2020 1.0m Threat
MALVAN BAY 0914z 20 Oct 2020 1.7m Threat
PANAJI 0922z 20 Oct 2020 1.6m Threat
VASCO 0924z 20 Oct 2020 1.2m Threat
JAIGARH 0924z 20 Oct 2020 1.7m Threat
KARWAR 0933z 20 Oct 2020 1.8m Threat
ANDROTH 0948z 20 Oct 2020 0.8m Threat Passed
MANGALORE 0955z 20 Oct 2020 1.5m Threat
KASARAGOD 0956z 20 Oct 2020 1.4m Threat
ALIBAG PORT 0956z 20 Oct 2020 1.4m Threat
UDUPI 0957z 20 Oct 2020 1.8m Threat
MAHE 1000z 20 Oct 2020 1.2m Threat
ALLEPPEY ALAPPUZHA 1005z 20 Oct 2020 1.3m Threat
KANNUR 1005z 20 Oct 2020 1.1m Threat
MUMBAI 1006z 20 Oct 2020 1.4m Threat
VADANAPPALLY 1008z 20 Oct 2020 1.3m Threat
TARAPUR 1011z 20 Oct 2020 1.4m Threat
VAKKAD 1011z 20 Oct 2020 1.2m Threat
BEYPORE 1013z 20 Oct 2020 1.3m Threat
PIPAVAV 1014z 20 Oct 2020 1.3m Threat
COCHIN 1014z 20 Oct 2020 1.3m Threat
QUILON 1016z 20 Oct 2020 1.1m Threat
MAHUVA 1020z 20 Oct 2020 1.5m Threat
KHAMBAT 1025z 20 Oct 2020 1.4m Threat
TRIVANDRUM 1026z 20 Oct 2020 1.2m Threat
KANYAKUMARI 1037z 20 Oct 2020 1.4m Threat
BHARUCH 1050z 20 Oct 2020 1.7m Threat
BORSI 1059z 20 Oct 2020 1.7m Threat
HAZIRA 1059z 20 Oct 2020 1.5m Threat
DAMAN 1103z 20 Oct 2020 1.5m Threat
KODANKULAM 1112z 20 Oct 2020 1.2m Threat
TUTICORIN 1152z 20 Oct 2020 1.3m Threat
RAMESWARAM 1426z 20 Oct 2020 0.7m Threat
KOTTTAIPPATTANAM 0408z 21 Oct 2020 0.6m Threat

INDONESIA

SUMUT NIAS B 1918z 20 Oct 2020 0.6m Threat
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI 2046z 20 Oct 2020 0.6m Threat
NAD NAGAN-RAYA 0029z 21 Oct 2020 0.5m Threat
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT 0130z 21 Oct 2020 0.5m Threat
MUARASIBERUT 0328z 21 Oct 2020 0.7m Threat
SUMBAR KOTA-PADANG U 0339z 21 Oct 2020 0.6m Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA 0351z 21 Oct 2020 0.6m Threat

NIAS	0411z	21 Oct 2020	0.5m	Threat
NIAS-EAST	0412z	21 Oct 2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21 Oct 2020	0.5m	Threat
BANTEN PANDEGLANG U	0617z	21 Oct 2020	0.5m	Threat
IRAN				

PUSHT	0604z	20 Oct 2020	7.1m	Threat
BIR	0632z	20 Oct 2020	3.3m	Threat
MISKI	0747z	20 Oct 2020	1.9m	Threat
KENYA				

MALINDI	1433z	20 Oct 2020	1.5m	Threat
KIPINI	1434z	20 Oct 2020	0.8m	Threat
KISIMACHANDE	1455z	20 Oct 2020	0.9m	Threat
KIWAYU	1719z	20 Oct 2020	1.2m	Threat
MVULENI	0653z	21 Oct 2020	0.7m	Threat
MADAGASCAR				

VOHEMAR	1302z	20 Oct 2020	1.3m	Threat
TAMPOLO	1555z	20 Oct 2020	0.8m	Threat
AMBAHY	1556z	20 Oct 2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20 Oct 2020	0.8m	Threat
MANANTENINA	1750z	20 Oct 2020	0.7m	Threat
BALY	2018z	20 Oct 2020	0.5m	Threat
ANOROTSANGANA	2351z	20 Oct 2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20 Oct 2020	0.6m	Threat
MALDIVES				

GOIDHOO	0927z	20 Oct 2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20 Oct 2020	1.9m	Threat
FERIDHOO	0948z	20 Oct 2020	1.2m	Threat
NILANDHOO	0956z	20 Oct 2020	1.4m	Threat
DHIYAMIGILI	1004z	20 Oct 2020	1.1m	Threat
MALE	1010z	20 Oct 2020	2.2m	Threat
THINADHOO	1020z	20 Oct 2020	1.6m	Threat
HITHADHOO	1030z	20 Oct 2020	1.0m	Threat Passed
KOLHUFUSHI	1035z	20 Oct 2020	0.9m	Threat
MAURITIUS				

CARGADOS CARAJOS	1413z	20 Oct 2020	0.9m	Threat
LA FERME	1414z	20 Oct 2020	0.6m	Threat
MOZAMBIQUE				

MAGANJA	1632z	20 Oct 2020	1.1m	Threat
MERONVI	1757z	20 Oct 2020	0.9m	Threat
QUITERAJO	1902z	20 Oct 2020	0.7m	Threat
TAVARI	1942z	20 Oct 2020	0.9m	Threat
PEMBA	2333z	20 Oct 2020	0.5m	Threat
OMAN				

QURAYYAT	0627z	20 Oct 2020	3.6m	Threat
MUSCAT	0628z	20 Oct 2020	3.8m	Threat
SUR	0631z	20 Oct 2020	3.4m	Threat
BARKA	0645z	20 Oct 2020	2.4m	Threat
AL ASHKHARAH	0649z	20 Oct 2020	3.2m	Threat
AL KHABURAH	0654z	20 Oct 2020	1.4m	Threat
SOHAR	0702z	20 Oct 2020	2.0m	Threat
MASIRAH	0702z	20 Oct 2020	1.7m	Threat
RAS AR RUWAYS	0710z	20 Oct 2020	3.1m	Threat
AD DUQM	0730z	20 Oct 2020	2.6m	Threat
EAST MUSANDAM	0742z	20 Oct 2020	2.7m	Threat

HASIK	0806z	20	Oct	2020	1.5m	Threat	
AL JAZER	0813z	20	Oct	2020	1.2m	Threat	
MIRBAT	0818z	20	Oct	2020	0.5m	Threat	Passed
SALALAH	0828z	20	Oct	2020	1.7m	Threat	
TAQAH	1754z	20	Oct	2020	0.6m	Threat	

PAKISTAN

ORMARA	0603z	20	Oct	2020	7.2m	Threat	
WINDER	0604z	20	Oct	2020	4.8m	Threat	
KARACHI	0704z	20	Oct	2020	3.2m	Threat	
SINDH	0724z	20	Oct	2020	2.6m	Threat	

SEYCHELLES

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat	
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat	

SOMALIA

TOOXIN	0927z	20	Oct	2020	1.5m	Threat	
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat	
QANDALA	0947z	20	Oct	2020	0.6m	Threat	
EYL	0950z	20	Oct	2020	0.8m	Threat	
ABO	0952z	20	Oct	2020	1.9m	Threat	
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat	
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat	
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat	
MAREEG	1050z	20	Oct	2020	1.0m	Threat	
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat	
SAYLAC	1118z	20	Oct	2020	0.6m	Threat	
BAKI	1124z	20	Oct	2020	0.6m	Threat	
LOYADO	1124z	20	Oct	2020	0.8m	Threat	
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat	
JARIIBAN	1605z	20	Oct	2020	0.8m	Threat	
MAYDH	1923z	20	Oct	2020	0.7m	Threat	
BARAAWE	1942z	20	Oct	2020	0.9m	Threat	
JILIB	2005z	20	Oct	2020	0.5m	Threat	
ITALA	2024z	20	Oct	2020	0.8m	Threat	
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat	
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat	

SRI LANKA

COLOMBO	1109z	20	Oct	2020	0.6m	Threat	
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat	
MATARA	1142z	20	Oct	2020	0.7m	Threat	
GALLE	1156z	20	Oct	2020	0.8m	Threat	
MORATUWA	1747z	20	Oct	2020	0.7m	Threat	
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat	
KIRINDA	1753z	20	Oct	2020	0.8m	Threat	
BERUWALA	1839z	20	Oct	2020	0.5m	Threat	

TANZANIA

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat	
RUVU	1646z	20	Oct	2020	0.7m	Threat	
JIMBO	1649z	20	Oct	2020	0.8m	Threat	
MADANGWA	1829z	20	Oct	2020	0.6m	Threat	
MSASANI	1840z	20	Oct	2020	0.8m	Threat	
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat	
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat	
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat	
VUMBA	2205z	20	Oct	2020	0.6m	Threat	
KUTANI	2314z	20	Oct	2020	0.7m	Threat	
VUMBI	0441z	21	Oct	2020	0.5m	Threat	

UNITED ARAB EMIRATES

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KALBA                                0717z  20 Oct 2020  1.7m  Threat  
  
UNITED KINGDOM  
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MORESBY ISLAND                       1100z  20 Oct 2020  0.8m  Threat  
NW EGMONT ISLAND                     1116z  20 Oct 2020  0.7m  Threat  
DIEGO GARCIA                         1142z  20 Oct 2020  1.6m  Threat  
  
YEMEN  
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DAMQAWT                              0835z  20 Oct 2020  0.9m  Threat  
SOCOTRA ISLAND SOUTH                 0847z  20 Oct 2020  1.7m  Threat  
AL GHAYDAH AIRPORT                   0848z  20 Oct 2020  1.9m  Threat  
SOCOTRA ISLAND NORTH                 0850z  20 Oct 2020  1.1m  Threat  
HUSWAYN                              0903z  20 Oct 2020  1.4m  Threat  
ALQUMRAH                             0912z  20 Oct 2020  1.1m  Threat  
SOCOTRA ISLAND WEST                 0913z  20 Oct 2020  0.6m  Threat  
MASILAH WADI                        0920z  20 Oct 2020  1.1m  Threat  
HARRAH                               0923z  20 Oct 2020  1.3m  Threat  
EAST TO HAMI                        0929z  20 Oct 2020  1.2m  Threat  
HAMI                                 0936z  20 Oct 2020  1.1m  Threat  
AL MUKALLA                          0954z  20 Oct 2020  1.2m  Threat  
RUDUM                               1002z  20 Oct 2020  0.8m  Threat  
KHANFAR                             1044z  20 Oct 2020  1.3m  Threat  
ADEN                                 1054z  20 Oct 2020  0.8m  Threat  
MAALLAH                             1103z  20 Oct 2020  1.7m  Threat  
QAWAH                               1120z  20 Oct 2020  0.7m  Threat  
BROM MAYFA                          1144z  20 Oct 2020  0.8m  Threat  
AL MUALLA                           1152z  20 Oct 2020  0.8m  Threat  
AHWAR                               1912z  20 Oct 2020  0.6m  Threat
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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.

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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 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

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 11

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#  
# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 11 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1400 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct	2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct	2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct	2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct	2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct	2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct	2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct	2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct	2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct	2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct	2020	1.71m
Cochin (INDIA)	9.97 N	76.27 E	1026z	20 Oct	2020	1.38m
Gan (MALDIVE ISLANDS)	0.69 S	73.15 E	1033z	20 Oct	2020	0.73m
Aden (YEMEN)	12.7 N	44.98 E	1102z	20 Oct	2020	0.88m
Colombo (SRILANKA)	6.95 N	79.85 E	1110z	20 Oct	2020	0.33m
Pt. LaRue (SEYCHELLES)	4.67 S	55.53 E	1152z	20 Oct	2020	0.94m
Lamu (KENYA)	2.27 S	40.90 E	1214z	20 Oct	2020	0.46m
Dzaoudzi (FRANCE)	12.7 S	45.26 E	1232z	20 Oct	2020	0.19m
Pemba (MOCAMBIQUE)	12.9 S	40.49 E	1308z	20 Oct	2020	0.24m
Blue Bay (MAURITIUS)	20.4 S	57.71 E	1342z	20 Oct	2020	0.27m

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.

AUSTRALIA

HEARD ISLAND AND MCDONALD ISLANDS	1954z	20	Oct	2020	0.7m	Threat	
COMOROS							

CHEZANI	1335z	20	Oct	2020	0.7m	Threat	
DJIBOUTI							

NW ARTA	1127z	20	Oct	2020	1.6m	Threat	
MUHAMMAD ALI BIN FATHA SUMANA	1131z	20	Oct	2020	0.8m	Threat	
FRANCE							

ILE KERGUELEN	1854z	20	Oct	2020	1.4m	Threat	
INDIA							

MANDVI	0804z	20	Oct	2020	2.7m	Threat	
DWARKA	0808z	20	Oct	2020	2.0m	Threat	
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat	
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat	
MANGROL	0822z	20	Oct	2020	1.2m	Threat	
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat	
AGATTI	0856z	20	Oct	2020	2.0m	Threat	
AMINI	0903z	20	Oct	2020	1.2m	Threat	
KAVARATTI	0911z	20	Oct	2020	1.0m	Threat	
MALVAN BAY	0914z	20	Oct	2020	1.7m	Threat	
PANAJI	0922z	20	Oct	2020	1.6m	Threat	
VASCO	0924z	20	Oct	2020	1.2m	Threat	
JAIGARH	0924z	20	Oct	2020	1.7m	Threat	
KARWAR	0933z	20	Oct	2020	1.8m	Threat	
ANDROTH	0948z	20	Oct	2020	0.8m	Threat	Passed
MANGALORE	0955z	20	Oct	2020	1.5m	Threat	
KASARAGOD	0956z	20	Oct	2020	1.4m	Threat	
ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat	
UDUPI	0957z	20	Oct	2020	1.8m	Threat	
MAHE	1000z	20	Oct	2020	1.2m	Threat	
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat	
KANNUR	1005z	20	Oct	2020	1.1m	Threat	
MUMBAI	1006z	20	Oct	2020	1.4m	Threat	
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat	
TARAPUR	1011z	20	Oct	2020	1.4m	Threat	
VAKKAD	1011z	20	Oct	2020	1.2m	Threat	
BEYPORE	1013z	20	Oct	2020	1.3m	Threat	
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat	
COCHIN	1014z	20	Oct	2020	1.3m	Threat	
QUILON	1016z	20	Oct	2020	1.1m	Threat	
MAHUVA	1020z	20	Oct	2020	1.5m	Threat	
KHAMBAT	1025z	20	Oct	2020	1.4m	Threat	
TRIVANDRUM	1026z	20	Oct	2020	1.2m	Threat	
KANYAKUMARI	1037z	20	Oct	2020	1.4m	Threat	
BHARUCH	1050z	20	Oct	2020	1.7m	Threat	
BORSI	1059z	20	Oct	2020	1.7m	Threat	
HAZIRA	1059z	20	Oct	2020	1.5m	Threat	
DAMAN	1103z	20	Oct	2020	1.5m	Threat	
KOODANKULAM	1112z	20	Oct	2020	1.2m	Threat	
TUTICORIN	1152z	20	Oct	2020	1.3m	Threat	
RAMESWARAM	1426z	20	Oct	2020	0.7m	Threat	
KOTTTAIPPATTANAM	0408z	21	Oct	2020	0.6m	Threat	
INDONESIA							

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat	
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	20	Oct	2020	0.6m	Threat	
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat	
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21	Oct	2020	0.5m	Threat	
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat	
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat	

LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21 Oct 2020	0.6m	Threat
NIAS	0411z	21 Oct 2020	0.5m	Threat
NIAS-EAST	0412z	21 Oct 2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21 Oct 2020	0.5m	Threat
BANTEN PANDEGLANG U	0617z	21 Oct 2020	0.5m	Threat
IRAN				

PUSHT	0604z	20 Oct 2020	7.1m	Threat
BIR	0632z	20 Oct 2020	3.3m	Threat
MISKI	0747z	20 Oct 2020	1.9m	Threat
KENYA				

MALINDI	1433z	20 Oct 2020	1.5m	Threat
KIPINI	1434z	20 Oct 2020	0.8m	Threat
KISIMACHANDE	1455z	20 Oct 2020	0.9m	Threat
KIWAYU	1719z	20 Oct 2020	1.2m	Threat
MVULENI	0653z	21 Oct 2020	0.7m	Threat
MADAGASCAR				

VOHEMAR	1302z	20 Oct 2020	1.3m	Threat
TAMPOLO	1555z	20 Oct 2020	0.8m	Threat
AMBAHY	1556z	20 Oct 2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20 Oct 2020	0.8m	Threat
MANANTENINA	1750z	20 Oct 2020	0.7m	Threat
BALY	2018z	20 Oct 2020	0.5m	Threat
ANOROTSANGANA	2351z	20 Oct 2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20 Oct 2020	0.6m	Threat
MALDIVES				

GOIDHOO	0927z	20 Oct 2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20 Oct 2020	1.9m	Threat
FERIDHOO	0948z	20 Oct 2020	1.2m	Threat
NILANDHOO	0956z	20 Oct 2020	1.4m	Threat
DHIYAMIGILI	1004z	20 Oct 2020	1.1m	Threat
MALE	1010z	20 Oct 2020	2.2m	Threat
THINADHOO	1020z	20 Oct 2020	1.6m	Threat
HITHADHOO	1030z	20 Oct 2020	1.0m	Threat Passed
KOLHUFUSHI	1035z	20 Oct 2020	0.9m	Threat
MAURITIUS				

CARGADOS CARAJOS	1413z	20 Oct 2020	0.9m	Threat
LA FERME	1414z	20 Oct 2020	0.6m	Threat
MOZAMBIQUE				

MAGANJA	1632z	20 Oct 2020	1.1m	Threat
MERONVI	1757z	20 Oct 2020	0.9m	Threat
QUITERAJO	1902z	20 Oct 2020	0.7m	Threat
TAVARI	1942z	20 Oct 2020	0.9m	Threat
PEMBA	2333z	20 Oct 2020	0.5m	Threat
OMAN				

QURAYYAT	0627z	20 Oct 2020	3.6m	Threat
MUSCAT	0628z	20 Oct 2020	3.8m	Threat
SUR	0631z	20 Oct 2020	3.4m	Threat
BARKA	0645z	20 Oct 2020	2.4m	Threat
AL ASHKHARAH	0649z	20 Oct 2020	3.2m	Threat
AL KHABURAH	0654z	20 Oct 2020	1.4m	Threat
SOHAR	0702z	20 Oct 2020	2.0m	Threat
MASIRAH	0702z	20 Oct 2020	1.7m	Threat
RAS AR RUWAYS	0710z	20 Oct 2020	3.1m	Threat
AD DUQM	0730z	20 Oct 2020	2.6m	Threat

EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat
HASIK	0806z	20	Oct	2020	1.5m	Threat
AL JAZER	0813z	20	Oct	2020	1.2m	Threat
MIRBAT	0818z	20	Oct	2020	0.5m	Threat Passed
SALALAH	0828z	20	Oct	2020	1.7m	Threat
TAQAH	1754z	20	Oct	2020	0.6m	Threat

PAKISTAN

ORMARA	0603z	20	Oct	2020	7.2m	Threat
WINDER	0604z	20	Oct	2020	4.8m	Threat
KARACHI	0704z	20	Oct	2020	3.2m	Threat
SINDH	0724z	20	Oct	2020	2.6m	Threat

