

EXERCISE INDIAN OCEAN WAVE 23

An Indian Ocean-wide Tsunami
Warning and Communications Exercise
4–25 October 2023

Volume 1

Exercise Manual

Supplement 2

TSP Bulletins for Scenario 2: Makran Trench

To be issued by the TSPs to NTWCs/TWFPs on 11 October 2023

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Prepared by the Exercise IOWave23 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 2023 (IOWave23) to be conducted on 11 October 2023.

1. TSP AUSTRALIA MAPS

M8.0

Figure S2-01. Threat Map

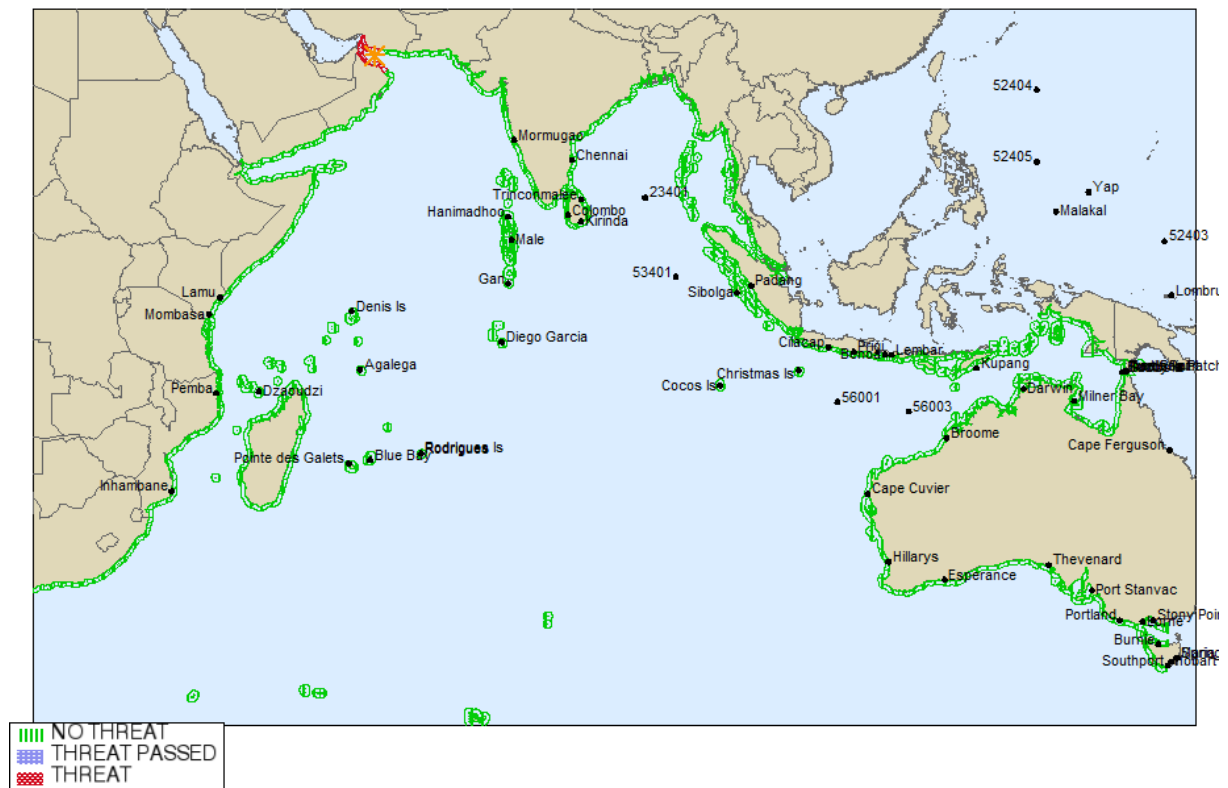


Figure S2-02. Travel Time Map
GULF OF OMAN 06:00 UTC 11 October 2023 24.80N 58.20E Mag 8.0

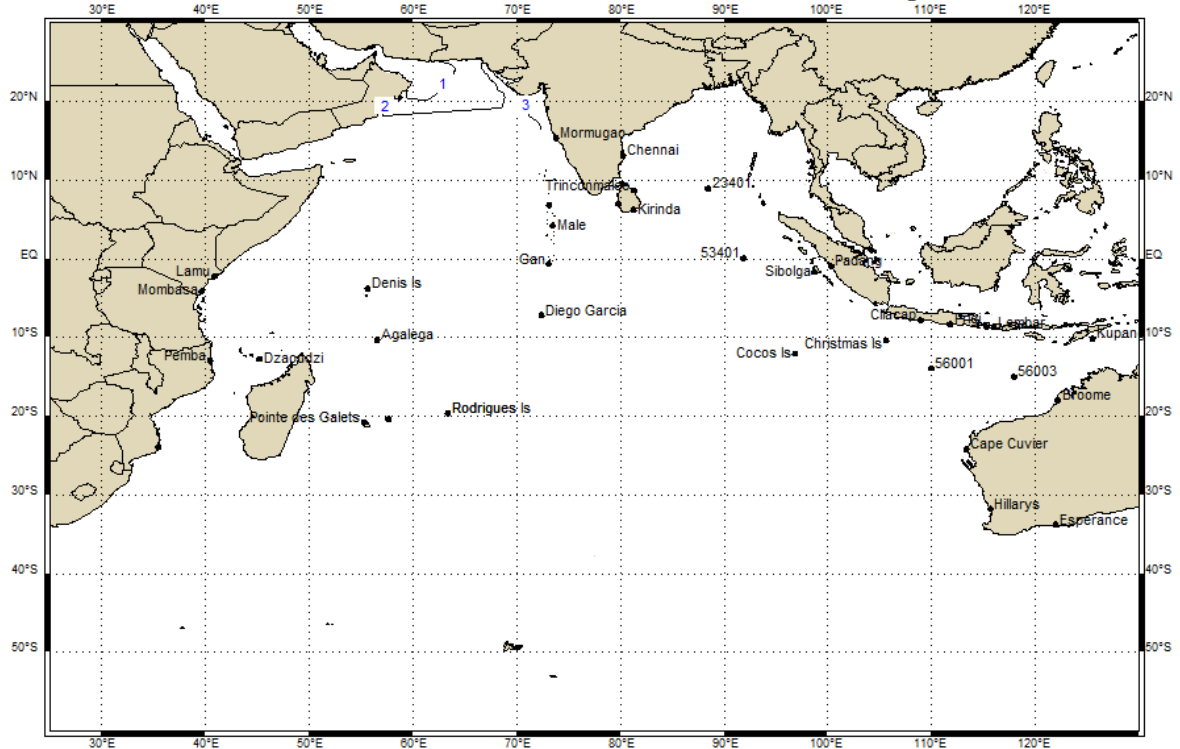
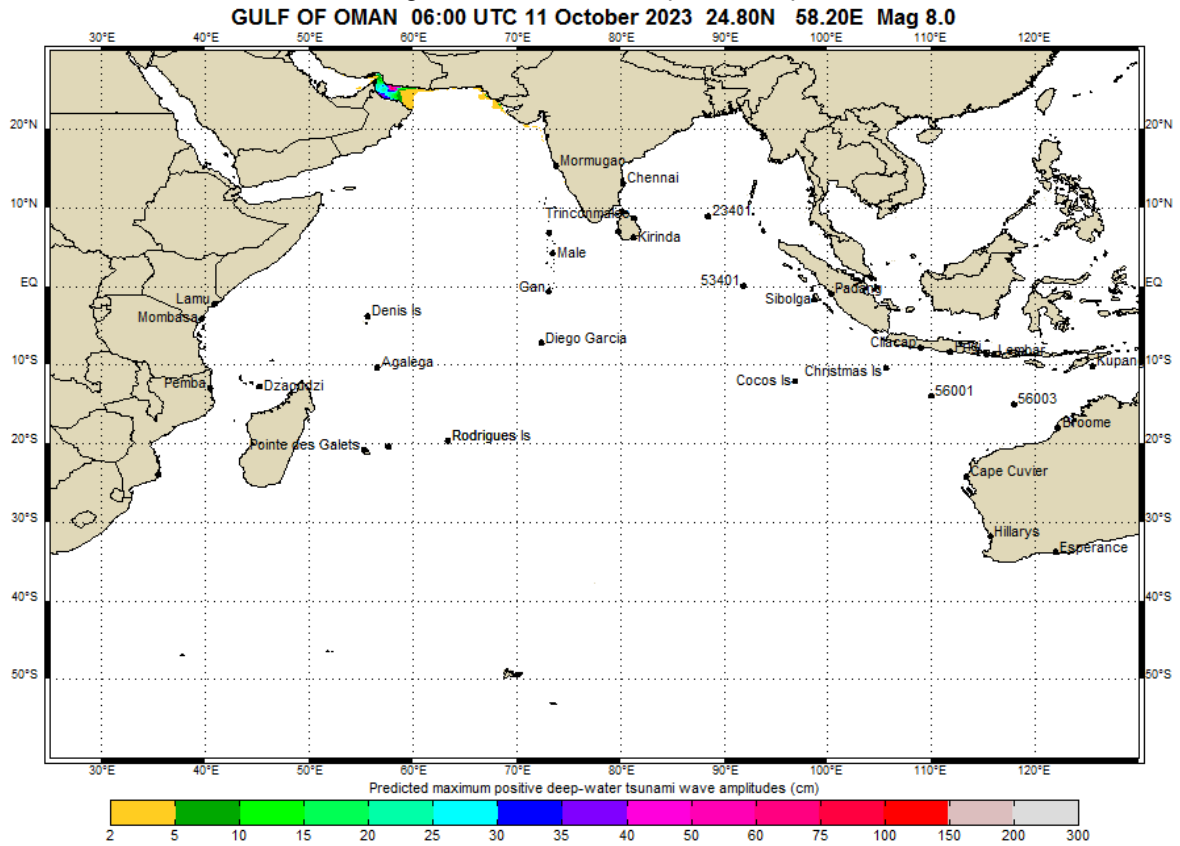


Figure S2-03. Wave Amplitude Map



M8.9

Figure S2-04. Threat Map

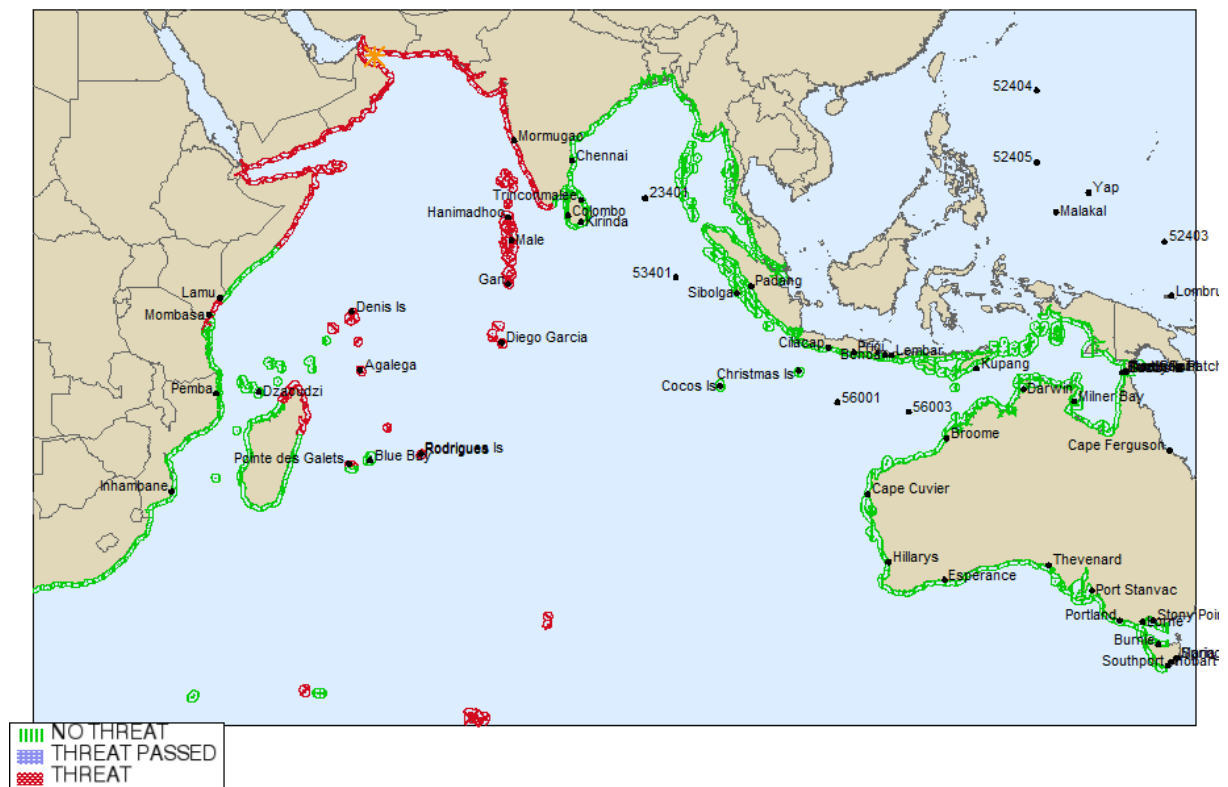


Figure S2-05. Travel Time Map
GULF OF OMAN 06:00 UTC 11 October 2023 24.80N 58.20E Mag 8.9

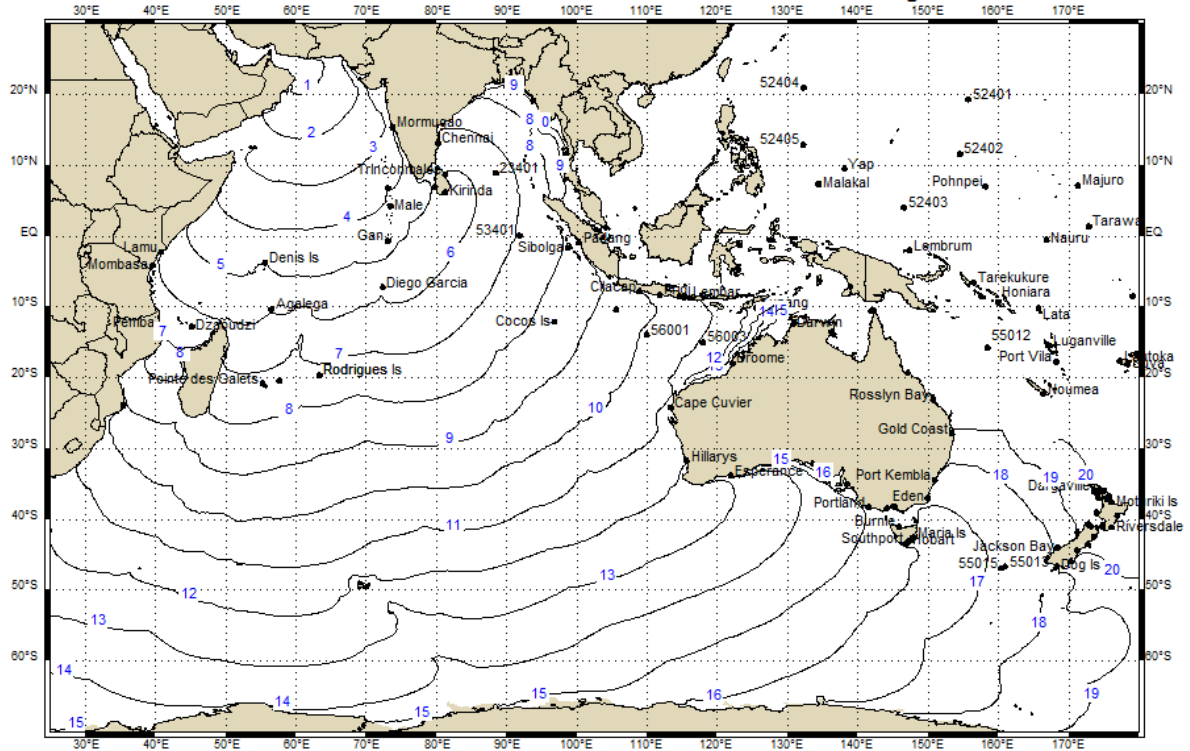
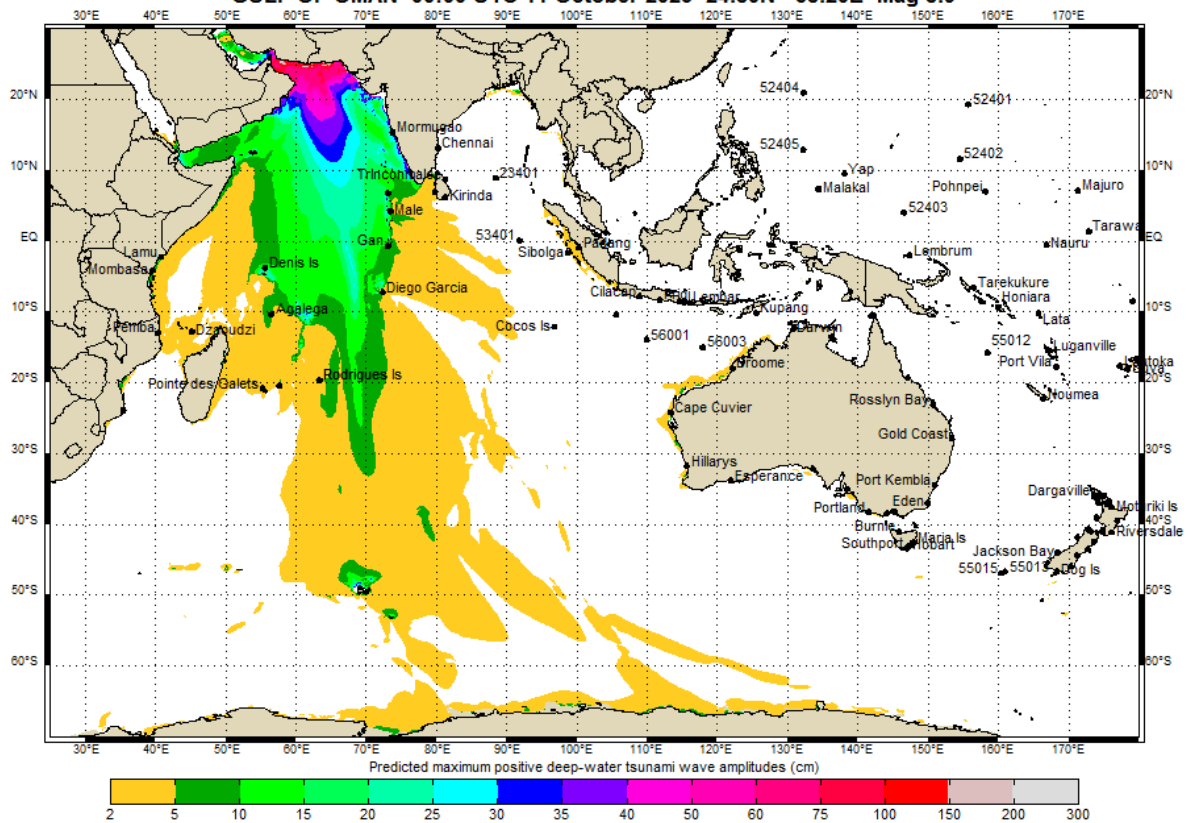


Figure S2-06. Wave Amplitude Map
GULF OF OMAN 06:00 UTC 11 October 2023 24.80N 58.20E Mag 8.9



2. TSP AUSTRALIA BULLETINS

BULLETIN 1

IDY68503

```
#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT  
#  
#####
```

```
-----  
TSUNAMI BULLETIN NUMBER 1 (TYPE-I EARTHQUAKE BULLETIN)  
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)  
ISSUED AT 0610 UTC Wednesday 11 October 2023  
-----
```

... EARTHQUAKE BULLETIN ...

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

1. EARTHQUAKE INFORMATION

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

Magnitude: 8.0 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

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

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 2

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 2 (TYPE-II THREAT ASSESSMENT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 0612 UTC Wednesday 11 October 2023

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

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

1. EARTHQUAKE INFORMATION

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

Magnitude: 8.0 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

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.

IRAN

BIR 0600Z 11Oct2023 3.02m
MISKI 0702Z 11Oct2023 0.85m

OMAN

MUSCAT 0616Z 11Oct2023 1.73m
AL KHABURAH 0618Z 11Oct2023 1.71m
BARKA 0618Z 11Oct2023 1.57m
QURAYYAT 0626Z 11Oct2023 0.70m
SOHAR 0632Z 11Oct2023 1.10m
EAST MUSANDAM 0652Z 11Oct2023 0.83m

UNITED ARAB EMIRATES

KALBA 0636Z 11Oct2023 0.91m

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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 3

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 3 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 0615 UTC Wednesday 11 October 2023

... 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: 8.0 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
UTC					
Jask	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
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.

IRAN

BIR 0600Z 11Oct2023 3.02m
MISKI 0702Z 11Oct2023 0.85m

OMAN

MUSCAT 0616Z 11Oct2023 1.73m
AL KHABURAH 0618Z 11Oct2023 1.71m
BARKA 0618Z 11Oct2023 1.57m
QURAYYAT 0626Z 11Oct2023 0.70m
SOHAR 0632Z 11Oct2023 1.10m
EAST MUSANDAM 0652Z 11Oct2023 0.83m

UNITED ARAB EMIRATES

KALBA 0636Z 11Oct2023 0.91m

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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

BULLETIN 4

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 4 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 0630 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp (UPDATED)
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22

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

HEARD ISLAND AND MCDONALD ISLANDS 1940Z 11Oct2023 0.99m
AURORA BANK 2112Z 11Oct2023 0.52m

DJIBOUTI

NW ARTA 1112Z 11Oct2023 2.03m
MUHAMMAD ALI BIN FATHA SUMANA 1112Z 11Oct2023 1.72m

FRANCE

SAINT-DENIS 1330Z 11Oct2023 0.52m
ILE SAINT-PAUL-NORTH 1632Z 11Oct2023 0.71m
ILE SAINT-PAUL-SOUTH 1644Z 11Oct2023 0.63m
CROZET PLATEAU 1842Z 11Oct2023 0.66m
ILE KERGUELEN 1858Z 11Oct2023 1.04m

INDIA

MANDVI 0748Z 11Oct2023 2.27m
PORBANDAR 0754Z 11Oct2023 1.31m
DWARKA 0756Z 11Oct2023 1.91m
JAMNAGAR 0800Z 11Oct2023 1.52m
MANGROL 0816Z 11Oct2023 1.38m
HAZIRA, DIU 0830Z 11Oct2023 1.44m
AGATTI 0848Z 11Oct2023 1.81m
AMINI 0850Z 11Oct2023 1.74m
KAVARATTI 0858Z 11Oct2023 1.30m
MALVAN BAY 0904Z 11Oct2023 1.19m
ANDROTH 0912Z 11Oct2023 1.70m
PANAJI 0916Z 11Oct2023 1.24m
VASCO 0916Z 11Oct2023 1.32m
MINICOY 0916Z 11Oct2023 1.10m
JAIGARH 0918Z 11Oct2023 1.25m
KARWAR 0926Z 11Oct2023 1.25m
UDUPI 0944Z 11Oct2023 1.37m
MANGALORE 0946Z 11Oct2023 1.15m
KASARAGOD 0950Z 11Oct2023 1.24m
PIPAVAV 0952Z 11Oct2023 1.23m
MAHUVA 0956Z 11Oct2023 1.16m
KHAMBAT 0958Z 11Oct2023 1.03m
ALLEPPEY ALAPPUZHA 1000Z 11Oct2023 1.31m
MAHE 1000Z 11Oct2023 1.44m
VADANAPPALLY 1002Z 11Oct2023 1.23m
KANNUR 1002Z 11Oct2023 1.36m
BEYPORE 1004Z 11Oct2023 1.45m
COCHIN 1004Z 11Oct2023 1.16m
VAKKAD 1004Z 11Oct2023 1.39m
BHARUCH 1004Z 11Oct2023 0.99m
TARAPUR 1006Z 11Oct2023 0.94m
QUILON 1006Z 11Oct2023 1.21m
MUMBAI 1008Z 11Oct2023 1.16m
ALIBAG PORT 1008Z 11Oct2023 1.16m
DAMAN 1014Z 11Oct2023 0.90m

BORSI	1014Z	11Oct2023	0.90m
HAZIRA	1016Z	11Oct2023	1.00m
TRIVANDRUM	1018Z	11Oct2023	0.93m
KANYAKUMARI	1034Z	11Oct2023	0.76m
KOODANKULAM	1108Z	11Oct2023	0.61m

IRAN

PUSHT	0600Z	11Oct2023	5.59m
BIR	0600Z	11Oct2023	9.01m
MISKI	0642Z	11Oct2023	2.55m

KENYA

KISIMACHANDE	1300Z	11Oct2023	0.53m
KIPINI	1422Z	11Oct2023	0.56m
MALINDI	1422Z	11Oct2023	0.60m

MADAGASCAR

VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
TAMPOLO	1728Z	11Oct2023	0.74m

MALDIVES

KULHUDUFFUSHI	0922Z	11Oct2023	1.62m
GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m
DHIYAMIGILI	0958Z	11Oct2023	1.34m
MALE	1006Z	11Oct2023	0.86m
THINADHOO	1014Z	11Oct2023	1.26m
KOLHUFUSHI	1026Z	11Oct2023	0.80m
HITHADHOO	1028Z	11Oct2023	0.90m

MAURITIUS

AGALEGA ISLAND	1154Z	11Oct2023	0.62m
CARGADOS CARAJOS	1328Z	11Oct2023	0.58m
LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
AL KHABURAH	0616Z	11Oct2023	7.75m
QURAYYAT	0616Z	11Oct2023	9.35m
SUR	0622Z	11Oct2023	7.84m
SOHAR	0626Z	11Oct2023	4.56m
AL ASHKHARAH	0630Z	11Oct2023	4.65m
EAST MUSANDAM	0644Z	11Oct2023	3.60m
RAS AR RUWAYS	0652Z	11Oct2023	2.45m
MASIRAH	0656Z	11Oct2023	2.18m
AD DUQM	0720Z	11Oct2023	1.62m
HASIK	0748Z	11Oct2023	1.30m
AL JAZER	0748Z	11Oct2023	1.15m
MIRBAT	0802Z	11Oct2023	1.00m
TAQAH	0810Z	11Oct2023	0.99m
SALALAH	0816Z	11Oct2023	1.18m

PAKISTAN

ORMARA	0600Z	11Oct2023	8.31m
WINDER	0606Z	11Oct2023	3.66m
KARACHI	0654Z	11Oct2023	2.87m
SINDH	0710Z	11Oct2023	2.35m

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SEYCHELLES

FREGATE ISLAND	1038Z	11Oct2023	1.55m
ILE DESROCHES	1056Z	11Oct2023	0.64m
TAKAMAKA	1120Z	11Oct2023	1.16m
COETIVY ISLAND	1128Z	11Oct2023	0.52m

SOMALIA

TOOXIN	0922Z	11Oct2023	0.76m
ABO	0922Z	11Oct2023	1.14m
QANDALA	0932Z	11Oct2023	0.75m
BANDER-BEYLA	0932Z	11Oct2023	0.72m
EYL	0940Z	11Oct2023	0.85m
HADAAFTIMO	0946Z	11Oct2023	0.57m
BOSASO	0948Z	11Oct2023	0.67m
JARIIBAN	0954Z	11Oct2023	0.81m
MAYDH	1000Z	11Oct2023	0.70m
GALDOGOB	1002Z	11Oct2023	0.71m
KABURA	1018Z	11Oct2023	0.80m
BAKI	1030Z	11Oct2023	0.82m
XARARDHEERE	1030Z	11Oct2023	0.61m
CEEL DHEER	1042Z	11Oct2023	0.53m
SAYLAC	1104Z	11Oct2023	0.89m
LOYADO	1112Z	11Oct2023	0.96m

TANZANIA

BOMALANDNI	1252Z	11Oct2023	0.54m
WEST TO KONDE	1252Z	11Oct2023	0.58m
BAGAMOYO	1302Z	11Oct2023	0.60m

UNITED ARAB EMIRATES

KALBA	0628Z	11Oct2023	3.62m
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UNITED KINGDOM

MORESBY ISLAND	1100Z	11Oct2023	1.41m
NW EGMONT ISLAND	1110Z	11Oct2023	1.16m
DIEGO GARCIA	1150Z	11Oct2023	1.08m

YEMEN

SOCOTRA ISLAND SOUTH	0828Z	11Oct2023	1.20m
DAMQAWT	0832Z	11Oct2023	1.08m
SOCOTRA ISLAND NORTH	0836Z	11Oct2023	1.31m
AL GHAYDAH AIRPORT	0838Z	11Oct2023	1.30m
HUSWAYN	0850Z	11Oct2023	0.89m
SOCOTRA ISLAND WEST	0854Z	11Oct2023	1.09m
ALQUMRAH	0904Z	11Oct2023	0.84m
MASILAH WADI	0910Z	11Oct2023	0.73m
HARRAH	0916Z	11Oct2023	0.76m
EAST TO HAMI	0920Z	11Oct2023	0.66m
HAMI	0924Z	11Oct2023	0.89m
AL MUKALLA	0926Z	11Oct2023	1.00m
BROM MAYFA	0930Z	11Oct2023	0.88m
RUDUM	0942Z	11Oct2023	0.76m
AHWAR	1000Z	11Oct2023	0.70m
KHANFAR	1026Z	11Oct2023	0.83m
ADEN	1046Z	11Oct2023	0.65m
MA'ALLAH	1050Z	11Oct2023	0.94m
QAWAH	1110Z	11Oct2023	0.98m
AL MUALLA	1136Z	11Oct2023	0.82m