SEYCHELLES

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat

SOMALIA

TOOXIN	0927z	20	Oct	2020	1.5m	Threat
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat
QANDALA	0947z	20	Oct	2020	0.6m	Threat
EYL	0950z	20	Oct	2020	0.8m	Threat
ABO	0952z	20	Oct	2020	1.9m	Threat
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat
MAREEG	1050z	20	Oct	2020	1.0m	Threat
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat
SAYLAC	1118z	20	Oct	2020	0.6m	Threat
BAKI	1124z	20	Oct	2020	0.6m	Threat
LOYADO	1124z	20	Oct	2020	0.8m	Threat
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat
JARIIBAN	1605z	20	Oct	2020	0.8m	Threat
MAYDH	1923z	20	Oct	2020	0.7m	Threat
BARAAWE	1942z	20	Oct	2020	0.9m	Threat
JILIB	2005z	20	Oct	2020	0.5m	Threat
ITALA	2024z	20	Oct	2020	0.8m	Threat
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat

SRI LANKA

COLOMBO	1109z	20	Oct	2020	0.6m	Threat
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat
MATARA	1142z	20	Oct	2020	0.7m	Threat
GALLE	1156z	20	Oct	2020	0.8m	Threat
MORATUWA	1747z	20	Oct	2020	0.7m	Threat
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat
KIRINDA	1753z	20	Oct	2020	0.8m	Threat
BERUWALA	1839z	20	Oct	2020	0.5m	Threat

TANZANIA

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat
RUVU	1646z	20	Oct	2020	0.7m	Threat
JIMBO	1649z	20	Oct	2020	0.8m	Threat
MADANGWA	1829z	20	Oct	2020	0.6m	Threat
MSASANI	1840z	20	Oct	2020	0.8m	Threat
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat
VUMBA	2205z	20	Oct	2020	0.6m	Threat
KUTANI	2314z	20	Oct	2020	0.7m	Threat
VUMBI	0441z	21	Oct	2020	0.5m	Threat

UNITED ARAB EMIRATES

KALBA 0717z 20 Oct 2020 1.7m Threat

UNITED KINGDOM

MORESBY ISLAND 1100z 20 Oct 2020 0.8m Threat
NW EGMONT ISLAND 1116z 20 Oct 2020 0.7m Threat
DIEGO GARCIA 1142z 20 Oct 2020 1.6m Threat

YEMEN

DAMQAWT 0835z 20 Oct 2020 0.9m Threat
SOCOTRA ISLAND SOUTH 0847z 20 Oct 2020 1.7m Threat
AL GHAYDAH AIRPORT 0848z 20 Oct 2020 1.9m Threat
SOCOTRA ISLAND NORTH 0850z 20 Oct 2020 1.1m Threat
HUSWAYN 0903z 20 Oct 2020 1.4m Threat
ALQUMRAH 0912z 20 Oct 2020 1.1m Threat
SOCOTRA ISLAND WEST 0913z 20 Oct 2020 0.6m Threat
MASILAH WADI 0920z 20 Oct 2020 1.1m Threat
HARRAH 0923z 20 Oct 2020 1.3m Threat
EAST TO HAMI 0929z 20 Oct 2020 1.2m Threat
HAMI 0936z 20 Oct 2020 1.1m Threat
AL MUKALLA 0954z 20 Oct 2020 1.2m Threat
RUDUM 1002z 20 Oct 2020 0.8m Threat
KHANFAR 1044z 20 Oct 2020 1.3m Threat
ADEN 1054z 20 Oct 2020 0.8m Threat
MAALLAH 1103z 20 Oct 2020 1.7m Threat
QAWAH 1120z 20 Oct 2020 0.7m Threat
BROM MAYFA 1144z 20 Oct 2020 0.8m Threat
AL MUALLA 1152z 20 Oct 2020 0.8m Threat
AHWAR 1912z 20 Oct 2020 0.6m Threat

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

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 12

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#####  
#  
#   IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
#  
#####
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TSUNAMI BULLETIN NUMBER 12 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1500 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct	2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct	2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct	2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct	2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct	2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct	2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct	2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct	2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct	2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct	2020	1.71m
Cochin (INDIA)	9.97 N	76.27 E	1026z	20 Oct	2020	1.38m
Gan (MALDIVE ISLANDS)	0.69 S	73.15 E	1033z	20 Oct	2020	0.73m
Aden (YEMEN)	12.7 N	44.98 E	1102z	20 Oct	2020	0.88m
Colombo (SRILANKA)	6.95 N	79.85 E	1110z	20 Oct	2020	0.33m
Pt. LaRue (SEYCHELLES)	4.67 S	55.53 E	1152z	20 Oct	2020	0.94m
Lamu (KENYA)	2.27 S	40.90 E	1214z	20 Oct	2020	0.46m
Dzaoudzi (FRANCE)	12.7 S	45.26 E	1232z	20 Oct	2020	0.19m
Pemba (MOCAMBIQUE)	12.9 S	40.49 E	1308z	20 Oct	2020	0.24m
Blue Bay (MAURITIUS)	20.4 S	57.71 E	1342z	20 Oct	2020	0.27m
Rodrigue (MAURITIUS)	19.6 S	63.42 E	1408z	20 Oct	2020	0.61m
Visakhapatnam (INDIA)	17.6 N	83.28 E	1422z	20 Oct	2020	0.11m
seblat (INDONESIA)	3.22 S	101.60 E	1444z	20 Oct	2020	0.20m

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.

AUSTRALIA						

HEARD ISLAND AND MCDONALD ISLANDS	1954z	20	Oct	2020	0.7m	Threat
COMOROS						

CHEZANI	1335z	20	Oct	2020	0.7m	Threat
DJIBOUTI						

NW ARTA	1127z	20	Oct	2020	1.6m	Threat
MUHAMMAD ALI BIN FATHA SUMANA	1131z	20	Oct	2020	0.8m	Threat
FRANCE						

ILE KERGUELEN	1854z	20	Oct	2020	1.4m	Threat
INDIA						

MANDVI	0804z	20	Oct	2020	2.7m	Threat
DWARKA	0808z	20	Oct	2020	2.0m	Threat
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat
MANGROL	0822z	20	Oct	2020	1.2m	Threat
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat
AGATTI	0856z	20	Oct	2020	2.0m	Threat
AMINI	0903z	20	Oct	2020	1.2m	Threat
KAVARATTI	0911z	20	Oct	2020	1.0m	Threat
MALVAN BAY	0914z	20	Oct	2020	1.7m	Threat
PANAJI	0922z	20	Oct	2020	1.6m	Threat
VASCO	0924z	20	Oct	2020	1.2m	Threat
JAIGARH	0924z	20	Oct	2020	1.7m	Threat
KARWAR	0933z	20	Oct	2020	1.8m	Threat
ANDROTH	0948z	20	Oct	2020	0.8m	Threat Passed
MANGALORE	0955z	20	Oct	2020	1.5m	Threat
KASARAGOD	0956z	20	Oct	2020	1.4m	Threat
ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat
UDUPI	0957z	20	Oct	2020	1.8m	Threat
MAHE	1000z	20	Oct	2020	1.2m	Threat
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat
KANNUR	1005z	20	Oct	2020	1.1m	Threat
MUMBAI	1006z	20	Oct	2020	1.4m	Threat
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat
TARAPUR	1011z	20	Oct	2020	1.4m	Threat
VAKKAD	1011z	20	Oct	2020	1.2m	Threat
BEYPORE	1013z	20	Oct	2020	1.3m	Threat
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat
COCHIN	1014z	20	Oct	2020	1.3m	Threat
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INDONESIA						

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SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21 Oct 2020	0.5m	Threat
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SUMBAR KOTA-PADANG U	0339z	21 Oct 2020	0.6m	Threat
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VOHEMAR	1302z	20 Oct 2020	1.3m	Threat
TAMPOLO	1555z	20 Oct 2020	0.8m	Threat
AMBAHY	1556z	20 Oct 2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20 Oct 2020	0.8m	Threat
MANANTENINA	1750z	20 Oct 2020	0.7m	Threat
BALY	2018z	20 Oct 2020	0.5m	Threat
ANOROTSANGANA	2351z	20 Oct 2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20 Oct 2020	0.6m	Threat
MALDIVES				

GOIDHOO	0927z	20 Oct 2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20 Oct 2020	1.9m	Threat
FERIDHOO	0948z	20 Oct 2020	1.2m	Threat
NILANDHOO	0956z	20 Oct 2020	1.4m	Threat
DHIYAMIGILI	1004z	20 Oct 2020	1.1m	Threat
MALE	1010z	20 Oct 2020	2.2m	Threat
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HITHADHOO	1030z	20 Oct 2020	1.0m	Threat Passed
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MAURITIUS				

CARGADOS CARAJOS	1413z	20 Oct 2020	0.9m	Threat
LA FERME	1414z	20 Oct 2020	0.6m	Threat
MOZAMBIQUE				

MAGANJA	1632z	20 Oct 2020	1.1m	Threat
MERONVI	1757z	20 Oct 2020	0.9m	Threat
QUITERAJO	1902z	20 Oct 2020	0.7m	Threat
TAVARI	1942z	20 Oct 2020	0.9m	Threat
PEMBA	2333z	20 Oct 2020	0.5m	Threat
OMAN				

QURAYYAT	0627z	20 Oct 2020	3.6m	Threat
MUSCAT	0628z	20 Oct 2020	3.8m	Threat
SUR	0631z	20 Oct 2020	3.4m	Threat
BARKA	0645z	20 Oct 2020	2.4m	Threat
AL ASHKHARAH	0649z	20 Oct 2020	3.2m	Threat
AL KHABURAH	0654z	20 Oct 2020	1.4m	Threat
SOHAR	0702z	20 Oct 2020	2.0m	Threat

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RAS AR RUWAYS	0710z	20	Oct	2020	3.1m	Threat	
AD DUQM	0730z	20	Oct	2020	2.6m	Threat	
EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat	
HASIK	0806z	20	Oct	2020	1.5m	Threat	
AL JAZER	0813z	20	Oct	2020	1.2m	Threat	
MIRBAT	0818z	20	Oct	2020	0.5m	Threat	Passed
SALALAH	0828z	20	Oct	2020	1.7m	Threat	
TAQAH	1754z	20	Oct	2020	0.6m	Threat	
PAKISTAN							

ORMARA	0603z	20	Oct	2020	7.2m	Threat	
WINDER	0604z	20	Oct	2020	4.8m	Threat	
KARACHI	0704z	20	Oct	2020	3.2m	Threat	
SINDH	0724z	20	Oct	2020	2.6m	Threat	
SEYCHELLES							

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat	
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat	
SOMALIA							

TOOXIN	0927z	20	Oct	2020	1.5m	Threat	
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat	
QANDALA	0947z	20	Oct	2020	0.6m	Threat	
EYL	0950z	20	Oct	2020	0.8m	Threat	
ABO	0952z	20	Oct	2020	1.9m	Threat	
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat	
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat	
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat	
MAREEG	1050z	20	Oct	2020	1.0m	Threat	
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat	
SAYLAC	1118z	20	Oct	2020	0.6m	Threat	
BAKI	1124z	20	Oct	2020	0.6m	Threat	
LOYADO	1124z	20	Oct	2020	0.8m	Threat	
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat	
JARIIBAN	1605z	20	Oct	2020	0.8m	Threat	
MAYDH	1923z	20	Oct	2020	0.7m	Threat	
BARAAWE	1942z	20	Oct	2020	0.9m	Threat	
JILIB	2005z	20	Oct	2020	0.5m	Threat	
ITALA	2024z	20	Oct	2020	0.8m	Threat	
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat	
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat	
SRI LANKA							

COLOMBO	1109z	20	Oct	2020	0.6m	Threat	
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat	
MATARA	1142z	20	Oct	2020	0.7m	Threat	
GALLE	1156z	20	Oct	2020	0.8m	Threat	
MORATUWA	1747z	20	Oct	2020	0.7m	Threat	
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat	
KIRINDA	1753z	20	Oct	2020	0.8m	Threat	
BERUWALA	1839z	20	Oct	2020	0.5m	Threat	
TANZANIA							

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat	
RUVU	1646z	20	Oct	2020	0.7m	Threat	
JIMBO	1649z	20	Oct	2020	0.8m	Threat	
MADANGWA	1829z	20	Oct	2020	0.6m	Threat	
MSASANI	1840z	20	Oct	2020	0.8m	Threat	
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat	
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat	
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat	
VUMBA	2205z	20	Oct	2020	0.6m	Threat	

KUTANI	2314z	20 Oct 2020	0.7m	Threat
VUMBI	0441z	21 Oct 2020	0.5m	Threat
UNITED ARAB EMIRATES				

KALBA	0717z	20 Oct 2020	1.7m	Threat
UNITED KINGDOM				

MORESBY ISLAND	1100z	20 Oct 2020	0.8m	Threat
NW EGMONT ISLAND	1116z	20 Oct 2020	0.7m	Threat
DIEGO GARCIA	1142z	20 Oct 2020	1.6m	Threat
YEMEN				

DAMQAWT	0835z	20 Oct 2020	0.9m	Threat
SOCOTRA ISLAND SOUTH	0847z	20 Oct 2020	1.7m	Threat
AL GHAYDAH AIRPORT	0848z	20 Oct 2020	1.9m	Threat
SOCOTRA ISLAND NORTH	0850z	20 Oct 2020	1.1m	Threat
HUSWAYN	0903z	20 Oct 2020	1.4m	Threat
ALQUMRAH	0912z	20 Oct 2020	1.1m	Threat
SOCOTRA ISLAND WEST	0913z	20 Oct 2020	0.6m	Threat
MASILAH WADI	0920z	20 Oct 2020	1.1m	Threat
HARRAH	0923z	20 Oct 2020	1.3m	Threat
EAST TO HAMI	0929z	20 Oct 2020	1.2m	Threat
HAMI	0936z	20 Oct 2020	1.1m	Threat
AL MUKALLA	0954z	20 Oct 2020	1.2m	Threat
RUDUM	1002z	20 Oct 2020	0.8m	Threat
KHANFAR	1044z	20 Oct 2020	1.3m	Threat
ADEN	1054z	20 Oct 2020	0.8m	Threat
MAALLAH	1103z	20 Oct 2020	1.7m	Threat
QAWAH	1120z	20 Oct 2020	0.7m	Threat
BROM MAYFA	1144z	20 Oct 2020	0.8m	Threat
AL MUALLA	1152z	20 Oct 2020	0.8m	Threat
AHWAR	1912z	20 Oct 2020	0.6m	Threat

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.in

END OF BULLETIN

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 13

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#  
# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 13 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1600 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct	2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct	2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct	2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct	2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct	2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct	2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct	2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct	2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct	2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct	2020	1.71m
Cochin (INDIA)	9.97 N	76.27 E	1026z	20 Oct	2020	1.38m
Gan (MALDIVE ISLANDS)	0.69 S	73.15 E	1033z	20 Oct	2020	0.73m
Aden (YEMEN)	12.7 N	44.98 E	1102z	20 Oct	2020	0.88m
Colombo (SRILANKA)	6.95 N	79.85 E	1110z	20 Oct	2020	0.33m
Pt. LaRue (SEYCHELLES)	4.67 S	55.53 E	1152z	20 Oct	2020	0.94m
Lamu (KENYA)	2.27 S	40.90 E	1214z	20 Oct	2020	0.46m
Dzaoudzi (FRANCE)	12.7 S	45.26 E	1232z	20 Oct	2020	0.19m
Pemba (MOCAMBIQUE)	12.9 S	40.49 E	1308z	20 Oct	2020	0.24m
Blue Bay (MAURITIUS)	20.4 S	57.71 E	1342z	20 Oct	2020	0.27m
Rodrigue (MAURITIUS)	19.6 S	63.42 E	1408z	20 Oct	2020	0.61m
Visakhapatnam (INDIA)	17.6 N	83.28 E	1422z	20 Oct	2020	0.11m
seblat (INDONESIA)	3.22 S	101.60 E	1444z	20 Oct	2020	0.20m
Enggano (INDONESIA)	5.35 S	102.28 E	1502z	20 Oct	2020	0.17m
Christmas Island (AUSTRALIA)	10.4 S	105.67 E	1524z	20 Oct	2020	0.13m
Sittwe (MYANMAR)	20.1 N	92.90 E	1544z	20 Oct	2020	0.19m

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.

AUSTRALIA							

HEARD ISLAND AND MCDONALD ISLANDS	1954z	20	Oct	2020	0.7m	Threat	
COMOROS							

CHEZANI	1335z	20	Oct	2020	0.7m	Threat	
DJIBOUTI							

NW ARTA	1127z	20	Oct	2020	1.6m	Threat	
MUHAMMAD ALI BIN FATHA SUMANA	1131z	20	Oct	2020	0.8m	Threat	
FRANCE							

ILE KERGUELEN	1854z	20	Oct	2020	1.4m	Threat	
INDIA							

MANDVI	0804z	20	Oct	2020	2.7m	Threat	
DWARKA	0808z	20	Oct	2020	2.0m	Threat	
PORBANDAR	0809z	20	Oct	2020	1.8m	Threat	
JAMNAGAR	0811z	20	Oct	2020	1.7m	Threat	
MANGROL	0822z	20	Oct	2020	1.2m	Threat	
HAZIRA, DIU	0834z	20	Oct	2020	1.9m	Threat	
AGATTI	0856z	20	Oct	2020	2.0m	Threat	
AMINI	0903z	20	Oct	2020	1.2m	Threat	
KAVARATTI	0911z	20	Oct	2020	1.0m	Threat	
MALVAN BAY	0914z	20	Oct	2020	1.7m	Threat	
PANAJI	0922z	20	Oct	2020	1.6m	Threat	
VASCO	0924z	20	Oct	2020	1.2m	Threat	
JAIGARH	0924z	20	Oct	2020	1.7m	Threat	
KARWAR	0933z	20	Oct	2020	1.8m	Threat	
ANDROTH	0948z	20	Oct	2020	0.8m	Threat	Passed
MANGALORE	0955z	20	Oct	2020	1.5m	Threat	
KASARAGOD	0956z	20	Oct	2020	1.4m	Threat	
ALIBAG PORT	0956z	20	Oct	2020	1.4m	Threat	
UDUPI	0957z	20	Oct	2020	1.8m	Threat	
MAHE	1000z	20	Oct	2020	1.2m	Threat	
ALLEPPEY ALAPPUZHA	1005z	20	Oct	2020	1.3m	Threat	
KANNUR	1005z	20	Oct	2020	1.1m	Threat	
MUMBAI	1006z	20	Oct	2020	1.4m	Threat	
VADANAPPALLY	1008z	20	Oct	2020	1.3m	Threat	
TARAPUR	1011z	20	Oct	2020	1.4m	Threat	
VAKKAD	1011z	20	Oct	2020	1.2m	Threat	
BEYPORE	1013z	20	Oct	2020	1.3m	Threat	
PIPAVAV	1014z	20	Oct	2020	1.3m	Threat	
COCHIN	1014z	20	Oct	2020	1.3m	Threat	
QUILON	1016z	20	Oct	2020	1.1m	Threat	
MAHUVA	1020z	20	Oct	2020	1.5m	Threat	
KHAMBAT	1025z	20	Oct	2020	1.4m	Threat	
TRIVANDRUM	1026z	20	Oct	2020	1.2m	Threat	
KANYAKUMARI	1037z	20	Oct	2020	1.4m	Threat	
BHARUCH	1050z	20	Oct	2020	1.7m	Threat	
BORSI	1059z	20	Oct	2020	1.7m	Threat	
HAZIRA	1059z	20	Oct	2020	1.5m	Threat	
DAMAN	1103z	20	Oct	2020	1.5m	Threat	
KOODANKULAM	1112z	20	Oct	2020	1.2m	Threat	
TUTICORIN	1152z	20	Oct	2020	1.3m	Threat	
RAMESWARAM	1426z	20	Oct	2020	0.7m	Threat	
KOTTTAIPPATTANAM	0408z	21	Oct	2020	0.6m	Threat	
INDONESIA							

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat	
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	20	Oct	2020	0.6m	Threat	
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat	
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21	Oct	2020	0.5m	Threat	
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat	
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat	
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21	Oct	2020	0.6m	Threat	
NIAS	0411z	21	Oct	2020	0.5m	Threat	
NIAS-EAST	0412z	21	Oct	2020	0.6m	Threat	
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21	Oct	2020	0.5m	Threat	
BANTEN PANDEGLANG U	0617z	21	Oct	2020	0.5m	Threat	
IRAN							

PUSHT	0604z	20	Oct	2020	7.1m	Threat	
BIR	0632z	20	Oct	2020	3.3m	Threat	
MISKI	0747z	20	Oct	2020	1.9m	Threat	
KENYA							

MALINDI	1433z	20	Oct	2020	1.5m	Threat	
KIPINI	1434z	20	Oct	2020	0.8m	Threat	
KISIMACHANDE	1455z	20	Oct	2020	0.9m	Threat	
KIWAYU	1719z	20	Oct	2020	1.2m	Threat	
MVULENI	0653z	21	Oct	2020	0.7m	Threat	
MADAGASCAR							

VOHEMAR	1302z	20	Oct	2020	1.3m	Threat	
TAMPOLO	1555z	20	Oct	2020	0.8m	Threat	
AMBAHY	1556z	20	Oct	2020	1.0m	Threat	
TOAMASINA AIRPORT	1645z	20	Oct	2020	0.8m	Threat	
MANANTENINA	1750z	20	Oct	2020	0.7m	Threat	
BALY	2018z	20	Oct	2020	0.5m	Threat	
ANOROTSANGANA	2351z	20	Oct	2020	0.7m	Threat	
GLORIOSO ISLANDS	2357z	20	Oct	2020	0.6m	Threat	
MALDIVES							

GOIDHOO	0927z	20	Oct	2020	1.7m	Threat	
KULHUDUFFUSHI	0929z	20	Oct	2020	1.9m	Threat	
FERIDHOO	0948z	20	Oct	2020	1.2m	Threat	
NILANDHOO	0956z	20	Oct	2020	1.4m	Threat	
DHIYAMIGILI	1004z	20	Oct	2020	1.1m	Threat	
MALE	1010z	20	Oct	2020	2.2m	Threat	
THINADHOO	1020z	20	Oct	2020	1.6m	Threat	
HITHADHOO	1030z	20	Oct	2020	1.0m	Threat	Passed
KOLHUFUSHI	1035z	20	Oct	2020	0.9m	Threat	
MAURITIUS							

CARGADOS CARAJOS	1413z	20	Oct	2020	0.9m	Threat	
LA FERME	1414z	20	Oct	2020	0.6m	Threat	
MOZAMBIQUE							

MAGANJA	1632z	20	Oct	2020	1.1m	Threat	
MERONVI	1757z	20	Oct	2020	0.9m	Threat	
QUITERAJO	1902z	20	Oct	2020	0.7m	Threat	
TAVARI	1942z	20	Oct	2020	0.9m	Threat	
PEMBA	2333z	20	Oct	2020	0.5m	Threat	
OMAN							

QURAYYAT	0627z	20	Oct	2020	3.6m	Threat	
MUSCAT	0628z	20	Oct	2020	3.8m	Threat	
SUR	0631z	20	Oct	2020	3.4m	Threat	
BARKA	0645z	20	Oct	2020	2.4m	Threat	

AL ASHKHARAH	0649z	20	Oct	2020	3.2m	Threat	
AL KHABURAH	0654z	20	Oct	2020	1.4m	Threat	
SOHAR	0702z	20	Oct	2020	2.0m	Threat	
MASIRAH	0702z	20	Oct	2020	1.7m	Threat	
RAS AR RUWAYS	0710z	20	Oct	2020	3.1m	Threat	
AD DUQM	0730z	20	Oct	2020	2.6m	Threat	
EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat	
HASIK	0806z	20	Oct	2020	1.5m	Threat	
AL JAZER	0813z	20	Oct	2020	1.2m	Threat	
MIRBAT	0818z	20	Oct	2020	0.5m	Threat	Passed
SALALAH	0828z	20	Oct	2020	1.7m	Threat	
TAQAH	1754z	20	Oct	2020	0.6m	Threat	
PAKISTAN							

ORMARA	0603z	20	Oct	2020	7.2m	Threat	
WINDER	0604z	20	Oct	2020	4.8m	Threat	
KARACHI	0704z	20	Oct	2020	3.2m	Threat	
SINDH	0724z	20	Oct	2020	2.6m	Threat	
SEYCHELLES							

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat	
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat	
SOMALIA							

TOOXIN	0927z	20	Oct	2020	1.5m	Threat	
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat	
QANDALA	0947z	20	Oct	2020	0.6m	Threat	
EYL	0950z	20	Oct	2020	0.8m	Threat	
ABO	0952z	20	Oct	2020	1.9m	Threat	
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat	
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat	
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat	
MAREEG	1050z	20	Oct	2020	1.0m	Threat	
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat	
SAYLAC	1118z	20	Oct	2020	0.6m	Threat	
BAKI	1124z	20	Oct	2020	0.6m	Threat	
LOYADO	1124z	20	Oct	2020	0.8m	Threat	
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat	
JARIIBAN	1605z	20	Oct	2020	0.8m	Threat	
MAYDH	1923z	20	Oct	2020	0.7m	Threat	
BARAAWE	1942z	20	Oct	2020	0.9m	Threat	
JILIB	2005z	20	Oct	2020	0.5m	Threat	
ITALA	2024z	20	Oct	2020	0.8m	Threat	
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat	
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat	
SRI LANKA							

COLOMBO	1109z	20	Oct	2020	0.6m	Threat	
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat	
MATARA	1142z	20	Oct	2020	0.7m	Threat	
GALLE	1156z	20	Oct	2020	0.8m	Threat	
MORATUWA	1747z	20	Oct	2020	0.7m	Threat	
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat	
KIRINDA	1753z	20	Oct	2020	0.8m	Threat	
BERUWALA	1839z	20	Oct	2020	0.5m	Threat	
TANZANIA							

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat	
RUVU	1646z	20	Oct	2020	0.7m	Threat	
JIMBO	1649z	20	Oct	2020	0.8m	Threat	
MADANGWA	1829z	20	Oct	2020	0.6m	Threat	
MSASANI	1840z	20	Oct	2020	0.8m	Threat	
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat	

ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat
VUMBA	2205z	20	Oct	2020	0.6m	Threat
KUTANI	2314z	20	Oct	2020	0.7m	Threat
VUMBI	0441z	21	Oct	2020	0.5m	Threat
UNITED ARAB EMIRATES						

KALBA	0717z	20	Oct	2020	1.7m	Threat
UNITED KINGDOM						

MORESBY ISLAND	1100z	20	Oct	2020	0.8m	Threat
NW EGMONT ISLAND	1116z	20	Oct	2020	0.7m	Threat
DIEGO GARCIA	1142z	20	Oct	2020	1.6m	Threat
YEMEN						

DAMQAWT	0835z	20	Oct	2020	0.9m	Threat
SOCOTRA ISLAND SOUTH	0847z	20	Oct	2020	1.7m	Threat
AL GHAYDAH AIRPORT	0848z	20	Oct	2020	1.9m	Threat
SOCOTRA ISLAND NORTH	0850z	20	Oct	2020	1.1m	Threat
HUSWAYN	0903z	20	Oct	2020	1.4m	Threat
ALQUMRAH	0912z	20	Oct	2020	1.1m	Threat
SOCOTRA ISLAND WEST	0913z	20	Oct	2020	0.6m	Threat
MASILAH WADI	0920z	20	Oct	2020	1.1m	Threat
HARRAH	0923z	20	Oct	2020	1.3m	Threat
EAST TO HAMI	0929z	20	Oct	2020	1.2m	Threat
HAMI	0936z	20	Oct	2020	1.1m	Threat
AL MUKALLA	0954z	20	Oct	2020	1.2m	Threat
RUDUM	1002z	20	Oct	2020	0.8m	Threat
KHANFAR	1044z	20	Oct	2020	1.3m	Threat
ADEN	1054z	20	Oct	2020	0.8m	Threat
MAALLAH	1103z	20	Oct	2020	1.7m	Threat
QAWAH	1120z	20	Oct	2020	0.7m	Threat
BROM MAYFA	1144z	20	Oct	2020	0.8m	Threat
AL MUALLA	1152z	20	Oct	2020	0.8m	Threat
AHWAR	1912z	20	Oct	2020	0.6m	Threat

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.in

END OF BULLETIN

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 14

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# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 14 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1700 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600UTC
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST 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	0612z	20 Oct 2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct 2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct 2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct 2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct 2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct 2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct 2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct 2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct 2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct 2020	1.71m
Cochin (INDIA)	9.97 N	76.27 E	1026z	20 Oct 2020	1.38m
Gan (MALDIVE ISLANDS)	0.69 S	73.15 E	1033z	20 Oct 2020	0.73m
Aden (YEMEN)	12.7 N	44.98 E	1102z	20 Oct 2020	0.88m
Colombo (SRILANKA)	6.95 N	79.85 E	1110z	20 Oct 2020	0.33m
Pt. LaRue (SEYCHELLES)	4.67 S	55.53 E	1152z	20 Oct 2020	0.94m
Lamu (KENYA)	2.27 S	40.90 E	1214z	20 Oct 2020	0.46m
Dzaoudzi (FRANCE)	12.7 S	45.26 E	1232z	20 Oct 2020	0.19m
Pemba (MOCAMBIQUE)	12.9 S	40.49 E	1308z	20 Oct 2020	0.24m
Blue Bay (MAURITIUS)	20.4 S	57.71 E	1342z	20 Oct 2020	0.27m
Rodrigue (MAURITIUS)	19.6 S	63.42 E	1408z	20 Oct 2020	0.61m
Visakhapatnam (INDIA)	17.6 N	83.28 E	1422z	20 Oct 2020	0.11m
seblat (INDONESIA)	3.22 S	101.60 E	1444z	20 Oct 2020	0.20m
Enggano (INDONESIA)	5.35 S	102.28 E	1502z	20 Oct 2020	0.17m
Christmas Island (AUSTRALIA)	10.4 S	105.67 E	1524z	20 Oct 2020	0.13m
Sittwe (MYANMAR)	20.1 N	92.90 E	1544z	20 Oct 2020	0.19m
Pangandaran (INDONESIA)	7.75 S	108.50 E	1614z	20 Oct 2020	0.19m
Nancowry (INDIA)	8.05 N	93.55 E	1632z	20 Oct 2020	0.22m
Prigi (INDONESIA)	8.28 S	111.73 E	1638z	20 Oct 2020	0.15m

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.

AUSTRALIA

HEARD ISLAND AND MCDONALD ISLANDS 1954z 20 Oct 2020 0.7m Threat

COMOROS

CHEZANI 1335z 20 Oct 2020 0.7m Threat

DJIBOUTI

NW ARTA 1127z 20 Oct 2020 1.6m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1131z 20 Oct 2020 0.8m Threat

FRANCE

ILE KERGUELEN 1854z 20 Oct 2020 1.4m Threat

INDIA

MANDVI 0804z 20 Oct 2020 2.7m Threat
DWARKA 0808z 20 Oct 2020 2.0m Threat
PORBANDAR 0809z 20 Oct 2020 1.8m Threat
JAMNAGAR 0811z 20 Oct 2020 1.7m Threat
MANGROL 0822z 20 Oct 2020 1.2m Threat
HAZIRA, DIU 0834z 20 Oct 2020 1.9m Threat
AGATTI 0856z 20 Oct 2020 2.0m Threat
AMINI 0903z 20 Oct 2020 1.2m Threat
KAVARATTI 0911z 20 Oct 2020 1.0m Threat
MALVAN BAY 0914z 20 Oct 2020 1.7m Threat
PANAJI 0922z 20 Oct 2020 1.6m Threat
VASCO 0924z 20 Oct 2020 1.2m Threat
JAIGARH 0924z 20 Oct 2020 1.7m Threat
KARWAR 0933z 20 Oct 2020 1.8m Threat
ANDROTH 0948z 20 Oct 2020 0.8m Threat Passed
MANGALORE 0955z 20 Oct 2020 1.5m Threat
KASARAGOD 0956z 20 Oct 2020 1.4m Threat
ALIBAG PORT 0956z 20 Oct 2020 1.4m Threat
UDUPI 0957z 20 Oct 2020 1.8m Threat
MAHE 1000z 20 Oct 2020 1.2m Threat
ALLEPPEY ALAPPUZHA 1005z 20 Oct 2020 1.3m Threat
KANNUR 1005z 20 Oct 2020 1.1m Threat
MUMBAI 1006z 20 Oct 2020 1.4m Threat
VADANAPPALLY 1008z 20 Oct 2020 1.3m Threat
TARAPUR 1011z 20 Oct 2020 1.4m Threat
VAKKAD 1011z 20 Oct 2020 1.2m Threat
BEYPORE 1013z 20 Oct 2020 1.3m Threat
PIPAVAV 1014z 20 Oct 2020 1.3m Threat
COCHIN 1014z 20 Oct 2020 1.3m Threat
QUILON 1016z 20 Oct 2020 1.1m Threat
MAHUVA 1020z 20 Oct 2020 1.5m Threat
KHAMBAT 1025z 20 Oct 2020 1.4m Threat
TRIVANDRUM 1026z 20 Oct 2020 1.2m Threat
KANYAKUMARI 1037z 20 Oct 2020 1.4m Threat
BHARUCH 1050z 20 Oct 2020 1.7m Threat
BORSI 1059z 20 Oct 2020 1.7m Threat
HAZIRA 1059z 20 Oct 2020 1.5m Threat
DAMAN 1103z 20 Oct 2020 1.5m Threat
KODANKULAM 1112z 20 Oct 2020 1.2m Threat
TUTICORIN 1152z 20 Oct 2020 1.3m Threat
RAMESWARAM 1426z 20 Oct 2020 0.7m Threat
KOTTAIPPATTANAM 0408z 21 Oct 2020 0.6m Threat

INDONESIA

SUMUT NIAS B	1918z	20	Oct	2020	0.6m	Threat
SUMBAR KEPULAUAN-MENTAWAI KEP.PAGAI	2046z	20	Oct	2020	0.6m	Threat
NAD NAGAN-RAYA	0029z	21	Oct	2020	0.5m	Threat
SUMBAR KEPULAUAN-MENTAWAI P.SIBERUT	0130z	21	Oct	2020	0.5m	Threat
MUARASIBERUT	0328z	21	Oct	2020	0.7m	Threat
SUMBAR KOTA-PADANG U	0339z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN KALIANDA	0351z	21	Oct	2020	0.6m	Threat
NIAS	0411z	21	Oct	2020	0.5m	Threat
NIAS-EAST	0412z	21	Oct	2020	0.6m	Threat
LAMPUNG LAMPUNG-SELATAN BAKAUHENI	0605z	21	Oct	2020	0.5m	Threat
BANTEN PANDEGLANG U	0617z	21	Oct	2020	0.5m	Threat

IRAN

PUSHT	0604z	20	Oct	2020	7.1m	Threat
BIR	0632z	20	Oct	2020	3.3m	Threat
MISKI	0747z	20	Oct	2020	1.9m	Threat

KENYA

MALINDI	1433z	20	Oct	2020	1.5m	Threat
KIPINI	1434z	20	Oct	2020	0.8m	Threat
KISIMACHANDE	1455z	20	Oct	2020	0.9m	Threat
KIWAYU	1719z	20	Oct	2020	1.2m	Threat
MVULENI	0653z	21	Oct	2020	0.7m	Threat

MADAGASCAR

VOHEMAR	1302z	20	Oct	2020	1.3m	Threat
TAMPOLO	1555z	20	Oct	2020	0.8m	Threat
AMBAHY	1556z	20	Oct	2020	1.0m	Threat
TOAMASINA AIRPORT	1645z	20	Oct	2020	0.8m	Threat
MANANTENINA	1750z	20	Oct	2020	0.7m	Threat
BALY	2018z	20	Oct	2020	0.5m	Threat
ANOROTSANGANA	2351z	20	Oct	2020	0.7m	Threat
GLORIOSO ISLANDS	2357z	20	Oct	2020	0.6m	Threat

MALDIVES

GOIDHOO	0927z	20	Oct	2020	1.7m	Threat
KULHUDUFFUSHI	0929z	20	Oct	2020	1.9m	Threat
FERIDHOO	0948z	20	Oct	2020	1.2m	Threat
NILANDHOO	0956z	20	Oct	2020	1.4m	Threat
DHIYAMIGILI	1004z	20	Oct	2020	1.1m	Threat
MALE	1010z	20	Oct	2020	2.2m	Threat
THINADHOO	1020z	20	Oct	2020	1.6m	Threat
HITHADHOO	1030z	20	Oct	2020	1.0m	Threat Passed
KOLHUFUSHI	1035z	20	Oct	2020	0.9m	Threat

MAURITIUS

CARGADOS CARAJOS	1413z	20	Oct	2020	0.9m	Threat
LA FERME	1414z	20	Oct	2020	0.6m	Threat

MOZAMBIQUE

MAGANJA	1632z	20	Oct	2020	1.1m	Threat
MERONVI	1757z	20	Oct	2020	0.9m	Threat
QUITERAJO	1902z	20	Oct	2020	0.7m	Threat
TAVARI	1942z	20	Oct	2020	0.9m	Threat
PEMBA	2333z	20	Oct	2020	0.5m	Threat

OMAN

QURAYYAT	0627z	20	Oct	2020	3.6m	Threat
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MUSCAT	0628z	20	Oct	2020	3.8m	Threat	
SUR	0631z	20	Oct	2020	3.4m	Threat	
BARKA	0645z	20	Oct	2020	2.4m	Threat	
AL ASHKHARAH	0649z	20	Oct	2020	3.2m	Threat	
AL KHABURAH	0654z	20	Oct	2020	1.4m	Threat	
SOHAR	0702z	20	Oct	2020	2.0m	Threat	
MASIRAH	0702z	20	Oct	2020	1.7m	Threat	
RAS AR RUWAYS	0710z	20	Oct	2020	3.1m	Threat	
AD DUQM	0730z	20	Oct	2020	2.6m	Threat	
EAST MUSANDAM	0742z	20	Oct	2020	2.7m	Threat	
HASIK	0806z	20	Oct	2020	1.5m	Threat	
AL JAZER	0813z	20	Oct	2020	1.2m	Threat	
MIRBAT	0818z	20	Oct	2020	0.5m	Threat	Passed
SALALAH	0828z	20	Oct	2020	1.7m	Threat	
TAQAH	1754z	20	Oct	2020	0.6m	Threat	
PAKISTAN							