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

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#  
#   TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT  
#  
#####  
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BULLETIN 5

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

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TSUNAMI BULLETIN NUMBER 5 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 0730 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24

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

HEARD ISLAND AND MCDONALD ISLANDS 1940Z 11Oct2023 0.99m
AURORA BANK 2112Z 11Oct2023 0.52m

DJIBOUTI

NW ARTA 1112Z 11Oct2023 2.03m
MUHAMMAD ALI BIN FATHA SUMANA 1112Z 11Oct2023 1.72m

FRANCE

SAINT-DENIS 1330Z 11Oct2023 0.52m
ILE SAINT-PAUL-NORTH 1632Z 11Oct2023 0.71m
ILE SAINT-PAUL-SOUTH 1644Z 11Oct2023 0.63m
CROZET PLATEAU 1842Z 11Oct2023 0.66m
ILE KERGUELEN 1858Z 11Oct2023 1.04m

INDIA

MANDVI 0748Z 11Oct2023 2.27m
PORBANDAR 0754Z 11Oct2023 1.31m
DWARKA 0756Z 11Oct2023 1.91m
JAMNAGAR 0800Z 11Oct2023 1.52m
MANGROL 0816Z 11Oct2023 1.38m
HAZIRA, DIU 0830Z 11Oct2023 1.44m
AGATTI 0848Z 11Oct2023 1.81m
AMINI 0850Z 11Oct2023 1.74m
KAVARATTI 0858Z 11Oct2023 1.30m
MALVAN BAY 0904Z 11Oct2023 1.19m
ANDROTH 0912Z 11Oct2023 1.70m
PANAJI 0916Z 11Oct2023 1.24m
VASCO 0916Z 11Oct2023 1.32m
MINICOY 0916Z 11Oct2023 1.10m
JAIGARH 0918Z 11Oct2023 1.25m
KARWAR 0926Z 11Oct2023 1.25m
UDUPI 0944Z 11Oct2023 1.37m
MANGALORE 0946Z 11Oct2023 1.15m
KASARAGOD 0950Z 11Oct2023 1.24m
PIPAVAV 0952Z 11Oct2023 1.23m
MAHUVA 0956Z 11Oct2023 1.16m
KHAMBAT 0958Z 11Oct2023 1.03m
ALLEPPEY ALAPPUZHA 1000Z 11Oct2023 1.31m
MAHE 1000Z 11Oct2023 1.44m
VADANAPPALLY 1002Z 11Oct2023 1.23m
KANNUR 1002Z 11Oct2023 1.36m

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BEYPORE	1004Z	11Oct2023	1.45m
COCHIN	1004Z	11Oct2023	1.16m
VAKKAD	1004Z	11Oct2023	1.39m
BHARUCH	1004Z	11Oct2023	0.99m
TARAPUR	1006Z	11Oct2023	0.94m
QUILON	1006Z	11Oct2023	1.21m
MUMBAI	1008Z	11Oct2023	1.16m
ALIBAG PORT	1008Z	11Oct2023	1.16m
DAMAN	1014Z	11Oct2023	0.90m
BORSI	1014Z	11Oct2023	0.90m
HAZIRA	1016Z	11Oct2023	1.00m
TRIVANDRUM	1018Z	11Oct2023	0.93m
KANYAKUMARI	1034Z	11Oct2023	0.76m
KOODANKULAM	1108Z	11Oct2023	0.61m

IRAN

PUSHT	0600Z	11Oct2023	5.59m
BIR	0600Z	11Oct2023	9.01m
MISKI	0642Z	11Oct2023	2.55m

KENYA

KISIMACHANDE	1300Z	11Oct2023	0.53m
KIPINI	1422Z	11Oct2023	0.56m
MALINDI	1422Z	11Oct2023	0.60m

MADAGASCAR

VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
TAMPOLO	1728Z	11Oct2023	0.74m

MALDIVES

KULHUDUFFUSHI	0922Z	11Oct2023	1.62m
GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m
DHIYAMIGILI	0958Z	11Oct2023	1.34m
MALE	1006Z	11Oct2023	0.86m
THINADHOO	1014Z	11Oct2023	1.26m
KOLHUFUSHI	1026Z	11Oct2023	0.80m
HITHADHOO	1028Z	11Oct2023	0.90m

MAURITIUS

AGALEGA ISLAND	1154Z	11Oct2023	0.62m
CARGADOS CARAJOS	1328Z	11Oct2023	0.58m
LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
AL KHABURAH	0616Z	11Oct2023	7.75m
QURAYYAT	0616Z	11Oct2023	9.35m
SUR	0622Z	11Oct2023	7.84m
SOHAR	0626Z	11Oct2023	4.56m
AL ASHKHARAH	0630Z	11Oct2023	4.65m
EAST MUSANDAM	0644Z	11Oct2023	3.60m
RAS AR RUWAYS	0652Z	11Oct2023	2.45m
MASIRAH	0656Z	11Oct2023	2.18m
AD DUQM	0720Z	11Oct2023	1.62m
HASIK	0748Z	11Oct2023	1.30m
AL JAZER	0748Z	11Oct2023	1.15m
MIRBAT	0802Z	11Oct2023	1.00m

TAQAH	0810Z	11Oct2023	0.99m
SALALAH	0816Z	11Oct2023	1.18m

PAKISTAN

ORMARA	0600Z	11Oct2023	8.31m
WINDER	0606Z	11Oct2023	3.66m
KARACHI	0654Z	11Oct2023	2.87m
SINDH	0710Z	11Oct2023	2.35m

SEYCHELLES

FREGATE ISLAND	1038Z	11Oct2023	1.55m
ILE DESROCHES	1056Z	11Oct2023	0.64m
TAKAMAKA	1120Z	11Oct2023	1.16m
COETIVY ISLAND	1128Z	11Oct2023	0.52m

SOMALIA

TOOXIN	0922Z	11Oct2023	0.76m
ABO	0922Z	11Oct2023	1.14m
QANDALA	0932Z	11Oct2023	0.75m
BANDER-BEYLA	0932Z	11Oct2023	0.72m
EYL	0940Z	11Oct2023	0.85m
HADAAFTIMO	0946Z	11Oct2023	0.57m
BOSASO	0948Z	11Oct2023	0.67m
JARIIBAN	0954Z	11Oct2023	0.81m
MAYDH	1000Z	11Oct2023	0.70m
GALDOGOB	1002Z	11Oct2023	0.71m
KABURA	1018Z	11Oct2023	0.80m
BAKI	1030Z	11Oct2023	0.82m
XARARDHEERE	1030Z	11Oct2023	0.61m
CEEL DHEER	1042Z	11Oct2023	0.53m
SAYLAC	1104Z	11Oct2023	0.89m
LOYADO	1112Z	11Oct2023	0.96m

TANZANIA

BOMALANDNI	1252Z	11Oct2023	0.54m
WEST TO KONDE	1252Z	11Oct2023	0.58m
BAGAMOYO	1302Z	11Oct2023	0.60m

UNITED ARAB EMIRATES

KALBA	0628Z	11Oct2023	3.62m
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UNITED KINGDOM

MORESBY ISLAND	1100Z	11Oct2023	1.41m
NW EGMONT ISLAND	1110Z	11Oct2023	1.16m
DIEGO GARCIA	1150Z	11Oct2023	1.08m

YEMEN

SOCOTRA ISLAND SOUTH	0828Z	11Oct2023	1.20m
DAMQAWT	0832Z	11Oct2023	1.08m
SOCOTRA ISLAND NORTH	0836Z	11Oct2023	1.31m
AL GHAYDAH AIRPORT	0838Z	11Oct2023	1.30m
HUSWAYN	0850Z	11Oct2023	0.89m
SOCOTRA ISLAND WEST	0854Z	11Oct2023	1.09m
ALQUMRAH	0904Z	11Oct2023	0.84m
MASILAH WADI	0910Z	11Oct2023	0.73m
HARRAH	0916Z	11Oct2023	0.76m
EAST TO HAMI	0920Z	11Oct2023	0.66m
HAMI	0924Z	11Oct2023	0.89m
AL MUKALLA	0926Z	11Oct2023	1.00m
BROM MAYFA	0930Z	11Oct2023	0.88m
RUDUM	0942Z	11Oct2023	0.76m

AHWAR	1000Z	11Oct2023	0.70m
KHANFAR	1026Z	11Oct2023	0.83m
ADEN	1046Z	11Oct2023	0.65m
MA'ALLAH	1050Z	11Oct2023	0.94m
QAWAH	1110Z	11Oct2023	0.98m
AL MUALLA	1136Z	11Oct2023	0.82m

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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

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BULLETIN 6

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - 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 Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
Ormara UTC	PAKISTAN	25.20N	64.07E	4.80m	11 Oct 07:38
Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07

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

HEARD ISLAND AND MCDONALD ISLANDS	1940Z	11Oct2023	0.99m
AURORA BANK	2112Z	11Oct2023	0.52m

DJIBOUTI

NW ARTA	1112Z	11Oct2023	2.03m
MUHAMMAD ALI BIN FATHA SUMANA	1112Z	11Oct2023	1.72m

FRANCE

SAINT-DENIS	1330Z	11Oct2023	0.52m
ILE SAINT-PAUL-NORTH	1632Z	11Oct2023	0.71m
ILE SAINT-PAUL-SOUTH	1644Z	11Oct2023	0.63m
CROZET PLATEAU	1842Z	11Oct2023	0.66m
ILE KERGUELEN	1858Z	11Oct2023	1.04m

INDIA

MANDVI	0748Z	11Oct2023	2.27m
PORBANDAR	0754Z	11Oct2023	1.31m
DWARKA	0756Z	11Oct2023	1.91m
JAMNAGAR	0800Z	11Oct2023	1.52m
MANGROL	0816Z	11Oct2023	1.38m
HAZIRA, DIU	0830Z	11Oct2023	1.44m
AGATTI	0848Z	11Oct2023	1.81m
AMINI	0850Z	11Oct2023	1.74m
KAVARATTI	0858Z	11Oct2023	1.30m
MALVAN BAY	0904Z	11Oct2023	1.19m
ANDROTH	0912Z	11Oct2023	1.70m
PANAJI	0916Z	11Oct2023	1.24m
VASCO	0916Z	11Oct2023	1.32m
MINICOY	0916Z	11Oct2023	1.10m
JAIGARH	0918Z	11Oct2023	1.25m
KARWAR	0926Z	11Oct2023	1.25m
UDUPI	0944Z	11Oct2023	1.37m
MANGALORE	0946Z	11Oct2023	1.15m
KASARAGOD	0950Z	11Oct2023	1.24m
PIPAVAV	0952Z	11Oct2023	1.23m
MAHUVA	0956Z	11Oct2023	1.16m
KHAMBAT	0958Z	11Oct2023	1.03m
ALLEPPEY ALAPPUZHA	1000Z	11Oct2023	1.31m

MAHE	1000Z	11Oct2023	1.44m
VADANAPPALLY	1002Z	11Oct2023	1.23m
KANNUR	1002Z	11Oct2023	1.36m
BEYPORE	1004Z	11Oct2023	1.45m
COCHIN	1004Z	11Oct2023	1.16m
VAKKAD	1004Z	11Oct2023	1.39m
BHARUCH	1004Z	11Oct2023	0.99m
TARAPUR	1006Z	11Oct2023	0.94m
QUILON	1006Z	11Oct2023	1.21m
MUMBAI	1008Z	11Oct2023	1.16m
ALIBAG PORT	1008Z	11Oct2023	1.16m
DAMAN	1014Z	11Oct2023	0.90m
BORSI	1014Z	11Oct2023	0.90m
HAZIRA	1016Z	11Oct2023	1.00m
TRIVANDRUM	1018Z	11Oct2023	0.93m
KANYAKUMARI	1034Z	11Oct2023	0.76m
KOODANKULAM	1108Z	11Oct2023	0.61m

IRAN

PUSHT	0600Z	11Oct2023	5.59m
BIR	0600Z	11Oct2023	9.01m
MISKI	0642Z	11Oct2023	2.55m

KENYA

KISIMACHANDE	1300Z	11Oct2023	0.53m
KIPINI	1422Z	11Oct2023	0.56m
MALINDI	1422Z	11Oct2023	0.60m

MADAGASCAR

VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
TAMPOLO	1728Z	11Oct2023	0.74m

MALDIVES

KULHUDUFFUSHI	0922Z	11Oct2023	1.62m
GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m
DHIYAMIGILI	0958Z	11Oct2023	1.34m
MALE	1006Z	11Oct2023	0.86m
THINADHOO	1014Z	11Oct2023	1.26m
KOLHUFUSHI	1026Z	11Oct2023	0.80m
HITHADHOO	1028Z	11Oct2023	0.90m

MAURITIUS

AGALEGA ISLAND	1154Z	11Oct2023	0.62m
CARGADOS CARAJOS	1328Z	11Oct2023	0.58m
LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
AL KHABURAH	0616Z	11Oct2023	7.75m
QURAYYAT	0616Z	11Oct2023	9.35m
SUR	0622Z	11Oct2023	7.84m
SOHAR	0626Z	11Oct2023	4.56m
AL ASHKHARAH	0630Z	11Oct2023	4.65m
EAST MUSANDAM	0644Z	11Oct2023	3.60m
RAS AR RUWAYS	0652Z	11Oct2023	2.45m
MASIRAH	0656Z	11Oct2023	2.18m
AD DUQM	0720Z	11Oct2023	1.62m

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HASIK	0748Z	11Oct2023	1.30m
AL JAZER	0748Z	11Oct2023	1.15m
MIRBAT	0802Z	11Oct2023	1.00m
TAQAH	0810Z	11Oct2023	0.99m
SALALAH	0816Z	11Oct2023	1.18m

PAKISTAN

ORMARA	0600Z	11Oct2023	8.31m
WINDER	0606Z	11Oct2023	3.66m
KARACHI	0654Z	11Oct2023	2.87m
SINDH	0710Z	11Oct2023	2.35m

SEYCHELLES

FREGATE ISLAND	1038Z	11Oct2023	1.55m
ILE DESROCHES	1056Z	11Oct2023	0.64m
TAKAMAKA	1120Z	11Oct2023	1.16m
COETIVY ISLAND	1128Z	11Oct2023	0.52m

SOMALIA

TOOXIN	0922Z	11Oct2023	0.76m
ABO	0922Z	11Oct2023	1.14m
QANDALA	0932Z	11Oct2023	0.75m
BANDER-BEYLA	0932Z	11Oct2023	0.72m
EYL	0940Z	11Oct2023	0.85m
HADAAFTIMO	0946Z	11Oct2023	0.57m
BOSASO	0948Z	11Oct2023	0.67m
JARIIBAN	0954Z	11Oct2023	0.81m
MAYDH	1000Z	11Oct2023	0.70m
GALDOGOB	1002Z	11Oct2023	0.71m
KABURA	1018Z	11Oct2023	0.80m
BAKI	1030Z	11Oct2023	0.82m
XARARDHEERE	1030Z	11Oct2023	0.61m
CEEL DHEER	1042Z	11Oct2023	0.53m
SAYLAC	1104Z	11Oct2023	0.89m
LOYADO	1112Z	11Oct2023	0.96m

TANZANIA

BOMALANDNI	1252Z	11Oct2023	0.54m
WEST TO KONDE	1252Z	11Oct2023	0.58m
BAGAMOYO	1302Z	11Oct2023	0.60m

UNITED ARAB EMIRATES

KALBA	0628Z	11Oct2023	3.62m
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UNITED KINGDOM

MORESBY ISLAND	1100Z	11Oct2023	1.41m
NW EGMONT ISLAND	1110Z	11Oct2023	1.16m
DIEGO GARCIA	1150Z	11Oct2023	1.08m

YEMEN

SOCOTRA ISLAND SOUTH	0828Z	11Oct2023	1.20m
DAMQAWT	0832Z	11Oct2023	1.08m
SOCOTRA ISLAND NORTH	0836Z	11Oct2023	1.31m
AL GHAYDAH AIRPORT	0838Z	11Oct2023	1.30m
HUSWAYN	0850Z	11Oct2023	0.89m
SOCOTRA ISLAND WEST	0854Z	11Oct2023	1.09m
ALQUMRAH	0904Z	11Oct2023	0.84m
MASILAH WADI	0910Z	11Oct2023	0.73m
HARRAH	0916Z	11Oct2023	0.76m
EAST TO HAMI	0920Z	11Oct2023	0.66m
HAMI	0924Z	11Oct2023	0.89m

AL MUKALLA	0926Z	11Oct2023	1.00m
BROM MAYFA	0930Z	11Oct2023	0.88m
RUDUM	0942Z	11Oct2023	0.76m
AHWAR	1000Z	11Oct2023	0.70m
KHANFAR	1026Z	11Oct2023	0.83m
ADEN	1046Z	11Oct2023	0.65m
MA'ALLAH	1050Z	11Oct2023	0.94m
QAWAH	1110Z	11Oct2023	0.98m
AL MUALLA	1136Z	11Oct2023	0.82m

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

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#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT  
#  
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BULLETIN 7

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 7 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 0930 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
Ormara UTC	PAKISTAN	25.20N	64.07E	4.80m	11 Oct 07:38
Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07
Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15

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

HEARD ISLAND AND MCDONALD ISLANDS	1940Z	11Oct2023	0.99m
AURORA BANK	2112Z	11Oct2023	0.52m

DJIBOUTI

NW ARTA	1112Z	11Oct2023	2.03m
MUHAMMAD ALI BIN FATHA SUMANA	1112Z	11Oct2023	1.72m

FRANCE

SAINT-DENIS	1330Z	11Oct2023	0.52m
ILE SAINT-PAUL-NORTH	1632Z	11Oct2023	0.71m
ILE SAINT-PAUL-SOUTH	1644Z	11Oct2023	0.63m
CROZET PLATEAU	1842Z	11Oct2023	0.66m
ILE KERGUELEN	1858Z	11Oct2023	1.04m

INDIA

MANDVI	0748Z	11Oct2023	2.27m
PORBANDAR	0754Z	11Oct2023	1.31m
DWARKA	0756Z	11Oct2023	1.91m
JAMNAGAR	0800Z	11Oct2023	1.52m
MANGROL	0816Z	11Oct2023	1.38m
HAZIRA, DIU	0830Z	11Oct2023	1.44m
AGATTI	0848Z	11Oct2023	1.81m
AMINI	0850Z	11Oct2023	1.74m
KAVARATTI	0858Z	11Oct2023	1.30m
MALVAN BAY	0904Z	11Oct2023	1.19m
ANDROTH	0912Z	11Oct2023	1.70m
PANAJI	0916Z	11Oct2023	1.24m
VASCO	0916Z	11Oct2023	1.32m
MINICOY	0916Z	11Oct2023	1.10m
JAIGARH	0918Z	11Oct2023	1.25m
KARWAR	0926Z	11Oct2023	1.25m
UDUPI	0944Z	11Oct2023	1.37m
MANGALORE	0946Z	11Oct2023	1.15m
KASARAGOD	0950Z	11Oct2023	1.24m
PIPAVAV	0952Z	11Oct2023	1.23m

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MAHUVA	0956Z	11Oct2023	1.16m
KHAMBAT	0958Z	11Oct2023	1.03m
ALLEPPEY ALAPPUZHA	1000Z	11Oct2023	1.31m
MAHE	1000Z	11Oct2023	1.44m
VADANAPPALLY	1002Z	11Oct2023	1.23m
KANNUR	1002Z	11Oct2023	1.36m
BEYPORE	1004Z	11Oct2023	1.45m
COCHIN	1004Z	11Oct2023	1.16m
VAKKAD	1004Z	11Oct2023	1.39m
BHARUCH	1004Z	11Oct2023	0.99m
TARAPUR	1006Z	11Oct2023	0.94m
QUILON	1006Z	11Oct2023	1.21m
MUMBAI	1008Z	11Oct2023	1.16m
ALIBAG PORT	1008Z	11Oct2023	1.16m
DAMAN	1014Z	11Oct2023	0.90m
BORSI	1014Z	11Oct2023	0.90m
HAZIRA	1016Z	11Oct2023	1.00m
TRIVANDRUM	1018Z	11Oct2023	0.93m
KANYAKUMARI	1034Z	11Oct2023	0.76m
KOODANKULAM	1108Z	11Oct2023	0.61m

IRAN

PUSHT	0600Z	11Oct2023	5.59m
BIR	0600Z	11Oct2023	9.01m
MISKI	0642Z	11Oct2023	2.55m

KENYA

KISIMACHANDE	1300Z	11Oct2023	0.53m
KIPINI	1422Z	11Oct2023	0.56m
MALINDI	1422Z	11Oct2023	0.60m

MADAGASCAR

VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
TAMPOLO	1728Z	11Oct2023	0.74m

MALDIVES

KULHUDUFFUSHI	0922Z	11Oct2023	1.62m
GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m
DHIYAMIGILI	0958Z	11Oct2023	1.34m
MALE	1006Z	11Oct2023	0.86m
THINADHOO	1014Z	11Oct2023	1.26m
KOLHUFUSHI	1026Z	11Oct2023	0.80m
HITHADHOO	1028Z	11Oct2023	0.90m

MAURITIUS

AGALEGA ISLAND	1154Z	11Oct2023	0.62m
CARGADOS CARAJOS	1328Z	11Oct2023	0.58m
LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
AL KHABURAH	0616Z	11Oct2023	7.75m
QURAYYAT	0616Z	11Oct2023	9.35m
SUR	0622Z	11Oct2023	7.84m
SOHAR	0626Z	11Oct2023	4.56m
AL ASHKHARAH	0630Z	11Oct2023	4.65m
EAST MUSANDAM	0644Z	11Oct2023	3.60m

RAS AR RUWAYS	0652Z	11Oct2023	2.45m
MASIRAH	0656Z	11Oct2023	2.18m
AD DUQM	0720Z	11Oct2023	1.62m
HASIK	0748Z	11Oct2023	1.30m
AL JAZER	0748Z	11Oct2023	1.15m
MIRBAT	0802Z	11Oct2023	1.00m
TAQAH	0810Z	11Oct2023	0.99m
SALALAH	0816Z	11Oct2023	1.18m

PAKISTAN

ORMARA	0600Z	11Oct2023	8.31m
WINDER	0606Z	11Oct2023	3.66m
KARACHI	0654Z	11Oct2023	2.87m
SINDH	0710Z	11Oct2023	2.35m

SEYCHELLES

FREGATE ISLAND	1038Z	11Oct2023	1.55m
ILE DESROCHES	1056Z	11Oct2023	0.64m
TAKAMAKA	1120Z	11Oct2023	1.16m
COETIVY ISLAND	1128Z	11Oct2023	0.52m

SOMALIA

TOOXIN	0922Z	11Oct2023	0.76m
ABO	0922Z	11Oct2023	1.14m
QANDALA	0932Z	11Oct2023	0.75m
BANDER-BEYLA	0932Z	11Oct2023	0.72m
EYL	0940Z	11Oct2023	0.85m
HADAAFTIMO	0946Z	11Oct2023	0.57m
BOSASO	0948Z	11Oct2023	0.67m
JARIIBAN	0954Z	11Oct2023	0.81m
MAYDH	1000Z	11Oct2023	0.70m
GALDOGOB	1002Z	11Oct2023	0.71m
KABURA	1018Z	11Oct2023	0.80m
BAKI	1030Z	11Oct2023	0.82m
XARARDHEERE	1030Z	11Oct2023	0.61m
CEEL DHEER	1042Z	11Oct2023	0.53m
SAYLAC	1104Z	11Oct2023	0.89m
LOYADO	1112Z	11Oct2023	0.96m

TANZANIA

BOMALANDNI	1252Z	11Oct2023	0.54m
WEST TO KONDE	1252Z	11Oct2023	0.58m
BAGAMOYO	1302Z	11Oct2023	0.60m

UNITED ARAB EMIRATES

KALBA	0628Z	11Oct2023	3.62m
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UNITED KINGDOM

MORESBY ISLAND	1100Z	11Oct2023	1.41m
NW EGMONT ISLAND	1110Z	11Oct2023	1.16m
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YEMEN

SOCOTRA ISLAND SOUTH	0828Z	11Oct2023	1.20m
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SOCOTRA ISLAND NORTH	0836Z	11Oct2023	1.31m
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HUSWAYN	0850Z	11Oct2023	0.89m
SOCOTRA ISLAND WEST	0854Z	11Oct2023	1.09m
ALQUMRAH	0904Z	11Oct2023	0.84m
MASILAH WADI	0910Z	11Oct2023	0.73m

HARRAH	0916Z	11Oct2023	0.76m
EAST TO HAMI	0920Z	11Oct2023	0.66m
HAMI	0924Z	11Oct2023	0.89m
AL MUKALLA	0926Z	11Oct2023	1.00m
BROM MAYFA	0930Z	11Oct2023	0.88m
RUDUM	0942Z	11Oct2023	0.76m
AHWAR	1000Z	11Oct2023	0.70m
KHANFAR	1026Z	11Oct2023	0.83m
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MA'ALLAH	1050Z	11Oct2023	0.94m
QAWAH	1110Z	11Oct2023	0.98m
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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.