ORMARA	0603z	20	Oct	2020	7.2m	Threat	
WINDER	0604z	20	Oct	2020	4.8m	Threat	
KARACHI	0704z	20	Oct	2020	3.2m	Threat	
SINDH	0724z	20	Oct	2020	2.6m	Threat	
SEYCHELLES							

FREGATE ISLAND	1050z	20	Oct	2020	1.2m	Threat	
TAKAMAKA	1146z	20	Oct	2020	1.1m	Threat	
SOMALIA							

TOOXIN	0927z	20	Oct	2020	1.5m	Threat	
BANDER-BEYLA	0935z	20	Oct	2020	1.2m	Threat	
QANDALA	0947z	20	Oct	2020	0.6m	Threat	
EYL	0950z	20	Oct	2020	0.8m	Threat	
ABO	0952z	20	Oct	2020	1.9m	Threat	
GALDOGOB	1005z	20	Oct	2020	1.1m	Threat	
XARARDHEERE	1031z	20	Oct	2020	1.2m	Threat	
CEEL DHEER	1045z	20	Oct	2020	1.3m	Threat	
MAREEG	1050z	20	Oct	2020	1.0m	Threat	
MUQDISHO	1101z	20	Oct	2020	0.7m	Threat	
SAYLAC	1118z	20	Oct	2020	0.6m	Threat	
BAKI	1124z	20	Oct	2020	0.6m	Threat	
LOYADO	1124z	20	Oct	2020	0.8m	Threat	
NE BEERNAASI	1514z	20	Oct	2020	1.2m	Threat	
JARIIBAN	1605z	20	Oct	2020	0.8m	Threat	
MAYDH	1923z	20	Oct	2020	0.7m	Threat	
BARAAWE	1942z	20	Oct	2020	0.9m	Threat	
JILIB	2005z	20	Oct	2020	0.5m	Threat	
ITALA	2024z	20	Oct	2020	0.8m	Threat	
UARSCIECH	2025z	20	Oct	2020	0.6m	Threat	
KAAMBOONI	0031z	21	Oct	2020	0.6m	Threat	
SRI LANKA							

COLOMBO	1109z	20	Oct	2020	0.6m	Threat	
AMBALANGODA	1118z	20	Oct	2020	0.7m	Threat	
MATARA	1142z	20	Oct	2020	0.7m	Threat	
GALLE	1156z	20	Oct	2020	0.8m	Threat	
MORATUWA	1747z	20	Oct	2020	0.7m	Threat	
HAMBANTOTA	1748z	20	Oct	2020	0.7m	Threat	
KIRINDA	1753z	20	Oct	2020	0.8m	Threat	
BERUWALA	1839z	20	Oct	2020	0.5m	Threat	
TANZANIA							

BAGAMOYO	1508z	20	Oct	2020	0.8m	Threat	
RUVU	1646z	20	Oct	2020	0.7m	Threat	
JIMBO	1649z	20	Oct	2020	0.8m	Threat	

MADANGWA	1829z	20	Oct	2020	0.6m	Threat
MSASANI	1840z	20	Oct	2020	0.8m	Threat
SONGO SONGO ISLAND	2101z	20	Oct	2020	0.6m	Threat
ZANZIBAR	2135z	20	Oct	2020	0.8m	Threat
WEST TO KONDE	2147z	20	Oct	2020	0.6m	Threat
VUMBA	2205z	20	Oct	2020	0.6m	Threat
KUTANI	2314z	20	Oct	2020	0.7m	Threat
VUMBI	0441z	21	Oct	2020	0.5m	Threat
UNITED ARAB EMIRATES						

KALBA	0717z	20	Oct	2020	1.7m	Threat
UNITED KINGDOM						

MORESBY ISLAND	1100z	20	Oct	2020	0.8m	Threat
NW EGMONT ISLAND	1116z	20	Oct	2020	0.7m	Threat
DIEGO GARCIA	1142z	20	Oct	2020	1.6m	Threat
YEMEN						

DAMQAWT	0835z	20	Oct	2020	0.9m	Threat
SOCOTRA ISLAND SOUTH	0847z	20	Oct	2020	1.7m	Threat
AL GHAYDAH AIRPORT	0848z	20	Oct	2020	1.9m	Threat
SOCOTRA ISLAND NORTH	0850z	20	Oct	2020	1.1m	Threat
HUSWAYN	0903z	20	Oct	2020	1.4m	Threat
ALQUMRAH	0912z	20	Oct	2020	1.1m	Threat
SOCOTRA ISLAND WEST	0913z	20	Oct	2020	0.6m	Threat
MASILAH WADI	0920z	20	Oct	2020	1.1m	Threat
HARRAH	0923z	20	Oct	2020	1.3m	Threat
EAST TO HAMI	0929z	20	Oct	2020	1.2m	Threat
HAMI	0936z	20	Oct	2020	1.1m	Threat
AL MUKALLA	0954z	20	Oct	2020	1.2m	Threat
RUDUM	1002z	20	Oct	2020	0.8m	Threat
KHANFAR	1044z	20	Oct	2020	1.3m	Threat
ADEN	1054z	20	Oct	2020	0.8m	Threat
MAALLAH	1103z	20	Oct	2020	1.7m	Threat
QAWAH	1120z	20	Oct	2020	0.7m	Threat
BROM MAYFA	1144z	20	Oct	2020	0.8m	Threat
AL MUALLA	1152z	20	Oct	2020	0.8m	Threat
AHWAR	1912z	20	Oct	2020	0.6m	Threat

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.in

END OF BULLETIN

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 15

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# IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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TSUNAMI BULLETIN NUMBER 15 (TYPE-IV FINAL BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWS)
ISSUED AT 1800 UTC Tuesday 20 October 2020

... 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: 9.0 M
Depth: 10 km
Date: 20 OCT 2020
Origin Time: 0600
Latitude: 24.8 N
Longitude: 62.2 E
Location: OFF COST OF PAKISTAN

2. EVALUATION

Data from sea-level gauges confirmed that a minor tsunami was generated. The expected period of significant tsunami waves is now over for all threatened. 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	0612z	20 Oct	2020	6.75m
Muscat (OMAN)	23.6 N	58.57 E	0622z	20 Oct	2020	6.07m
STB02 (INDIA)	25.8 N	65.34 E	0653z	20 Oct	2020	2.21m
TB12 (INDIA)	21.4 N	64.10 E	0657z	20 Oct	2020	1.84m
Karachi (PAKISTAN)	24.8 N	66.97 E	0724z	20 Oct	2020	3.14m
Masirah (OMAN)	20.6 N	58.87 E	0726z	20 Oct	2020	1.91m
Salalah (OMAN)	16.9 N	54.01 E	0834z	20 Oct	2020	0.85m
Minicoy (INDIA)	8.28 N	73.05 E	0931z	20 Oct	2020	0.41m
Hanimaadhoo (MALDIVE ISLANDS)	6.77 N	73.17 E	0942z	20 Oct	2020	0.57m
Marmagao (INDIA)	15.4 N	73.80 E	0942z	20 Oct	2020	1.71m
Cochin (INDIA)	9.97 N	76.27 E	1026z	20 Oct	2020	1.38m
Gan (MALDIVE ISLANDS)	0.69 S	73.15 E	1033z	20 Oct	2020	0.73m
Aden (YEMEN)	12.7 N	44.98 E	1102z	20 Oct	2020	0.88m
Colombo (SRILANKA)	6.95 N	79.85 E	1110z	20 Oct	2020	0.33m
Pt. LaRue (SEYCHELLES)	4.67 S	55.53 E	1152z	20 Oct	2020	0.94m
Lamu (KENYA)	2.27 S	40.90 E	1214z	20 Oct	2020	0.46m
Dzaoudzi (FRANCE)	12.7 S	45.26 E	1232z	20 Oct	2020	0.19m
Pemba (MOCAMBIQUE)	12.9 S	40.49 E	1308z	20 Oct	2020	0.24m
Blue Bay (MAURITIUS)	20.4 S	57.71 E	1342z	20 Oct	2020	0.27m
Rodrigue (MAURITIUS)	19.6 S	63.42 E	1408z	20 Oct	2020	0.61m
Visakhapatnam (INDIA)	17.6 N	83.28 E	1422z	20 Oct	2020	0.11m
seblat (INDONESIA)	3.22 S	101.60 E	1444z	20 Oct	2020	0.20m
Enggano (INDONESIA)	5.35 S	102.28 E	1502z	20 Oct	2020	0.17m
Christmas Island (AUSTRALIA)	10.4 S	105.67 E	1524z	20 Oct	2020	0.13m

Sittwe (MYANMAR)	20.1 N	92.90 E	1544z	20 Oct 2020	0.19m
Pangandaran (INDONESIA)	7.75 S	108.50 E	1614z	20 Oct 2020	0.19m
Nancowry (INDIA)	8.05 N	93.55 E	1632z	20 Oct 2020	0.22m
Priigi (INDONESIA)	8.28 S	111.73 E	1638z	20 Oct 2020	0.15m
Point Murat (AUSTRALIA)	21.8 S	114.19 E	1730z	20 Oct 2020	0.30m
Waikelo (INDONESIA)	9.39 S	119.22 E	1751z	20 Oct 2020	0.13m

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. 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 END OF BULLETIN

IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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5. TSP INDONESIA MAPS