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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

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BULLETIN 8

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

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TSUNAMI BULLETIN NUMBER 8 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1030 UTC Wednesday 11 October 2023

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

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

Magnitude: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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Maximum wave amplitudes observed so far:

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Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15
Mormugao UTC	INDIA	15.40N	73.78E	1.75m	11 Oct 09:36

Male UTC	MALDIVES	4.20N	73.53E	0.56m	11 Oct 10:08
Hanimadhoo UTC	MALDIVES	6.80N	73.17E	0.56m	11 Oct 10:15
Aden UTC	YEMEN	12.80N	44.97E	0.37m	11 Oct 10:20
Gan UTC	MALDIVES	0.70S	73.15E	0.73m	11 Oct 10:21

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

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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, 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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MINICOY	0916Z	11Oct2023	1.10m
JAIGARH	0918Z	11Oct2023	1.25m
KARWAR	0926Z	11Oct2023	1.25m
UDUPI	0944Z	11Oct2023	1.37m
MANGALORE	0946Z	11Oct2023	1.15m
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COCHIN	1004Z	11Oct2023	1.16m
VAKKAD	1004Z	11Oct2023	1.39m
BHARUCH	1004Z	11Oct2023	0.99m
TARAPUR	1006Z	11Oct2023	0.94m
QUILON	1006Z	11Oct2023	1.21m
MUMBAI	1008Z	11Oct2023	1.16m
ALIBAG PORT	1008Z	11Oct2023	1.16m
DAMAN	1014Z	11Oct2023	0.90m
BORSI	1014Z	11Oct2023	0.90m
HAZIRA	1016Z	11Oct2023	1.00m
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MALE	1006Z	11Oct2023	0.86m
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MAURITIUS

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OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
QURAYYAT	0616Z	11Oct2023	9.35m
AL KHABURAH	0616Z	11Oct2023	7.75m
SUR	0622Z	11Oct2023	7.84m
SOHAR	0626Z	11Oct2023	4.56m
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COETIVY ISLAND	1128Z	11Oct2023	0.52m

SOMALIA

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ABO	0922Z	11Oct2023	1.14m
QANDALA	0932Z	11Oct2023	0.75m
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EYL	0940Z	11Oct2023	0.85m
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BOSASO	0948Z	11Oct2023	0.67m
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KABURA	1018Z	11Oct2023	0.80m
BAKI	1030Z	11Oct2023	0.82m
XARARDHEERE	1030Z	11Oct2023	0.61m
CEEL DHEER	1042Z	11Oct2023	0.53m
SAYLAC	1104Z	11Oct2023	0.89m
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TANZANIA

BOMALANDNI	1252Z	11Oct2023	0.54m
WEST TO KONDE	1252Z	11Oct2023	0.58m
BAGAMOYO	1302Z	11Oct2023	0.60m

UNITED ARAB EMIRATES

KALBA	0628Z	11Oct2023	3.62m
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UNITED KINGDOM

MORESBY ISLAND	1100Z	11Oct2023	1.41m
NW EGMONT ISLAND	1110Z	11Oct2023	1.16m
DIEGO GARCIA	1150Z	11Oct2023	1.08m

YEMEN

SOCOTRA ISLAND SOUTH	0828Z	11Oct2023	1.20m
DAMQAWT	0832Z	11Oct2023	1.08m
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5. UPDATES

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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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 9

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

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TSUNAMI BULLETIN NUMBER 9 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1130 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
Ormara UTC	PAKISTAN	25.20N	64.07E	4.80m	11 Oct 07:38
Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07
Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15

Mormugao UTC	INDIA	15.40N	73.78E	1.75m	11 Oct 09:36
Male UTC	MALDIVES	4.20N	73.53E	0.56m	11 Oct 10:08
Hanimadhoo UTC	MALDIVES	6.80N	73.17E	0.56m	11 Oct 10:15
Aden UTC	YEMEN	12.80N	44.97E	0.37m	11 Oct 10:20
Gan UTC	MALDIVES	0.70S	73.15E	0.73m	11 Oct 10:21
Cochin UTC	INDIA	10.00N	76.17E	1.39m	11 Oct 10:26
Denis Island UTC	SEYCHELLES	3.80S	55.67E	0.41m	11 Oct 10:30
Colombo UTC	SRI LANKA	7.00N	79.85E	0.74m	11 Oct 11:00
Kirinda UTC	SRI LANKA	6.20N	81.32E	0.18m	11 Oct 11:16

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

HEARD ISLAND AND MCDONALD ISLANDS	1940Z	11Oct2023	0.99m
AURORA BANK	2112Z	11Oct2023	0.52m

DJIBOUTI

NW ARTA	1112Z	11Oct2023	2.03m
MUHAMMAD ALI BIN FATHA SUMANA	1112Z	11Oct2023	1.72m

FRANCE

SAINT-DENIS	1330Z	11Oct2023	0.52m
ILE SAINT-PAUL-NORTH	1632Z	11Oct2023	0.71m
ILE SAINT-PAUL-SOUTH	1644Z	11Oct2023	0.63m
CROZET PLATEAU	1842Z	11Oct2023	0.66m
ILE KERGUELEN	1858Z	11Oct2023	1.04m

INDIA

MANDVI	0748Z	11Oct2023	2.27m
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PORBANDAR	0754Z	11Oct2023	1.31m
DWARKA	0756Z	11Oct2023	1.91m
JAMNAGAR	0800Z	11Oct2023	1.52m
MANGROL	0816Z	11Oct2023	1.38m
HAZIRA, DIU	0830Z	11Oct2023	1.44m
AGATTI	0848Z	11Oct2023	1.81m
AMINI	0850Z	11Oct2023	1.74m
KAVARATTI	0858Z	11Oct2023	1.30m
MALVAN BAY	0904Z	11Oct2023	1.19m
ANDROTH	0912Z	11Oct2023	1.70m
PANAJI	0916Z	11Oct2023	1.24m
VASCO	0916Z	11Oct2023	1.32m
MINICOY	0916Z	11Oct2023	1.10m
JAIGARH	0918Z	11Oct2023	1.25m
KARWAR	0926Z	11Oct2023	1.25m
UDUPI	0944Z	11Oct2023	1.37m
MANGALORE	0946Z	11Oct2023	1.15m
KASARAGOD	0950Z	11Oct2023	1.24m
PIPAVAV	0952Z	11Oct2023	1.23m
MAHUVA	0956Z	11Oct2023	1.16m
KHAMBAT	0958Z	11Oct2023	1.03m
ALLEPPEY ALAPPUZHA	1000Z	11Oct2023	1.31m
MAHE	1000Z	11Oct2023	1.44m
VADANAPPALLY	1002Z	11Oct2023	1.23m
KANNUR	1002Z	11Oct2023	1.36m
BEYPORE	1004Z	11Oct2023	1.45m
COCHIN	1004Z	11Oct2023	1.16m
VAKKAD	1004Z	11Oct2023	1.39m
BHARUCH	1004Z	11Oct2023	0.99m
TARAPUR	1006Z	11Oct2023	0.94m
QUILON	1006Z	11Oct2023	1.21m
MUMBAI	1008Z	11Oct2023	1.16m
ALIBAG PORT	1008Z	11Oct2023	1.16m
DAMAN	1014Z	11Oct2023	0.90m
BORSI	1014Z	11Oct2023	0.90m
HAZIRA	1016Z	11Oct2023	1.00m
TRIVANDRUM	1018Z	11Oct2023	0.93m
KANYAKUMARI	1034Z	11Oct2023	0.76m
KOODANKULAM	1108Z	11Oct2023	0.61m

IRAN

PUSHT	0600Z	11Oct2023	5.59m
BIR	0600Z	11Oct2023	9.01m
MISKI	0642Z	11Oct2023	2.55m

KENYA

KISIMACHANDE	1300Z	11Oct2023	0.53m
KIPINI	1422Z	11Oct2023	0.56m
MALINDI	1422Z	11Oct2023	0.60m

MADAGASCAR

VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
TAMPOLO	1728Z	11Oct2023	0.74m

MALDIVES

KULHUDUFFUSHI	0922Z	11Oct2023	1.62m
GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m
DHIYAMIGILI	0958Z	11Oct2023	1.34m

MALE	1006Z	11Oct2023	0.86m
THINADHOO	1014Z	11Oct2023	1.26m
KOLHUFUSHI	1026Z	11Oct2023	0.80m
HITHADHOO	1028Z	11Oct2023	0.90m

MAURITIUS

AGALEGA ISLAND	1154Z	11Oct2023	0.62m
CARGADOS CARAJOS	1328Z	11Oct2023	0.58m
LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
AL KHABURAH	0616Z	11Oct2023	7.75m
QURAYYAT	0616Z	11Oct2023	9.35m
SUR	0622Z	11Oct2023	7.84m
SOHAR	0626Z	11Oct2023	4.56m
EAST MUSANDAM	0644Z	11Oct2023	3.60m
RAS AR RUWAYS	0652Z	11Oct2023	2.45m
MASIRAH	0656Z	11Oct2023	2.18m
AD DUQM	0720Z	11Oct2023	1.62m
HASIK	0748Z	11Oct2023	1.30m

PAKISTAN

ORMARA	0600Z	11Oct2023	8.31m
WINDER	0606Z	11Oct2023	3.66m
KARACHI	0654Z	11Oct2023	2.87m
SINDH	0710Z	11Oct2023	2.35m

SEYCHELLES

FREGATE ISLAND	1038Z	11Oct2023	1.55m
ILE DESROCHES	1056Z	11Oct2023	0.64m
TAKAMAKA	1120Z	11Oct2023	1.16m
COETIVY ISLAND	1128Z	11Oct2023	0.52m

SOMALIA

TOOXIN	0922Z	11Oct2023	0.76m
ABO	0922Z	11Oct2023	1.14m
QANDALA	0932Z	11Oct2023	0.75m
BANDER-BEYLA	0932Z	11Oct2023	0.72m
EYL	0940Z	11Oct2023	0.85m
HADAAFTIMO	0946Z	11Oct2023	0.57m
BOSASO	0948Z	11Oct2023	0.67m
JARIIBAN	0954Z	11Oct2023	0.81m
MAYDH	1000Z	11Oct2023	0.70m
GALDOGOB	1002Z	11Oct2023	0.71m
KABURA	1018Z	11Oct2023	0.80m
BAKI	1030Z	11Oct2023	0.82m
XARARDHEERE	1030Z	11Oct2023	0.61m
CEEL DHEER	1042Z	11Oct2023	0.53m
SAYLAC	1104Z	11Oct2023	0.89m
LOYADO	1112Z	11Oct2023	0.96m

TANZANIA

BOMALANDNI	1252Z	11Oct2023	0.54m
WEST TO KONDE	1252Z	11Oct2023	0.58m
BAGAMOYO	1302Z	11Oct2023	0.60m

UNITED ARAB EMIRATES

KALBA	0628Z	11Oct2023	3.62m
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UNITED KINGDOM
MORESBY ISLAND 1100Z 11Oct2023 1.41m
NW EGMONT ISLAND 1110Z 11Oct2023 1.16m
DIEGO GARCIA 1150Z 11Oct2023 1.08m

YEMEN
SOCOTRA ISLAND SOUTH 0828Z 11Oct2023 1.20m
SOCOTRA ISLAND NORTH 0836Z 11Oct2023 1.31m
AL GHAYDAH AIRPORT 0838Z 11Oct2023 1.30m
HUSWAYN 0850Z 11Oct2023 0.89m
SOCOTRA ISLAND WEST 0854Z 11Oct2023 1.09m
ALQUMRAH 0904Z 11Oct2023 0.84m
MASILAH WADI 0910Z 11Oct2023 0.73m
HARRAH 0916Z 11Oct2023 0.76m
EAST TO HAMI 0920Z 11Oct2023 0.66m
HAMI 0924Z 11Oct2023 0.89m
AL MUKALLA 0926Z 11Oct2023 1.00m
BROM MAYFA 0930Z 11Oct2023 0.88m
RUDUM 0942Z 11Oct2023 0.76m
AHWAR 1000Z 11Oct2023 0.70m
KHANFAR 1026Z 11Oct2023 0.83m
ADEN 1046Z 11Oct2023 0.65m
MA'ALLAH 1050Z 11Oct2023 0.94m
QAWAH 1110Z 11Oct2023 0.98m
AL MUALLA 1136Z 11Oct2023 0.82m

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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

BULLETIN 10

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

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TSUNAMI BULLETIN NUMBER 10 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1230 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
Ormara UTC	PAKISTAN	25.20N	64.07E	4.80m	11 Oct 07:38
Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07
Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15
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Male UTC	MALDIVES	4.20N	73.53E	0.56m	11 Oct 10:08
Hanimadhoo UTC	MALDIVES	6.80N	73.17E	0.56m	11 Oct 10:15
Aden UTC	YEMEN	12.80N	44.97E	0.37m	11 Oct 10:20
Gan UTC	MALDIVES	0.70S	73.15E	0.73m	11 Oct 10:21
Cochin UTC	INDIA	10.00N	76.17E	1.39m	11 Oct 10:26
Denis Island UTC	SEYCHELLES	3.80S	55.67E	0.41m	11 Oct 10:30
Colombo UTC	SRI LANKA	7.00N	79.85E	0.74m	11 Oct 11:00
Kirinda UTC	SRI LANKA	6.20N	81.32E	0.18m	11 Oct 11:16
Pt LaRue UTC	SEYCHELLES	4.50S	55.50E	0.82m	11 Oct 11:25
Diego Garcia UTC	UK	7.20S	72.43E	0.35m	11 Oct 11:33
Agalega UTC	MAURITIUS	10.30S	56.59E	0.36m	11 Oct 11:38
Lamu UTC	KENYA	2.30S	40.90E	0.72m	11 Oct 11:55
Mombasa UTC	KENYA	4.10S	39.65E	0.44m	11 Oct 12:06
Comores UTC	COMORES	11.70S	43.25E	0.19m	11 Oct 12:09
Dzaoudzi UTC	FRANCE	12.80S	45.26E	0.21m	11 Oct 12:11
Mtwara UTC	TANZANIA	10.33S	40.33E	0.33m	11 Oct 12:24

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

HEARD ISLAND AND MCDONALD ISLANDS	1940Z	11Oct2023	0.99m
AURORA BANK	2112Z	11Oct2023	0.52m

DJIBOUTI
NW ARTA 1112Z 11Oct2023 2.03m
MUHAMMAD ALI BIN FATHA SUMANA 1112Z 11Oct2023 1.72m

FRANCE
SAINT-DENIS 1330Z 11Oct2023 0.52m
ILE SAINT-PAUL-NORTH 1632Z 11Oct2023 0.71m
ILE SAINT-PAUL-SOUTH 1644Z 11Oct2023 0.63m
CROZET PLATEAU 1842Z 11Oct2023 0.66m
ILE KERGUELEN 1858Z 11Oct2023 1.04m

INDIA
MANDVI 0748Z 11Oct2023 2.27m
PORBANDAR 0754Z 11Oct2023 1.31m
DWARKA 0756Z 11Oct2023 1.91m
JAMNAGAR 0800Z 11Oct2023 1.52m
MANGROL 0816Z 11Oct2023 1.38m
HAZIRA, DIU 0830Z 11Oct2023 1.44m
MALVAN BAY 0904Z 11Oct2023 1.19m
ANDROTH 0912Z 11Oct2023 1.70m
VASCO 0916Z 11Oct2023 1.32m
PANAJI 0916Z 11Oct2023 1.24m
JAIGARH 0918Z 11Oct2023 1.25m
KARWAR 0926Z 11Oct2023 1.25m
UDUPI 0944Z 11Oct2023 1.37m
MANGALORE 0946Z 11Oct2023 1.15m
KASARAGOD 0950Z 11Oct2023 1.24m
PIPAVAV 0952Z 11Oct2023 1.23m
MAHUVA 0956Z 11Oct2023 1.16m
KHAMBAT 0958Z 11Oct2023 1.03m
ALLEPPEY ALAPPUZHA 1000Z 11Oct2023 1.31m
MAHE 1000Z 11Oct2023 1.44m
VADANAPPALLY 1002Z 11Oct2023 1.23m
KANNUR 1002Z 11Oct2023 1.36m
COCHIN 1004Z 11Oct2023 1.16m
BEYPORE 1004Z 11Oct2023 1.45m
VAKKAD 1004Z 11Oct2023 1.39m
BHARUCH 1004Z 11Oct2023 0.99m
QUILON 1006Z 11Oct2023 1.21m
TARAPUR 1006Z 11Oct2023 0.94m
ALIBAG PORT 1008Z 11Oct2023 1.16m
MUMBAI 1008Z 11Oct2023 1.16m
BORSI 1014Z 11Oct2023 0.90m
DAMAN 1014Z 11Oct2023 0.90m
HAZIRA 1016Z 11Oct2023 1.00m
TRIVANDRUM 1018Z 11Oct2023 0.93m
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KODANKULAM 1108Z 11Oct2023 0.61m

IRAN
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BIR 0600Z 11Oct2023 9.01m
MISKI 0642Z 11Oct2023 2.55m

KENYA
KISIMACHANDE 1300Z 11Oct2023 0.53m
KIPINI 1422Z 11Oct2023 0.56m
MALINDI 1422Z 11Oct2023 0.60m

MADAGASCAR

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VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
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MALDIVES

KULHUDUFFUSHI	0922Z	11Oct2023	1.62m
GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m
DHIYAMIGILI	0958Z	11Oct2023	1.34m
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MAURITIUS

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LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
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RAS AR RUWAYS	0652Z	11Oct2023	2.45m
MASIRAH	0656Z	11Oct2023	2.18m
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PAKISTAN

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SEYCHELLES

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TAKAMAKA	1120Z	11Oct2023	1.16m
COETIVY ISLAND	1128Z	11Oct2023	0.52m

SOMALIA

TOOXIN	0922Z	11Oct2023	0.76m
ABO	0922Z	11Oct2023	1.14m
MAYDH	1000Z	11Oct2023	0.70m
GALDOGOB	1002Z	11Oct2023	0.71m
KABURA	1018Z	11Oct2023	0.80m
XARARDHEERE	1030Z	11Oct2023	0.61m
BAKI	1030Z	11Oct2023	0.82m
CEEL DHEER	1042Z	11Oct2023	0.53m
SAYLAC	1104Z	11Oct2023	0.89m
LOYADO	1112Z	11Oct2023	0.96m

TANZANIA

BOMALANDNI	1252Z	11Oct2023	0.54m
WEST TO KONDE	1252Z	11Oct2023	0.58m
BAGAMOYO	1302Z	11Oct2023	0.60m

UNITED ARAB EMIRATES
KALBA 0628Z 11Oct2023 3.62m

UNITED KINGDOM
MORESBY ISLAND 1100Z 11Oct2023 1.41m
NW EGMONT ISLAND 1110Z 11Oct2023 1.16m
DIEGO GARCIA 1150Z 11Oct2023 1.08m

YEMEN
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AL GHAYDAH AIRPORT 0838Z 11Oct2023 1.30m
HUSWAYN 0850Z 11Oct2023 0.89m
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MASILAH WADI 0910Z 11Oct2023 0.73m
HARRAH 0916Z 11Oct2023 0.76m
AHWAR 1000Z 11Oct2023 0.70m
KHANFAR 1026Z 11Oct2023 0.83m
ADEN 1046Z 11Oct2023 0.65m
MA'ALLAH 1050Z 11Oct2023 0.94m
QAWAH 1110Z 11Oct2023 0.98m
AL MUALLA 1136Z 11Oct2023 0.82m

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5. UPDATES

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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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

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BULLETIN 11

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

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TSUNAMI BULLETIN NUMBER 11 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1330 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
Ormara UTC	PAKISTAN	25.20N	64.07E	4.80m	11 Oct 07:38
Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07
Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15

Mormugao UTC	INDIA	15.40N	73.78E	1.75m	11 Oct 09:36
Male UTC	MALDIVES	4.20N	73.53E	0.56m	11 Oct 10:08
Hanimadhoo UTC	MALDIVES	6.80N	73.17E	0.56m	11 Oct 10:15
Aden UTC	YEMEN	12.80N	44.97E	0.37m	11 Oct 10:20
Gan UTC	MALDIVES	0.70S	73.15E	0.73m	11 Oct 10:21
Cochin UTC	INDIA	10.00N	76.17E	1.39m	11 Oct 10:26
Denis Island UTC	SEYCHELLES	3.80S	55.67E	0.41m	11 Oct 10:30
Colombo UTC	SRI LANKA	7.00N	79.85E	0.74m	11 Oct 11:00
Kirinda UTC	SRI LANKA	6.20N	81.32E	0.18m	11 Oct 11:16
Pt LaRue UTC	SEYCHELLES	4.50S	55.50E	0.82m	11 Oct 11:25
Diego Garcia UTC	UK	7.20S	72.43E	0.35m	11 Oct 11:33
Agalega UTC	MAURITIUS	10.30S	56.59E	0.36m	11 Oct 11:38
Lamu UTC	KENYA	2.30S	40.90E	0.72m	11 Oct 11:55
Mombasa UTC	KENYA	4.10S	39.65E	0.44m	11 Oct 12:06
Comores UTC	COMORES	11.70S	43.25E	0.19m	11 Oct 12:09
Dzaoudzi UTC	FRANCE	12.80S	45.26E	0.21m	11 Oct 12:11
Mtwara UTC	TANZANIA	10.33S	40.33E	0.33m	11 Oct 12:24
Trincomalee UTC	SRI LANKA	8.67N	81.33E	0.23m	11 Oct 12:28
Zanzibar UTC	TANZANIA	6.20S	39.18E	0.37m	11 Oct 12:34
Pemba UTC	MOCAMBIQUE	13.00S	40.48E	0.35m	11 Oct 12:50
Toamasina UTC	MADAGASCAR	18.20S	49.43E	0.30m	11 Oct 13:02
Pt Louis UTC	MAURITIUS	20.17S	57.33E	0.23m	11 Oct 13:04
Rodrigues UTC	MAURITIUS	19.70S	63.42E	2.03m	11 Oct 13:04
Sainte Marie UTC	REUNION	20.90S	55.54E	0.33m	11 Oct 13:04
Pointe des Galets UTC	REUNION ISLA	20.90S	55.28E	0.32m	11 Oct 13:05
Blue Bay UTC	MAURITIUS	20.50S	57.67E	0.21m	11 Oct 13:16

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

HEARD ISLAND AND MCDONALD ISLANDS	1940Z	11Oct2023	0.99m
AURORA BANK	2112Z	11Oct2023	0.52m

DJIBOUTI

NW ARTA	1112Z	11Oct2023	2.03m
MUHAMMAD ALI BIN FATHA SUMANA	1112Z	11Oct2023	1.72m

FRANCE

SAINT-DENIS	1330Z	11Oct2023	0.52m
ILE SAINT-PAUL-NORTH	1632Z	11Oct2023	0.71m
ILE SAINT-PAUL-SOUTH	1644Z	11Oct2023	0.63m
CROZET PLATEAU	1842Z	11Oct2023	0.66m
ILE KERGUELEN	1858Z	11Oct2023	1.04m

INDIA

MANDVI	0748Z	11Oct2023	2.27m
PORBANDAR	0754Z	11Oct2023	1.31m
DWARKA	0756Z	11Oct2023	1.91m
JAMNAGAR	0800Z	11Oct2023	1.52m
MANGROL	0816Z	11Oct2023	1.38m
HAZIRA, DIU	0830Z	11Oct2023	1.44m
MALVAN BAY	0904Z	11Oct2023	1.19m
ANDROTH	0912Z	11Oct2023	1.70m
PANAJI	0916Z	11Oct2023	1.24m
VASCO	0916Z	11Oct2023	1.32m
JAIGARH	0918Z	11Oct2023	1.25m
KARWAR	0926Z	11Oct2023	1.25m
UDUPI	0944Z	11Oct2023	1.37m
MANGALORE	0946Z	11Oct2023	1.15m
KASARAGOD	0950Z	11Oct2023	1.24m
PIPAVAV	0952Z	11Oct2023	1.23m
MAHUVA	0956Z	11Oct2023	1.16m
KHAMBAT	0958Z	11Oct2023	1.03m
ALLEPPEY ALAPPUZHA	1000Z	11Oct2023	1.31m
MAHE	1000Z	11Oct2023	1.44m
VADANAPPALLY	1002Z	11Oct2023	1.23m
KANNUR	1002Z	11Oct2023	1.36m
BHARUCH	1004Z	11Oct2023	0.99m
BEYPORE	1004Z	11Oct2023	1.45m
COCHIN	1004Z	11Oct2023	1.16m
VAKKAD	1004Z	11Oct2023	1.39m
QUILON	1006Z	11Oct2023	1.21m
TARAPUR	1006Z	11Oct2023	0.94m

MUMBAI		1008Z	11Oct2023	1.16m
ALIBAG PORT		1008Z	11Oct2023	1.16m
BORSI		1014Z	11Oct2023	0.90m
DAMAN		1014Z	11Oct2023	0.90m
HAZIRA		1016Z	11Oct2023	1.00m
KANYAKUMARI		1034Z	11Oct2023	0.76m
KOODANKULAM		1108Z	11Oct2023	0.61m

IRAN

PUSHT	0600Z	11Oct2023	5.59m
BIR	0600Z	11Oct2023	9.01m
MISKI	0642Z	11Oct2023	2.55m

KENYA

KISIMACHANDE	1300Z	11Oct2023	0.53m
KIPINI	1422Z	11Oct2023	0.56m
MALINDI	1422Z	11Oct2023	0.60m

MADAGASCAR

VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
TAMPOLO	1728Z	11Oct2023	0.74m

MALDIVES

KULHUDUFFUSHI	0922Z	11Oct2023	1.62m
GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m
MALE	1006Z	11Oct2023	0.86m

MAURITIUS

AGALEGA ISLAND	1154Z	11Oct2023	0.62m
CARGADOS CARAJOS	1328Z	11Oct2023	0.58m
LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
QURAYYAT	0616Z	11Oct2023	9.35m
AL KHABURAH	0616Z	11Oct2023	7.75m
SOHAR	0626Z	11Oct2023	4.56m
EAST MUSANDAM	0644Z	11Oct2023	3.60m
RAS AR RUWAYS	0652Z	11Oct2023	2.45m
MASIRAH	0656Z	11Oct2023	2.18m
AD DUQM	0720Z	11Oct2023	1.62m

PAKISTAN

ORMARA	0600Z	11Oct2023	8.31m
WINDER	0606Z	11Oct2023	3.66m
KARACHI	0654Z	11Oct2023	2.87m
SINDH	0710Z	11Oct2023	2.35m

SEYCHELLES

FREGATE ISLAND	1038Z	11Oct2023	1.55m
TAKAMAKA	1120Z	11Oct2023	1.16m
COETIVY ISLAND	1128Z	11Oct2023	0.52m

SOMALIA

ABO	0922Z	11Oct2023	1.14m
TOOXIN	0922Z	11Oct2023	0.76m
GALDOGOB	1002Z	11Oct2023	0.71m

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BAKI 1030Z 11Oct2023 0.82m
SAYLAC 1104Z 11Oct2023 0.89m
LOYADO 1112Z 11Oct2023 0.96m

TANZANIA
BOMALANDNI 1252Z 11Oct2023 0.54m
WEST TO KONDE 1252Z 11Oct2023 0.58m
BAGAMOYO 1302Z 11Oct2023 0.60m

UNITED ARAB EMIRATES
KALBA 0628Z 11Oct2023 3.62m

UNITED KINGDOM
MORESBY ISLAND 1100Z 11Oct2023 1.41m
NW EGMONT ISLAND 1110Z 11Oct2023 1.16m
DIEGO GARCIA 1150Z 11Oct2023 1.08m

YEMEN
SOCOTRA ISLAND SOUTH 0828Z 11Oct2023 1.20m
SOCOTRA ISLAND NORTH 0836Z 11Oct2023 1.31m
KHANFAR 1026Z 11Oct2023 0.83m
MA'ALLAH 1050Z 11Oct2023 0.94m
QAWAH 1110Z 11Oct2023 0.98m
AL MUALLA 1136Z 11Oct2023 0.82m

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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

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BULLETIN 12

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

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TSUNAMI BULLETIN NUMBER 12 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1430 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
Ormara UTC	PAKISTAN	25.20N	64.07E	4.80m	11 Oct 07:38
Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07
Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15
Mormugao UTC	INDIA	15.40N	73.78E	1.75m	11 Oct 09:36

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Male UTC	MALDIVES	4.20N	73.53E	0.56m	11 Oct 10:08
Hanimadhoo UTC	MALDIVES	6.80N	73.17E	0.56m	11 Oct 10:15
Aden UTC	YEMEN	12.80N	44.97E	0.37m	11 Oct 10:20
Gan UTC	MALDIVES	0.70S	73.15E	0.73m	11 Oct 10:21
Cochin UTC	INDIA	10.00N	76.17E	1.39m	11 Oct 10:26
Denis Island UTC	SEYCHELLES	3.80S	55.67E	0.41m	11 Oct 10:30
Colombo UTC	SRI LANKA	7.00N	79.85E	0.74m	11 Oct 11:00
Kirinda UTC	SRI LANKA	6.20N	81.32E	0.18m	11 Oct 11:16
Pt LaRue UTC	SEYCHELLES	4.50S	55.50E	0.82m	11 Oct 11:25
Diego Garcia UTC	UK	7.20S	72.43E	0.35m	11 Oct 11:33
Agalega UTC	MAURITIUS	10.30S	56.59E	0.36m	11 Oct 11:38
Lamu UTC	KENYA	2.30S	40.90E	0.72m	11 Oct 11:55
Mombasa UTC	KENYA	4.10S	39.65E	0.44m	11 Oct 12:06
Comores UTC	COMORES	11.70S	43.25E	0.19m	11 Oct 12:09
Dzaoudzi UTC	FRANCE	12.80S	45.26E	0.21m	11 Oct 12:11
Mtwara UTC	TANZANIA	10.33S	40.33E	0.33m	11 Oct 12:24
Trincomalee UTC	SRI LANKA	8.67N	81.33E	0.23m	11 Oct 12:28
Zanzibar UTC	TANZANIA	6.20S	39.18E	0.37m	11 Oct 12:34
Pemba UTC	MOCAMBIQUE	13.00S	40.48E	0.35m	11 Oct 12:50
Toamasina UTC	MADAGASCAR	18.20S	49.43E	0.30m	11 Oct 13:02
Sainte Marie UTC	REUNION	20.90S	55.54E	0.33m	11 Oct 13:04
Pt Louis UTC	MAURITIUS	20.17S	57.33E	0.23m	11 Oct 13:04
Rodrigues UTC	MAURITIUS	19.70S	63.42E	2.03m	11 Oct 13:04
Pointe des Galets UTC	REUNION ISLA	20.90S	55.28E	0.32m	11 Oct 13:05
Blue Bay UTC	MAURITIUS	20.50S	57.67E	0.21m	11 Oct 13:16
Deep Ocean Buoy 23401 UTC	BAY OF BENGA	8.86N	88.56E	0.15m	11 Oct 13:28
Telukdalam UTC	INDONESIA	0.50N	97.83E	0.26m	11 Oct 13:48
Chennai UTC	INDIA	13.10N	80.30E	0.07m	11 Oct 14:01
Nancowry UTC	INDIA	8.10N	93.55E	0.07m	11 Oct 14:01
Meulaboh UTC	INDONESIA	4.17N	96.00E	0.18m	11 Oct 14:07

Cocos Island. UTC	AUSTRALIA	12.10S	96.89E	0.14m	11 Oct 14:10
Sabang UTC	INDONESIA	5.80N	95.33E	0.11m	11 Oct 14:14
Port Blair UTC	INDIA	11.70N	92.76E	0.08m	11 Oct 14:20
Visakhapatnam UTC	INDIA	17.70N	83.28E	0.11m	11 Oct 14:22

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

HEARD ISLAND AND MCDONALD ISLANDS	1940Z	11Oct2023	0.99m
AURORA BANK	2112Z	11Oct2023	0.52m

DJIBOUTI

NW ARTA	1112Z	11Oct2023	2.03m
MUHAMMAD ALI BIN FATHA SUMANA	1112Z	11Oct2023	1.72m

FRANCE

SAINT-DENIS	1330Z	11Oct2023	0.52m
ILE SAINT-PAUL-NORTH	1632Z	11Oct2023	0.71m
ILE SAINT-PAUL-SOUTH	1644Z	11Oct2023	0.63m
CROZET PLATEAU	1842Z	11Oct2023	0.66m
ILE KERGUELEN	1858Z	11Oct2023	1.04m

INDIA

MANDVI	0748Z	11Oct2023	2.27m
PORBANDAR	0754Z	11Oct2023	1.31m
DWARKA	0756Z	11Oct2023	1.91m
JAMNAGAR	0800Z	11Oct2023	1.52m
MANGROL	0816Z	11Oct2023	1.38m
HAZIRA, DIU	0830Z	11Oct2023	1.44m
MALVAN BAY	0904Z	11Oct2023	1.19m
ANDROTH	0912Z	11Oct2023	1.70m
PANAJI	0916Z	11Oct2023	1.24m
VASCO	0916Z	11Oct2023	1.32m
JAIGARH	0918Z	11Oct2023	1.25m

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KARWAR	0926Z	11Oct2023	1.25m
UDUPI	0944Z	11Oct2023	1.37m
MANGALORE	0946Z	11Oct2023	1.15m
KASARAGOD	0950Z	11Oct2023	1.24m
PIPAVAV	0952Z	11Oct2023	1.23m
MAHUVA	0956Z	11Oct2023	1.16m
KHAMBAT	0958Z	11Oct2023	1.03m
ALLEPPEY ALAPPUZHA	1000Z	11Oct2023	1.31m
MAHE	1000Z	11Oct2023	1.44m
VADANAPPALLY	1002Z	11Oct2023	1.23m
KANNUR	1002Z	11Oct2023	1.36m
BHARUCH	1004Z	11Oct2023	0.99m
BEYPORE	1004Z	11Oct2023	1.45m
COCHIN	1004Z	11Oct2023	1.16m
VAKKAD	1004Z	11Oct2023	1.39m
QUILON	1006Z	11Oct2023	1.21m
TARAPUR	1006Z	11Oct2023	0.94m
MUMBAI	1008Z	11Oct2023	1.16m
ALIBAG PORT	1008Z	11Oct2023	1.16m
BORSI	1014Z	11Oct2023	0.90m
DAMAN	1014Z	11Oct2023	0.90m
HAZIRA	1016Z	11Oct2023	1.00m
KANYAKUMARI	1034Z	11Oct2023	0.76m
KOODANKULAM	1108Z	11Oct2023	0.61m

IRAN

PUSHT	0600Z	11Oct2023	5.59m
BIR	0600Z	11Oct2023	9.01m
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KENYA

KISIMACHANDE	1300Z	11Oct2023	0.53m
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MADAGASCAR

VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
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MALDIVES

GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m

MAURITIUS

CARGADOS CARAJOS	1328Z	11Oct2023	0.58m
LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
AL KHABURAH	0616Z	11Oct2023	7.75m
SOHAR	0626Z	11Oct2023	4.56m
EAST MUSANDAM	0644Z	11Oct2023	3.60m
RAS AR RUWAYS	0652Z	11Oct2023	2.45m
MASIRAH	0656Z	11Oct2023	2.18m
AD DUQM	0720Z	11Oct2023	1.62m

PAKISTAN

ORMARA	0600Z	11Oct2023	8.31m
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WINDER 0606Z 11Oct2023 3.66m
KARACHI 0654Z 11Oct2023 2.87m
SINDH 0710Z 11Oct2023 2.35m

SEYCHELLES

FREGATE ISLAND 1038Z 11Oct2023 1.55m
TAKAMAKA 1120Z 11Oct2023 1.16m

SOMALIA

ABO 0922Z 11Oct2023 1.14m
TOOXIN 0922Z 11Oct2023 0.76m

TANZANIA

BOMALANDNI 1252Z 11Oct2023 0.54m
WEST TO KONDE 1252Z 11Oct2023 0.58m
BAGAMOYO 1302Z 11Oct2023 0.60m

UNITED ARAB EMIRATES

KALBA 0628Z 11Oct2023 3.62m

UNITED KINGDOM

NW EGMONT ISLAND 1110Z 11Oct2023 1.16m
DIEGO GARCIA 1150Z 11Oct2023 1.08m

YEMEN

SOCOTRA ISLAND SOUTH 0828Z 11Oct2023 1.20m
SOCOTRA ISLAND NORTH 0836Z 11Oct2023 1.31m
KHANFAR 1026Z 11Oct2023 0.83m
MA'ALLAH 1050Z 11Oct2023 0.94m
QAWAH 1110Z 11Oct2023 0.98m
AL MUALLA 1136Z 11Oct2023 0.82m

4. ADVICE

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5. UPDATES

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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

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#####

BULLETIN 13

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

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TSUNAMI BULLETIN NUMBER 13 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1530 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
Ormara UTC	PAKISTAN	25.20N	64.07E	4.80m	11 Oct 07:38
Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07
Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15

Mormugao UTC	INDIA	15.40N	73.78E	1.75m	11 Oct 09:36
Male UTC	MALDIVES	4.20N	73.53E	0.56m	11 Oct 10:08
Hanimadhoo UTC	MALDIVES	6.80N	73.17E	0.56m	11 Oct 10:15
Aden UTC	YEMEN	12.80N	44.97E	0.37m	11 Oct 10:20
Gan UTC	MALDIVES	0.70S	73.15E	0.73m	11 Oct 10:21
Cochin UTC	INDIA	10.00N	76.17E	1.39m	11 Oct 10:26
Denis Island UTC	SEYCHELLES	3.80S	55.67E	0.41m	11 Oct 10:30
Colombo UTC	SRI LANKA	7.00N	79.85E	0.74m	11 Oct 11:00
Kirinda UTC	SRI LANKA	6.20N	81.32E	0.18m	11 Oct 11:16
Pt LaRue UTC	SEYCHELLES	4.50S	55.50E	0.82m	11 Oct 11:25
Diego Garcia UTC	UK	7.20S	72.43E	0.35m	11 Oct 11:33
Agalega UTC	MAURITIUS	10.30S	56.59E	0.36m	11 Oct 11:38
Lamu UTC	KENYA	2.30S	40.90E	0.72m	11 Oct 11:55
Mombasa UTC	KENYA	4.10S	39.65E	0.44m	11 Oct 12:06
Comores UTC	COMORES	11.70S	43.25E	0.19m	11 Oct 12:09
Dzaoudzi UTC	FRANCE	12.80S	45.26E	0.21m	11 Oct 12:11
Mtwara UTC	TANZANIA	10.33S	40.33E	0.33m	11 Oct 12:24
Trincomalee UTC	SRI LANKA	8.67N	81.33E	0.23m	11 Oct 12:28
Zanzibar UTC	TANZANIA	6.20S	39.18E	0.37m	11 Oct 12:34
Pemba UTC	MOCAMBIQUE	13.00S	40.48E	0.35m	11 Oct 12:50
Toamasina UTC	MADAGASCAR	18.20S	49.43E	0.30m	11 Oct 13:02
Rodrigues UTC	MAURITIUS	19.70S	63.42E	2.03m	11 Oct 13:04
Sainte Marie UTC	REUNION	20.90S	55.54E	0.33m	11 Oct 13:04
Pt Louis UTC	MAURITIUS	20.17S	57.33E	0.23m	11 Oct 13:04
Pointe des Galets UTC	REUNION ISLA	20.90S	55.28E	0.32m	11 Oct 13:05
Blue Bay UTC	MAURITIUS	20.50S	57.67E	0.21m	11 Oct 13:16
Deep Ocean Buoy 23401 UTC	BAY OF BENGA	8.86N	88.56E	0.15m	11 Oct 13:28
Telukdalam UTC	INDONESIA	0.50N	97.83E	0.26m	11 Oct 13:48
Nancowry UTC	INDIA	8.10N	93.55E	0.07m	11 Oct 14:01
Chennai UTC	INDIA	13.10N	80.30E	0.07m	11 Oct 14:01

Meulaboh UTC	INDONESIA	4.17N	96.00E	0.18m	11 Oct 14:07
Cocos Island. UTC	AUSTRALIA	12.10S	96.89E	0.14m	11 Oct 14:10
Sabang UTC	INDONESIA	5.80N	95.33E	0.11m	11 Oct 14:14
Port Blair UTC	INDIA	11.70N	92.76E	0.08m	11 Oct 14:20
Visakhapatnam UTC	INDIA	17.70N	83.28E	0.11m	11 Oct 14:22
Seblat UTC	INDONESIA	3.17S	101.50E	0.20m	11 Oct 14:44
Enggano UTC	INDONESIA	5.30S	102.28E	0.18m	11 Oct 15:02
Padang UTC	INDONESIA	1.00S	100.37E	0.15m	11 Oct 15:12
Christmas Is UTC	AUSTRALIA	10.40S	105.67E	0.18m	11 Oct 15:21

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

HEARD ISLAND AND MCDONALD ISLANDS	1940Z	11Oct2023	0.99m
AURORA BANK	2112Z	11Oct2023	0.52m

DJIBOUTI

NW ARTA	1112Z	11Oct2023	2.03m
MUHAMMAD ALI BIN FATHA SUMANA	1112Z	11Oct2023	1.72m

FRANCE

ILE SAINT-PAUL-NORTH	1632Z	11Oct2023	0.71m
ILE SAINT-PAUL-SOUTH	1644Z	11Oct2023	0.63m
CROZET PLATEAU	1842Z	11Oct2023	0.66m
ILE KERGUELEN	1858Z	11Oct2023	1.04m

INDIA

MANDVI	0748Z	11Oct2023	2.27m
PORBANDAR	0754Z	11Oct2023	1.31m

DWARKA	0756Z	11Oct2023	1.91m
JAMNAGAR	0800Z	11Oct2023	1.52m
MANGROL	0816Z	11Oct2023	1.38m
HAZIRA, DIU	0830Z	11Oct2023	1.44m
MALVAN BAY	0904Z	11Oct2023	1.19m
ANDROTH	0912Z	11Oct2023	1.70m
PANAJI	0916Z	11Oct2023	1.24m
VASCO	0916Z	11Oct2023	1.32m
JAIGARH	0918Z	11Oct2023	1.25m
KARWAR	0926Z	11Oct2023	1.25m
UDUPI	0944Z	11Oct2023	1.37m
MANGALORE	0946Z	11Oct2023	1.15m
KASARAGOD	0950Z	11Oct2023	1.24m
PIPAVAV	0952Z	11Oct2023	1.23m
MAHUVA	0956Z	11Oct2023	1.16m
KHAMBAT	0958Z	11Oct2023	1.03m
ALLEPPEY ALAPPUZHA	1000Z	11Oct2023	1.31m
MAHE	1000Z	11Oct2023	1.44m
VADANAPPALLY	1002Z	11Oct2023	1.23m
KANNUR	1002Z	11Oct2023	1.36m
BHARUCH	1004Z	11Oct2023	0.99m
BEYPORE	1004Z	11Oct2023	1.45m
COCHIN	1004Z	11Oct2023	1.16m
VAKKAD	1004Z	11Oct2023	1.39m
QUILON	1006Z	11Oct2023	1.21m
TARAPUR	1006Z	11Oct2023	0.94m
MUMBAI	1008Z	11Oct2023	1.16m
ALIBAG PORT	1008Z	11Oct2023	1.16m
BORSI	1014Z	11Oct2023	0.90m
DAMAN	1014Z	11Oct2023	0.90m
HAZIRA	1016Z	11Oct2023	1.00m
KANYAKUMARI	1034Z	11Oct2023	0.76m
KOODANKULAM	1108Z	11Oct2023	0.61m

IRAN

PUSHT	0600Z	11Oct2023	5.59m
BIR	0600Z	11Oct2023	9.01m
MISKI	0642Z	11Oct2023	2.55m

KENYA

KIPINI	1422Z	11Oct2023	0.56m
MALINDI	1422Z	11Oct2023	0.60m

MADAGASCAR

VOHEMAR	1256Z	11Oct2023	0.72m
ANOROTSANGANA	1430Z	11Oct2023	0.62m
TAMPOLO	1728Z	11Oct2023	0.74m

MALDIVES

GOIDHOO	0930Z	11Oct2023	1.50m
FERIDHOO	0942Z	11Oct2023	1.64m
NILANDHOO	0952Z	11Oct2023	1.40m

MAURITIUS

CARGADOS CARAJOS	1328Z	11Oct2023	0.58m
LA FERME	1400Z	11Oct2023	1.19m

OMAN

MUSCAT	0612Z	11Oct2023	11.71m
BARKA	0614Z	11Oct2023	8.62m
AL KHABURAH	0616Z	11Oct2023	7.75m

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SOHAR 0626Z 11Oct2023 4.56m
EAST MUSANDAM 0644Z 11Oct2023 3.60m
AD DUQM 0720Z 11Oct2023 1.62m

PAKISTAN

ORMARA 0600Z 11Oct2023 8.31m
WINDER 0606Z 11Oct2023 3.66m
KARACHI 0654Z 11Oct2023 2.87m
SINDH 0710Z 11Oct2023 2.35m

SEYCHELLES

TAKAMAKA 1120Z 11Oct2023 1.16m

SOMALIA

ABO 0922Z 11Oct2023 1.14m
TOOXIN 0922Z 11Oct2023 0.76m

TANZANIA

BAGAMOYO 1302Z 11Oct2023 0.60m

UNITED ARAB EMIRATES

KALBA 0628Z 11Oct2023 3.62m

YEMEN

SOCOTRA ISLAND SOUTH 0828Z 11Oct2023 1.20m
SOCOTRA ISLAND NORTH 0836Z 11Oct2023 1.31m
MA'ALLAH 1050Z 11Oct2023 0.94m
QAWAH 1110Z 11Oct2023 0.98m

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 IOWAVE23 - NOT A REAL TSUNAMI EVENT

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BULLETIN 14

IDY68501

TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

TSUNAMI BULLETIN NUMBER 14 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1630 UTC Wednesday 11 October 2023

... 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: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

2. EVALUATION

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

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57
Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
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Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07
Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15
Mormugao UTC	INDIA	15.40N	73.78E	1.75m	11 Oct 09:36

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Male UTC	MALDIVES	4.20N	73.53E	0.56m	11 Oct 10:08
Hanimadhoo UTC	MALDIVES	6.80N	73.17E	0.56m	11 Oct 10:15
Aden UTC	YEMEN	12.80N	44.97E	0.37m	11 Oct 10:20
Gan UTC	MALDIVES	0.70S	73.15E	0.73m	11 Oct 10:21
Cochin UTC	INDIA	10.00N	76.17E	1.39m	11 Oct 10:26
Denis Island UTC	SEYCHELLES	3.80S	55.67E	0.41m	11 Oct 10:30
Colombo UTC	SRI LANKA	7.00N	79.85E	0.74m	11 Oct 11:00
Kirinda UTC	SRI LANKA	6.20N	81.32E	0.18m	11 Oct 11:16
Pt LaRue UTC	SEYCHELLES	4.50S	55.50E	0.82m	11 Oct 11:25
Diego Garcia UTC	UK	7.20S	72.43E	0.35m	11 Oct 11:33
Agalega UTC	MAURITIUS	10.30S	56.59E	0.36m	11 Oct 11:38
Lamu UTC	KENYA	2.30S	40.90E	0.72m	11 Oct 11:55
Mombasa UTC	KENYA	4.10S	39.65E	0.44m	11 Oct 12:06
Comores UTC	COMORES	11.70S	43.25E	0.19m	11 Oct 12:09
Dzaoudzi UTC	FRANCE	12.80S	45.26E	0.21m	11 Oct 12:11
Mtwara UTC	TANZANIA	10.33S	40.33E	0.33m	11 Oct 12:24
Trincomalee UTC	SRI LANKA	8.67N	81.33E	0.23m	11 Oct 12:28
Zanzibar UTC	TANZANIA	6.20S	39.18E	0.37m	11 Oct 12:34
Pemba UTC	MOCAMBIQUE	13.00S	40.48E	0.35m	11 Oct 12:50
Toamasina UTC	MADAGASCAR	18.20S	49.43E	0.30m	11 Oct 13:02
Rodrigues UTC	MAURITIUS	19.70S	63.42E	2.03m	11 Oct 13:04
Pt Louis UTC	MAURITIUS	20.17S	57.33E	0.23m	11 Oct 13:04
Sainte Marie UTC	REUNION	20.90S	55.54E	0.33m	11 Oct 13:04
Pointe des Galets UTC	REUNION ISLA	20.90S	55.28E	0.32m	11 Oct 13:05
Blue Bay UTC	MAURITIUS	20.50S	57.67E	0.21m	11 Oct 13:16
Deep Ocean Buoy 23401 UTC	BAY OF BENGA	8.86N	88.56E	0.15m	11 Oct 13:28
Telukdalam UTC	INDONESIA	0.50N	97.83E	0.26m	11 Oct 13:48
Chennai UTC	INDIA	13.10N	80.30E	0.07m	11 Oct 14:01
Nancowry UTC	INDIA	8.10N	93.55E	0.07m	11 Oct 14:01
Meulaboh UTC	INDONESIA	4.17N	96.00E	0.18m	11 Oct 14:07

Cocos Island. UTC	AUSTRALIA	12.10S	96.89E	0.14m	11 Oct 14:10
Sabang UTC	INDONESIA	5.80N	95.33E	0.11m	11 Oct 14:14
Port Blair UTC	INDIA	11.70N	92.76E	0.08m	11 Oct 14:20
Visakhapatnam UTC	INDIA	17.70N	83.28E	0.11m	11 Oct 14:22
Seblat UTC	INDONESIA	3.17S	101.50E	0.20m	11 Oct 14:44
Enggano UTC	INDONESIA	5.30S	102.28E	0.18m	11 Oct 15:02
Padang UTC	INDONESIA	1.00S	100.37E	0.15m	11 Oct 15:12
Christmas Is UTC	AUSTRALIA	10.40S	105.67E	0.18m	11 Oct 15:21
Inhambane UTC	MOCAMBIQUE	24.00S	35.50E	0.11m	11 Oct 15:32
Sittwe UTC	MYANMAR	20.00N	92.83E	0.20m	11 Oct 15:44
Ko Taphao Noi UTC	THAILAND	7.80N	98.42E	0.15m	11 Oct 15:56
Pangandaran UTC	INDONESIA	7.83S	108.50E	0.15m	11 Oct 16:04
Tanjung Lesung UTC	INDONESIA	6.50S	105.50E	0.29m	11 Oct 16:04
Deep Ocean Buoy 56001 UTC	INDIAN OCEAN	14.02S	109.94E	0.04m	11 Oct 16:08
Cilacap UTC	INDONESIA	7.80S	109.00E	0.24m	11 Oct 16:24

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

HEARD ISLAND AND MCDONALD ISLANDS	1940Z 11Oct2023	0.99m
AURORA BANK	2112Z 11Oct2023	0.52m

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NW ARTA 1112Z 11Oct2023 2.03m
MUHAMMAD ALI BIN FATHA SUMANA 1112Z 11Oct2023 1.72m

FRANCE

ILE SAINT-PAUL-NORTH 1632Z 11Oct2023 0.71m
ILE SAINT-PAUL-SOUTH 1644Z 11Oct2023 0.63m
CROZET PLATEAU 1842Z 11Oct2023 0.66m
ILE KERGUELEN 1858Z 11Oct2023 1.04m

INDIA

MANDVI 0748Z 11Oct2023 2.27m
PORBANDAR 0754Z 11Oct2023 1.31m
DWARKA 0756Z 11Oct2023 1.91m
JAMNAGAR 0800Z 11Oct2023 1.52m
MANGROL 0816Z 11Oct2023 1.38m
HAZIRA, DIU 0830Z 11Oct2023 1.44m
MALVAN BAY 0904Z 11Oct2023 1.19m
ANDROTH 0912Z 11Oct2023 1.70m
PANAJI 0916Z 11Oct2023 1.24m
VASCO 0916Z 11Oct2023 1.32m
JAIGARH 0918Z 11Oct2023 1.25m
KARWAR 0926Z 11Oct2023 1.25m
UDUPI 0944Z 11Oct2023 1.37m
MANGALORE 0946Z 11Oct2023 1.15m
KASARAGOD 0950Z 11Oct2023 1.24m
PIPAVAV 0952Z 11Oct2023 1.23m
MAHUVA 0956Z 11Oct2023 1.16m
KHAMBAT 0958Z 11Oct2023 1.03m
ALLEPPEY ALAPPUZHA 1000Z 11Oct2023 1.31m
MAHE 1000Z 11Oct2023 1.44m
VADANAPPALLY 1002Z 11Oct2023 1.23m
KANNUR 1002Z 11Oct2023 1.36m
BEYPORE 1004Z 11Oct2023 1.45m
BHARUCH 1004Z 11Oct2023 0.99m
COCHIN 1004Z 11Oct2023 1.16m
TARAPUR 1006Z 11Oct2023 0.94m
QUILON 1006Z 11Oct2023 1.21m
MUMBAI 1008Z 11Oct2023 1.16m
ALIBAG PORT 1008Z 11Oct2023 1.16m
BORSI 1014Z 11Oct2023 0.90m
DAMAN 1014Z 11Oct2023 0.90m
HAZIRA 1016Z 11Oct2023 1.00m
KANYAKUMARI 1034Z 11Oct2023 0.76m
KODANKULAM 1108Z 11Oct2023 0.61m

IRAN

PUSHT 0600Z 11Oct2023 5.59m
BIR 0600Z 11Oct2023 9.01m
MISKI 0642Z 11Oct2023 2.55m

KENYA

KIPINI 1422Z 11Oct2023 0.56m
MALINDI 1422Z 11Oct2023 0.60m

MADAGASCAR

ANOROTSANGANA 1430Z 11Oct2023 0.62m
TAMPOLO 1728Z 11Oct2023 0.74m

MALDIVES

FERIDHOO 0942Z 11Oct2023 1.64m
NILANDHOO 0952Z 11Oct2023 1.40m

OMAN
MUSCAT 0612Z 11Oct2023 11.71m
BARKA 0614Z 11Oct2023 8.62m
AL KHABURAH 0616Z 11Oct2023 7.75m
SOHAR 0626Z 11Oct2023 4.56m
EAST MUSANDAM 0644Z 11Oct2023 3.60m
AD DUQM 0720Z 11Oct2023 1.62m

PAKISTAN
ORMARA 0600Z 11Oct2023 8.31m
WINDER 0606Z 11Oct2023 3.66m
KARACHI 0654Z 11Oct2023 2.87m
SINDH 0710Z 11Oct2023 2.35m

SEYCHELLES
TAKAMAKA 1120Z 11Oct2023 1.16m

SOMALIA
ABO 0922Z 11Oct2023 1.14m
TOOXIN 0922Z 11Oct2023 0.76m

TANZANIA
BAGAMOYO 1302Z 11Oct2023 0.60m

UNITED ARAB EMIRATES
KALBA 0628Z 11Oct2023 3.62m

YEMEN
SOCOTRA ISLAND SOUTH 0828Z 11Oct2023 1.20m
SOCOTRA ISLAND NORTH 0836Z 11Oct2023 1.31m
MA'ALLAH 1050Z 11Oct2023 0.94m
QAWAH 1110Z 11Oct2023 0.98m

4. ADVICE

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5. UPDATES

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

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 IOWAVE23 - NOT A REAL TSUNAMI EVENT
#

#####

BULLETIN 15

IDY68504

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#####  
#  
# TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT  
#  
#####
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TSUNAMI BULLETIN NUMBER 15 (TYPE-IV FINAL BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER AUSTRALIA (JATWC)
ISSUED AT 1730 UTC Wednesday 11 October 2023

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

1. EARTHQUAKE INFORMATION

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

Magnitude: 8.9 Mwp
Depth: 10km
Date: 11 Oct 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: GULF OF OMAN

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.

Chabahar UTC	IRAN	25.33N	60.50E	6.01m	11 Oct 06:10
Jask UTC	IRAN	25.60N	57.77E	6.75m	11 Oct 06:12
Gwadar UTC	PAKISTAN	25.00N	62.00E	5.55m	11 Oct 06:15
Muscat UTC	OMAN	23.60N	58.57E	6.07m	11 Oct 06:22
Deep Ocean Buoy 23228 UTC	ARABIAN SEA	20.80N	65.35E	2.21m	11 Oct 06:53
Deep Ocean Buoy 23226 UTC	ARABIAN SEA	20.20N	67.33E	1.84m	11 Oct 06:57

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Masirah UTC	OMAN	20.70N	58.87E	1.88m	11 Oct 07:07
Karachi UTC	PAKISTAN	24.83N	66.83E	3.15m	11 Oct 07:24
Ormara UTC	PAKISTAN	25.20N	64.07E	4.80m	11 Oct 07:38
Salalah UTC	OMAN	16.90N	54.01E	1.28m	11 Oct 08:07
Minicoy UTC	INDIA	8.30N	73.05E	0.65m	11 Oct 09:15
Mormugao UTC	INDIA	15.40N	73.78E	1.75m	11 Oct 09:36
Male UTC	MALDIVES	4.20N	73.53E	0.56m	11 Oct 10:08
Hanimadhoo UTC	MALDIVES	6.80N	73.17E	0.56m	11 Oct 10:15
Aden UTC	YEMEN	12.80N	44.97E	0.37m	11 Oct 10:20
Gan UTC	MALDIVES	0.70S	73.15E	0.73m	11 Oct 10:21
Cochin UTC	INDIA	10.00N	76.17E	1.39m	11 Oct 10:26
Denis Island UTC	SEYCHELLES	3.80S	55.67E	0.41m	11 Oct 10:30
Colombo UTC	SRI LANKA	7.00N	79.85E	0.74m	11 Oct 11:00
Kirinda UTC	SRI LANKA	6.20N	81.32E	0.18m	11 Oct 11:16
Pt LaRue UTC	SEYCHELLES	4.50S	55.50E	0.82m	11 Oct 11:25
Diego Garcia UTC	UK	7.20S	72.43E	0.35m	11 Oct 11:33
Agalega UTC	MAURITIUS	10.30S	56.59E	0.36m	11 Oct 11:38
Lamu UTC	KENYA	2.30S	40.90E	0.72m	11 Oct 11:55
Mombasa UTC	KENYA	4.10S	39.65E	0.44m	11 Oct 12:06
Comores UTC	COMORES	11.70S	43.25E	0.19m	11 Oct 12:09
Dzaoudzi UTC	FRANCE	12.80S	45.26E	0.21m	11 Oct 12:11
Mtwara UTC	TANZANIA	10.33S	40.33E	0.33m	11 Oct 12:24
Trincomalee UTC	SRI LANKA	8.67N	81.33E	0.23m	11 Oct 12:28
Zanzibar UTC	TANZANIA	6.20S	39.18E	0.37m	11 Oct 12:34
Pemba UTC	MOCAMBIQUE	13.00S	40.48E	0.35m	11 Oct 12:50
Toamasina UTC	MADAGASCAR	18.20S	49.43E	0.30m	11 Oct 13:02
Sainte Marie UTC	REUNION	20.90S	55.54E	0.33m	11 Oct 13:04
Pt Louis UTC	MAURITIUS	20.17S	57.33E	0.23m	11 Oct 13:04
Rodrigues UTC	MAURITIUS	19.70S	63.42E	2.03m	11 Oct 13:04
Pointe des Galets UTC	REUNION ISLA	20.90S	55.28E	0.32m	11 Oct 13:05

Blue Bay UTC	MAURITIUS	20.50S	57.67E	0.21m	11 Oct 13:16
Deep Ocean Buoy 23401 UTC	BAY OF BENGA	8.86N	88.56E	0.15m	11 Oct 13:28
Telukdalam UTC	INDONESIA	0.50N	97.83E	0.26m	11 Oct 13:48
Nancowry UTC	INDIA	8.10N	93.55E	0.07m	11 Oct 14:01
Chennai UTC	INDIA	13.10N	80.30E	0.07m	11 Oct 14:01
Meulaboh UTC	INDONESIA	4.17N	96.00E	0.18m	11 Oct 14:07
Cocos Island. UTC	AUSTRALIA	12.10S	96.89E	0.14m	11 Oct 14:10
Sabang UTC	INDONESIA	5.80N	95.33E	0.11m	11 Oct 14:14
Port Blair UTC	INDIA	11.70N	92.76E	0.08m	11 Oct 14:20
Visakhapatnam UTC	INDIA	17.70N	83.28E	0.11m	11 Oct 14:22
Seblat UTC	INDONESIA	3.17S	101.50E	0.20m	11 Oct 14:44
Enggano UTC	INDONESIA	5.30S	102.28E	0.18m	11 Oct 15:02
Padang UTC	INDONESIA	1.00S	100.37E	0.15m	11 Oct 15:12
Christmas Is UTC	AUSTRALIA	10.40S	105.67E	0.18m	11 Oct 15:21
Inhambane UTC	MOCAMBIQUE	24.00S	35.50E	0.11m	11 Oct 15:32
Sittwe UTC	MYANMAR	20.00N	92.83E	0.20m	11 Oct 15:44
Ko Taphao Noi UTC	THAILAND	7.80N	98.42E	0.15m	11 Oct 15:56
Pangandaran UTC	INDONESIA	7.83S	108.50E	0.15m	11 Oct 16:04
Tanjung Lesung UTC	INDONESIA	6.50S	105.50E	0.29m	11 Oct 16:04
Deep Ocean Buoy 56001 UTC	INDIAN OCEAN	14.02S	109.94E	0.04m	11 Oct 16:08
Cilacap UTC	INDONESIA	7.80S	109.00E	0.24m	11 Oct 16:24
Sadeng UTC	INDONESIA	8.33S	110.83E	0.18m	11 Oct 16:30
Prigi UTC	INDONESIA	8.33S	111.83E	0.15m	11 Oct 16:38
Langkawi UTC	MALAYSIA	6.50N	99.83E	0.13m	11 Oct 17:02
Deep Ocean Buoy 56003 UTC	INDIAN OCEAN	15.02S	117.94E	0.03m	11 Oct 17:08
Benoa UTC	INDONESIA	8.83S	115.33E	0.11m	11 Oct 17:08