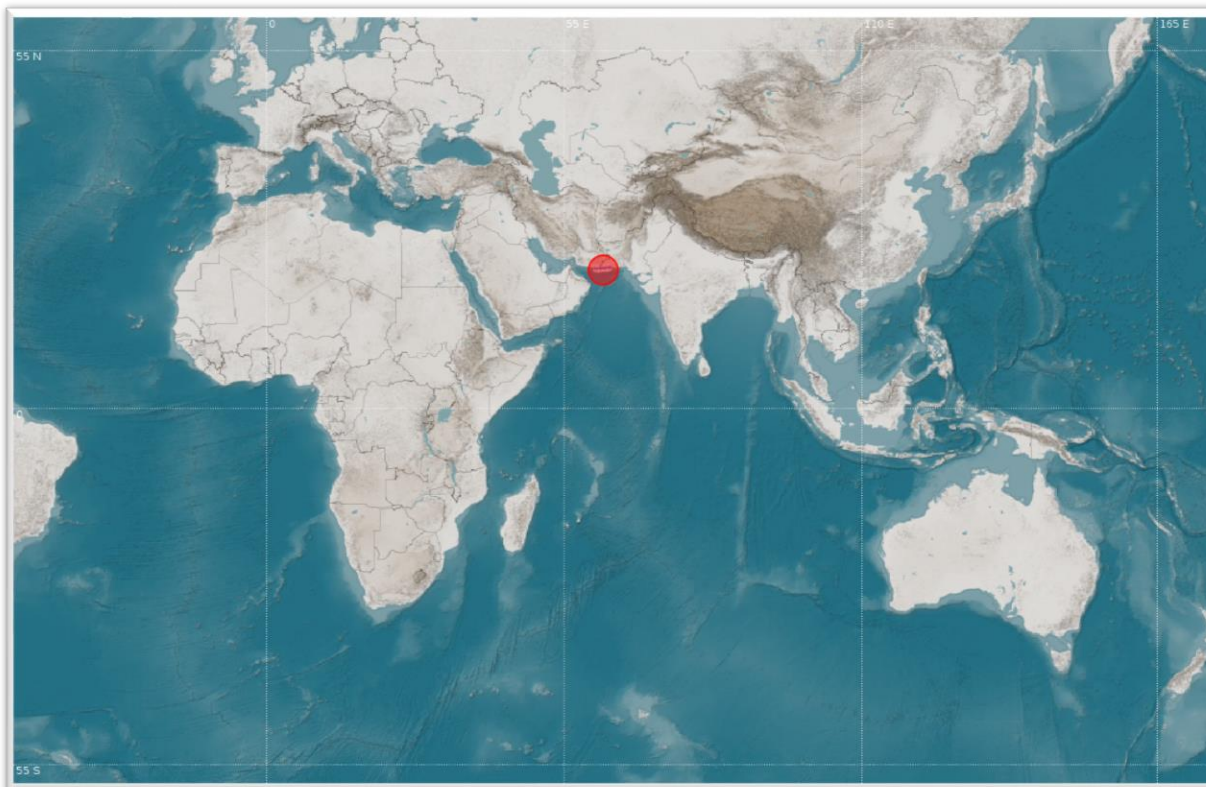


Figure S3-17. Location Map

M 8.5

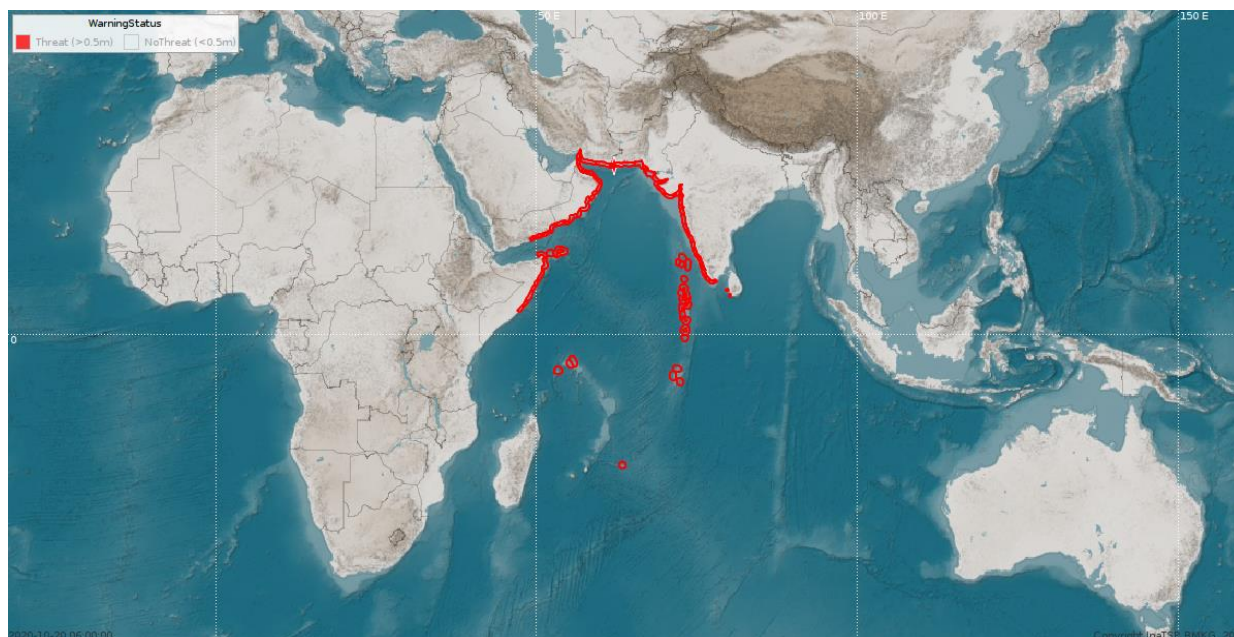


Figure S3-18. Threat Map

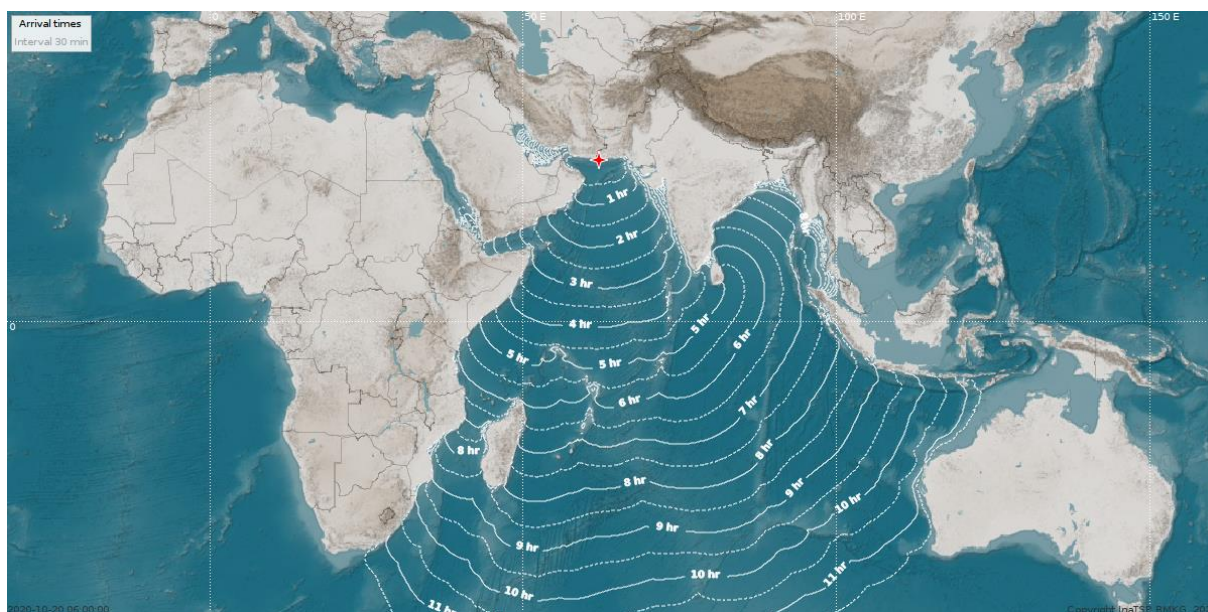


Figure S3-19. Travel Time Map

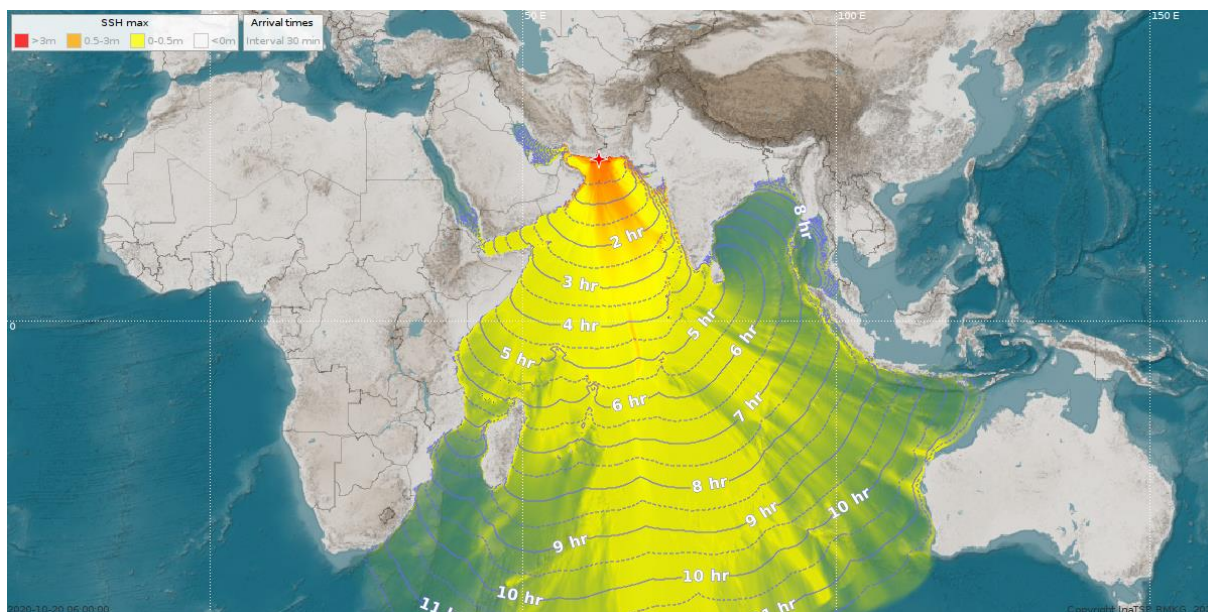


Figure S3-20. Wave Amplitude Map

M 8.8

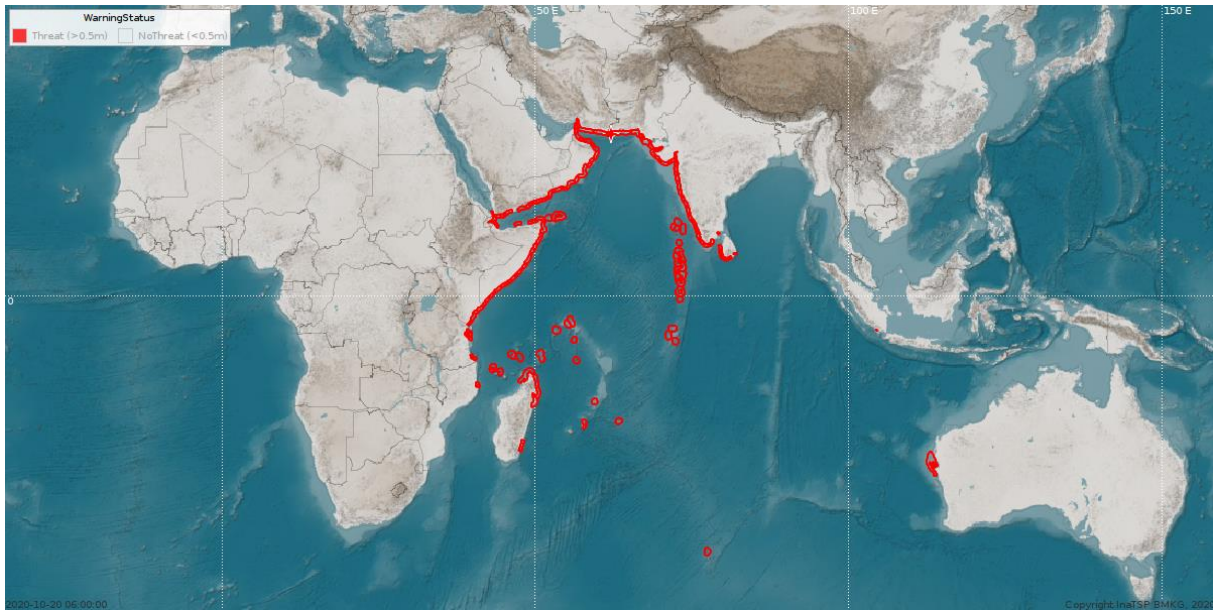


Figure S3-21. Threat Map

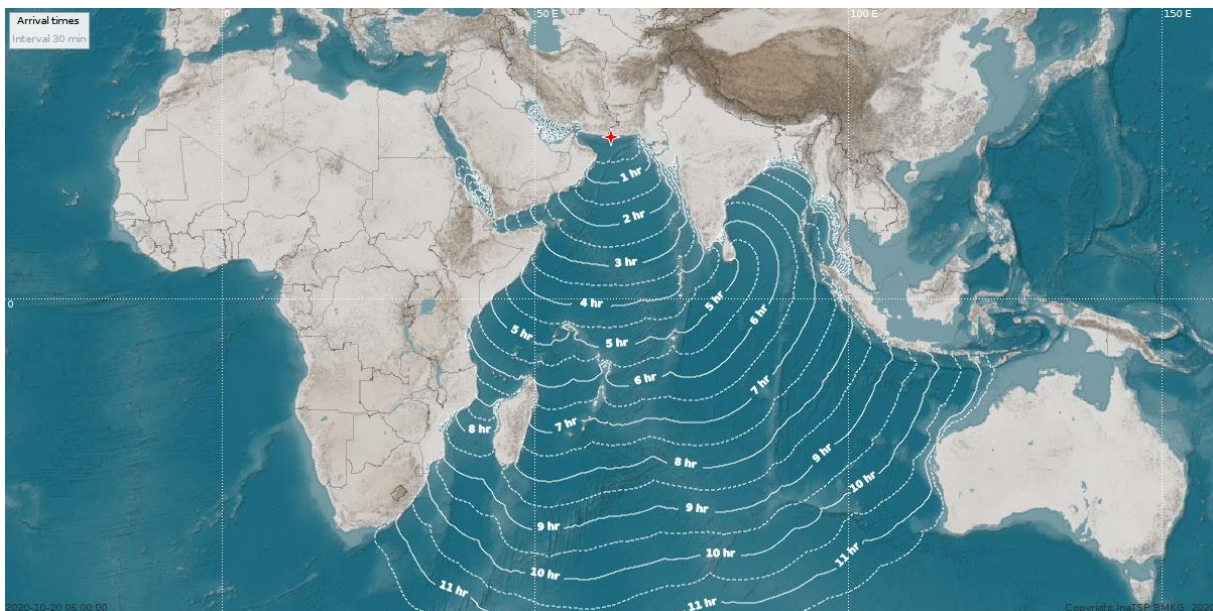


Figure S3-22. Travel Time Map

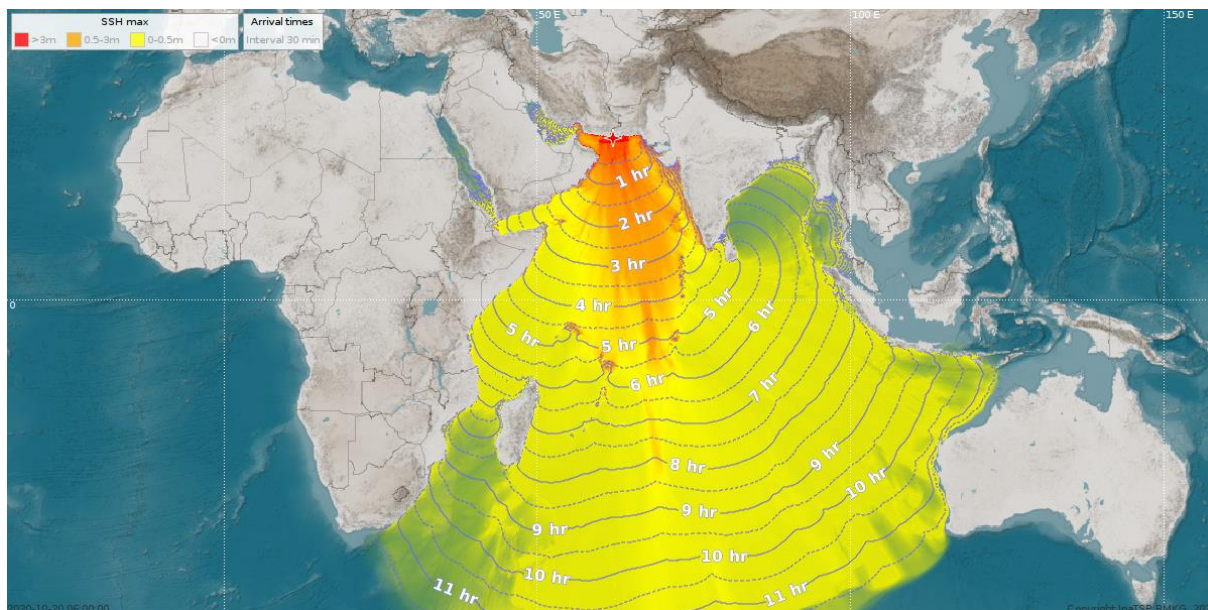


Figure S3-23. Wave Amplitude Map

M 9.0

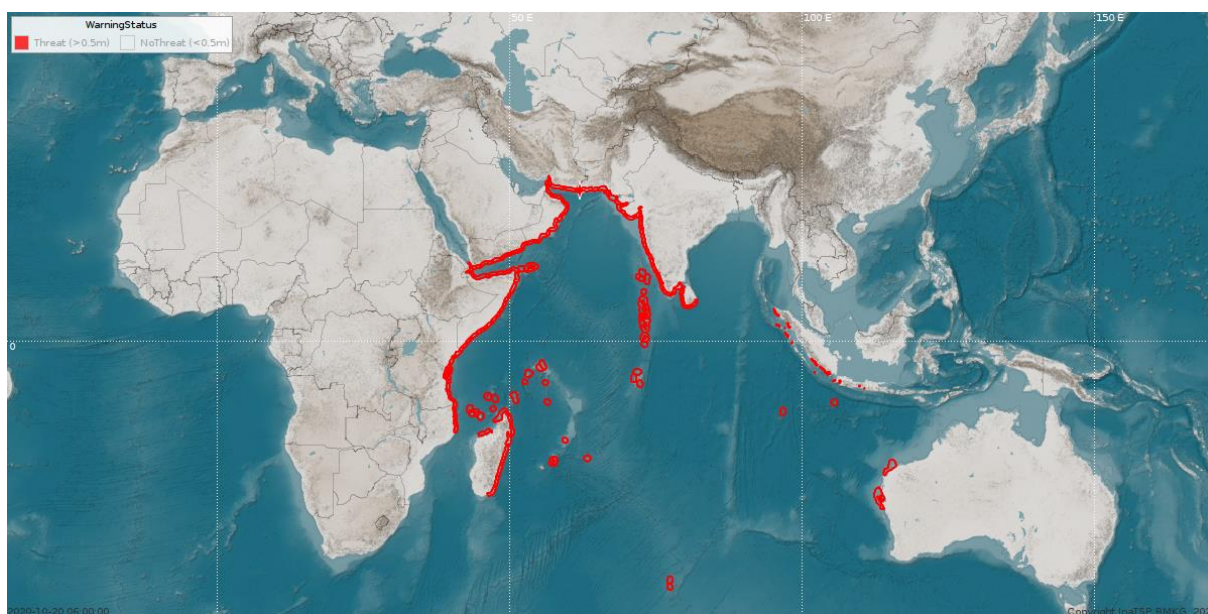


Figure S3-24. Threat Map

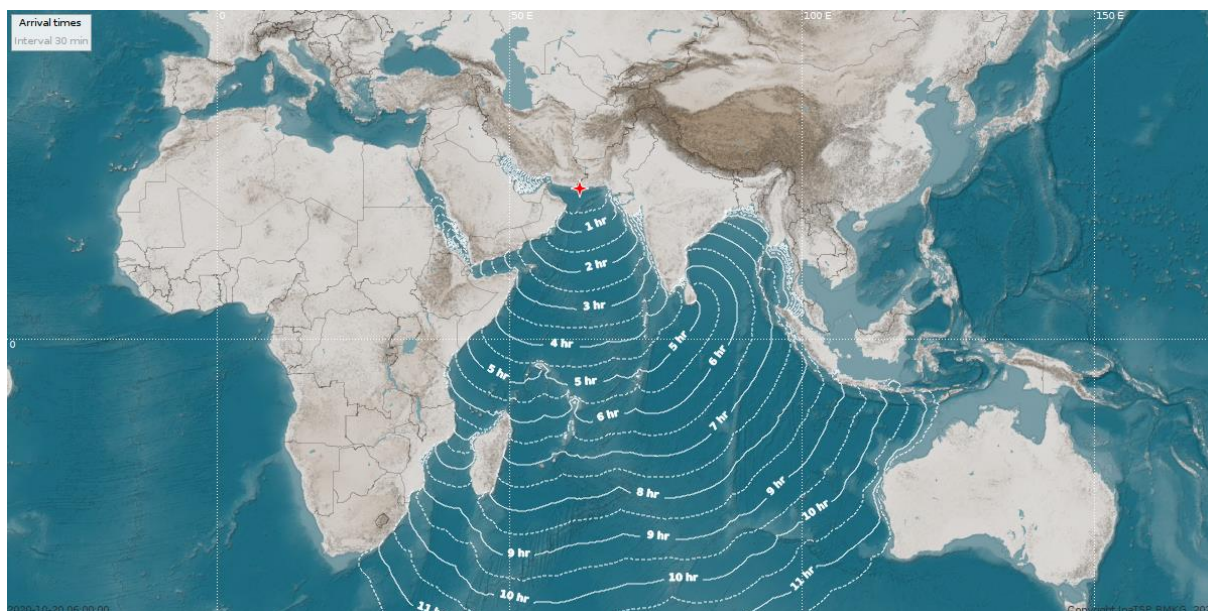


Figure S3-25. Travel Time Map

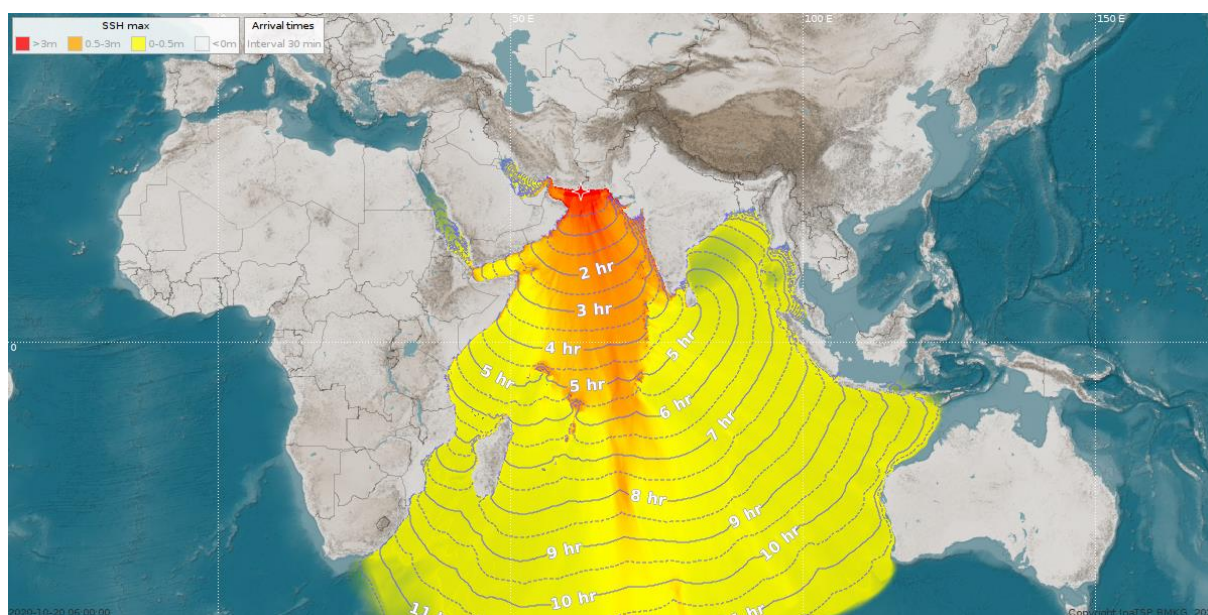


Figure S3-26. Wave Amplitude Map

6. TSP INDONESIA BULLETINS

BULLETIN 1

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -001

TSUNAMI BULLETIN NUMBER 1 (TYPE-I EARTHQUAKE BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 0608 UTC Tuesday 20 October 2020

... 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 INDONESIA has detected an earthquake with the following preliminary information:

Magnitude : 8.5 Mwp
Depth : 10km
Date : 20 Oct 2020
Origin Time: 06:00:00 UTC
Latitude : 24.80N
Longitude : 62.20E
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 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://rtsp.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 IOTWMS-TSPs may issue additional information at:

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

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

5. CONTACT INFORMATION

IOTWMS-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>

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

BULLETIN 2

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -002

TSUNAMI BULLETIN NUMBER 2 (TYPE-II THREAT ASSESSMENT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 0613 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 8.8 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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

GASCOYNE COAST 17:40z 20Oct2020 0.51m

COMOROS

BAMBAAO	12:19z	20Oct2020	0.60m
CHEZANI	13:33z	20Oct2020	0.64m

DJIBOUTI

NW ARTA	11:12z	20Oct2020	0.97m
MUHAMMAD ALI BIN FATHA SUMANA	11:20z	20Oct2020	0.66m

FRANCE

ILE SAINT-PAUL-NORTH	16:26z	20Oct2020	0.72m
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INDIA

MANDVI	07:52z	20Oct2020	2.40m
DWARKA	08:06z	20Oct2020	1.96m
JAMNAGAR	08:09z	20Oct2020	1.47m
PORBANDAR	08:11z	20Oct2020	1.53m
MANGROL	08:17z	20Oct2020	2.00m
HAZIRA, DIU	08:43z	20Oct2020	1.52m
AGATTI	08:54z	20Oct2020	2.32m
KAVARATTI	08:59z	20Oct2020	1.21m
AMINI	09:03z	20Oct2020	2.89m
MALVAN BAY	09:09z	20Oct2020	1.64m
PANAJI	09:13z	20Oct2020	1.89m
MINICOY	09:14z	20Oct2020	1.58m
ANDROTH	09:18z	20Oct2020	2.06m
JAIGARH	09:23z	20Oct2020	1.67m
VASCO	09:25z	20Oct2020	1.85m
KARWAR	09:42z	20Oct2020	1.70m
MANGALORE	09:50z	20Oct2020	1.70m
KASARAGOD	09:50z	20Oct2020	1.53m
UDUPI	09:51z	20Oct2020	1.65m
ALIBAG PORT	09:55z	20Oct2020	1.69m
MUMBAI	09:57z	20Oct2020	2.28m
PIPAVAV	09:57z	20Oct2020	2.19m
ALLEPPEY ALAPPUZHA	09:58z	20Oct2020	1.69m
MAHE	09:59z	20Oct2020	1.51m
MAHUVA	10:00z	20Oct2020	2.19m
KHAMBAT	10:05z	20Oct2020	2.05m
QUILON	10:05z	20Oct2020	1.56m
VADANAPPALLY	10:06z	20Oct2020	1.62m
VAKKAD	10:06z	20Oct2020	1.71m
KANNUR	10:06z	20Oct2020	1.33m
BEYPORE	10:09z	20Oct2020	1.67m
COCHIN	10:11z	20Oct2020	1.48m
BHARUCH	10:12z	20Oct2020	1.56m
HAZIRA	10:20z	20Oct2020	1.61m
TRIVANDRUM	10:20z	20Oct2020	1.22m
BORSI	10:25z	20Oct2020	1.52m
TARAPUR	10:39z	20Oct2020	1.62m
DAMAN	10:45z	20Oct2020	1.61m
KANYAKUMARI	11:02z	20Oct2020	1.29m
KOODANKULAM	11:06z	20Oct2020	1.52m
TUTICORIN	13:42z	20Oct2020	0.65m
KOTTTAIPPATTANAM	15:18z	20Oct2020	0.58m

INDONESIA

NAD ACEH-BESAR PULAU PENAS	15:35z	20Oct2020	0.53m
LAMPUNG TANGGAMUS BAGIAN BARAT	17:15z	20Oct2020	0.54m

IRAN

PUSHT	06:10z	20Oct2020	10.57m
BIR	06:37z	20Oct2020	4.67m
MISKI	07:28z	20Oct2020	2.99m

KENYA

TAKAUNGU	12:16z	20Oct2020	0.53m
KISIMACHANDE	12:19z	20Oct2020	0.57m
KIWAYU	13:58z	20Oct2020	0.63m
KIPI NI	16:37z	20Oct2020	0.59m
MALINDI	17:04z	20Oct2020	0.69m

MADAGASCAR

ANOROTSANGANA	12:47z	20Oct2020	0.66m
VOHEMAR	13:53z	20Oct2020	0.74m
FARAFAGANA	14:55z	20Oct2020	0.59m
TAMPOLO	15:39z	20Oct2020	0.78m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.28m
GOIDHOO	09:38z	20Oct2020	1.99m
FERIDHOO	09:50z	20Oct2020	2.37m
NILANDHOO	09:54z	20Oct2020	1.87m
DHIYAMIGILI	09:56z	20Oct2020	1.23m
MALE	10:06z	20Oct2020	1.04m
THINADHOO	10:11z	20Oct2020	1.84m
KOLHUFUSHI	10:26z	20Oct2020	0.88m
HITHADHOO	10:29z	20Oct2020	1.64m

MAURITIUS

AGALEGA ISLAND	11:47z	20Oct2020	0.79m
CARGADOS CARAJOS	13:41z	20Oct2020	0.80m
LA FERME	14:02z	20Oct2020	1.61m
GRANDE REVIERE SUD EST-EAST	14:34z	20Oct2020	0.77m

MOZAMBIQUE

MINHAUINE	13:09z	20Oct2020	0.86m
NANGATA	13:09z	20Oct2020	0.53m

OMAN

QURAYYAT	06:18z	20Oct2020	4.88m
SUR	06:23z	20Oct2020	6.86m
BARKA	06:29z	20Oct2020	2.71m
MUSCAT	06:31z	20Oct2020	4.16m
AL ASHKHARAH	06:32z	20Oct2020	5.26m
AL KHABURAH	06:35z	20Oct2020	3.36m
SOHAR	06:49z	20Oct2020	2.85m
RAS AR RUWAYS	06:57z	20Oct2020	3.33m
MASIRAH	07:07z	20Oct2020	2.62m
EAST MUSANDAM	07:19z	20Oct2020	2.47m
AD DUQM	07:21z	20Oct2020	1.93m
HASIK	07:50z	20Oct2020	1.14m
AL JAZER	07:53z	20Oct2020	2.58m
MIRBAT	07:56z	20Oct2020	0.93m

TAQAH	08:05z	20Oct2020	1.18m
SALALAH	08:14z	20Oct2020	1.17m

PAKISTAN

ORMARA	06:00z	20Oct2020	7.05m
WINDER	06:29z	20Oct2020	3.56m
KARACHI	07:23z	20Oct2020	3.20m
SINDH	07:24z	20Oct2020	2.78m

SEYCHELLES

FREGATE ISLAND	10:35z	20Oct2020	1.41m
ILE DESROCHES	10:54z	20Oct2020	0.83m
TAKAMAKA	11:33z	20Oct2020	1.03m
ALDABRA	11:43z	20Oct2020	0.84m
FARQUHAR GROUP	12:34z	20Oct2020	0.51m
COETIVY ISLAND	14:04z	20Oct2020	0.69m

SOMALIA

ABO	09:17z	20Oct2020	1.34m
BANDER-BEYLA	09:27z	20Oct2020	1.18m
QANDALA	09:34z	20Oct2020	0.80m
TOOXIN	09:39z	20Oct2020	1.43m
HADAAFTIMO	09:43z	20Oct2020	0.56m
EYL	09:45z	20Oct2020	0.87m
MAYDH	09:57z	20Oct2020	0.59m
JARIIBAN	09:58z	20Oct2020	1.26m
GALDOGOB	09:58z	20Oct2020	1.12m
XARARDHEERE	10:18z	20Oct2020	1.17m
CEEL DHEER	10:30z	20Oct2020	1.00m
ITALA	10:39z	20Oct2020	0.69m
UARSCIECH	10:43z	20Oct2020	0.91m
MUQDISHO	10:53z	20Oct2020	0.74m
BEYNAX BARRE	11:00z	20Oct2020	0.94m
SAYLAC	11:02z	20Oct2020	0.81m
BARAAWE	11:07z	20Oct2020	0.62m
LOYADO	11:08z	20Oct2020	1.06m
KAAMBOONI	11:39z	20Oct2020	0.77m
MAREEG	12:19z	20Oct2020	0.62m
NE BEERNAASI	13:25z	20Oct2020	0.75m
JILIB	14:24z	20Oct2020	0.56m
TURDHO	14:24z	20Oct2020	0.73m

SRI LANKA

BERUWALA	10:54z	20Oct2020	0.81m
MORATUWA	10:55z	20Oct2020	0.95m
AMBALANGODA	11:15z	20Oct2020	0.91m
GALLE	11:34z	20Oct2020	1.05m
MATARA	11:38z	20Oct2020	0.68m
COLOMBO	11:59z	20Oct2020	0.69m
TANGALLE	12:54z	20Oct2020	0.58m
HAMBANTOTA	15:17z	20Oct2020	0.52m
NEGOMBO	16:19z	20Oct2020	0.60m
MUNDAL LAKE	17:12z	20Oct2020	0.58m
OKANDA	17:14z	20Oct2020	0.52m

TANZANIA

MADANGWA	12:38z	20Oct2020	0.71m
KUTANI	14:56z	20Oct2020	0.54m

MSASANI	16:12z	20Oct2020	0.60m
RUVU	16:50z	20Oct2020	0.53m
GAZIJA	17:25z	20Oct2020	0.53m
ZANZIBAR	17:42z	20Oct2020	0.51m

UNITED ARAB EMIRATES

KALBA	07:01z	20Oct2020	2.80m
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UNITED KINGDOM

MORESBY ISLAND	11:04z	20Oct2020	1.84m
NW EGMONT ISLAND	11:18z	20Oct2020	1.44m
DIEGO GARCIA	11:38z	20Oct2020	1.19m

YEMEN

SOCOTRA ISLAND SOUTH	08:21z	20Oct2020	1.57m
DAMQAWT	08:22z	20Oct2020	1.23m
SOCOTRA ISLAND NORTH	08:32z	20Oct2020	1.20m
AL GHAYDAH AIRPORT	08:41z	20Oct2020	1.67m
SOCOTRA ISLAND WEST	08:47z	20Oct2020	1.02m
HUSWAYN	08:57z	20Oct2020	1.63m
ALQUMRAH	08:57z	20Oct2020	1.35m
MASILAH WADI	09:06z	20Oct2020	1.33m
HARRAH	09:11z	20Oct2020	0.96m
EAST TO HAMI	09:19z	20Oct2020	0.98m
HAMI	09:28z	20Oct2020	1.25m
BROM MAYFA	09:33z	20Oct2020	0.80m
AL MUKALLA	09:41z	20Oct2020	1.18m
RUDUM	09:41z	20Oct2020	0.63m
KHANFAR	10:36z	20Oct2020	0.72m
ADEN	10:38z	20Oct2020	0.79m
QAWAH	11:04z	20Oct2020	0.70m
MAALLAH	11:06z	20Oct2020	0.68m
AL MUALLA	11:21z	20Oct2020	0.74m

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 INDONESIA for this event as more information becomes available.

Other TSPs may issue additional information at:

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

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

6. CONTACT INFORMATION

IOTWMS-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

monitrtwp@bmkg.go.id

BULLETIN 3

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -003

TSUNAMI BULLETIN NUMBER 3 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 0630 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m

DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISIMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m
BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m

MANANTENINA 16:08z 20Oct2020 0.76m

MALDIVES

KULHUDUFFUSHI 09:23z 20Oct2020 1.69m
 GOIDHOO 09:33z 20Oct2020 2.98m
 FERIDHOO 09:49z 20Oct2020 3.56m
 NILANDHOO 09:50z 20Oct2020 2.65m
 MALE 09:56z 20Oct2020 1.59m
 THINADHOO 10:10z 20Oct2020 2.46m
 DHIYAMIGILI 10:12z 20Oct2020 1.74m
 KOLHUFUSHI 10:14z 20Oct2020 1.31m
 HITHADHOO 10:24z 20Oct2020 2.44m

MAURITIUS

AGALEGA ISLAND 11:46z 20Oct2020 1.23m
 LA FERME 13:07z 20Oct2020 1.75m
 GRANDE REVIERE SUD EST-WEST 13:14z 20Oct2020 0.66m
 CARGADOS CARAJOS 13:18z 20Oct2020 1.08m
 GRANDE REVIERE SUD EST-EAST 13:31z 20Oct2020 0.87m

MOZAMBIQUE

MAGANJA 12:27z 20Oct2020 0.83m
 QUITERAJO 12:44z 20Oct2020 0.57m
 TAVARI 12:46z 20Oct2020 0.51m
 MERONVI 12:48z 20Oct2020 0.64m
 PEMBA 12:52z 20Oct2020 0.67m
 MECUFI 12:57z 20Oct2020 0.61m
 NANGATA 13:04z 20Oct2020 0.76m
 MINHAUINE 13:05z 20Oct2020 1.06m
 LURIO 13:06z 20Oct2020 0.56m
 LUMBO 13:17z 20Oct2020 0.53m

OMAN

MUSCAT 06:14z 20Oct2020 7.98m
 QURAYYAT 06:19z 20Oct2020 10.91m
 BARKA 06:21z 20Oct2020 5.23m
 SUR 06:22z 20Oct2020 13.45m
 AL KHABURAH 06:27z 20Oct2020 4.47m
 AL ASHKHARAH 06:38z 20Oct2020 7.34m
 SOHAR 06:40z 20Oct2020 4.87m
 MASIRAH 06:52z 20Oct2020 3.74m
 RAS AR RUWAYS 07:00z 20Oct2020 4.92m
 EAST MUSANDAM 07:09z 20Oct2020 4.51m
 AD DUQM 07:20z 20Oct2020 3.03m
 HASIK 07:50z 20Oct2020 1.91m
 AL JAZER 07:51z 20Oct2020 2.93m
 MIRBAT 07:54z 20Oct2020 1.45m
 TAQAH 08:03z 20Oct2020 1.45m
 SALALAH 08:12z 20Oct2020 1.58m

PAKISTAN

ORMARA 06:00z 20Oct2020 9.16m
 WINDER 06:00z 20Oct2020 5.61m
 SINDH 07:15z 20Oct2020 3.83m
 KARACHI 07:16z 20Oct2020 6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m

RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m
AHWAR	09:54z	20Oct2020	0.96m
KHANFAR	10:20z	20Oct2020	1.30m
MAALLAH	10:33z	20Oct2020	1.29m
ADEN	10:34z	20Oct2020	1.48m
QAWAH	10:54z	20Oct2020	1.37m
AL MUALLA	11:33z	20Oct2020	1.51m

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 INDONESIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

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

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

6. CONTACT INFORMATION

IOTWMS-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>

BULLETIN 4

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -004

TSUNAMI BULLETIN NUMBER 4 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 0700 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m

BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
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KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
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INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISIMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m
BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m

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TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m
MECUFI	12:57z	20Oct2020	0.61m
NANGATA	13:04z	20Oct2020	0.76m
MINHAUINE	13:05z	20Oct2020	1.06m
LURIO	13:06z	20Oct2020	0.56m
LUMBO	13:17z	20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m

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MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m
AHWAR	09:54z	20Oct2020	0.96m
KHANFAR	10:20z	20Oct2020	1.30m
MAALLAH	10:33z	20Oct2020	1.29m
ADEN	10:34z	20Oct2020	1.48m
QAWAH	10:54z	20Oct2020	1.37m
AL MUALLA	11:33z	20Oct2020	1.51m

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 INDONESIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

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

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

6. CONTACT INFORMATION

IOTWMS-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

BULLETIN 5

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -005

TSUNAMI BULLETIN NUMBER 5 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 0800 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m

BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISIMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m

BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m
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OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
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AL KHABURAH	06:27z	20Oct2020	4.47m
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SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
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HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m

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SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
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BOSASO	09:42z	20Oct2020	0.84m
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GALDOGOB	09:51z	20Oct2020	1.55m
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CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
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ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m
AHWAR	09:54z	20Oct2020	0.96m
KHANFAR	10:20z	20Oct2020	1.30m
MAALLAH	10:33z	20Oct2020	1.29m
ADEN	10:34z	20Oct2020	1.48m
QAWAH	10:54z	20Oct2020	1.37m
AL MUALLA	11:33z	20Oct2020	1.51m

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 INDONESIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

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

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

6. CONTACT INFORMATION

IOTWMS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

BULLETIN 6

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -006

TSUNAMI BULLETIN NUMBER 6 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 0900 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m

BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m

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BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m
MECUFI	12:57z	20Oct2020	0.61m
NANGATA	13:04z	20Oct2020	0.76m
MINHAUINE	13:05z	20Oct2020	1.06m
LURIO	13:06z	20Oct2020	0.56m
LUMBO	13:17z	20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m

SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
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ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m
AHWAR	09:54z	20Oct2020	0.96m
KHANFAR	10:20z	20Oct2020	1.30m
MAALLAH	10:33z	20Oct2020	1.29m
ADEN	10:34z	20Oct2020	1.48m
QAWAH	10:54z	20Oct2020	1.37m
AL MUALLA	11:33z	20Oct2020	1.51m

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 INDONESIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

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

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

6. CONTACT INFORMATION

IOTWMS-TSP INDONESIA:

THE AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS (BMKG)

InaTEWS - Indonesian Tsunami Early Warning System

BULLETIN 7

TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -007

TSUNAMI BULLETIN NUMBER 7 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 1000 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m

TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISIMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m
BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m
MECUFI	12:57z	20Oct2020	0.61m
NANGATA	13:04z	20Oct2020	0.76m
MINHAUINE	13:05z	20Oct2020	1.06m
LURIO	13:06z	20Oct2020	0.56m
LUMBO	13:17z	20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m
AHWAR	09:54z	20Oct2020	0.96m
KHANFAR	10:20z	20Oct2020	1.30m
MAALLAH	10:33z	20Oct2020	1.29m
ADEN	10:34z	20Oct2020	1.48m
QAWAH	10:54z	20Oct2020	1.37m
AL MUALLA	11:33z	20Oct2020	1.51m

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 INDONESIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

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

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

BULLETIN 8

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
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 TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -008

 TSUNAMI BULLETIN NUMBER 8 (TYPE-III CONFIRMED THREAT BULLETIN)
 IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
 ISSUED AT 1100 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
 Depth : 10km
 Date : 20 Oct 2020
 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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
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Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020
Male	MALDIVES	4.20N	73.53E	0.37m	10:25 UTC	20 Oct 2020
Cochin	INDIA	10.00N	76.17E	1.39m	10:25 UTC	20 Oct 2020
Gan	MALDIVES	0.70S	73.15E	0.73m	10:35 UTC	20 Oct 2020
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	10:50 UTC	20 Oct 2020

 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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
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KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m

KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISIMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m
BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m
MECUFI	12:57z	20Oct2020	0.61m
NANGATA	13:04z	20Oct2020	0.76m
MINHAUINE	13:05z	20Oct2020	1.06m
LURIO	13:06z	20Oct2020	0.56m
LUMBO	13:17z	20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m

SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN			

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES			

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA			

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA			

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m

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POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m
AHWAR	09:54z	20Oct2020	0.96m
KHANFAR	10:20z	20Oct2020	1.30m
MAALLAH	10:33z	20Oct2020	1.29m
ADEN	10:34z	20Oct2020	1.48m
QAWAH	10:54z	20Oct2020	1.37m
AL MUALLA	11:33z	20Oct2020	1.51m

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 INDONESIA for this event as more information becomes available.

Other IOTWMS-TSPs may issue additional information at:

BULLETIN 9

TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -009

TSUNAMI BULLETIN NUMBER 9 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 1200 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020
Male	MALDIVES	4.20N	73.53E	0.37m	10:25 UTC	20 Oct 2020
Cochin	INDIA	10.00N	76.17E	1.39m	10:25 UTC	20 Oct 2020
Gan	MALDIVES	0.70S	73.15E	0.73m	10:35 UTC	20 Oct 2020
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	10:50 UTC	20 Oct 2020
Aden	YEMEN	12.80N	44.97E	0.88m	11:00 UTC	20 Oct 2020
Colombo	SRI LANKA	7.00N	79.85E	0.33m	11:10 UTC	20 Oct 2020
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	11:15 UTC	20 Oct 2020
Diego Garcia	UK	7.20S	72.43E	0.26m	11:40 UTC	20 Oct 2020
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	11:50 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m

ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m
BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m
MECUFI	12:57z	20Oct2020	0.61m
NANGATA	13:04z	20Oct2020	0.76m
MINHAUINE	13:05z	20Oct2020	1.06m
LURIO	13:06z	20Oct2020	0.56m
LUMBO	13:17z	20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m

EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m

TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m
AHWAR	09:54z	20Oct2020	0.96m
KHANFAR	10:20z	20Oct2020	1.30m
MAALLAH	10:33z	20Oct2020	1.29m
ADEN	10:34z	20Oct2020	1.48m
QAWAH	10:54z	20Oct2020	1.37m
AL MUALLA	11:33z	20Oct2020	1.51m

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.