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

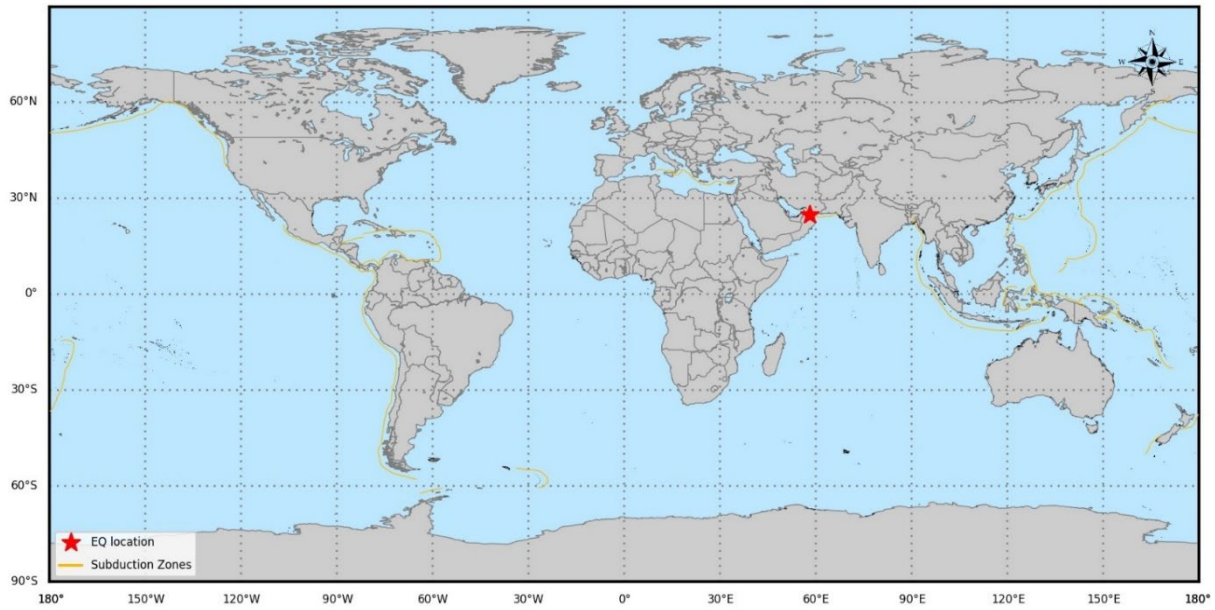
TEST TEST TEST - EXERCISE IOWAVE23 - NOT A REAL TSUNAMI EVENT

#####

3. TSP INDIA MAPS

Figure S2-07. Location Map

Earthquake location: Off Coast of Iran Magnitude: 9



M 9.0

Figure S2-08. Threat Map

Threat Map
EQ location: Off Coast of Iran Magnitude: 9

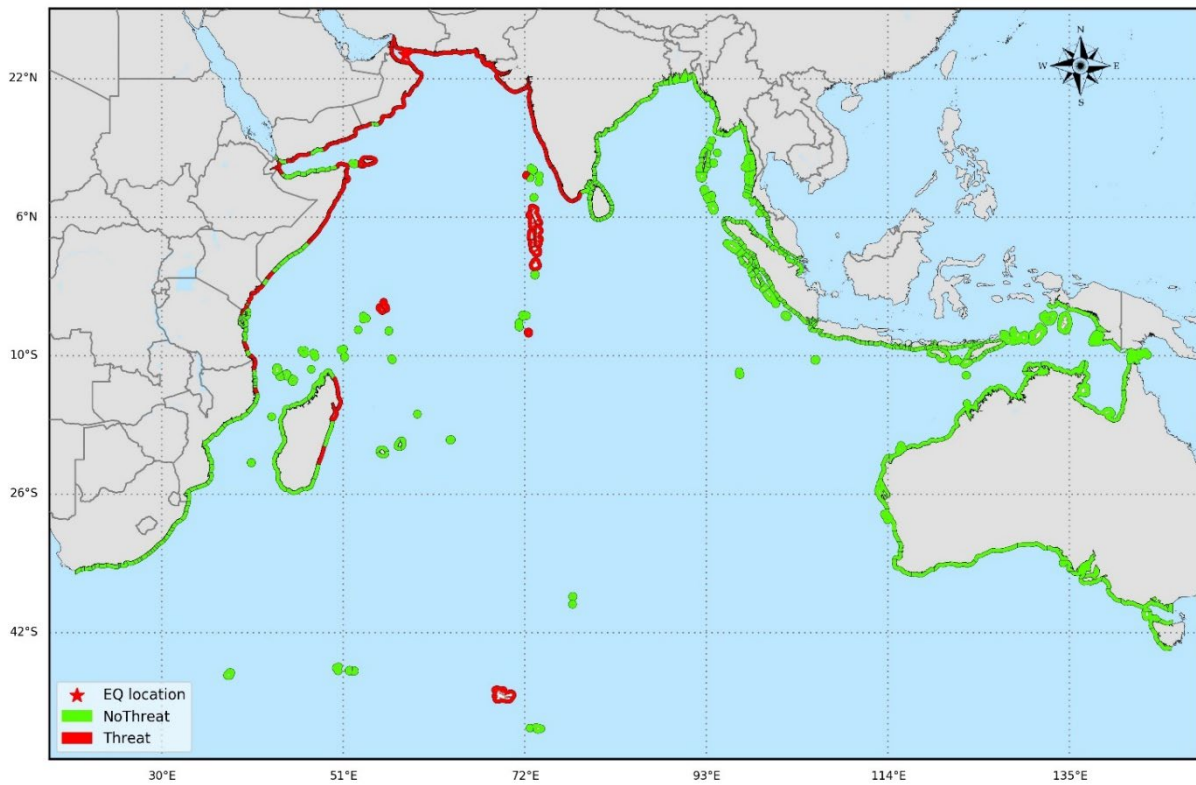


Figure S2-09. Travel Time Map

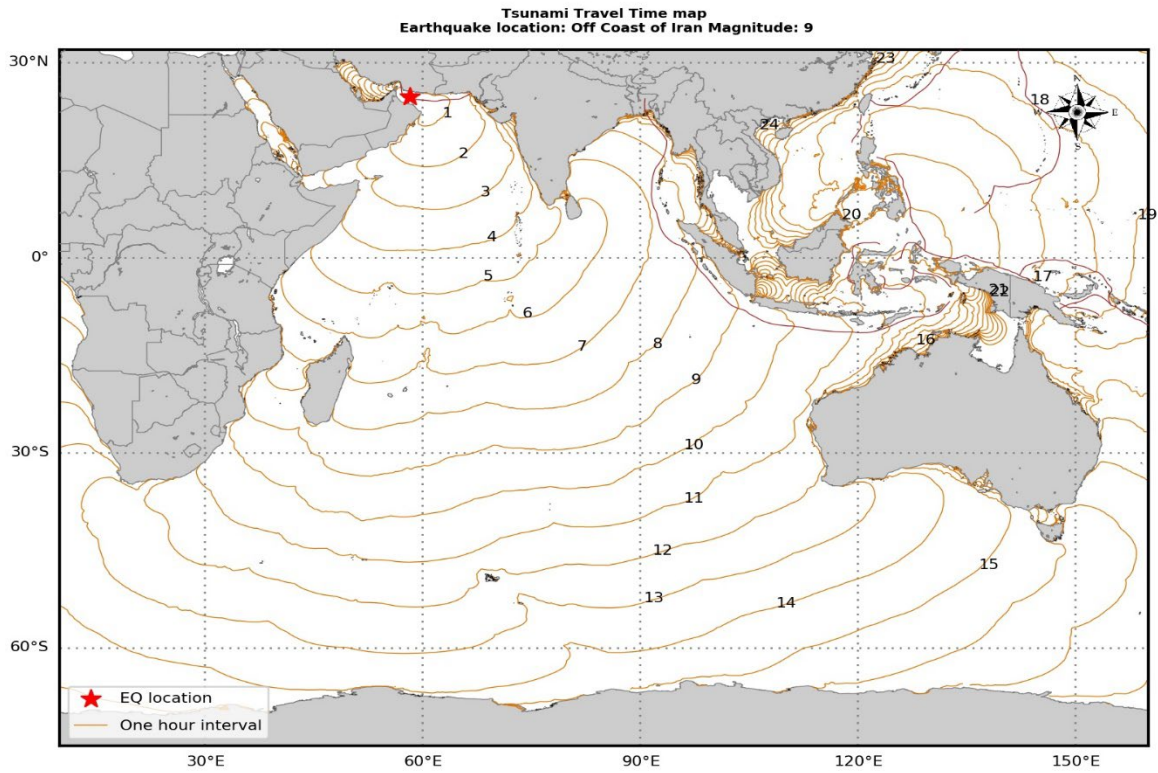
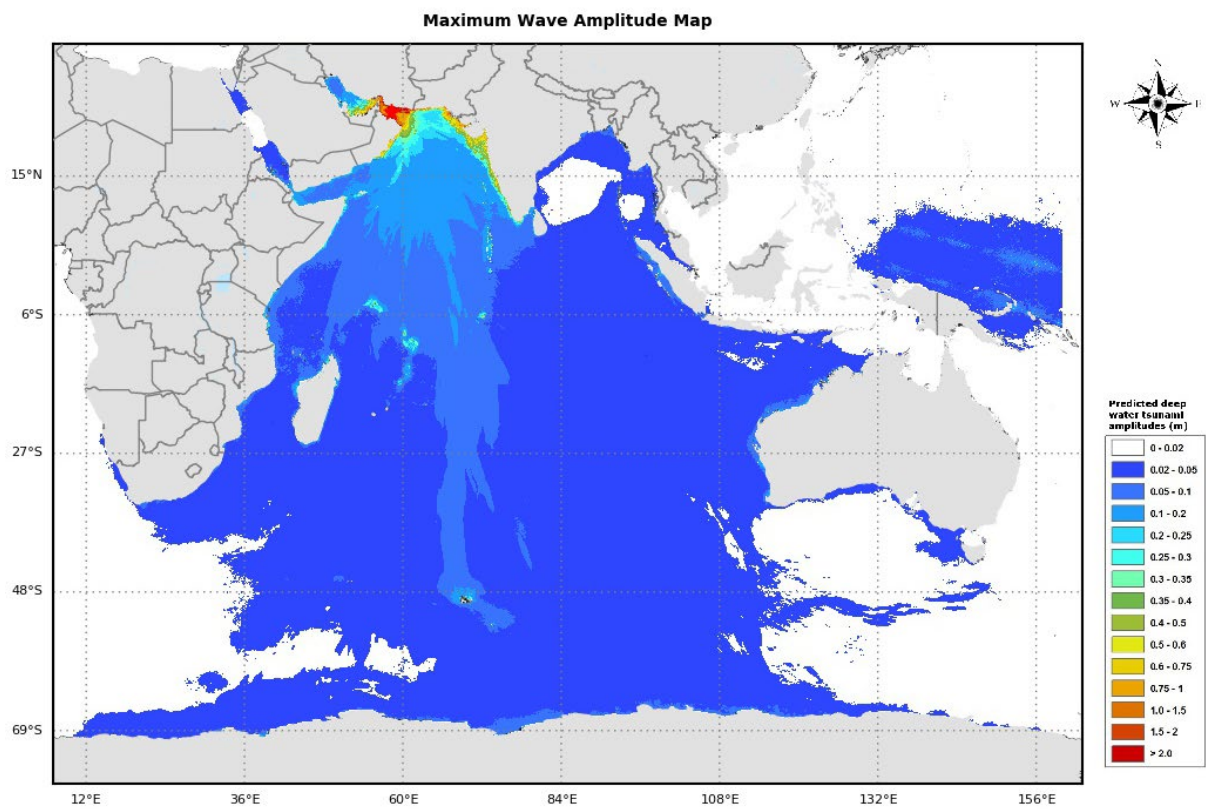


Figure S2-10. Wave Amplitude Map



4. TSP INDIA BULLETINS

BULLETIN 1

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#####  
#  
#   TEST TEST TEST - 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 0608 UTC WEDNESDAY 11 OCTOBER 2023  
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... EARTHQUAKE BULLETIN ...

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

1. EARTHQUAKE INFORMATION

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

Magnitude: 8.5 Mwp
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80 N
Longitude: 58.20 E
Location: OFF COAST OF IRAN

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

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

BULLETIN 2

```
#####  
#  
# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 0615 UTC WEDNESDAY 11 OCTOBER 2023

... 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: 9.0 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600 UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

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	1137z	11 Oct 2023	0.9m	Threat
MUHAMMAD ALI BIN FATHA SUMANA	1205z	11 Oct 2023	0.5m	Threat

FRANCE

ILE KERGUELEN	1951z	11 Oct 2023	1.0m	Threat
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INDIA

MANDVI	0842z	11 Oct 2023	1.6m	Threat
DWARKA	0844z	11 Oct 2023	2.2m	Threat
JAMNAGAR	0856z	11 Oct 2023	2.2m	Threat
PORBANDAR	0859z	11 Oct 2023	1.4m	Threat
MANGROL	0914z	11 Oct 2023	1.2m	Threat
HAZIRA, DIU	0926z	11 Oct 2023	1.5m	Threat

VASCO	0951z	11	Oct	2023	1.0m	Threat
JAIGARH	0954z	11	Oct	2023	1.5m	Threat
MALVAN BAY	0955z	11	Oct	2023	1.1m	Threat
PANAJI	1003z	11	Oct	2023	1.2m	Threat
AGATTI	1010z	11	Oct	2023	1.2m	Threat
KARWAR	1013z	11	Oct	2023	1.3m	Threat
UDUPI	1026z	11	Oct	2023	1.2m	Threat
ALIBAG PORT	1032z	11	Oct	2023	1.4m	Threat
MUMBAI	1032z	11	Oct	2023	1.6m	Threat
PIPAVAV	1043z	11	Oct	2023	1.6m	Threat
MAHUVA	1050z	11	Oct	2023	1.2m	Threat
KHAMBAT	1056z	11	Oct	2023	1.2m	Threat
BHARUCH	1124z	11	Oct	2023	1.2m	Threat
KANNUR	1126z	11	Oct	2023	0.7m	Threat
VAKKAD	1127z	11	Oct	2023	1.1m	Threat
BEYPORE	1129z	11	Oct	2023	0.8m	Threat
COCHIN	1132z	11	Oct	2023	1.0m	Threat
BORSI	1135z	11	Oct	2023	0.8m	Threat
HAZIRA	1135z	11	Oct	2023	1.1m	Threat
TARAPUR	1232z	11	Oct	2023	1.3m	Threat
ALLEPPEY ALAPPUZHA	1406z	11	Oct	2023	0.9m	Threat
MAHE	1434z	11	Oct	2023	0.7m	Threat
VADANAPPALLY	1447z	11	Oct	2023	0.9m	Threat
KASARAGOD	1502z	11	Oct	2023	0.9m	Threat
MANGALORE	1507z	11	Oct	2023	1.0m	Threat
KANYAKUMARI	1529z	11	Oct	2023	1.2m	Threat
TUTICORIN	1602z	11	Oct	2023	0.8m	Threat
KOODANKULAM	1640z	11	Oct	2023	0.7m	Threat
QUILON	1640z	11	Oct	2023	0.8m	Threat
DAMAN	1721z	11	Oct	2023	0.8m	Threat
TRIVANDRUM	1741z	11	Oct	2023	0.7m	Threat

IRAN

BIR	0604z	11	Oct	2023	6.3m	Threat
PUSHT	0604z	11	Oct	2023	6.8m	Threat
MISKI	0606z	11	Oct	2023	4.7m	Threat

KENYA

MALINDI	1628z	11	Oct	2023	1.2m	Threat
KISIMACHANDE	1652z	11	Oct	2023	0.6m	Threat
KIWAYU	2023z	11	Oct	2023	0.6m	Threat
KIPINI	0049z	12	Oct	2023	0.7m	Threat

MADAGASCAR

AMBAHY	2240z	11	Oct	2023	0.6m	Threat
TAMPOLO	0351z	12	Oct	2023	0.5m	Threat
VOHEMAR	0406z	12	Oct	2023	0.6m	Threat

MALDIVES

GOIDHOO	0946z	11	Oct	2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11	Oct	2023	1.3m	Threat
MALE	1031z	11	Oct	2023	1.4m	Threat
NILANDHOO	1159z	11	Oct	2023	0.6m	Threat
DHIYAMIGILI	1407z	11	Oct	2023	0.7m	Threat
THINADHOO	1820z	11	Oct	2023	1.0m	Threat
FERIDHOO	1822z	11	Oct	2023	0.7m	Threat
KOLHUFUSHI	2105z	11	Oct	2023	0.6m	Threat

MOZAMBIQUE

MAGANJA	2242z	11	Oct	2023	0.6m	Threat
NANGATA	2348z	11	Oct	2023	0.5m	Threat
MERONVI	0409z	12	Oct	2023	0.6m	Threat

OMAN

MUSCAT	0616z	11	Oct	2023	7.9m	Threat
BARKA	0620z	11	Oct	2023	6.5m	Threat
EAST MUSANDAM	0620z	11	Oct	2023	4.9m	Threat
QURAYYAT	0621z	11	Oct	2023	8.9m	Threat
AL KHABURAH	0624z	11	Oct	2023	5.5m	Threat
SOHAR	0629z	11	Oct	2023	5.7m	Threat
SUR	0629z	11	Oct	2023	6.6m	Threat
AL ASHKHARAH	0648z	11	Oct	2023	2.8m	Threat
MASIRAH	0703z	11	Oct	2023	1.3m	Threat
RAS AR RUWAYS	0711z	11	Oct	2023	1.8m	Threat
AD DUQM	0731z	11	Oct	2023	2.0m	Threat
AL JAZER	0818z	11	Oct	2023	1.0m	Threat
HASIK	0832z	11	Oct	2023	1.4m	Threat
SALALAH	0834z	11	Oct	2023	1.1m	Threat

PAKISTAN

ORMARA	0624z	11	Oct	2023	4.5m	Threat
WINDER	0730z	11	Oct	2023	1.7m	Threat
KARACHI	0807z	11	Oct	2023	2.9m	Threat
SINDH	0808z	11	Oct	2023	1.6m	Threat

SEYCHELLES

FREGATE ISLAND	1648z	11	Oct	2023	0.6m	Threat
TAKAMAKA	1716z	11	Oct	2023	0.6m	Threat

SOMALIA

TOOXIN	0954z	11	Oct	2023	1.0m	Threat
ABO	0955z	11	Oct	2023	1.1m	Threat
GALDOGOB	1017z	11	Oct	2023	0.7m	Threat
XARARDHEERE	1057z	11	Oct	2023	1.1m	Threat
LOYADO	1139z	11	Oct	2023	0.7m	Threat
BANDER-BEYLA	1503z	11	Oct	2023	0.7m	Threat
CEEL DHEER	1540z	11	Oct	2023	1.1m	Threat
MAREEG	2048z	11	Oct	2023	0.5m	Threat
NE BEERNAASI	2102z	11	Oct	2023	0.6m	Threat
EYL	2144z	11	Oct	2023	0.7m	Threat
JARIIBAN	0306z	12	Oct	2023	0.6m	Threat

TANZANIA

MADANGWA	2104z	11	Oct	2023	0.6m	Threat
WEST TO KONDE	0054z	12	Oct	2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12	Oct	2023	0.6m	Threat

UNITED ARAB EMIRATES

KALBA	0633z	11	Oct	2023	4.4m	Threat
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UNITED KINGDOM

DIEGO GARCIA	1731z	11	Oct	2023	0.5m	Threat
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YEMEN

SOCOTRA ISLAND SOUTH	0854z	11	Oct	2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11	Oct	2023	1.2m	Threat
HUSWAYN	0910z	11	Oct	2023	0.9m	Threat
AL MUKALLA	1129z	11	Oct	2023	0.8m	Threat
KHANFAR	1217z	11	Oct	2023	0.7m	Threat
ALQUMRAH	1235z	11	Oct	2023	0.8m	Threat
HAMI	1423z	11	Oct	2023	0.8m	Threat
MAALLAH	1654z	11	Oct	2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11	Oct	2023	0.8m	Threat

HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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/rtspl/>

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.in

END OF BULLETIN

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

#####

BULLETIN 3

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#####  
#  
# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 0630 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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

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

DJIBOUTI

NW ARTA 1137z 11 Oct 2023 0.9m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI 0842z 11 Oct 2023 1.6m Threat
DWARKA 0844z 11 Oct 2023 2.2m Threat
JAMNAGAR 0856z 11 Oct 2023 2.2m Threat
PORBANDAR 0859z 11 Oct 2023 1.4m Threat

MANGROL	0914z	11 Oct 2023	1.2m	Threat
HAZIRA, DIU	0926z	11 Oct 2023	1.5m	Threat
VASCO	0951z	11 Oct 2023	1.0m	Threat
JAIGARH	0954z	11 Oct 2023	1.5m	Threat
MALVAN BAY	0955z	11 Oct 2023	1.1m	Threat
PANAJI	1003z	11 Oct 2023	1.2m	Threat
AGATTI	1010z	11 Oct 2023	1.2m	Threat
KARWAR	1013z	11 Oct 2023	1.3m	Threat
UDUPI	1026z	11 Oct 2023	1.2m	Threat
ALIBAG PORT	1032z	11 Oct 2023	1.4m	Threat
MUMBAI	1032z	11 Oct 2023	1.6m	Threat
PIPAVAV	1043z	11 Oct 2023	1.6m	Threat
MAHUVA	1050z	11 Oct 2023	1.2m	Threat
KHAMBAT	1056z	11 Oct 2023	1.2m	Threat
BHARUCH	1124z	11 Oct 2023	1.2m	Threat
KANNUR	1126z	11 Oct 2023	0.7m	Threat
VAKKAD	1127z	11 Oct 2023	1.1m	Threat
BEYPORE	1129z	11 Oct 2023	0.8m	Threat
COCHIN	1132z	11 Oct 2023	1.0m	Threat
BORSI	1135z	11 Oct 2023	0.8m	Threat
HAZIRA	1135z	11 Oct 2023	1.1m	Threat
TARAPUR	1232z	11 Oct 2023	1.3m	Threat
ALLEPPEY ALAPPUZHA	1406z	11 Oct 2023	0.9m	Threat
MAHE	1434z	11 Oct 2023	0.7m	Threat
VADANAPPALLY	1447z	11 Oct 2023	0.9m	Threat
KASARAGOD	1502z	11 Oct 2023	0.9m	Threat
MANGALORE	1507z	11 Oct 2023	1.0m	Threat
KANYAKUMARI	1529z	11 Oct 2023	1.2m	Threat
TUTICORIN	1602z	11 Oct 2023	0.8m	Threat
KOODANKULAM	1640z	11 Oct 2023	0.7m	Threat
QUILON	1640z	11 Oct 2023	0.8m	Threat
DAMAN	1721z	11 Oct 2023	0.8m	Threat
TRIVANDRUM	1741z	11 Oct 2023	0.7m	Threat

IRAN

BIR	0604z	11 Oct 2023	6.3m	Threat
PUSHT	0604z	11 Oct 2023	6.8m	Threat
MISKI	0606z	11 Oct 2023	4.7m	Threat

KENYA

MALINDI	1628z	11 Oct 2023	1.2m	Threat
KISIMACHANDE	1652z	11 Oct 2023	0.6m	Threat
KIWAYU	2023z	11 Oct 2023	0.6m	Threat
KIPINI	0049z	12 Oct 2023	0.7m	Threat

MADAGASCAR

AMBAHY	2240z	11 Oct 2023	0.6m	Threat
TAMPOLO	0351z	12 Oct 2023	0.5m	Threat
VOHEMAR	0406z	12 Oct 2023	0.6m	Threat

MALDIVES

GOIDHOO	0946z	11 Oct 2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11 Oct 2023	1.3m	Threat
MALE	1031z	11 Oct 2023	1.4m	Threat
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THINADHOO	1820z	11 Oct 2023	1.0m	Threat
FERIDHOO	1822z	11 Oct 2023	0.7m	Threat
KOLHUFUSHI	2105z	11 Oct 2023	0.6m	Threat

MOZAMBIQUE

MAGANJA	2242z	11 Oct 2023	0.6m	Threat
NANGATA	2348z	11 Oct 2023	0.5m	Threat

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MERONVI	0409z	12 Oct 2023	0.6m	Threat
OMAN				

MUSCAT	0616z	11 Oct 2023	7.9m	Threat
BARKA	0620z	11 Oct 2023	6.5m	Threat
EAST MUSANDAM	0620z	11 Oct 2023	4.9m	Threat
QURAYYAT	0621z	11 Oct 2023	8.9m	Threat
AL KHABURAH	0624z	11 Oct 2023	5.5m	Threat
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PAKISTAN				

ORMARA	0624z	11 Oct 2023	4.5m	Threat
WINDER	0730z	11 Oct 2023	1.7m	Threat
KARACHI	0807z	11 Oct 2023	2.9m	Threat
SINDH	0808z	11 Oct 2023	1.6m	Threat
SEYCHELLES				

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TAKAMAKA	1716z	11 Oct 2023	0.6m	Threat
SOMALIA				

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XARARDHEERE	1057z	11 Oct 2023	1.1m	Threat
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CEEL DHEER	1540z	11 Oct 2023	1.1m	Threat
MAREEG	2048z	11 Oct 2023	0.5m	Threat
NE BEERNAASI	2102z	11 Oct 2023	0.6m	Threat
EYL	2144z	11 Oct 2023	0.7m	Threat
JARIIBAN	0306z	12 Oct 2023	0.6m	Threat
TANZANIA				

MADANGWA	2104z	11 Oct 2023	0.6m	Threat
WEST TO KONDE	0054z	12 Oct 2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12 Oct 2023	0.6m	Threat
UNITED ARAB EMIRATES				

KALBA	0633z	11 Oct 2023	4.4m	Threat
UNITED KINGDOM				

DIEGO GARCIA	1731z	11 Oct 2023	0.5m	Threat
YEMEN				

SOCOTRA ISLAND SOUTH	0854z	11 Oct 2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11 Oct 2023	1.2m	Threat
HUSWAYN	0910z	11 Oct 2023	0.9m	Threat
AL MUKALLA	1129z	11 Oct 2023	0.8m	Threat
KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat

MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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/rtp/>
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

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 4

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#  
# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 0700 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m

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 1137z 11 Oct 2023 0.9m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

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JAMNAGAR 0856z 11 Oct 2023 2.2m Threat

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JAIGARH	0954z	11 Oct 2023	1.5m	Threat
MALVAN BAY	0955z	11 Oct 2023	1.1m	Threat
PANAJI	1003z	11 Oct 2023	1.2m	Threat
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TARAPUR	1232z	11 Oct 2023	1.3m	Threat
ALLEPPEY ALAPPUZHA	1406z	11 Oct 2023	0.9m	Threat
MAHE	1434z	11 Oct 2023	0.7m	Threat
VADANAPPALLY	1447z	11 Oct 2023	0.9m	Threat
KASARAGOD	1502z	11 Oct 2023	0.9m	Threat
MANGALORE	1507z	11 Oct 2023	1.0m	Threat
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MALDIVES				

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THINADHOO	1820z	11 Oct 2023	1.0m	Threat
FERIDHOO	1822z	11 Oct 2023	0.7m	Threat
KOLHUFUSHI	2105z	11 Oct 2023	0.6m	Threat
MOZAMBIQUE				

MAGANJA	2242z	11 Oct 2023	0.6m	Threat

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NANGATA	2348z	11 Oct 2023	0.5m	Threat
MERONVI	0409z	12 Oct 2023	0.6m	Threat
OMAN				

MUSCAT	0616z	11 Oct 2023	7.9m	Threat
BARKA	0620z	11 Oct 2023	6.5m	Threat
EAST MUSANDAM	0620z	11 Oct 2023	4.9m	Threat
QURAYYAT	0621z	11 Oct 2023	8.9m	Threat
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SOHAR	0629z	11 Oct 2023	5.7m	Threat
SUR	0629z	11 Oct 2023	6.6m	Threat
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RAS AR RUWAYS	0711z	11 Oct 2023	1.8m	Threat
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AL JAZER	0818z	11 Oct 2023	1.0m	Threat
HASIK	0832z	11 Oct 2023	1.4m	Threat
SALALAH	0834z	11 Oct 2023	1.1m	Threat
PAKISTAN				

ORMARA	0624z	11 Oct 2023	4.5m	Threat
WINDER	0730z	11 Oct 2023	1.7m	Threat
KARACHI	0807z	11 Oct 2023	2.9m	Threat
SINDH	0808z	11 Oct 2023	1.6m	Threat
SEYCHELLES				

FREGATE ISLAND	1648z	11 Oct 2023	0.6m	Threat
TAKAMAKA	1716z	11 Oct 2023	0.6m	Threat
SOMALIA				

TOOXIN	0954z	11 Oct 2023	1.0m	Threat
ABO	0955z	11 Oct 2023	1.1m	Threat
GALDOGOB	1017z	11 Oct 2023	0.7m	Threat
XARARDHEERE	1057z	11 Oct 2023	1.1m	Threat
LOYADO	1139z	11 Oct 2023	0.7m	Threat
BANDER-BEYLA	1503z	11 Oct 2023	0.7m	Threat
CEEL DHEER	1540z	11 Oct 2023	1.1m	Threat
MAREEG	2048z	11 Oct 2023	0.5m	Threat
NE BEERNAASI	2102z	11 Oct 2023	0.6m	Threat
EYL	2144z	11 Oct 2023	0.7m	Threat
JARIIBAN	0306z	12 Oct 2023	0.6m	Threat
TANZANIA				

MADANGWA	2104z	11 Oct 2023	0.6m	Threat
WEST TO KONDE	0054z	12 Oct 2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12 Oct 2023	0.6m	Threat
UNITED ARAB EMIRATES				

KALBA	0633z	11 Oct 2023	4.4m	Threat
UNITED KINGDOM				

DIEGO GARCIA	1731z	11 Oct 2023	0.5m	Threat
YEMEN				

SOCOTRA ISLAND SOUTH	0854z	11 Oct 2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11 Oct 2023	1.2m	Threat
HUSWAYN	0910z	11 Oct 2023	0.9m	Threat
AL MUKALLA	1129z	11 Oct 2023	0.8m	Threat
KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat

HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
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HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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.

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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.in

END OF BULLETIN

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 5

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# TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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#####
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TSUNAMI BULLETIN NUMBER 5 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWC)
ISSUED AT 0800 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m

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

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MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI 0842z 11 Oct 2023 1.6m Threat

DWARKA	0844z	11	Oct	2023	2.2m	Threat
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VASCO	0951z	11	Oct	2023	1.0m	Threat
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PANAJI	1003z	11	Oct	2023	1.2m	Threat
AGATTI	1010z	11	Oct	2023	1.2m	Threat
KARWAR	1013z	11	Oct	2023	1.3m	Threat
UDUPI	1026z	11	Oct	2023	1.2m	Threat
ALIBAG PORT	1032z	11	Oct	2023	1.4m	Threat
MUMBAI	1032z	11	Oct	2023	1.6m	Threat
PIPAVAV	1043z	11	Oct	2023	1.6m	Threat
MAHUVA	1050z	11	Oct	2023	1.2m	Threat
KHAMBAT	1056z	11	Oct	2023	1.2m	Threat
BHARUCH	1124z	11	Oct	2023	1.2m	Threat
KANNUR	1126z	11	Oct	2023	0.7m	Threat
VAKKAD	1127z	11	Oct	2023	1.1m	Threat
BEYPORE	1129z	11	Oct	2023	0.8m	Threat
COCHIN	1132z	11	Oct	2023	1.0m	Threat
BORSI	1135z	11	Oct	2023	0.8m	Threat
HAZIRA	1135z	11	Oct	2023	1.1m	Threat
TARAPUR	1232z	11	Oct	2023	1.3m	Threat
ALLEPPEY ALAPPUZHA	1406z	11	Oct	2023	0.9m	Threat
MAHE	1434z	11	Oct	2023	0.7m	Threat
VADANAPPALLY	1447z	11	Oct	2023	0.9m	Threat
KASARAGOD	1502z	11	Oct	2023	0.9m	Threat
MANGALORE	1507z	11	Oct	2023	1.0m	Threat
KANYAKUMARI	1529z	11	Oct	2023	1.2m	Threat
TUTICORIN	1602z	11	Oct	2023	0.8m	Threat
KOODANKULAM	1640z	11	Oct	2023	0.7m	Threat
QUILON	1640z	11	Oct	2023	0.8m	Threat
DAMAN	1721z	11	Oct	2023	0.8m	Threat
TRIVANDRUM	1741z	11	Oct	2023	0.7m	Threat

IRAN

BIR	0604z	11	Oct	2023	6.3m	Threat
PUSHT	0604z	11	Oct	2023	6.8m	Threat
MISKI	0606z	11	Oct	2023	4.7m	Threat

KENYA

MALINDI	1628z	11	Oct	2023	1.2m	Threat
KISIMACHANDE	1652z	11	Oct	2023	0.6m	Threat
KIWAYU	2023z	11	Oct	2023	0.6m	Threat
KIPINI	0049z	12	Oct	2023	0.7m	Threat

MADAGASCAR

AMBAHY	2240z	11	Oct	2023	0.6m	Threat
TAMPOLO	0351z	12	Oct	2023	0.5m	Threat
VOHEMAR	0406z	12	Oct	2023	0.6m	Threat

MALDIVES

GOIDHOO	0946z	11	Oct	2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11	Oct	2023	1.3m	Threat
MALE	1031z	11	Oct	2023	1.4m	Threat
NILANDHOO	1159z	11	Oct	2023	0.6m	Threat
DHIYAMIGILI	1407z	11	Oct	2023	0.7m	Threat
THINADHOO	1820z	11	Oct	2023	1.0m	Threat
FERIDHOO	1822z	11	Oct	2023	0.7m	Threat
KOLHUFUSHI	2105z	11	Oct	2023	0.6m	Threat

MOZAMBIQUE

MAGANJA	2242z	11	Oct	2023	0.6m	Threat
NANGATA	2348z	11	Oct	2023	0.5m	Threat
MERONVI	0409z	12	Oct	2023	0.6m	Threat
OMAN						

MUSCAT	0616z	11	Oct	2023	7.9m	Threat
BARKA	0620z	11	Oct	2023	6.5m	Threat
EAST MUSANDAM	0620z	11	Oct	2023	4.9m	Threat
QURAYYAT	0621z	11	Oct	2023	8.9m	Threat
AL KHABURAH	0624z	11	Oct	2023	5.5m	Threat
SOHAR	0629z	11	Oct	2023	5.7m	Threat
SUR	0629z	11	Oct	2023	6.6m	Threat
AL ASHKHARAH	0648z	11	Oct	2023	2.8m	Threat
MASIRAH	0703z	11	Oct	2023	1.3m	Threat
RAS AR RUWAYS	0711z	11	Oct	2023	1.8m	Threat
AD DUQM	0731z	11	Oct	2023	2.0m	Threat
AL JAZER	0818z	11	Oct	2023	1.0m	Threat
HASIK	0832z	11	Oct	2023	1.4m	Threat
SALALAH	0834z	11	Oct	2023	1.1m	Threat
PAKISTAN						

ORMARA	0624z	11	Oct	2023	4.5m	Threat
WINDER	0730z	11	Oct	2023	1.7m	Threat
KARACHI	0807z	11	Oct	2023	2.9m	Threat
SINDH	0808z	11	Oct	2023	1.6m	Threat
SEYCHELLES						

FREGATE ISLAND	1648z	11	Oct	2023	0.6m	Threat
TAKAMAKA	1716z	11	Oct	2023	0.6m	Threat
SOMALIA						

TOOXIN	0954z	11	Oct	2023	1.0m	Threat
ABO	0955z	11	Oct	2023	1.1m	Threat
GALDOGOB	1017z	11	Oct	2023	0.7m	Threat
XARARDHEERE	1057z	11	Oct	2023	1.1m	Threat
LOYADO	1139z	11	Oct	2023	0.7m	Threat
BANDER-BEYLA	1503z	11	Oct	2023	0.7m	Threat
CEEL DHEER	1540z	11	Oct	2023	1.1m	Threat
MAREEG	2048z	11	Oct	2023	0.5m	Threat
NE BEERNAASI	2102z	11	Oct	2023	0.6m	Threat
EYL	2144z	11	Oct	2023	0.7m	Threat
JARIIBAN	0306z	12	Oct	2023	0.6m	Threat
TANZANIA						

MADANGWA	2104z	11	Oct	2023	0.6m	Threat
WEST TO KONDE	0054z	12	Oct	2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12	Oct	2023	0.6m	Threat
UNITED ARAB EMIRATES						

KALBA	0633z	11	Oct	2023	4.4m	Threat
UNITED KINGDOM						

DIEGO GARCIA	1731z	11	Oct	2023	0.5m	Threat
YEMEN						

SOCOTRA ISLAND SOUTH	0854z	11	Oct	2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11	Oct	2023	1.2m	Threat
HUSWAYN	0910z	11	Oct	2023	0.9m	Threat
AL MUKALLA	1129z	11	Oct	2023	0.8m	Threat

KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT
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BULLETIN 6

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#####  
#  
# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 0900 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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

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

DJIBOUTI

NW ARTA 1137z 11 Oct 2023 0.9m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI 0842z 11 Oct 2023 1.6m Threat

DWARKA	0844z	11	Oct	2023	2.2m	Threat
JAMNAGAR	0856z	11	Oct	2023	2.2m	Threat
PORBANDAR	0859z	11	Oct	2023	1.4m	Threat
MANGROL	0914z	11	Oct	2023	1.2m	Threat
HAZIRA, DIU	0926z	11	Oct	2023	1.5m	Threat
VASCO	0951z	11	Oct	2023	1.0m	Threat
JAIGARH	0954z	11	Oct	2023	1.5m	Threat
MALVAN BAY	0955z	11	Oct	2023	1.1m	Threat
PANAJI	1003z	11	Oct	2023	1.2m	Threat
AGATTI	1010z	11	Oct	2023	1.2m	Threat
KARWAR	1013z	11	Oct	2023	1.3m	Threat
UDUPI	1026z	11	Oct	2023	1.2m	Threat
ALIBAG PORT	1032z	11	Oct	2023	1.4m	Threat
MUMBAI	1032z	11	Oct	2023	1.6m	Threat
PIPAVAV	1043z	11	Oct	2023	1.6m	Threat
MAHUVA	1050z	11	Oct	2023	1.2m	Threat
KHAMBAT	1056z	11	Oct	2023	1.2m	Threat
BHARUCH	1124z	11	Oct	2023	1.2m	Threat
KANNUR	1126z	11	Oct	2023	0.7m	Threat
VAKKAD	1127z	11	Oct	2023	1.1m	Threat
BEYPORE	1129z	11	Oct	2023	0.8m	Threat
COCHIN	1132z	11	Oct	2023	1.0m	Threat
BORSI	1135z	11	Oct	2023	0.8m	Threat
HAZIRA	1135z	11	Oct	2023	1.1m	Threat
TARAPUR	1232z	11	Oct	2023	1.3m	Threat
ALLEPPEY ALAPPUZHA	1406z	11	Oct	2023	0.9m	Threat
MAHE	1434z	11	Oct	2023	0.7m	Threat
VADANAPPALLY	1447z	11	Oct	2023	0.9m	Threat
KASARAGOD	1502z	11	Oct	2023	0.9m	Threat
MANGALORE	1507z	11	Oct	2023	1.0m	Threat
KANYAKUMARI	1529z	11	Oct	2023	1.2m	Threat
TUTICORIN	1602z	11	Oct	2023	0.8m	Threat
KOODANKULAM	1640z	11	Oct	2023	0.7m	Threat
QUILON	1640z	11	Oct	2023	0.8m	Threat
DAMAN	1721z	11	Oct	2023	0.8m	Threat
TRIVANDRUM	1741z	11	Oct	2023	0.7m	Threat

IRAN

BIR	0604z	11	Oct	2023	6.3m	Threat
PUSHT	0604z	11	Oct	2023	6.8m	Threat
MISKI	0606z	11	Oct	2023	4.7m	Threat

KENYA

MALINDI	1628z	11	Oct	2023	1.2m	Threat
KISIMACHANDE	1652z	11	Oct	2023	0.6m	Threat
KIWAYU	2023z	11	Oct	2023	0.6m	Threat
KIPINI	0049z	12	Oct	2023	0.7m	Threat

MADAGASCAR

AMBAHY	2240z	11	Oct	2023	0.6m	Threat
TAMPOLO	0351z	12	Oct	2023	0.5m	Threat
VOHEMAR	0406z	12	Oct	2023	0.6m	Threat

MALDIVES

GOIDHOO	0946z	11	Oct	2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11	Oct	2023	1.3m	Threat
MALE	1031z	11	Oct	2023	1.4m	Threat
NILANDHOO	1159z	11	Oct	2023	0.6m	Threat
DHIYAMIGILI	1407z	11	Oct	2023	0.7m	Threat
THINADHOO	1820z	11	Oct	2023	1.0m	Threat
FERIDHOO	1822z	11	Oct	2023	0.7m	Threat
KOLHUFUSHI	2105z	11	Oct	2023	0.6m	Threat

MOZAMBIQUE

MAGANJA	2242z	11	Oct	2023	0.6m	Threat
NANGATA	2348z	11	Oct	2023	0.5m	Threat
MERONVI	0409z	12	Oct	2023	0.6m	Threat
OMAN						

MUSCAT	0616z	11	Oct	2023	7.9m	Threat
BARKA	0620z	11	Oct	2023	6.5m	Threat
EAST MUSANDAM	0620z	11	Oct	2023	4.9m	Threat
QURAYYAT	0621z	11	Oct	2023	8.9m	Threat
AL KHABURAH	0624z	11	Oct	2023	5.5m	Threat
SOHAR	0629z	11	Oct	2023	5.7m	Threat
SUR	0629z	11	Oct	2023	6.6m	Threat
AL ASHKHARAH	0648z	11	Oct	2023	2.8m	Threat
MASIRAH	0703z	11	Oct	2023	1.3m	Threat
RAS AR RUWAYS	0711z	11	Oct	2023	1.8m	Threat
AD DUQM	0731z	11	Oct	2023	2.0m	Threat
AL JAZER	0818z	11	Oct	2023	1.0m	Threat
HASIK	0832z	11	Oct	2023	1.4m	Threat
SALALAH	0834z	11	Oct	2023	1.1m	Threat
PAKISTAN						

ORMARA	0624z	11	Oct	2023	4.5m	Threat
WINDER	0730z	11	Oct	2023	1.7m	Threat
KARACHI	0807z	11	Oct	2023	2.9m	Threat
SINDH	0808z	11	Oct	2023	1.6m	Threat
SEYCHELLES						

FREGATE ISLAND	1648z	11	Oct	2023	0.6m	Threat
TAKAMAKA	1716z	11	Oct	2023	0.6m	Threat
SOMALIA						

TOOXIN	0954z	11	Oct	2023	1.0m	Threat
ABO	0955z	11	Oct	2023	1.1m	Threat
GALDOGOB	1017z	11	Oct	2023	0.7m	Threat
XARARDHEERE	1057z	11	Oct	2023	1.1m	Threat
LOYADO	1139z	11	Oct	2023	0.7m	Threat
BANDER-BEYLA	1503z	11	Oct	2023	0.7m	Threat
CEEL DHEER	1540z	11	Oct	2023	1.1m	Threat
MAREEG	2048z	11	Oct	2023	0.5m	Threat
NE BEERNAASI	2102z	11	Oct	2023	0.6m	Threat
EYL	2144z	11	Oct	2023	0.7m	Threat
JARIIBAN	0306z	12	Oct	2023	0.6m	Threat
TANZANIA						

MADANGWA	2104z	11	Oct	2023	0.6m	Threat
WEST TO KONDE	0054z	12	Oct	2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12	Oct	2023	0.6m	Threat
UNITED ARAB EMIRATES						

KALBA	0633z	11	Oct	2023	4.4m	Threat
UNITED KINGDOM						

DIEGO GARCIA	1731z	11	Oct	2023	0.5m	Threat
YEMEN						

SOCOTRA ISLAND SOUTH	0854z	11	Oct	2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11	Oct	2023	1.2m	Threat
HUSWAYN	0910z	11	Oct	2023	0.9m	Threat
AL MUKALLA	1129z	11	Oct	2023	0.8m	Threat

KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT
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BULLETIN 7

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

TSUNAMI BULLETIN NUMBER 7 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWC)
ISSUED AT 1000 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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