BULLETIN 10

TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -010

TSUNAMI BULLETIN NUMBER 10 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 1300 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020
Male	MALDIVES	4.20N	73.53E	0.37m	10:25 UTC	20 Oct 2020
Cochin	INDIA	10.00N	76.17E	1.39m	10:25 UTC	20 Oct 2020
Gan	MALDIVES	0.70S	73.15E	0.73m	10:35 UTC	20 Oct 2020
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	10:50 UTC	20 Oct 2020
Aden	YEMEN	12.80N	44.97E	0.88m	11:00 UTC	20 Oct 2020
Colombo	SRI LANKA	7.00N	79.85E	0.33m	11:10 UTC	20 Oct 2020
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	11:15 UTC	20 Oct 2020
Diego Garcia	UK	7.20S	72.43E	0.26m	11:40 UTC	20 Oct 2020
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	11:50 UTC	20 Oct 2020
Agalega	MAURITIUS	10.30S	56.59E	0.33m	12:00 UTC	20 Oct 2020
Lamu	KENYA	2.30S	40.90E	0.46m	12:15 UTC	20 Oct 2020
Mombasa	KENYA	4.10S	39.65E	0.35m	12:25 UTC	20 Oct 2020
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	12:30 UTC	20 Oct 2020
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	12:35 UTC	20 Oct 2020

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

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m

JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUAR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU 11:38z 20Oct2020 0.84m
KIPINI 12:07z 20Oct2020 0.78m
TAKAUNGU 12:10z 20Oct2020 0.96m
MALINDI 12:13z 20Oct2020 0.95m
KISIMACHANDE 12:29z 20Oct2020 0.87m
MVULENI 12:36z 20Oct2020 0.79m

MADAGASCAR

GLORIOSO ISLANDS 11:57z 20Oct2020 0.60m
ANOROTSANGANA 12:06z 20Oct2020 0.96m
VOHEMAR 12:35z 20Oct2020 0.89m
BALY 12:49z 20Oct2020 0.63m
AMBAHY 13:54z 20Oct2020 0.72m
FARAFAGANA 14:13z 20Oct2020 1.00m
TOAMASINA AIRPORT 14:20z 20Oct2020 0.60m
TAMPOLO 15:02z 20Oct2020 1.15m
MANANTENINA 16:08z 20Oct2020 0.76m

MALDIVES

KULHUDUFFUSHI 09:23z 20Oct2020 1.69m
GOIDHOO 09:33z 20Oct2020 2.98m
FERIDHOO 09:49z 20Oct2020 3.56m
NILANDHOO 09:50z 20Oct2020 2.65m
MALE 09:56z 20Oct2020 1.59m
THINADHOO 10:10z 20Oct2020 2.46m
DHIYAMIGILI 10:12z 20Oct2020 1.74m
KOLHUFUSHI 10:14z 20Oct2020 1.31m
HITHADHOO 10:24z 20Oct2020 2.44m

MAURITIUS

AGALEGA ISLAND 11:46z 20Oct2020 1.23m
LA FERME 13:07z 20Oct2020 1.75m
GRANDE REVIERE SUD EST-WEST 13:14z 20Oct2020 0.66m
CARGADOS CARAJOS 13:18z 20Oct2020 1.08m
GRANDE REVIERE SUD EST-EAST 13:31z 20Oct2020 0.87m

MOZAMBIQUE

MAGANJA 12:27z 20Oct2020 0.83m
QUITERAJO 12:44z 20Oct2020 0.57m
TAVARI 12:46z 20Oct2020 0.51m
MERONVI 12:48z 20Oct2020 0.64m
PEMBA 12:52z 20Oct2020 0.67m
MECUFI 12:57z 20Oct2020 0.61m
NANGATA 13:04z 20Oct2020 0.76m
MINHAUINE 13:05z 20Oct2020 1.06m
LURIO 13:06z 20Oct2020 0.56m
LUMBO 13:17z 20Oct2020 0.53m

OMAN

MUSCAT 06:14z 20Oct2020 7.98m
QURAYYAT 06:19z 20Oct2020 10.91m
BARKA 06:21z 20Oct2020 5.23m
SUR 06:22z 20Oct2020 13.45m
AL KHABURAH 06:27z 20Oct2020 4.47m

AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m

BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m
AHWAR	09:54z	20Oct2020	0.96m
KHANFAR	10:20z	20Oct2020	1.30m
MAALLAH	10:33z	20Oct2020	1.29m
ADEN	10:34z	20Oct2020	1.48m
QAWAH	10:54z	20Oct2020	1.37m
AL MUALLA	11:33z	20Oct2020	1.51m

BULLETIN 11

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -011

TSUNAMI BULLETIN NUMBER 11 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 1400 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020
Male	MALDIVES	4.20N	73.53E	0.37m	10:25 UTC	20 Oct 2020
Cochin	INDIA	10.00N	76.17E	1.39m	10:25 UTC	20 Oct 2020
Gan	MALDIVES	0.70S	73.15E	0.73m	10:35 UTC	20 Oct 2020
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	10:50 UTC	20 Oct 2020
Aden	YEMEN	12.80N	44.97E	0.88m	11:00 UTC	20 Oct 2020
Colombo	SRI LANKA	7.00N	79.85E	0.33m	11:10 UTC	20 Oct 2020
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	11:15 UTC	20 Oct 2020
Diego Garcia	UK	7.20S	72.43E	0.26m	11:40 UTC	20 Oct 2020
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	11:50 UTC	20 Oct 2020
Agalega	MAURITIUS	10.30S	56.59E	0.33m	12:00 UTC	20 Oct 2020
Lamu	KENYA	2.30S	40.90E	0.46m	12:15 UTC	20 Oct 2020
Mombasa	KENYA	4.10S	39.65E	0.35m	12:25 UTC	20 Oct 2020
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	12:30 UTC	20 Oct 2020
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	12:35 UTC	20 Oct 2020
Deep Ocean Buoy 23401	BAY OF BENGA	8.86N	88.56E	0.03m	13:00 UTC	20 Oct 2020
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	13:10 UTC	20 Oct 2020
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	13:25 UTC	20 Oct 2020
Sainte Marie	REUNION	20.90S	55.54E	0.29m	13:30 UTC	20 Oct 2020
Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	13:35 UTC	20 Oct 2020

Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	13:40 UTC	20 Oct 2020
Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	13:40 UTC	20 Oct 2020
Comores	COMORES	11.70S	43.25E	0.20m	13:50 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m

KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m

BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z 20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z 20Oct2020	0.57m

IRAN

PUSHT	06:00z 20Oct2020	12.57m
BIR	06:19z 20Oct2020	5.89m
MISKI	08:16z 20Oct2020	4.49m

KENYA

KIWAYU	11:38z 20Oct2020	0.84m
KIPINI	12:07z 20Oct2020	0.78m
TAKAUNGU	12:10z 20Oct2020	0.96m
MALINDI	12:13z 20Oct2020	0.95m
KISIMACHANDE	12:29z 20Oct2020	0.87m
MVULENI	12:36z 20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z 20Oct2020	0.60m
ANOROTSANGANA	12:06z 20Oct2020	0.96m
VOHEMAR	12:35z 20Oct2020	0.89m
BALY	12:49z 20Oct2020	0.63m
AMBAHY	13:54z 20Oct2020	0.72m
FARAFAGANA	14:13z 20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z 20Oct2020	0.60m
TAMPOLO	15:02z 20Oct2020	1.15m
MANANTENINA	16:08z 20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z 20Oct2020	1.69m
GOIDHOO	09:33z 20Oct2020	2.98m
FERIDHOO	09:49z 20Oct2020	3.56m
NILANDHOO	09:50z 20Oct2020	2.65m
MALE	09:56z 20Oct2020	1.59m
THINADHOO	10:10z 20Oct2020	2.46m
DHIYAMIGILI	10:12z 20Oct2020	1.74m
KOLHUFUSHI	10:14z 20Oct2020	1.31m
HITHADHOO	10:24z 20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z 20Oct2020	1.23m
LA FERME	13:07z 20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z 20Oct2020	0.66m
CARGADOS CARAJOS	13:18z 20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z 20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z 20Oct2020	0.83m
QUITERAJO	12:44z 20Oct2020	0.57m
TAVARI	12:46z 20Oct2020	0.51m
MERONVI	12:48z 20Oct2020	0.64m
PEMBA	12:52z 20Oct2020	0.67m
MECUFI	12:57z 20Oct2020	0.61m
NANGATA	13:04z 20Oct2020	0.76m
MINHAUINE	13:05z 20Oct2020	1.06m
LURIO	13:06z 20Oct2020	0.56m
LUMBO	13:17z 20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
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BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m

NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
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SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

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SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m
EAST TO HAMI	09:08z	20Oct2020	1.34m
AL MUKALLA	09:21z	20Oct2020	2.07m
HAMI	09:27z	20Oct2020	2.15m
BROM MAYFA	09:30z	20Oct2020	1.03m
RUDUM	09:43z	20Oct2020	1.04m

BULLETIN 12

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
 TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
 TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -012

 TSUNAMI BULLETIN NUMBER 12 (TYPE-III CONFIRMED THREAT BULLETIN)
 IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
 ISSUED AT 1500 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
 Depth : 10km
 Date : 20 Oct 2020
 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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020
Male	MALDIVES	4.20N	73.53E	0.37m	10:25 UTC	20 Oct 2020
Cochin	INDIA	10.00N	76.17E	1.39m	10:25 UTC	20 Oct 2020
Gan	MALDIVES	0.70S	73.15E	0.73m	10:35 UTC	20 Oct 2020
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	10:50 UTC	20 Oct 2020
Aden	YEMEN	12.80N	44.97E	0.88m	11:00 UTC	20 Oct 2020
Colombo	SRI LANKA	7.00N	79.85E	0.33m	11:10 UTC	20 Oct 2020
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	11:15 UTC	20 Oct 2020
Diego Garcia	UK	7.20S	72.43E	0.26m	11:40 UTC	20 Oct 2020
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	11:50 UTC	20 Oct 2020
Agalega	MAURITIUS	10.30S	56.59E	0.33m	12:00 UTC	20 Oct 2020
Lamu	KENYA	2.30S	40.90E	0.46m	12:15 UTC	20 Oct 2020
Mombasa	KENYA	4.10S	39.65E	0.35m	12:25 UTC	20 Oct 2020
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	12:30 UTC	20 Oct 2020
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	12:35 UTC	20 Oct 2020
Deep Ocean Buoy 23401	BAY OF BENGA	8.86N	88.56E	0.03m	13:00 UTC	20 Oct 2020
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	13:10 UTC	20 Oct 2020
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	13:25 UTC	20 Oct 2020
Sainte Marie	REUNION	20.90S	55.54E	0.29m	13:30 UTC	20 Oct 2020
Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	13:35 UTC	20 Oct 2020
Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	13:40 UTC	20 Oct 2020

Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	13:40 UTC	20 Oct 2020
Comores	COMORES	11.70S	43.25E	0.20m	13:50 UTC	20 Oct 2020
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	14:10 UTC	20 Oct 2020
Sabang	INDONESIA	5.80N	95.33E	0.11m	14:15 UTC	20 Oct 2020
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	14:20 UTC	20 Oct 2020
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	14:20 UTC	20 Oct 2020
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	14:25 UTC	20 Oct 2020
Seblat	INDONESIA	3.17S	101.50E	0.20m	14:45 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
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DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m

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NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISIMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m
BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m

MECUFI	12:57z	20Oct2020	0.61m
NANGATA	13:04z	20Oct2020	0.76m
MINHAUINE	13:05z	20Oct2020	1.06m
LURIO	13:06z	20Oct2020	0.56m
LUMBO	13:17z	20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m

SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m
SOCOTRA ISLAND NORTH	08:30z	20Oct2020	1.81m
SOCOTRA ISLAND SOUTH	08:33z	20Oct2020	2.41m
HUSWAYN	08:43z	20Oct2020	2.37m
SOCOTRA ISLAND WEST	08:46z	20Oct2020	1.68m
ALQUMRAH	08:53z	20Oct2020	2.14m
MASILAH WADI	09:02z	20Oct2020	2.00m
HARRAH	09:05z	20Oct2020	1.42m

BULLETIN 13

TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -013

TSUNAMI BULLETIN NUMBER 13 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 1600 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020
Male	MALDIVES	4.20N	73.53E	0.37m	10:25 UTC	20 Oct 2020
Cochin	INDIA	10.00N	76.17E	1.39m	10:25 UTC	20 Oct 2020
Gan	MALDIVES	0.70S	73.15E	0.73m	10:35 UTC	20 Oct 2020
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	10:50 UTC	20 Oct 2020
Aden	YEMEN	12.80N	44.97E	0.88m	11:00 UTC	20 Oct 2020
Colombo	SRI LANKA	7.00N	79.85E	0.33m	11:10 UTC	20 Oct 2020
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	11:15 UTC	20 Oct 2020
Diego Garcia	UK	7.20S	72.43E	0.26m	11:40 UTC	20 Oct 2020
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	11:50 UTC	20 Oct 2020
Agalega	MAURITIUS	10.30S	56.59E	0.33m	12:00 UTC	20 Oct 2020
Lamu	KENYA	2.30S	40.90E	0.46m	12:15 UTC	20 Oct 2020
Mombasa	KENYA	4.10S	39.65E	0.35m	12:25 UTC	20 Oct 2020
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	12:30 UTC	20 Oct 2020
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	12:35 UTC	20 Oct 2020
Deep Ocean Buoy 23401	BAY OF BENGA	8.86N	88.56E	0.03m	13:00 UTC	20 Oct 2020
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	13:10 UTC	20 Oct 2020
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	13:25 UTC	20 Oct 2020
Sainte Marie	REUNION	20.90S	55.54E	0.29m	13:30 UTC	20 Oct 2020
Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	13:35 UTC	20 Oct 2020

Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	13:40 UTC	20 Oct 2020
Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	13:40 UTC	20 Oct 2020
Comores	COMORES	11.70S	43.25E	0.20m	13:50 UTC	20 Oct 2020
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	14:10 UTC	20 Oct 2020
Sabang	INDONESIA	5.80N	95.33E	0.11m	14:15 UTC	20 Oct 2020
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	14:20 UTC	20 Oct 2020
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	14:20 UTC	20 Oct 2020
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	14:25 UTC	20 Oct 2020
Seblat	INDONESIA	3.17S	101.50E	0.20m	14:45 UTC	20 Oct 2020
Enggano	INDONESIA	5.30S	102.28E	0.18m	15:00 UTC	20 Oct 2020
Padang	INDONESIA	1.00S	100.37E	0.15m	15:10 UTC	20 Oct 2020
Christmas Is	AUSTRALIA	10.40S	105.67E	0.13m	15:25 UTC	20 Oct 2020
Inhambane	MOZAMBIQUE	24.00S	35.50E	0.11m	15:30 UTC	20 Oct 2020
Sittwe	MYANMAR	20.00N	92.83E	0.20m	15:45 UTC	20 Oct 2020
Ko Taphao Noi	THAILAND	7.80N	98.42E	0.15m	15:55 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBEO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m

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CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m
BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m

NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISIMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m
BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m
MECUFI	12:57z	20Oct2020	0.61m
NANGATA	13:04z	20Oct2020	0.76m
MINHAUINE	13:05z	20Oct2020	1.06m
LURIO	13:06z	20Oct2020	0.56m
LUMBO	13:17z	20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m
TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m

CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m
DIEGO GARCIA	11:36z	20Oct2020	1.73m

YEMEN

DAMQAWT	08:20z	20Oct2020	1.75m
AL GHAYDAH AIRPORT	08:28z	20Oct2020	2.23m

BULLETIN 14

TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
 TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST TEST
 TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -014

 TSUNAMI BULLETIN NUMBER 14 (TYPE-III CONFIRMED THREAT BULLETIN)
 IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
 ISSUED AT 1700 UTC Tuesday 20 October 2020

... 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 (updated)

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

Magnitude : 9.0 Mwp (REVISED)
 Depth : 10km
 Date : 20 Oct 2020
 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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020
Male	MALDIVES	4.20N	73.53E	0.37m	10:25 UTC	20 Oct 2020
Cochin	INDIA	10.00N	76.17E	1.39m	10:25 UTC	20 Oct 2020
Gan	MALDIVES	0.70S	73.15E	0.73m	10:35 UTC	20 Oct 2020
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	10:50 UTC	20 Oct 2020
Aden	YEMEN	12.80N	44.97E	0.88m	11:00 UTC	20 Oct 2020
Colombo	SRI LANKA	7.00N	79.85E	0.33m	11:10 UTC	20 Oct 2020
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	11:15 UTC	20 Oct 2020
Diego Garcia	UK	7.20S	72.43E	0.26m	11:40 UTC	20 Oct 2020
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	11:50 UTC	20 Oct 2020
Agalega	MAURITIUS	10.30S	56.59E	0.33m	12:00 UTC	20 Oct 2020
Lamu	KENYA	2.30S	40.90E	0.46m	12:15 UTC	20 Oct 2020
Mombasa	KENYA	4.10S	39.65E	0.35m	12:25 UTC	20 Oct 2020
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	12:30 UTC	20 Oct 2020
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	12:35 UTC	20 Oct 2020
Deep Ocean Buoy 23401	BAY OF BENGA	8.86N	88.56E	0.03m	13:00 UTC	20 Oct 2020
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	13:10 UTC	20 Oct 2020
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	13:25 UTC	20 Oct 2020
Sainte Marie	REUNION	20.90S	55.54E	0.29m	13:30 UTC	20 Oct 2020
Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	13:35 UTC	20 Oct 2020
Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	13:40 UTC	20 Oct 2020

Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	13:40 UTC	20 Oct 2020
Comores	COMORES	11.70S	43.25E	0.20m	13:50 UTC	20 Oct 2020
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	14:10 UTC	20 Oct 2020
Sabang	INDONESIA	5.80N	95.33E	0.11m	14:15 UTC	20 Oct 2020
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	14:20 UTC	20 Oct 2020
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	14:20 UTC	20 Oct 2020
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	14:25 UTC	20 Oct 2020
Seblat	INDONESIA	3.17S	101.50E	0.20m	14:45 UTC	20 Oct 2020
Enggano	INDONESIA	5.30S	102.28E	0.18m	15:00 UTC	20 Oct 2020
Padang	INDONESIA	1.00S	100.37E	0.15m	15:10 UTC	20 Oct 2020
Christmas Is	AUSTRALIA	10.40S	105.67E	0.13m	15:25 UTC	20 Oct 2020
Inhambane	MOZAMBIQUE	24.00S	35.50E	0.11m	15:30 UTC	20 Oct 2020
Sittwe	MYANMAR	20.00N	92.83E	0.20m	15:45 UTC	20 Oct 2020
Ko Taphao Noi	THAILAND	7.80N	98.42E	0.15m	15:55 UTC	20 Oct 2020
Tanjung Lesung	INDONESIA	6.50S	105.50E	0.29m	16:05 UTC	20 Oct 2020
Sibolga	INDONESIA	1.67N	98.67E	0.67m	16:10 UTC	20 Oct 2020
Deep Ocean Buoy 56001	INDIAN OCEAN	14.02S	109.94E	0.04m	16:10 UTC	20 Oct 2020
Pangandaran	INDONESIA	7.83S	108.50E	0.20m	16:15 UTC	20 Oct 2020
Cilacap	INDONESIA	7.80S	109.00E	0.24m	16:25 UTC	20 Oct 2020
Nancowry	INDIA	8.10N	93.55E	0.22m	16:30 UTC	20 Oct 2020
Marina Jambu	INDONESIA	6.19S	105.83E	0.43m	16:30 UTC	20 Oct 2020
Prigi	INDONESIA	8.33S	111.83E	0.15m	16:40 UTC	20 Oct 2020

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	14:07z	20Oct2020	0.63m
CHRISTMAS ISLAND	15:16z	20Oct2020	0.53m
PILBARA COAST WEST	17:39z	20Oct2020	0.55m
GASCOYNE COAST	17:45z	20Oct2020	0.78m

COMOROS

CHEZANI	12:12z	20Oct2020	0.94m
BAMBAAO	12:12z	20Oct2020	1.12m
DZAOUDZI	12:22z	20Oct2020	0.56m
FOMBONI	13:39z	20Oct2020	0.50m

DJIBOUTI

MUHAMMAD ALI BIN FATHA SUMANA	11:01z	20Oct2020	1.30m
NW ARTA	11:13z	20Oct2020	1.96m

FRANCE

ILE SAINT-PAUL-NORTH	16:23z	20Oct2020	1.30m
ILE SAINT-PAUL-SOUTH	16:41z	20Oct2020	0.86m
ILE DE LA POSSESSION	17:21z	20Oct2020	0.66m
CROZET PLATEAU	17:42z	20Oct2020	0.63m
NES CROZET	17:55z	20Oct2020	0.61m

INDIA

MANDVI	07:50z	20Oct2020	2.97m
DWARKA	07:56z	20Oct2020	3.38m
PORBANDAR	07:57z	20Oct2020	2.37m
JAMNAGAR	08:04z	20Oct2020	2.89m
MANGROL	08:13z	20Oct2020	2.94m
AGATTI	08:52z	20Oct2020	3.48m
KAVARATTI	08:57z	20Oct2020	1.83m
AMINI	09:01z	20Oct2020	4.37m
MALVAN BAY	09:02z	20Oct2020	2.38m
MINICOY	09:12z	20Oct2020	2.37m
PANAJI	09:13z	20Oct2020	2.75m
ANDROTH	09:14z	20Oct2020	3.04m
VASCO	09:21z	20Oct2020	2.96m
KARWAR	09:28z	20Oct2020	2.54m
HAZIRA, DIU	09:34z	20Oct2020	2.59m
JAIGARH	09:35z	20Oct2020	2.66m
UDUPI	09:45z	20Oct2020	2.88m
MANGALORE	09:46z	20Oct2020	2.77m
KASARAGOD	09:50z	20Oct2020	2.51m
ALIBAG PORT	09:51z	20Oct2020	2.78m
PIPAVAV	09:52z	20Oct2020	3.42m
MUMBAI	09:53z	20Oct2020	3.48m
MAHE	09:54z	20Oct2020	1.97m
ALLEPPEY ALAPPUZHA	09:55z	20Oct2020	2.56m
MAHUVA	09:55z	20Oct2020	3.45m
KANNUR	09:58z	20Oct2020	2.25m
KHAMBAT	10:00z	20Oct2020	3.27m
VADANAPPALLY	10:01z	20Oct2020	2.43m
TARAPUR	10:02z	20Oct2020	2.46m
VAKKAD	10:03z	20Oct2020	2.74m
QUILON	10:03z	20Oct2020	2.15m
BEYPORE	10:05z	20Oct2020	2.51m
BHARUCH	10:07z	20Oct2020	2.61m
COCHIN	10:08z	20Oct2020	2.30m
HAZIRA	10:14z	20Oct2020	2.47m
TRIVANDRUM	10:18z	20Oct2020	1.71m
BORSI	10:18z	20Oct2020	2.34m
DAMAN	10:39z	20Oct2020	1.87m
KANYAKUMARI	10:59z	20Oct2020	2.01m
KOTTAIPPATTANAM	11:09z	20Oct2020	1.11m
KOODANKULAM	11:15z	20Oct2020	2.31m
TUTICORIN	14:25z	20Oct2020	0.91m
RAMESWARAM	14:36z	20Oct2020	0.76m