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

DJIBOUTI

NW ARTA 1137z 11 Oct 2023 0.9m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI	0842z	11	Oct	2023	1.6m	Threat
DWARKA	0844z	11	Oct	2023	2.2m	Threat
JAMNAGAR	0856z	11	Oct	2023	2.2m	Threat
PORBANDAR	0859z	11	Oct	2023	1.4m	Threat
MANGROL	0914z	11	Oct	2023	1.2m	Threat
HAZIRA, DIU	0926z	11	Oct	2023	1.5m	Threat
VASCO	0951z	11	Oct	2023	1.0m	Threat
JAIGARH	0954z	11	Oct	2023	1.5m	Threat
MALVAN BAY	0955z	11	Oct	2023	1.1m	Threat
PANAJI	1003z	11	Oct	2023	1.2m	Threat
AGATTI	1010z	11	Oct	2023	1.2m	Threat
KARWAR	1013z	11	Oct	2023	1.3m	Threat
UDUPI	1026z	11	Oct	2023	1.2m	Threat
ALIBAG PORT	1032z	11	Oct	2023	1.4m	Threat
MUMBAI	1032z	11	Oct	2023	1.6m	Threat
PIPAVAV	1043z	11	Oct	2023	1.6m	Threat
MAHUVA	1050z	11	Oct	2023	1.2m	Threat
KHAMBAT	1056z	11	Oct	2023	1.2m	Threat
BHARUCH	1124z	11	Oct	2023	1.2m	Threat
KANNUR	1126z	11	Oct	2023	0.7m	Threat
VAKKAD	1127z	11	Oct	2023	1.1m	Threat
BEYPORE	1129z	11	Oct	2023	0.8m	Threat
COCHIN	1132z	11	Oct	2023	1.0m	Threat
BORSI	1135z	11	Oct	2023	0.8m	Threat
HAZIRA	1135z	11	Oct	2023	1.1m	Threat
TARAPUR	1232z	11	Oct	2023	1.3m	Threat
ALLEPPEY ALAPPUZHA	1406z	11	Oct	2023	0.9m	Threat
MAHE	1434z	11	Oct	2023	0.7m	Threat
VADANAPPALLY	1447z	11	Oct	2023	0.9m	Threat
KASARAGOD	1502z	11	Oct	2023	0.9m	Threat
MANGALORE	1507z	11	Oct	2023	1.0m	Threat
KANYAKUMARI	1529z	11	Oct	2023	1.2m	Threat
TUTICORIN	1602z	11	Oct	2023	0.8m	Threat
KOODANKULAM	1640z	11	Oct	2023	0.7m	Threat
QUILON	1640z	11	Oct	2023	0.8m	Threat
DAMAN	1721z	11	Oct	2023	0.8m	Threat
TRIVANDRUM	1741z	11	Oct	2023	0.7m	Threat
IRAN						

BIR	0604z	11	Oct	2023	6.3m	Threat
PUSHT	0604z	11	Oct	2023	6.8m	Threat
MISKI	0606z	11	Oct	2023	4.7m	Threat
KENYA						

MALINDI	1628z	11	Oct	2023	1.2m	Threat
KISIMACHANDE	1652z	11	Oct	2023	0.6m	Threat
KIWAYU	2023z	11	Oct	2023	0.6m	Threat
KIPINI	0049z	12	Oct	2023	0.7m	Threat
MADAGASCAR						

AMBAHY	2240z	11	Oct	2023	0.6m	Threat
TAMPOLO	0351z	12	Oct	2023	0.5m	Threat
VOHEMAR	0406z	12	Oct	2023	0.6m	Threat
MALDIVES						

GOIDHOO	0946z	11	Oct	2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11	Oct	2023	1.3m	Threat
MALE	1031z	11	Oct	2023	1.4m	Threat
NILANDHOO	1159z	11	Oct	2023	0.6m	Threat
DHIYAMIGILI	1407z	11	Oct	2023	0.7m	Threat
THINADHOO	1820z	11	Oct	2023	1.0m	Threat
FERIDHOO	1822z	11	Oct	2023	0.7m	Threat
KOLHUFUSHI	2105z	11	Oct	2023	0.6m	Threat

MOZAMBIQUE

MAGANJA	2242z	11 Oct 2023	0.6m	Threat
NANGATA	2348z	11 Oct 2023	0.5m	Threat
MERONVI	0409z	12 Oct 2023	0.6m	Threat

OMAN

MUSCAT	0616z	11 Oct 2023	7.9m	Threat
BARKA	0620z	11 Oct 2023	6.5m	Threat
EAST MUSANDAM	0620z	11 Oct 2023	4.9m	Threat
QURAYYAT	0621z	11 Oct 2023	8.9m	Threat
AL KHABURAH	0624z	11 Oct 2023	5.5m	Threat
SOHAR	0629z	11 Oct 2023	5.7m	Threat
SUR	0629z	11 Oct 2023	6.6m	Threat
AL ASHKHARAH	0648z	11 Oct 2023	2.8m	Threat
MASIRAH	0703z	11 Oct 2023	1.3m	Threat
RAS AR RUWAYS	0711z	11 Oct 2023	1.8m	Threat
AD DUQM	0731z	11 Oct 2023	2.0m	Threat
AL JAZER	0818z	11 Oct 2023	1.0m	Threat
HASIK	0832z	11 Oct 2023	1.4m	Threat
SALALAH	0834z	11 Oct 2023	1.1m	Threat

PAKISTAN

ORMARA	0624z	11 Oct 2023	4.5m	Threat
WINDER	0730z	11 Oct 2023	1.7m	Threat
KARACHI	0807z	11 Oct 2023	2.9m	Threat
SINDH	0808z	11 Oct 2023	1.6m	Threat

SEYCHELLES

FREGATE ISLAND	1648z	11 Oct 2023	0.6m	Threat
TAKAMAKA	1716z	11 Oct 2023	0.6m	Threat

SOMALIA

TOOXIN	0954z	11 Oct 2023	1.0m	Threat
ABO	0955z	11 Oct 2023	1.1m	Threat
GALDOGOB	1017z	11 Oct 2023	0.7m	Threat
XARARDHEERE	1057z	11 Oct 2023	1.1m	Threat
LOYADO	1139z	11 Oct 2023	0.7m	Threat
BANDER-BEYLA	1503z	11 Oct 2023	0.7m	Threat
CEEL DHEER	1540z	11 Oct 2023	1.1m	Threat
MAREEG	2048z	11 Oct 2023	0.5m	Threat
NE BEERNAASI	2102z	11 Oct 2023	0.6m	Threat
EYL	2144z	11 Oct 2023	0.7m	Threat
JARIIBAN	0306z	12 Oct 2023	0.6m	Threat

TANZANIA

MADANGWA	2104z	11 Oct 2023	0.6m	Threat
WEST TO KONDE	0054z	12 Oct 2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12 Oct 2023	0.6m	Threat

UNITED ARAB EMIRATES

KALBA	0633z	11 Oct 2023	4.4m	Threat
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UNITED KINGDOM

DIEGO GARCIA	1731z	11 Oct 2023	0.5m	Threat
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YEMEN

SOCOTRA ISLAND SOUTH	0854z	11 Oct 2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11 Oct 2023	1.2m	Threat
HUSWAYN	0910z	11 Oct 2023	0.9m	Threat

AL MUKALLA	1129z	11 Oct 2023	0.8m	Threat
KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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

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

BULLETIN 8

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

TSUNAMI BULLETIN NUMBER 8 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWC)
ISSUED AT 1100 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m
Male (MALDIVE ISLANDS)	4.19N	73.53E	1008z	11 Oct 2023	0.5m
Cochin (INDIA)	9.97N	76.27E	1026z	11 Oct 2023	1.3m
Denis Island (SEYCHELLES)	3.80S	55.67E	1030z	11 Oct 2023	0.4m

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 1137z 11 Oct 2023 0.9m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI	0842z	11	Oct	2023	1.6m	Threat
DWARKA	0844z	11	Oct	2023	2.2m	Threat
JAMNAGAR	0856z	11	Oct	2023	2.2m	Threat
PORBANDAR	0859z	11	Oct	2023	1.4m	Threat
MANGROL	0914z	11	Oct	2023	1.2m	Threat
HAZIRA, DIU	0926z	11	Oct	2023	1.5m	Threat
VASCO	0951z	11	Oct	2023	1.0m	Threat
JAIGARH	0954z	11	Oct	2023	1.5m	Threat
MALVAN BAY	0955z	11	Oct	2023	1.1m	Threat
PANAJI	1003z	11	Oct	2023	1.2m	Threat
AGATTI	1010z	11	Oct	2023	1.2m	Threat
KARWAR	1013z	11	Oct	2023	1.3m	Threat
UDUPI	1026z	11	Oct	2023	1.2m	Threat
ALIBAG PORT	1032z	11	Oct	2023	1.4m	Threat
MUMBAI	1032z	11	Oct	2023	1.6m	Threat
PIPAVAV	1043z	11	Oct	2023	1.6m	Threat
MAHUVA	1050z	11	Oct	2023	1.2m	Threat
KHAMBAT	1056z	11	Oct	2023	1.2m	Threat
BHARUCH	1124z	11	Oct	2023	1.2m	Threat
KANNUR	1126z	11	Oct	2023	0.7m	Threat
VAKKAD	1127z	11	Oct	2023	1.1m	Threat
BEYPORE	1129z	11	Oct	2023	0.8m	Threat
COCHIN	1132z	11	Oct	2023	1.0m	Threat
BORSI	1135z	11	Oct	2023	0.8m	Threat
HAZIRA	1135z	11	Oct	2023	1.1m	Threat
TARAPUR	1232z	11	Oct	2023	1.3m	Threat
ALLEPPEY ALAPPUZHA	1406z	11	Oct	2023	0.9m	Threat
MAHE	1434z	11	Oct	2023	0.7m	Threat
VADANAPPALLY	1447z	11	Oct	2023	0.9m	Threat
KASARAGOD	1502z	11	Oct	2023	0.9m	Threat
MANGALORE	1507z	11	Oct	2023	1.0m	Threat
KANYAKUMARI	1529z	11	Oct	2023	1.2m	Threat
TUTICORIN	1602z	11	Oct	2023	0.8m	Threat
KOODANKULAM	1640z	11	Oct	2023	0.7m	Threat
QUILON	1640z	11	Oct	2023	0.8m	Threat
DAMAN	1721z	11	Oct	2023	0.8m	Threat
TRIVANDRUM	1741z	11	Oct	2023	0.7m	Threat

IRAN

BIR	0604z	11	Oct	2023	6.3m	Threat
PUSHT	0604z	11	Oct	2023	6.8m	Threat
MISKI	0606z	11	Oct	2023	4.7m	Threat

KENYA

MALINDI	1628z	11	Oct	2023	1.2m	Threat
KISIMACHANDE	1652z	11	Oct	2023	0.6m	Threat
KIWAYU	2023z	11	Oct	2023	0.6m	Threat
KIPINI	0049z	12	Oct	2023	0.7m	Threat

MADAGASCAR

AMBAHY	2240z	11	Oct	2023	0.6m	Threat
TAMPOLO	0351z	12	Oct	2023	0.5m	Threat
VOHEMAR	0406z	12	Oct	2023	0.6m	Threat

MALDIVES

GOIDHOO	0946z	11	Oct	2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11	Oct	2023	1.3m	Threat
MALE	1031z	11	Oct	2023	1.4m	Threat
NILANDHOO	1159z	11	Oct	2023	0.6m	Threat
DHIYAMIGILI	1407z	11	Oct	2023	0.7m	Threat
THINADHOO	1820z	11	Oct	2023	1.0m	Threat
FERIDHOO	1822z	11	Oct	2023	0.7m	Threat

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KOLHUFUSHI	2105z	11 Oct 2023	0.6m	Threat
MOZAMBIQUE				

MAGANJA	2242z	11 Oct 2023	0.6m	Threat
NANGATA	2348z	11 Oct 2023	0.5m	Threat
MERONVI	0409z	12 Oct 2023	0.6m	Threat
OMAN				

MUSCAT	0616z	11 Oct 2023	7.9m	Threat
BARKA	0620z	11 Oct 2023	6.5m	Threat
EAST MUSANDAM	0620z	11 Oct 2023	4.9m	Threat
QURAYYAT	0621z	11 Oct 2023	8.9m	Threat
AL KHABURAH	0624z	11 Oct 2023	5.5m	Threat
SOHAR	0629z	11 Oct 2023	5.7m	Threat
SUR	0629z	11 Oct 2023	6.6m	Threat
AL ASHKHARAH	0648z	11 Oct 2023	2.8m	Threat
MASIRAH	0703z	11 Oct 2023	1.3m	Threat
RAS AR RUWAYS	0711z	11 Oct 2023	1.8m	Threat
AD DUQM	0731z	11 Oct 2023	2.0m	Threat
AL JAZER	0818z	11 Oct 2023	1.0m	Threat
HASIK	0832z	11 Oct 2023	1.4m	Threat
SALALAH	0834z	11 Oct 2023	1.1m	Threat
PAKISTAN				

ORMARA	0624z	11 Oct 2023	4.5m	Threat
WINDER	0730z	11 Oct 2023	1.7m	Threat
KARACHI	0807z	11 Oct 2023	2.9m	Threat
SINDH	0808z	11 Oct 2023	1.6m	Threat
SEYCHELLES				

FREGATE ISLAND	1648z	11 Oct 2023	0.6m	Threat
TAKAMAKA	1716z	11 Oct 2023	0.6m	Threat
SOMALIA				

TOOXIN	0954z	11 Oct 2023	1.0m	Threat
ABO	0955z	11 Oct 2023	1.1m	Threat
GALDOGOB	1017z	11 Oct 2023	0.7m	Threat
XARARDHEERE	1057z	11 Oct 2023	1.1m	Threat
LOYADO	1139z	11 Oct 2023	0.7m	Threat
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CEEL DHEER	1540z	11 Oct 2023	1.1m	Threat
MAREEG	2048z	11 Oct 2023	0.5m	Threat
NE BEERNAASI	2102z	11 Oct 2023	0.6m	Threat
EYL	2144z	11 Oct 2023	0.7m	Threat
JARIIBAN	0306z	12 Oct 2023	0.6m	Threat
TANZANIA				

MADANGWA	2104z	11 Oct 2023	0.6m	Threat
WEST TO KONDE	0054z	12 Oct 2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12 Oct 2023	0.6m	Threat
UNITED ARAB EMIRATES				

KALBA	0633z	11 Oct 2023	4.4m	Threat
UNITED KINGDOM				

DIEGO GARCIA	1731z	11 Oct 2023	0.5m	Threat
YEMEN				

SOCOTRA ISLAND SOUTH	0854z	11 Oct 2023	1.0m	Threat

AL GHAYDAH AIRPORT	0856z	11 Oct 2023	1.2m	Threat
HUSWAYN	0910z	11 Oct 2023	0.9m	Threat
AL MUKALLA	1129z	11 Oct 2023	0.8m	Threat
KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	Threat

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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.in

END OF BULLETIN

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

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# TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
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# #####  
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TSUNAMI BULLETIN NUMBER 9 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDIA (ITEWC)
ISSUED AT 1200 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m
Male (MALDIVE ISLANDS)	4.19N	73.53E	1008z	11 Oct 2023	0.5m
Cochin (INDIA)	9.97N	76.27E	1026z	11 Oct 2023	1.3m
Denis Island (SEYCHELLES)	3.80S	55.67E	1030z	11 Oct 2023	0.4m
Colombo (SRILANKA)	6.95N	79.85E	1100z	11 Oct 2023	0.7m
Pt.LaRue (SEYCHELLES)	4.67S	55.53E	1125z	11 Oct 2023	0.8m
Lamu (KENYA)	2.27S	40.90E	1155z	11 Oct 2023	0.7m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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

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

DJIBOUTI

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NW ARTA 1137z 11 Oct 2023 0.9m Threat  
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat
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FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI 0842z 11 Oct 2023 1.6m Threat
DWARKA 0844z 11 Oct 2023 2.2m Threat
JAMNAGAR 0856z 11 Oct 2023 2.2m Threat
PORBANDAR 0859z 11 Oct 2023 1.4m Threat
MANGROL 0914z 11 Oct 2023 1.2m Threat
HAZIRA, DIU 0926z 11 Oct 2023 1.5m Threat
VASCO 0951z 11 Oct 2023 1.0m Threat
JAIGARH 0954z 11 Oct 2023 1.5m Threat
MALVAN BAY 0955z 11 Oct 2023 1.1m Threat
PANAJI 1003z 11 Oct 2023 1.2m Threat
AGATTI 1010z 11 Oct 2023 1.2m Threat
KARWAR 1013z 11 Oct 2023 1.3m Threat
UDUPI 1026z 11 Oct 2023 1.2m Threat
ALIBAG PORT 1032z 11 Oct 2023 1.4m Threat
MUMBAI 1032z 11 Oct 2023 1.6m Threat
PIPAVAV 1043z 11 Oct 2023 1.6m Threat
MAHUVA 1050z 11 Oct 2023 1.2m Threat
KHAMBAT 1056z 11 Oct 2023 1.2m Threat
BHARUCH 1124z 11 Oct 2023 1.2m Threat
KANNUR 1126z 11 Oct 2023 0.7m Threat
VAKKAD 1127z 11 Oct 2023 1.1m Threat
BEYPORE 1129z 11 Oct 2023 0.8m Threat
COCHIN 1132z 11 Oct 2023 1.0m Threat
BORSI 1135z 11 Oct 2023 0.8m Threat
HAZIRA 1135z 11 Oct 2023 1.1m Threat
TARAPUR 1232z 11 Oct 2023 1.3m Threat
ALLEPPEY ALAPPUZHA 1406z 11 Oct 2023 0.9m Threat
MAHE 1434z 11 Oct 2023 0.7m Threat
VADANAPPALLY 1447z 11 Oct 2023 0.9m Threat
KASARAGOD 1502z 11 Oct 2023 0.9m Threat
MANGALORE 1507z 11 Oct 2023 1.0m Threat
KANYAKUMARI 1529z 11 Oct 2023 1.2m Threat
TUTICORIN 1602z 11 Oct 2023 0.8m Threat
KODANKULAM 1640z 11 Oct 2023 0.7m Threat
QUILON 1640z 11 Oct 2023 0.8m Threat
DAMAN 1721z 11 Oct 2023 0.8m Threat
TRIVANDRUM 1741z 11 Oct 2023 0.7m Threat

IRAN

BIR 0604z 11 Oct 2023 6.3m Threat
PUSHT 0604z 11 Oct 2023 6.8m Threat
MISKI 0606z 11 Oct 2023 4.7m Threat

KENYA

MALINDI 1628z 11 Oct 2023 1.2m Threat
KISIMACHANDE 1652z 11 Oct 2023 0.6m Threat
KIWAYU 2023z 11 Oct 2023 0.6m Threat
KIPINI 0049z 12 Oct 2023 0.7m Threat

MADAGASCAR

AMBAHY 2240z 11 Oct 2023 0.6m Threat
TAMPOLO 0351z 12 Oct 2023 0.5m Threat
VOHEMAR 0406z 12 Oct 2023 0.6m Threat

MALDIVES

GOIDHOO 0946z 11 Oct 2023 1.0m Threat
KULHUDUFFUSHI 0950z 11 Oct 2023 1.3m Threat

MALE	1031z	11 Oct 2023	1.4m	Threat
NILANDHOO	1159z	11 Oct 2023	0.6m	Threat
DHIYAMIGILI	1407z	11 Oct 2023	0.7m	Threat
THINADHOO	1820z	11 Oct 2023	1.0m	Threat
FERIDHOO	1822z	11 Oct 2023	0.7m	Threat
KOLHUFUSHI	2105z	11 Oct 2023	0.6m	Threat
MOZAMBIQUE				

MAGANJA	2242z	11 Oct 2023	0.6m	Threat
NANGATA	2348z	11 Oct 2023	0.5m	Threat
MERONVI	0409z	12 Oct 2023	0.6m	Threat
OMAN				

MUSCAT	0616z	11 Oct 2023	7.9m	Threat
BARKA	0620z	11 Oct 2023	6.5m	Threat
EAST MUSANDAM	0620z	11 Oct 2023	4.9m	Threat
QURAYYAT	0621z	11 Oct 2023	8.9m	Threat
AL KHABURAH	0624z	11 Oct 2023	5.5m	Threat
SOHAR	0629z	11 Oct 2023	5.7m	Threat
SUR	0629z	11 Oct 2023	6.6m	Threat
AL ASHKHARAH	0648z	11 Oct 2023	2.8m	Threat
MASIRAH	0703z	11 Oct 2023	1.3m	Threat
RAS AR RUWAYS	0711z	11 Oct 2023	1.8m	Threat
AD DUQM	0731z	11 Oct 2023	2.0m	Threat
AL JAZER	0818z	11 Oct 2023	1.0m	Threat
HASIK	0832z	11 Oct 2023	1.4m	Threat
SALALAH	0834z	11 Oct 2023	1.1m	Threat
PAKISTAN				

ORMARA	0624z	11 Oct 2023	4.5m	Threat
WINDER	0730z	11 Oct 2023	1.7m	Threat
KARACHI	0807z	11 Oct 2023	2.9m	Threat
SINDH	0808z	11 Oct 2023	1.6m	Threat
SEYCHELLES				

FREGATE ISLAND	1648z	11 Oct 2023	0.6m	Threat
TAKAMAKA	1716z	11 Oct 2023	0.6m	Threat
SOMALIA				

TOOXIN	0954z	11 Oct 2023	1.0m	Threat
ABO	0955z	11 Oct 2023	1.1m	Threat
GALDOGOB	1017z	11 Oct 2023	0.7m	Threat
XARARDHEERE	1057z	11 Oct 2023	1.1m	Threat
LOYADO	1139z	11 Oct 2023	0.7m	Threat
BANDER-BEYLA	1503z	11 Oct 2023	0.7m	Threat
CEEL DHEER	1540z	11 Oct 2023	1.1m	Threat
MAREEG	2048z	11 Oct 2023	0.5m	Threat
NE BEERNAASI	2102z	11 Oct 2023	0.6m	Threat
EYL	2144z	11 Oct 2023	0.7m	Threat
JARIIBAN	0306z	12 Oct 2023	0.6m	Threat
TANZANIA				

MADANGWA	2104z	11 Oct 2023	0.6m	Threat
WEST TO KONDE	0054z	12 Oct 2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12 Oct 2023	0.6m	Threat
UNITED ARAB EMIRATES				

KALBA	0633z	11 Oct 2023	4.4m	Threat
UNITED KINGDOM				

DIEGO GARCIA	1731z	11 Oct 2023	0.5m	Threat
YEMEN				

SOCOTRA ISLAND SOUTH	0854z	11 Oct 2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11 Oct 2023	1.2m	Threat
HUSWAYN	0910z	11 Oct 2023	0.9m	Threat
AL MUKALLA	1129z	11 Oct 2023	0.8m	Threat
KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 10

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#####  
#  
# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 1300 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m
Male (MALDIVE ISLANDS)	4.19N	73.53E	1008z	11 Oct 2023	0.5m
Cochin (INDIA)	9.97N	76.27E	1026z	11 Oct 2023	1.3m
Denis Island (SEYCHELLES)	3.80S	55.67E	1030z	11 Oct 2023	0.4m
Colombo (SRILANKA)	6.95N	79.85E	1100z	11 Oct 2023	0.7m
Pt. LaRue (SEYCHELLES)	4.67S	55.53E	1125z	11 Oct 2023	0.8m
Lamu (KENYA)	2.27S	40.90E	1155z	11 Oct 2023	0.7m
Mombasa (KENYA)	4.07S	39.65E	1206z	11 Oct 2023	0.4m
Dzaoudzi (FRANCE)	12.7S	45.26E	1211z	11 Oct 2023	0.2m
Zanzibar (TANZANIA)	6.16S	39.19E	1234z	11 Oct 2023	0.3m
Pemba (MOCAMBIQUE)	12.9S	40.49E	1250z	11 Oct 2023	0.3m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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

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

DJIBOUTI

NW ARTA 1137z 11 Oct 2023 0.9m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI 0842z 11 Oct 2023 1.6m Threat
DWARKA 0844z 11 Oct 2023 2.2m Threat
JAMNAGAR 0856z 11 Oct 2023 2.2m Threat
PORBANDAR 0859z 11 Oct 2023 1.4m Threat
MANGROL 0914z 11 Oct 2023 1.2m Threat
HAZIRA, DIU 0926z 11 Oct 2023 1.5m Threat
VASCO 0951z 11 Oct 2023 1.0m Threat
JAIGARH 0954z 11 Oct 2023 1.5m Threat
MALVAN BAY 0955z 11 Oct 2023 1.1m Threat
PANAJI 1003z 11 Oct 2023 1.2m Threat
AGATTI 1010z 11 Oct 2023 1.2m Threat
KARWAR 1013z 11 Oct 2023 1.3m Threat
UDUPI 1026z 11 Oct 2023 1.2m Threat
ALIBAG PORT 1032z 11 Oct 2023 1.4m Threat
MUMBAI 1032z 11 Oct 2023 1.6m Threat
PIPAVAV 1043z 11 Oct 2023 1.6m Threat
MAHUVA 1050z 11 Oct 2023 1.2m Threat
KHAMBAT 1056z 11 Oct 2023 1.2m Threat
BHARUCH 1124z 11 Oct 2023 1.2m Threat
KANNUR 1126z 11 Oct 2023 0.7m Threat
VAKKAD 1127z 11 Oct 2023 1.1m Threat
BEYPORE 1129z 11 Oct 2023 0.8m Threat
COCHIN 1132z 11 Oct 2023 1.0m Threat
BORSI 1135z 11 Oct 2023 0.8m Threat
HAZIRA 1135z 11 Oct 2023 1.1m Threat
TARAPUR 1232z 11 Oct 2023 1.3m Threat
ALLEPPEY ALAPPUZHA 1406z 11 Oct 2023 0.9m Threat
MAHE 1434z 11 Oct 2023 0.7m Threat
VADANAPPALLY 1447z 11 Oct 2023 0.9m Threat
KASARAGOD 1502z 11 Oct 2023 0.9m Threat
MANGALORE 1507z 11 Oct 2023 1.0m Threat
KANYAKUMARI 1529z 11 Oct 2023 1.2m Threat
TUTICORIN 1602z 11 Oct 2023 0.8m Threat
KODANKULAM 1640z 11 Oct 2023 0.7m Threat
QUILON 1640z 11 Oct 2023 0.8m Threat
DAMAN 1721z 11 Oct 2023 0.8m Threat
TRIVANDRUM 1741z 11 Oct 2023 0.7m Threat

IRAN

BIR 0604z 11 Oct 2023 6.3m Threat
PUSHT 0604z 11 Oct 2023 6.8m Threat
MISKI 0606z 11 Oct 2023 4.7m Threat

KENYA

MALINDI 1628z 11 Oct 2023 1.2m Threat
KISIMACHANDE 1652z 11 Oct 2023 0.6m Threat
KIWAYU 2023z 11 Oct 2023 0.6m Threat
KIPINI 0049z 12 Oct 2023 0.7m Threat

MADAGASCAR

AMBAHY 2240z 11 Oct 2023 0.6m Threat

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page 108

TAMPOLO	0351z	12	Oct	2023	0.5m	Threat
VOHEMAR	0406z	12	Oct	2023	0.6m	Threat
MALDIVES						

GOIDHOO	0946z	11	Oct	2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11	Oct	2023	1.3m	Threat
MALE	1031z	11	Oct	2023	1.4m	Threat
NILANDHOO	1159z	11	Oct	2023	0.6m	Threat
DHIYAMIGILI	1407z	11	Oct	2023	0.7m	Threat
THINADHOO	1820z	11	Oct	2023	1.0m	Threat
FERIDHOO	1822z	11	Oct	2023	0.7m	Threat
KOLHUFUSHI	2105z	11	Oct	2023	0.6m	Threat
MOZAMBIQUE						

MAGANJA	2242z	11	Oct	2023	0.6m	Threat
NANGATA	2348z	11	Oct	2023	0.5m	Threat
MERONVI	0409z	12	Oct	2023	0.6m	Threat
OMAN						

MUSCAT	0616z	11	Oct	2023	7.9m	Threat
BARKA	0620z	11	Oct	2023	6.5m	Threat
EAST MUSANDAM	0620z	11	Oct	2023	4.9m	Threat
QURAYYAT	0621z	11	Oct	2023	8.9m	Threat
AL KHABURAH	0624z	11	Oct	2023	5.5m	Threat
SOHAR	0629z	11	Oct	2023	5.7m	Threat
SUR	0629z	11	Oct	2023	6.6m	Threat
AL ASHKHARAH	0648z	11	Oct	2023	2.8m	Threat
MASIRAH	0703z	11	Oct	2023	1.3m	Threat
RAS AR RUWAYS	0711z	11	Oct	2023	1.8m	Threat
AD DUQM	0731z	11	Oct	2023	2.0m	Threat
AL JAZER	0818z	11	Oct	2023	1.0m	Threat
HASIK	0832z	11	Oct	2023	1.4m	Threat
SALALAH	0834z	11	Oct	2023	1.1m	Threat
PAKISTAN						

ORMARA	0624z	11	Oct	2023	4.5m	Threat
WINDER	0730z	11	Oct	2023	1.7m	Threat
KARACHI	0807z	11	Oct	2023	2.9m	Threat
SINDH	0808z	11	Oct	2023	1.6m	Threat
SEYCHELLES						

FREGATE ISLAND	1648z	11	Oct	2023	0.6m	Threat
TAKAMAKA	1716z	11	Oct	2023	0.6m	Threat
SOMALIA						

TOOXIN	0954z	11	Oct	2023	1.0m	Threat
ABO	0955z	11	Oct	2023	1.1m	Threat
GALDOGOB	1017z	11	Oct	2023	0.7m	Threat
XARARDHEERE	1057z	11	Oct	2023	1.1m	Threat
LOYADO	1139z	11	Oct	2023	0.7m	Threat
BANDER-BEYLA	1503z	11	Oct	2023	0.7m	Threat
CEEL DHEER	1540z	11	Oct	2023	1.1m	Threat
MAREEG	2048z	11	Oct	2023	0.5m	Threat
NE BEERNAASI	2102z	11	Oct	2023	0.6m	Threat
EYL	2144z	11	Oct	2023	0.7m	Threat
JARIIBAN	0306z	12	Oct	2023	0.6m	Threat
TANZANIA						

MADANGWA	2104z	11	Oct	2023	0.6m	Threat
WEST TO KONDE	0054z	12	Oct	2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12	Oct	2023	0.6m	Threat

UNITED ARAB EMIRATES

KALBA 0633z 11 Oct 2023 4.4m Threat

UNITED KINGDOM

DIEGO GARCIA 1731z 11 Oct 2023 0.5m Threat

YEMEN

SOCOTRA ISLAND SOUTH 0854z 11 Oct 2023 1.0m Threat
AL GHAYDAH AIRPORT 0856z 11 Oct 2023 1.2m Threat
HUSWAYN 0910z 11 Oct 2023 0.9m Threat
AL MUKALLA 1129z 11 Oct 2023 0.8m Threat
KHANFAR 1217z 11 Oct 2023 0.7m Threat
ALQUMRAH 1235z 11 Oct 2023 0.8m Threat
HAMI 1423z 11 Oct 2023 0.8m Threat
MAALLAH 1654z 11 Oct 2023 0.6m Threat
SOCOTRA ISLAND NORTH 1734z 11 Oct 2023 0.8m Threat
HARRAH 1839z 11 Oct 2023 0.6m Threat
MASILAH WADI 1851z 11 Oct 2023 0.6m Threat
EAST TO HAMI 1926z 11 Oct 2023 0.7m Threat
ADEN 2031z 11 Oct 2023 0.5m Threat
AHWAR 2202z 11 Oct 2023 0.5m Threat
DAMQAWT 2307z 11 Oct 2023 0.6m Threat
BROM MAYFA 0556z 12 Oct 2023 0.7m 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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#  
# TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT  
#  
#####
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BULLETIN 11

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#####  
#  
# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 1400 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

Sea level observations have confirmed that a TSUNAMI WAS GENERATED.

Maximum wave amplitudes observed so far:

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m
Male (MALDIVE ISLANDS)	4.19N	73.53E	1008z	11 Oct 2023	0.5m
Cochin (INDIA)	9.97N	76.27E	1026z	11 Oct 2023	1.3m
Denis Island (SEYCHELLES)	3.80S	55.67E	1030z	11 Oct 2023	0.4m
Colombo (SRILANKA)	6.95N	79.85E	1100z	11 Oct 2023	0.7m
Pt. LaRue (SEYCHELLES)	4.67S	55.53E	1125z	11 Oct 2023	0.8m
Lamu (KENYA)	2.27S	40.90E	1155z	11 Oct 2023	0.7m
Mombasa (KENYA)	4.07S	39.65E	1206z	11 Oct 2023	0.4m
Dzaoudzi (FRANCE)	12.7S	45.26E	1211z	11 Oct 2023	0.2m
Zanzibar (TANZANIA)	6.16S	39.19E	1234z	11 Oct 2023	0.3m
Pemba (MOCAMBIQUE)	12.9S	40.49E	1250z	11 Oct 2023	0.3m
Pt. Louis (MAURITIUS)	20.1S	57.50E	1304z	11 Oct 2023	0.2m
Blue Bay (MAURITIUS)	20.4S	57.71E	1316z	11 Oct 2023	0.2m
Telukdalam (INDONESIA)	0.55N	97.82E	1348z	11 Oct 2023	0.2m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

The list below shows the forecast arrival time of the first wave estimated to exceed 0.5m amplitude at the beach in each zone (or a different threshold nominated by an NTWC), and the amplitude of the maximum beach wave predicted for the zone. Zones where the estimated wave amplitudes are less than the

threshold amplitude at the beach are not shown.

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

DJIBOUTI

NW ARTA 1137z 11 Oct 2023 0.9m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI 0842z 11 Oct 2023 1.6m Threat
DWARKA 0844z 11 Oct 2023 2.2m Threat
JAMNAGAR 0856z 11 Oct 2023 2.2m Threat
PORBANDAR 0859z 11 Oct 2023 1.4m Threat
MANGROL 0914z 11 Oct 2023 1.2m Threat
HAZIRA, DIU 0926z 11 Oct 2023 1.5m Threat
VASCO 0951z 11 Oct 2023 1.0m Threat
JAIGARH 0954z 11 Oct 2023 1.5m Threat
MALVAN BAY 0955z 11 Oct 2023 1.1m Threat
PANAJI 1003z 11 Oct 2023 1.2m Threat
AGATTI 1010z 11 Oct 2023 1.2m Threat
KARWAR 1013z 11 Oct 2023 1.3m Threat
UDUPI 1026z 11 Oct 2023 1.2m Threat