INDONESIA

SUMUT NIAS BAGIAN BARAT	13:40z	20Oct2020	0.75m
NAD SIMEULUE PULAU SIMEULUE	13:51z	20Oct2020	0.53m
SUMUT NIAS-SELATAN PULAU NIAS	14:06z	20Oct2020	0.53m
NAD ACEH-SINGKIL KEPULAUAN BANYAK	14:16z	20Oct2020	0.54m
NAD ACEH-BESAR BAGIAN BARAT	14:20z	20Oct2020	0.58m
NAD ACEH-SELATAN BAGIAN SELATAN	15:08z	20Oct2020	0.90m
LAMPUNG LAMPUNG-BARAT PESISIR-SELATAN	15:10z	20Oct2020	0.56m
LAMPUNG LAMPUNG-BARAT PESISIR-UTARA	15:11z	20Oct2020	0.82m

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BENGKULU KAUR	15:13z	20Oct2020	0.65m
LAMPUNG LAMPUNG-BARAT PESISIR-TENGAH	15:15z	20Oct2020	0.80m
BANTEN PANDEGLANG BAGIAN SELATAN	15:15z	20Oct2020	0.55m
BENGKULU KOTA-BENGKULU PANTAI-PANJANG	15:20z	20Oct2020	0.63m
BENGKULU SELUMA	15:23z	20Oct2020	0.57m
BENGKULU BENGKULU-UTARA BAGIAN SELATAN	15:29z	20Oct2020	0.67m
BENGKULU BENGKULU-UTARA PULAU ENGGANO	15:32z	20Oct2020	0.59m
NAD ACEH-BESAR PULAU PENAS	15:32z	20Oct2020	0.63m
LAMPUNG TANGGAMUS BAGIAN TIMUR	15:35z	20Oct2020	0.56m
LAMPUNG LAMPUNG-SELATAN KEP. LEGUNDI	15:36z	20Oct2020	0.51m
LAMPUNG TANGGAMUS PULAU TABUAN	15:36z	20Oct2020	0.67m
LAMPUNG TANGGAMUS BAGIAN BARAT	15:38z	20Oct2020	0.89m
SUMUT NIAS-SELATAN PULAU TANABALA	15:45z	20Oct2020	0.56m
JABAR SUKABUMI PELABUHAN-RATU	16:06z	20Oct2020	0.57m
NAD ACEH-BARAT	16:09z	20Oct2020	0.66m
JATENG WONOGIRI	16:20z	20Oct2020	0.53m
NAD ACEH-BESAR PULAU BREUEH	16:29z	20Oct2020	0.51m
JATENG PURWOREJO	16:36z	20Oct2020	0.52m
NAD ACEH-JAYA	17:09z	20Oct2020	0.61m
BENGKULU BENGKULU-UTARA BAGIAN UTARA	17:37z	20Oct2020	0.56m
NAD ACEH-SINGKIL	17:56z	20Oct2020	0.57m

IRAN

PUSHT	06:00z	20Oct2020	12.57m
BIR	06:19z	20Oct2020	5.89m
MISKI	08:16z	20Oct2020	4.49m

KENYA

KIWAYU	11:38z	20Oct2020	0.84m
KIPINI	12:07z	20Oct2020	0.78m
TAKAUNGU	12:10z	20Oct2020	0.96m
MALINDI	12:13z	20Oct2020	0.95m
KISIMACHANDE	12:29z	20Oct2020	0.87m
MVULENI	12:36z	20Oct2020	0.79m

MADAGASCAR

GLORIOSO ISLANDS	11:57z	20Oct2020	0.60m
ANOROTSANGANA	12:06z	20Oct2020	0.96m
VOHEMAR	12:35z	20Oct2020	0.89m
BALY	12:49z	20Oct2020	0.63m
AMBAHY	13:54z	20Oct2020	0.72m
FARAFAGANA	14:13z	20Oct2020	1.00m
TOAMASINA AIRPORT	14:20z	20Oct2020	0.60m
TAMPOLO	15:02z	20Oct2020	1.15m
MANANTENINA	16:08z	20Oct2020	0.76m

MALDIVES

KULHUDUFFUSHI	09:23z	20Oct2020	1.69m
GOIDHOO	09:33z	20Oct2020	2.98m
FERIDHOO	09:49z	20Oct2020	3.56m
NILANDHOO	09:50z	20Oct2020	2.65m
MALE	09:56z	20Oct2020	1.59m
THINADHOO	10:10z	20Oct2020	2.46m
DHIYAMIGILI	10:12z	20Oct2020	1.74m
KOLHUFUSHI	10:14z	20Oct2020	1.31m
HITHADHOO	10:24z	20Oct2020	2.44m

MAURITIUS

AGALEGA ISLAND	11:46z	20Oct2020	1.23m
LA FERME	13:07z	20Oct2020	1.75m
GRANDE REVIERE SUD EST-WEST	13:14z	20Oct2020	0.66m
CARGADOS CARAJOS	13:18z	20Oct2020	1.08m
GRANDE REVIERE SUD EST-EAST	13:31z	20Oct2020	0.87m

MOZAMBIQUE

MAGANJA	12:27z	20Oct2020	0.83m
QUITERAJO	12:44z	20Oct2020	0.57m
TAVARI	12:46z	20Oct2020	0.51m
MERONVI	12:48z	20Oct2020	0.64m
PEMBA	12:52z	20Oct2020	0.67m
MECUFI	12:57z	20Oct2020	0.61m
NANGATA	13:04z	20Oct2020	0.76m
MINHAUINE	13:05z	20Oct2020	1.06m
LURIO	13:06z	20Oct2020	0.56m
LUMBO	13:17z	20Oct2020	0.53m

OMAN

MUSCAT	06:14z	20Oct2020	7.98m
QURAYYAT	06:19z	20Oct2020	10.91m
BARKA	06:21z	20Oct2020	5.23m
SUR	06:22z	20Oct2020	13.45m
AL KHABURAH	06:27z	20Oct2020	4.47m
AL ASHKHARAH	06:38z	20Oct2020	7.34m
SOHAR	06:40z	20Oct2020	4.87m
MASIRAH	06:52z	20Oct2020	3.74m
RAS AR RUWAYS	07:00z	20Oct2020	4.92m
EAST MUSANDAM	07:09z	20Oct2020	4.51m
AD DUQM	07:20z	20Oct2020	3.03m
HASIK	07:50z	20Oct2020	1.91m
AL JAZER	07:51z	20Oct2020	2.93m
MIRBAT	07:54z	20Oct2020	1.45m
TAQAH	08:03z	20Oct2020	1.45m
SALALAH	08:12z	20Oct2020	1.58m

PAKISTAN

ORMARA	06:00z	20Oct2020	9.16m
WINDER	06:00z	20Oct2020	5.61m
SINDH	07:15z	20Oct2020	3.83m
KARACHI	07:16z	20Oct2020	6.05m

SEYCHELLES

ILE DESROCHES	10:52z	20Oct2020	1.07m
ALPHONSE ISLAND	11:08z	20Oct2020	0.64m
FREGATE ISLAND	11:18z	20Oct2020	2.24m
COETIVY ISLAND	11:25z	20Oct2020	0.94m
TAKAMAKA	11:31z	20Oct2020	1.77m
ASTOVE ISLAND	11:37z	20Oct2020	0.66m
ALDABRA	11:41z	20Oct2020	0.94m
FARQUHAR GROUP	11:45z	20Oct2020	0.78m

SOMALIA

ABO	09:22z	20Oct2020	1.93m
QANDALA	09:24z	20Oct2020	1.15m
BANDER-BEYLA	09:32z	20Oct2020	1.80m
EYL	09:32z	20Oct2020	1.40m
HADAAFTIMO	09:35z	20Oct2020	0.85m

TOOXIN	09:37z	20Oct2020	2.15m
BOSASO	09:42z	20Oct2020	0.84m
JARIIBAN	09:45z	20Oct2020	2.15m
GALDOGOB	09:51z	20Oct2020	1.55m
MAYDH	09:52z	20Oct2020	0.99m
KABURA	10:09z	20Oct2020	0.91m
XARARDHEERE	10:15z	20Oct2020	1.67m
CEEL DHEER	10:23z	20Oct2020	1.63m
MAREEG	10:31z	20Oct2020	1.07m
ITALA	10:31z	20Oct2020	0.90m
BAKI	10:31z	20Oct2020	0.84m
UARSCIECH	10:37z	20Oct2020	1.10m
MUQDISHO	10:47z	20Oct2020	1.12m
BEYNAX BARRE	10:52z	20Oct2020	1.18m
SAYLAC	10:54z	20Oct2020	1.53m
BARAAWE	11:01z	20Oct2020	1.15m
LOYADO	11:02z	20Oct2020	1.96m
JILIB	11:17z	20Oct2020	0.87m
TURDHO	11:20z	20Oct2020	1.00m
NE BEERNAASI	11:25z	20Oct2020	1.05m
KAAMBOONI	11:36z	20Oct2020	1.00m

SRI LANKA

COLOMBO	10:43z	20Oct2020	0.87m
NEGOMBO	10:44z	20Oct2020	0.86m
AMBALANGODA	10:50z	20Oct2020	1.16m
BERUWALA	10:51z	20Oct2020	1.15m
MORATUWA	10:52z	20Oct2020	1.19m
GALLE	10:53z	20Oct2020	1.43m
MANNAR ISLAND	10:57z	20Oct2020	0.66m
TANGALLE	11:00z	20Oct2020	0.72m
MUNDAL LAKE	11:00z	20Oct2020	0.81m
MUSALI	11:13z	20Oct2020	0.63m
HAMBANTOTA	11:26z	20Oct2020	0.59m
MATARA	11:45z	20Oct2020	0.87m
KIRINDA	14:23z	20Oct2020	0.51m
POTTUVIL	15:31z	20Oct2020	0.70m
OKANDA	17:12z	20Oct2020	0.74m

TANZANIA

VUMBI	12:11z	20Oct2020	0.85m
ZANZIBAR	12:17z	20Oct2020	0.66m
GAZIJA	12:21z	20Oct2020	0.79m
KUTANI	12:22z	20Oct2020	0.82m
SONGO SONGO ISLAND	12:24z	20Oct2020	0.65m
MADANGWA	12:25z	20Oct2020	1.10m
RUVU	12:27z	20Oct2020	0.68m
MSASANI	12:30z	20Oct2020	0.97m
BOMALANDNI	12:35z	20Oct2020	0.83m
VUMBA	12:35z	20Oct2020	0.53m
WEST TO KONDE	12:39z	20Oct2020	0.72m
JIMBO	13:05z	20Oct2020	0.75m
BAGAMOYO	13:05z	20Oct2020	0.76m

UNITED ARAB EMIRATES

KALBA	06:52z	20Oct2020	4.12m
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UNITED KINGDOM

MORESBY ISLAND	10:55z	20Oct2020	2.71m
NW EGMONT ISLAND	11:13z	20Oct2020	2.05m

BULLETIN 15

TEST
TSP-InaTEWS - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT -015

TSUNAMI BULLETIN NUMBER 15 (TYPE-IV FINAL BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
ISSUED AT 1800 UTC Tuesday 20 October 2020

... 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 INDONESIA detected an earthquake with the following details:

Magnitude : 9.0 Mwp (REVISED)
Depth : 10km
Date : 20 Oct 2020
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 IOTWMS-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
Gwadar	PAKISTAN	25.00N	62.00E	7.25m	06:05 UTC	20 Oct 2020
Jask	IRAN	25.60N	57.77E	6.75m	06:10 UTC	20 Oct 2020
Chabahar	IRAN	25.33N	60.50E	5.95m	06:15 UTC	20 Oct 2020
Muscat	OMAN	23.60N	58.57E	6.10m	06:20 UTC	20 Oct 2020
Deep Ocean Buoy 23228	ARABIAN SEA	20.80N	65.35E	2.21m	06:50 UTC	20 Oct 2020
Deep Ocean Buoy 23226	ARABIAN SEA	20.20N	67.33E	1.84m	06:55 UTC	20 Oct 2020
Karachi	PAKISTAN	24.83N	66.83E	3.15m	07:25 UTC	20 Oct 2020
Masirah	OMAN	20.70N	58.87E	1.91m	07:25 UTC	20 Oct 2020
Ormara	PAKISTAN	25.20N	64.07E	4.80m	07:40 UTC	20 Oct 2020
Salalah	OMAN	16.90N	54.01E	0.86m	08:35 UTC	20 Oct 2020
Minicoy	INDIA	8.30N	73.05E	0.41m	09:30 UTC	20 Oct 2020
Hanimadhoo	MALDIVES	6.80N	73.17E	0.57m	09:40 UTC	20 Oct 2020
Mormugao	INDIA	15.40N	73.78E	1.72m	09:40 UTC	20 Oct 2020
Male	MALDIVES	4.20N	73.53E	0.37m	10:25 UTC	20 Oct 2020
Cochin	INDIA	10.00N	76.17E	1.39m	10:25 UTC	20 Oct 2020
Gan	MALDIVES	0.70S	73.15E	0.73m	10:35 UTC	20 Oct 2020
Denis Island	SEYCHELLES	3.80S	55.67E	0.88m	10:50 UTC	20 Oct 2020
Aden	YEMEN	12.80N	44.97E	0.88m	11:00 UTC	20 Oct 2020
Colombo	SRI LANKA	7.00N	79.85E	0.33m	11:10 UTC	20 Oct 2020
Kirinda	SRI LANKA	6.20N	81.32E	0.18m	11:15 UTC	20 Oct 2020

Diego Garcia	UK	7.20S	72.43E	0.26m	11:40 UTC	20 Oct 2020
Pt LaRue	SEYCHELLES	4.50S	55.50E	0.95m	11:50 UTC	20 Oct 2020
Agalega	MAURITIUS	10.30S	56.59E	0.33m	12:00 UTC	20 Oct 2020
Lamu	KENYA	2.30S	40.90E	0.46m	12:15 UTC	20 Oct 2020
Mombasa	KENYA	4.10S	39.65E	0.35m	12:25 UTC	20 Oct 2020
Dzaoudzi	FRANCE	12.80S	45.26E	0.20m	12:30 UTC	20 Oct 2020
Zanzibar	TANZANIA	6.20S	39.18E	0.37m	12:35 UTC	20 Oct 2020
Deep Ocean Buoy 23401	BAY OF BENGA	8.86N	88.56E	0.03m	13:00 UTC	20 Oct 2020
Pemba	MOZAMBIQUE	13.00S	40.48E	0.24m	13:10 UTC	20 Oct 2020
Pt Louis	MAURITIUS	20.17S	57.33E	0.26m	13:25 UTC	20 Oct 2020
Sainte Marie	REUNION	20.90S	55.54E	0.29m	13:30 UTC	20 Oct 2020
Pointe des Galets	REUNION ISLA	20.90S	55.28E	0.26m	13:35 UTC	20 Oct 2020
Toamasina	MADAGASCAR	18.20S	49.43E	0.24m	13:40 UTC	20 Oct 2020
Blue Bay	MAURITIUS	20.50S	57.67E	0.27m	13:40 UTC	20 Oct 2020
Comores	COMORES	11.70S	43.25E	0.20m	13:50 UTC	20 Oct 2020
Rodrigues	MAURITIUS	19.70S	63.42E	0.62m	14:10 UTC	20 Oct 2020
Sabang	INDONESIA	5.80N	95.33E	0.11m	14:15 UTC	20 Oct 2020
Cocos Island.	AUSTRALIA	12.10S	96.89E	0.15m	14:20 UTC	20 Oct 2020
Visakhapatnam	INDIA	17.70N	83.28E	0.11m	14:20 UTC	20 Oct 2020
Telukdalam	INDONESIA	0.50N	97.83E	0.20m	14:25 UTC	20 Oct 2020
Seblat	INDONESIA	3.17S	101.50E	0.20m	14:45 UTC	20 Oct 2020
Enggano	INDONESIA	5.30S	102.28E	0.18m	15:00 UTC	20 Oct 2020
Padang	INDONESIA	1.00S	100.37E	0.15m	15:10 UTC	20 Oct 2020
Christmas Is	AUSTRALIA	10.40S	105.67E	0.13m	15:25 UTC	20 Oct 2020
Inhambane	MOZAMBIQUE	24.00S	35.50E	0.11m	15:30 UTC	20 Oct 2020
Sittwe	MYANMAR	20.00N	92.83E	0.20m	15:45 UTC	20 Oct 2020
Ko Taphao Noi	THAILAND	7.80N	98.42E	0.15m	15:55 UTC	20 Oct 2020
Tanjung Lesung	INDONESIA	6.50S	105.50E	0.29m	16:05 UTC	20 Oct 2020
Sibolga	INDONESIA	1.67N	98.67E	0.67m	16:10 UTC	20 Oct 2020
Deep Ocean Buoy 56001	INDIAN OCEAN	14.02S	109.94E	0.04m	16:10 UTC	20 Oct 2020
Pangandaran	INDONESIA	7.83S	108.50E	0.20m	16:15 UTC	20 Oct 2020
Cilacap	INDONESIA	7.80S	109.00E	0.24m	16:25 UTC	20 Oct 2020
Nancowry	INDIA	8.10N	93.55E	0.22m	16:30 UTC	20 Oct 2020
Marina Jambu	INDONESIA	6.19S	105.83E	0.43m	16:30 UTC	20 Oct 2020
Prigi	INDONESIA	8.33S	111.83E	0.15m	16:40 UTC	20 Oct 2020
Langkawi	MALAYSIA	6.50N	99.83E	0.13m	17:00 UTC	20 Oct 2020
Benoa	INDONESIA	8.83S	115.33E	0.11m	17:10 UTC	20 Oct 2020
Deep Ocean Buoy 56003	INDIAN OCEAN	15.02S	117.94E	0.03m	17:10 UTC	20 Oct 2020
Point Murat	AUSTRALIA	21.80S	114.19E	0.31m	17:30 UTC	20 Oct 2020
Waikelo	INDONESIA	9.40S	119.22E	0.13m	17:50 UTC	20 Oct 2020
Meulaboh	INDONESIA	4.17N	96.00E	0.33m	17:50 UTC	20 Oct 2020
Cape Cuvier Wharf	AUSTRALIA	24.20S	113.40E	0.37m	17:55 UTC	20 Oct 2020

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 INDONESIA for this event unless additional information becomes available.

Other IOTWMS-TSPs may issue additional information at:

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

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

6. CONTACT INFORMATION

IOTWMS-TSP INDONESIA:

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