ALIBAG PORT 1032z 11 Oct 2023 1.4m Threat
MUMBAI 1032z 11 Oct 2023 1.6m Threat
PIPAVAV 1043z 11 Oct 2023 1.6m Threat
MAHUVA 1050z 11 Oct 2023 1.2m Threat
KHAMBAT 1056z 11 Oct 2023 1.2m Threat
BHARUCH 1124z 11 Oct 2023 1.2m Threat
KANNUR 1126z 11 Oct 2023 0.7m Threat
VAKKAD 1127z 11 Oct 2023 1.1m Threat
BEYPORE 1129z 11 Oct 2023 0.8m Threat
COCHIN 1132z 11 Oct 2023 1.0m Threat
BORSI 1135z 11 Oct 2023 0.8m Threat
HAZIRA 1135z 11 Oct 2023 1.1m Threat
TARAPUR 1232z 11 Oct 2023 1.3m Threat
ALLEPPEY ALAPPUZHA 1406z 11 Oct 2023 0.9m Threat
MAHE 1434z 11 Oct 2023 0.7m Threat
VADANAPPALLY 1447z 11 Oct 2023 0.9m Threat
KASARAGOD 1502z 11 Oct 2023 0.9m Threat
MANGALORE 1507z 11 Oct 2023 1.0m Threat
KANYAKUMARI 1529z 11 Oct 2023 1.2m Threat
TUTICORIN 1602z 11 Oct 2023 0.8m Threat
KODANKULAM 1640z 11 Oct 2023 0.7m Threat
QUILON 1640z 11 Oct 2023 0.8m Threat
DAMAN 1721z 11 Oct 2023 0.8m Threat
TRIVANDRUM 1741z 11 Oct 2023 0.7m Threat

IRAN

BIR 0604z 11 Oct 2023 6.3m Threat
PUSHT 0604z 11 Oct 2023 6.8m Threat
MISKI 0606z 11 Oct 2023 4.7m Threat

KENYA

MALINDI 1628z 11 Oct 2023 1.2m Threat
KISIMACHANDE 1652z 11 Oct 2023 0.6m Threat
KIWAYU 2023z 11 Oct 2023 0.6m Threat
KIPINI 0049z 12 Oct 2023 0.7m Threat

MADAGASCAR

AMBAHY	2240z	11	Oct	2023	0.6m	Threat
TAMPOLO	0351z	12	Oct	2023	0.5m	Threat
VOHEMAR	0406z	12	Oct	2023	0.6m	Threat
MALDIVES						

GOIDHOO	0946z	11	Oct	2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11	Oct	2023	1.3m	Threat
MALE	1031z	11	Oct	2023	1.4m	Threat
NILANDHOO	1159z	11	Oct	2023	0.6m	Threat
DHIYAMIGILI	1407z	11	Oct	2023	0.7m	Threat
THINADHOO	1820z	11	Oct	2023	1.0m	Threat
FERIDHOO	1822z	11	Oct	2023	0.7m	Threat
KOLHUFUSHI	2105z	11	Oct	2023	0.6m	Threat
MOZAMBIQUE						

MAGANJA	2242z	11	Oct	2023	0.6m	Threat
NANGATA	2348z	11	Oct	2023	0.5m	Threat
MERONVI	0409z	12	Oct	2023	0.6m	Threat
OMAN						

MUSCAT	0616z	11	Oct	2023	7.9m	Threat
BARKA	0620z	11	Oct	2023	6.5m	Threat
EAST MUSANDAM	0620z	11	Oct	2023	4.9m	Threat
QURAYYAT	0621z	11	Oct	2023	8.9m	Threat
AL KHABURAH	0624z	11	Oct	2023	5.5m	Threat
SOHAR	0629z	11	Oct	2023	5.7m	Threat
SUR	0629z	11	Oct	2023	6.6m	Threat
AL ASHKHARAH	0648z	11	Oct	2023	2.8m	Threat
MASIRAH	0703z	11	Oct	2023	1.3m	Threat
RAS AR RUWAYS	0711z	11	Oct	2023	1.8m	Threat
AD DUQM	0731z	11	Oct	2023	2.0m	Threat
AL JAZER	0818z	11	Oct	2023	1.0m	Threat
HASIK	0832z	11	Oct	2023	1.4m	Threat
SALALAH	0834z	11	Oct	2023	1.1m	Threat
PAKISTAN						

ORMARA	0624z	11	Oct	2023	4.5m	Threat
WINDER	0730z	11	Oct	2023	1.7m	Threat
KARACHI	0807z	11	Oct	2023	2.9m	Threat
SINDH	0808z	11	Oct	2023	1.6m	Threat
SEYCHELLES						

FREGATE ISLAND	1648z	11	Oct	2023	0.6m	Threat
TAKAMAKA	1716z	11	Oct	2023	0.6m	Threat
SOMALIA						

TOOXIN	0954z	11	Oct	2023	1.0m	Threat
ABO	0955z	11	Oct	2023	1.1m	Threat
GALDOGOB	1017z	11	Oct	2023	0.7m	Threat
XARARDHEERE	1057z	11	Oct	2023	1.1m	Threat
LOYADO	1139z	11	Oct	2023	0.7m	Threat
BANDER-BEYLA	1503z	11	Oct	2023	0.7m	Threat
CEEL DHEER	1540z	11	Oct	2023	1.1m	Threat
MAREEG	2048z	11	Oct	2023	0.5m	Threat
NE BEERNAASI	2102z	11	Oct	2023	0.6m	Threat
EYL	2144z	11	Oct	2023	0.7m	Threat
JARIIBAN	0306z	12	Oct	2023	0.6m	Threat
TANZANIA						

MADANGWA	2104z	11	Oct	2023	0.6m	Threat

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WEST TO KONDE	0054z	12 Oct 2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12 Oct 2023	0.6m	Threat
UNITED ARAB EMIRATES				

KALBA	0633z	11 Oct 2023	4.4m	Threat
UNITED KINGDOM				

DIEGO GARCIA	1731z	11 Oct 2023	0.5m	Threat
YEMEN				

SOCOTRA ISLAND SOUTH	0854z	11 Oct 2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11 Oct 2023	1.2m	Threat
HUSWAYN	0910z	11 Oct 2023	0.9m	Threat
AL MUKALLA	1129z	11 Oct 2023	0.8m	Threat
KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILLAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 12

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# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 1500 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m
Male (MALDIVE ISLANDS)	4.19N	73.53E	1008z	11 Oct 2023	0.5m
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Denis Island (SEYCHELLES)	3.80S	55.67E	1030z	11 Oct 2023	0.4m
Colombo (SRILANKA)	6.95N	79.85E	1100z	11 Oct 2023	0.7m
Pt. LaRue (SEYCHELLES)	4.67S	55.53E	1125z	11 Oct 2023	0.8m
Lamu (KENYA)	2.27S	40.90E	1155z	11 Oct 2023	0.7m
Mombasa (KENYA)	4.07S	39.65E	1206z	11 Oct 2023	0.4m
Dzaoudzi (FRANCE)	12.7S	45.26E	1211z	11 Oct 2023	0.2m
Zanzibar (TANZANIA)	6.16S	39.19E	1234z	11 Oct 2023	0.3m
Pemba (MOCAMBIQUE)	12.9S	40.49E	1250z	11 Oct 2023	0.3m
Pt. Louis (MAURITIUS)	20.1S	57.50E	1304z	11 Oct 2023	0.2m
Blue Bay (MAURITIUS)	20.4S	57.71E	1316z	11 Oct 2023	0.2m
Telukdalam (INDONESIA)	0.55N	97.82E	1348z	11 Oct 2023	0.2m
Meulaboh (INDONESIA)	4.13N	96.13E	1407z	11 Oct 2023	0.1m
Visakhapatnam (INDIA)	17.6N	83.28E	1422z	11 Oct 2023	0.1m
seblat (INDONESIA)	3.22S	101.60E	1444z	11 Oct 2023	0.2m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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

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

DJIBOUTI

NW ARTA 1137z 11 Oct 2023 0.9m Threat
MUHAMMAD ALI BIN FATHA SUMANA 1205z 11 Oct 2023 0.5m Threat

FRANCE

ILE KERGUELEN 1951z 11 Oct 2023 1.0m Threat

INDIA

MANDVI 0842z 11 Oct 2023 1.6m Threat
DWARKA 0844z 11 Oct 2023 2.2m Threat
JAMNAGAR 0856z 11 Oct 2023 2.2m Threat
PORBANDAR 0859z 11 Oct 2023 1.4m Threat
MANGROL 0914z 11 Oct 2023 1.2m Threat
HAZIRA, DIU 0926z 11 Oct 2023 1.5m Threat
VASCO 0951z 11 Oct 2023 1.0m Threat
JAIGARH 0954z 11 Oct 2023 1.5m Threat
MALVAN BAY 0955z 11 Oct 2023 1.1m Threat
PANAJI 1003z 11 Oct 2023 1.2m Threat
AGATTI 1010z 11 Oct 2023 1.2m Threat
KARWAR 1013z 11 Oct 2023 1.3m Threat
UDUPI 1026z 11 Oct 2023 1.2m Threat
ALIBAG PORT 1032z 11 Oct 2023 1.4m Threat
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PIPAVAV 1043z 11 Oct 2023 1.6m Threat
MAHUVA 1050z 11 Oct 2023 1.2m Threat
KHAMBAT 1056z 11 Oct 2023 1.2m Threat
BHARUCH 1124z 11 Oct 2023 1.2m Threat
KANNUR 1126z 11 Oct 2023 0.7m Threat
VAKKAD 1127z 11 Oct 2023 1.1m Threat
BEYPORE 1129z 11 Oct 2023 0.8m Threat
COCHIN 1132z 11 Oct 2023 1.0m Threat
BORSI 1135z 11 Oct 2023 0.8m Threat
HAZIRA 1135z 11 Oct 2023 1.1m Threat
TARAPUR 1232z 11 Oct 2023 1.3m Threat
ALLEPPEY ALAPPUZHA 1406z 11 Oct 2023 0.9m Threat
MAHE 1434z 11 Oct 2023 0.7m Threat
VADANAPPALLY 1447z 11 Oct 2023 0.9m Threat
KASARAGOD 1502z 11 Oct 2023 0.9m Threat
MANGALORE 1507z 11 Oct 2023 1.0m Threat
KANYAKUMARI 1529z 11 Oct 2023 1.2m Threat
TUTICORIN 1602z 11 Oct 2023 0.8m Threat
KODANKULAM 1640z 11 Oct 2023 0.7m Threat
QUILON 1640z 11 Oct 2023 0.8m Threat
DAMAN 1721z 11 Oct 2023 0.8m Threat
TRIVANDRUM 1741z 11 Oct 2023 0.7m Threat

IRAN

BIR 0604z 11 Oct 2023 6.3m Threat
PUSHT 0604z 11 Oct 2023 6.8m Threat
MISKI 0606z 11 Oct 2023 4.7m Threat

KENYA

MALINDI 1628z 11 Oct 2023 1.2m Threat
KISIMACHANDE 1652z 11 Oct 2023 0.6m Threat

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KIWAYU	2023z	11	Oct	2023	0.6m	Threat
KIPINI	0049z	12	Oct	2023	0.7m	Threat
MADAGASCAR						

AMBAHY	2240z	11	Oct	2023	0.6m	Threat
TAMPOLO	0351z	12	Oct	2023	0.5m	Threat
VOHEMAR	0406z	12	Oct	2023	0.6m	Threat
MALDIVES						

GOIDHOO	0946z	11	Oct	2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11	Oct	2023	1.3m	Threat
MALE	1031z	11	Oct	2023	1.4m	Threat
NILANDHOO	1159z	11	Oct	2023	0.6m	Threat
DHIYAMIGILI	1407z	11	Oct	2023	0.7m	Threat
THINADHOO	1820z	11	Oct	2023	1.0m	Threat
FERIDHOO	1822z	11	Oct	2023	0.7m	Threat
KOLHUFUSHI	2105z	11	Oct	2023	0.6m	Threat
MOZAMBIQUE						

MAGANJA	2242z	11	Oct	2023	0.6m	Threat
NANGATA	2348z	11	Oct	2023	0.5m	Threat
MERONVI	0409z	12	Oct	2023	0.6m	Threat
OMAN						

MUSCAT	0616z	11	Oct	2023	7.9m	Threat
BARKA	0620z	11	Oct	2023	6.5m	Threat
EAST MUSANDAM	0620z	11	Oct	2023	4.9m	Threat
QURAYYAT	0621z	11	Oct	2023	8.9m	Threat
AL KHABURAH	0624z	11	Oct	2023	5.5m	Threat
SOHAR	0629z	11	Oct	2023	5.7m	Threat
SUR	0629z	11	Oct	2023	6.6m	Threat
AL ASHKHARAH	0648z	11	Oct	2023	2.8m	Threat
MASIRAH	0703z	11	Oct	2023	1.3m	Threat
RAS AR RUWAYS	0711z	11	Oct	2023	1.8m	Threat
AD DUQM	0731z	11	Oct	2023	2.0m	Threat
AL JAZER	0818z	11	Oct	2023	1.0m	Threat
HASIK	0832z	11	Oct	2023	1.4m	Threat
SALALAH	0834z	11	Oct	2023	1.1m	Threat
PAKISTAN						

ORMARA	0624z	11	Oct	2023	4.5m	Threat
WINDER	0730z	11	Oct	2023	1.7m	Threat
KARACHI	0807z	11	Oct	2023	2.9m	Threat
SINDH	0808z	11	Oct	2023	1.6m	Threat
SEYCHELLES						

FREGATE ISLAND	1648z	11	Oct	2023	0.6m	Threat
TAKAMAKA	1716z	11	Oct	2023	0.6m	Threat
SOMALIA						

TOOXIN	0954z	11	Oct	2023	1.0m	Threat
ABO	0955z	11	Oct	2023	1.1m	Threat
GALDOGOB	1017z	11	Oct	2023	0.7m	Threat
XARARDHEERE	1057z	11	Oct	2023	1.1m	Threat
LOYADO	1139z	11	Oct	2023	0.7m	Threat
BANDER-BEYLA	1503z	11	Oct	2023	0.7m	Threat
CEEL DHEER	1540z	11	Oct	2023	1.1m	Threat
MAREEG	2048z	11	Oct	2023	0.5m	Threat
NE BEERNAASI	2102z	11	Oct	2023	0.6m	Threat
EYL	2144z	11	Oct	2023	0.7m	Threat
JARIIBAN	0306z	12	Oct	2023	0.6m	Threat

TANZANIA

MADANGWA 2104z 11 Oct 2023 0.6m Threat
WEST TO KONDE 0054z 12 Oct 2023 0.6m Threat
SONGO SONGO ISLAND 0557z 12 Oct 2023 0.6m Threat

UNITED ARAB EMIRATES

KALBA 0633z 11 Oct 2023 4.4m Threat

UNITED KINGDOM

DIEGO GARCIA 1731z 11 Oct 2023 0.5m Threat

YEMEN

SOCOTRA ISLAND SOUTH 0854z 11 Oct 2023 1.0m Threat
AL GHAYDAH AIRPORT 0856z 11 Oct 2023 1.2m Threat
HUSWAYN 0910z 11 Oct 2023 0.9m Threat
AL MUKALLA 1129z 11 Oct 2023 0.8m Threat
KHANFAR 1217z 11 Oct 2023 0.7m Threat
ALQUMRAH 1235z 11 Oct 2023 0.8m Threat
HAMI 1423z 11 Oct 2023 0.8m Threat
MAALLAH 1654z 11 Oct 2023 0.6m Threat
SOCOTRA ISLAND NORTH 1734z 11 Oct 2023 0.8m Threat
HARRAH 1839z 11 Oct 2023 0.6m Threat
MASILAH WADI 1851z 11 Oct 2023 0.6m Threat
EAST TO HAMI 1926z 11 Oct 2023 0.7m Threat
ADEN 2031z 11 Oct 2023 0.5m Threat
AHWAR 2202z 11 Oct 2023 0.5m Threat
DAMQAWT 2307z 11 Oct 2023 0.6m Threat
BROM MAYFA 0556z 12 Oct 2023 0.7m 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.in

END OF BULLETIN

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 13

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#   TEST TEST TEST - 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 (ITEWC)
 ISSUED AT 1600 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
 Depth: 10 km
 Date: 11 OCT 2023
 Origin Time: 0600UTC
 Latitude: 24.80N
 Longitude: 58.20E
 Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m
Male (MALDIVE ISLANDS)	4.19N	73.53E	1008z	11 Oct 2023	0.5m
Cochin (INDIA)	9.97N	76.27E	1026z	11 Oct 2023	1.3m
Denis Island (SEYCHELLES)	3.80S	55.67E	1030z	11 Oct 2023	0.4m
Colombo (SRILANKA)	6.95N	79.85E	1100z	11 Oct 2023	0.7m
Pt. LaRue (SEYCHELLES)	4.67S	55.53E	1125z	11 Oct 2023	0.8m
Lamu (KENYA)	2.27S	40.90E	1155z	11 Oct 2023	0.7m
Mombasa (KENYA)	4.07S	39.65E	1206z	11 Oct 2023	0.4m
Dzaoudzi (FRANCE)	12.7S	45.26E	1211z	11 Oct 2023	0.2m
Zanzibar (TANZANIA)	6.16S	39.19E	1234z	11 Oct 2023	0.3m
Pemba (MOCAMBIQUE)	12.9S	40.49E	1250z	11 Oct 2023	0.3m
Pt. Louis (MAURITIUS)	20.1S	57.50E	1304z	11 Oct 2023	0.2m
Blue Bay (MAURITIUS)	20.4S	57.71E	1316z	11 Oct 2023	0.2m
Telukdalam (INDONESIA)	0.55N	97.82E	1348z	11 Oct 2023	0.2m
Meulaboh (INDONESIA)	4.13N	96.13E	1407z	11 Oct 2023	0.1m
Visakhapatnam (INDIA)	17.6N	83.28E	1422z	11 Oct 2023	0.1m
seblat (INDONESIA)	3.22S	101.60E	1444z	11 Oct 2023	0.2m
Enggano (INDONESIA)	5.35S	102.28E	1502z	11 Oct 2023	0.1m
Christmas Island (AUSTRALIA)	10.4S	105.67E	1521z	11 Oct 2023	0.1m
Sittwe (MYANMAR)	20.1N	92.90E	1544z	11 Oct 2023	0.2m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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

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

DJIBOUTI

NW ARTA	1137z	11 Oct 2023	0.9m	Threat
MUHAMMAD ALI BIN FATHA SUMANA	1205z	11 Oct 2023	0.5m	Threat

FRANCE

ILE KERGUELEN	1951z	11 Oct 2023	1.0m	Threat
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INDIA

MANDVI	0842z	11 Oct 2023	1.6m	Threat
DWARKA	0844z	11 Oct 2023	2.2m	Threat
JAMNAGAR	0856z	11 Oct 2023	2.2m	Threat
PORBANDAR	0859z	11 Oct 2023	1.4m	Threat
MANGROL	0914z	11 Oct 2023	1.2m	Threat
HAZIRA, DIU	0926z	11 Oct 2023	1.5m	Threat
VASCO	0951z	11 Oct 2023	1.0m	Threat
JAIGARH	0954z	11 Oct 2023	1.5m	Threat
MALVAN BAY	0955z	11 Oct 2023	1.1m	Threat
PANAJI	1003z	11 Oct 2023	1.2m	Threat
AGATTI	1010z	11 Oct 2023	1.2m	Threat
KARWAR	1013z	11 Oct 2023	1.3m	Threat
UDUPI	1026z	11 Oct 2023	1.2m	Threat
ALIBAG PORT	1032z	11 Oct 2023	1.4m	Threat
MUMBAI	1032z	11 Oct 2023	1.6m	Threat
PIPAVAV	1043z	11 Oct 2023	1.6m	Threat
MAHUVA	1050z	11 Oct 2023	1.2m	Threat
KHAMBAT	1056z	11 Oct 2023	1.2m	Threat
BHARUCH	1124z	11 Oct 2023	1.2m	Threat
KANNUR	1126z	11 Oct 2023	0.7m	Threat
VAKKAD	1127z	11 Oct 2023	1.1m	Threat
BEYPORE	1129z	11 Oct 2023	0.8m	Threat
COCHIN	1132z	11 Oct 2023	1.0m	Threat
BORSI	1135z	11 Oct 2023	0.8m	Threat
HAZIRA	1135z	11 Oct 2023	1.1m	Threat
TARAPUR	1232z	11 Oct 2023	1.3m	Threat
ALLEPPEY ALAPPUZHA	1406z	11 Oct 2023	0.9m	Threat
MAHE	1434z	11 Oct 2023	0.7m	Threat
VADANAPPALLY	1447z	11 Oct 2023	0.9m	Threat
KASARAGOD	1502z	11 Oct 2023	0.9m	Threat
MANGALORE	1507z	11 Oct 2023	1.0m	Threat
KANYAKUMARI	1529z	11 Oct 2023	1.2m	Threat
TUTICORIN	1602z	11 Oct 2023	0.8m	Threat
KOODANKULAM	1640z	11 Oct 2023	0.7m	Threat
QUILON	1640z	11 Oct 2023	0.8m	Threat
DAMAN	1721z	11 Oct 2023	0.8m	Threat
TRIVANDRUM	1741z	11 Oct 2023	0.7m	Threat

IRAN

BIR	0604z	11 Oct 2023	6.3m	Threat
PUSHT	0604z	11 Oct 2023	6.8m	Threat
MISKI	0606z	11 Oct 2023	4.7m	Threat

KENYA

MALINDI	1628z	11 Oct 2023	1.2m	Threat
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KISIMACHANDE	1652z	11 Oct 2023	0.6m	Threat
KIWAYU	2023z	11 Oct 2023	0.6m	Threat
KIPINI	0049z	12 Oct 2023	0.7m	Threat
MADAGASCAR				

AMBAHY	2240z	11 Oct 2023	0.6m	Threat
TAMPOLO	0351z	12 Oct 2023	0.5m	Threat
VOHEMAR	0406z	12 Oct 2023	0.6m	Threat
MALDIVES				

GOIDHOO	0946z	11 Oct 2023	1.0m	Threat
KULHUDUFFUSHI	0950z	11 Oct 2023	1.3m	Threat
MALE	1031z	11 Oct 2023	1.4m	Threat
NILANDHOO	1159z	11 Oct 2023	0.6m	Threat
DHIYAMIGILI	1407z	11 Oct 2023	0.7m	Threat
THINADHOO	1820z	11 Oct 2023	1.0m	Threat
FERIDHOO	1822z	11 Oct 2023	0.7m	Threat
KOLHUFUSHI	2105z	11 Oct 2023	0.6m	Threat
MOZAMBIQUE				

MAGANJA	2242z	11 Oct 2023	0.6m	Threat
NANGATA	2348z	11 Oct 2023	0.5m	Threat
MERONVI	0409z	12 Oct 2023	0.6m	Threat
OMAN				

MUSCAT	0616z	11 Oct 2023	7.9m	Threat
BARKA	0620z	11 Oct 2023	6.5m	Threat
EAST MUSANDAM	0620z	11 Oct 2023	4.9m	Threat
QURAYYAT	0621z	11 Oct 2023	8.9m	Threat
AL KHABURAH	0624z	11 Oct 2023	5.5m	Threat
SOHAR	0629z	11 Oct 2023	5.7m	Threat
SUR	0629z	11 Oct 2023	6.6m	Threat
AL ASHKHARAH	0648z	11 Oct 2023	2.8m	Threat
MASIRAH	0703z	11 Oct 2023	1.3m	Threat
RAS AR RUWAYS	0711z	11 Oct 2023	1.8m	Threat
AD DUQM	0731z	11 Oct 2023	2.0m	Threat
AL JAZER	0818z	11 Oct 2023	1.0m	Threat
HASIK	0832z	11 Oct 2023	1.4m	Threat
SALALAH	0834z	11 Oct 2023	1.1m	Threat
PAKISTAN				

ORMARA	0624z	11 Oct 2023	4.5m	Threat
WINDER	0730z	11 Oct 2023	1.7m	Threat
KARACHI	0807z	11 Oct 2023	2.9m	Threat
SINDH	0808z	11 Oct 2023	1.6m	Threat
SEYCHELLES				

FREGATE ISLAND	1648z	11 Oct 2023	0.6m	Threat
TAKAMAKA	1716z	11 Oct 2023	0.6m	Threat
SOMALIA				

TOOXIN	0954z	11 Oct 2023	1.0m	Threat
ABO	0955z	11 Oct 2023	1.1m	Threat
GALDOGOB	1017z	11 Oct 2023	0.7m	Threat
XARARDHEERE	1057z	11 Oct 2023	1.1m	Threat
LOYADO	1139z	11 Oct 2023	0.7m	Threat
BANDER-BEYLA	1503z	11 Oct 2023	0.7m	Threat
CEEL DHEER	1540z	11 Oct 2023	1.1m	Threat
MAREEG	2048z	11 Oct 2023	0.5m	Threat
NE BEERNAASI	2102z	11 Oct 2023	0.6m	Threat
EYL	2144z	11 Oct 2023	0.7m	Threat

JARIIBAN	0306z	12 Oct 2023	0.6m	Threat
TANZANIA				

MADANGWA	2104z	11 Oct 2023	0.6m	Threat
WEST TO KONDE	0054z	12 Oct 2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12 Oct 2023	0.6m	Threat
UNITED ARAB EMIRATES				

KALBA	0633z	11 Oct 2023	4.4m	Threat
UNITED KINGDOM				

DIEGO GARCIA	1731z	11 Oct 2023	0.5m	Threat
YEMEN				

SOCOTRA ISLAND SOUTH	0854z	11 Oct 2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11 Oct 2023	1.2m	Threat
HUSWAYN	0910z	11 Oct 2023	0.9m	Threat
AL MUKALLA	1129z	11 Oct 2023	0.8m	Threat
KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 14

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# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 1700 UTC WEDNESDAY 11 OCTOBER 2023

... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600UTC
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

2. EVALUATION

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

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
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Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m
Male (MALDIVE ISLANDS)	4.19N	73.53E	1008z	11 Oct 2023	0.5m
Cochin (INDIA)	9.97N	76.27E	1026z	11 Oct 2023	1.3m
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Sittwe (MYANMAR)	20.1N	92.90E	1544z	11 Oct 2023	0.2m

Tanjung (INDONESIA)	6.48S	105.66E	1604z	11 Oct 2023	0.2m
Cilicap (INDONESIA)	7.75S	109.01E	1624z	11 Oct 2023	0.2m
Prigi (INDONESIA)	8.28S	111.73E	1638z	11 Oct 2023	0.1m

3. TSUNAMI THREAT FOR THE INDIAN OCEAN

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

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

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NW ARTA	1137z	11 Oct 2023	0.9m	Threat
MUHAMMAD ALI BIN FATHA SUMANA	1205z	11 Oct 2023	0.5m	Threat

FRANCE

ILE KERGUELEN	1951z	11 Oct 2023	1.0m	Threat
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VASCO	0951z	11 Oct 2023	1.0m	Threat
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MAHE	1434z	11 Oct 2023	0.7m	Threat
VADANAPPALLY	1447z	11 Oct 2023	0.9m	Threat
KASARAGOD	1502z	11 Oct 2023	0.9m	Threat
MANGALORE	1507z	11 Oct 2023	1.0m	Threat
KANYAKUMARI	1529z	11 Oct 2023	1.2m	Threat
TUTICORIN	1602z	11 Oct 2023	0.8m	Threat
KOODANKULAM	1640z	11 Oct 2023	0.7m	Threat
QUILON	1640z	11 Oct 2023	0.8m	Threat
DAMAN	1721z	11 Oct 2023	0.8m	Threat
TRIVANDRUM	1741z	11 Oct 2023	0.7m	Threat

IRAN

BIR	0604z	11 Oct 2023	6.3m	Threat
PUSHT	0604z	11 Oct 2023	6.8m	Threat

MISKI	0606z	11 Oct 2023	4.7m	Threat
KENYA				

MALINDI	1628z	11 Oct 2023	1.2m	Threat
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MADAGASCAR				

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MALDIVES				

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THINADHOO	1820z	11 Oct 2023	1.0m	Threat
FERIDHOO	1822z	11 Oct 2023	0.7m	Threat
KOLHUFUSHI	2105z	11 Oct 2023	0.6m	Threat
MOZAMBIQUE				

MAGANJA	2242z	11 Oct 2023	0.6m	Threat
NANGATA	2348z	11 Oct 2023	0.5m	Threat
MERONVI	0409z	12 Oct 2023	0.6m	Threat
OMAN				

MUSCAT	0616z	11 Oct 2023	7.9m	Threat
BARKA	0620z	11 Oct 2023	6.5m	Threat
EAST MUSANDAM	0620z	11 Oct 2023	4.9m	Threat
QURAYYAT	0621z	11 Oct 2023	8.9m	Threat
AL KHABURAH	0624z	11 Oct 2023	5.5m	Threat
SOHAR	0629z	11 Oct 2023	5.7m	Threat
SUR	0629z	11 Oct 2023	6.6m	Threat
AL ASHKHARAH	0648z	11 Oct 2023	2.8m	Threat
MASIRAH	0703z	11 Oct 2023	1.3m	Threat
RAS AR RUWAYS	0711z	11 Oct 2023	1.8m	Threat
AD DUQM	0731z	11 Oct 2023	2.0m	Threat
AL JAZER	0818z	11 Oct 2023	1.0m	Threat
HASIK	0832z	11 Oct 2023	1.4m	Threat
SALALAH	0834z	11 Oct 2023	1.1m	Threat
PAKISTAN				

ORMARA	0624z	11 Oct 2023	4.5m	Threat
WINDER	0730z	11 Oct 2023	1.7m	Threat
KARACHI	0807z	11 Oct 2023	2.9m	Threat
SINDH	0808z	11 Oct 2023	1.6m	Threat
SEYCHELLES				

FREGATE ISLAND	1648z	11 Oct 2023	0.6m	Threat
TAKAMAKA	1716z	11 Oct 2023	0.6m	Threat
SOMALIA				

TOOXIN	0954z	11 Oct 2023	1.0m	Threat
ABO	0955z	11 Oct 2023	1.1m	Threat
GALDOGOB	1017z	11 Oct 2023	0.7m	Threat
XARARDHEERE	1057z	11 Oct 2023	1.1m	Threat
LOYADO	1139z	11 Oct 2023	0.7m	Threat

BANDER-BEYLA	1503z	11 Oct 2023	0.7m	Threat
CEEL DHEER	1540z	11 Oct 2023	1.1m	Threat
MAREEG	2048z	11 Oct 2023	0.5m	Threat
NE BEERNAASI	2102z	11 Oct 2023	0.6m	Threat
EYL	2144z	11 Oct 2023	0.7m	Threat
JARIIBAN	0306z	12 Oct 2023	0.6m	Threat
TANZANIA				

MADANGWA	2104z	11 Oct 2023	0.6m	Threat
WEST TO KONDE	0054z	12 Oct 2023	0.6m	Threat
SONGO SONGO ISLAND	0557z	12 Oct 2023	0.6m	Threat
UNITED ARAB EMIRATES				

KALBA	0633z	11 Oct 2023	4.4m	Threat
UNITED KINGDOM				

DIEGO GARCIA	1731z	11 Oct 2023	0.5m	Threat
YEMEN				

SOCOTRA ISLAND SOUTH	0854z	11 Oct 2023	1.0m	Threat
AL GHAYDAH AIRPORT	0856z	11 Oct 2023	1.2m	Threat
HUSWAYN	0910z	11 Oct 2023	0.9m	Threat
AL MUKALLA	1129z	11 Oct 2023	0.8m	Threat
KHANFAR	1217z	11 Oct 2023	0.7m	Threat
ALQUMRAH	1235z	11 Oct 2023	0.8m	Threat
HAMI	1423z	11 Oct 2023	0.8m	Threat
MAALLAH	1654z	11 Oct 2023	0.6m	Threat
SOCOTRA ISLAND NORTH	1734z	11 Oct 2023	0.8m	Threat
HARRAH	1839z	11 Oct 2023	0.6m	Threat
MASILAH WADI	1851z	11 Oct 2023	0.6m	Threat
EAST TO HAMI	1926z	11 Oct 2023	0.7m	Threat
ADEN	2031z	11 Oct 2023	0.5m	Threat
AHWAR	2202z	11 Oct 2023	0.5m	Threat
DAMQAWT	2307z	11 Oct 2023	0.6m	Threat
BROM MAYFA	0556z	12 Oct 2023	0.7m	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

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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BULLETIN 15

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#
# TEST TEST TEST - 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 (ITEWC)
ISSUED AT 1800 UTC WEDNESDAY 11 OCTOBER 2023
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... 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 Mwp (UPDATED)
Depth: 10 km
Date: 11 OCT 2023
Origin Time: 0600
Latitude: 24.80N
Longitude: 58.20E
Location: OFF COAST OF IRAN

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.

LOCATION	LAT	LON	TIME	DATE	AMPL
Chabahar (IRAN)	25.3N	60.60E	0610z	11 Oct 2023	6.0m
Jask (IRAN)	25.6N	57.77E	0612z	11 Oct 2023	6.7m
Muscat (OMAN)	23.6N	58.57E	0622z	11 Oct 2023	6.0m
DART 23228 (INDIA)	20.8N	65.33E	0653z	11 Oct 2023	2.2m
DART 23226 (INDIA)	21.4N	64.10E	0657z	11 Oct 2023	1.8m
Masirah (OMAN)	20.6N	58.87E	0707z	11 Oct 2023	1.8m
Karachi (PAKISTAN)	24.8N	66.97E	0724z	11 Oct 2023	3.1m
Salalah (OMAN)	16.9N	54.01E	0807z	11 Oct 2023	1.2m
Veeraval (INDIA)	20.9N	70.37E	0852z	11 Oct 2023	1.6m
Minicoy (INDIA)	8.28N	73.05E	0915z	11 Oct 2023	0.6m
Marmagao (INDIA)	15.4N	73.80E	0936z	11 Oct 2023	1.7m
Male (MALDIVES ISLANDS)	4.19N	73.53E	1008z	11 Oct 2023	0.5m
Cochin (INDIA)	9.97N	76.27E	1026z	11 Oct 2023	1.3m
Denis Island (SEYCHELLES)	3.80S	55.67E	1030z	11 Oct 2023	0.4m
Colombo (SRILANKA)	6.95N	79.85E	1100z	11 Oct 2023	0.7m
Pt. LaRue (SEYCHELLES)	4.67S	55.53E	1125z	11 Oct 2023	0.8m
Lamu (KENYA)	2.27S	40.90E	1155z	11 Oct 2023	0.7m
Mombasa (KENYA)	4.07S	39.65E	1206z	11 Oct 2023	0.4m
Dzaoudzi (FRANCE)	12.7S	45.26E	1211z	11 Oct 2023	0.2m
Zanzibar (TANZANIA)	6.16S	39.19E	1234z	11 Oct 2023	0.3m
Pemba (MOCAMBIQUE)	12.9S	40.49E	1250z	11 Oct 2023	0.3m
Pt. Louis (MAURITIUS)	20.1S	57.50E	1304z	11 Oct 2023	0.2m

Blue Bay (MAURITIUS)	20.4S	57.71E	1316z	11 Oct 2023	0.2m
Telukdalam (INDONESIA)	0.55N	97.82E	1348z	11 Oct 2023	0.2m
Meulaboh (INDONESIA)	4.13N	96.13E	1407z	11 Oct 2023	0.1m
Visakhapatnam (INDIA)	17.6N	83.28E	1422z	11 Oct 2023	0.1m
seblat (INDONESIA)	3.22S	101.60E	1444z	11 Oct 2023	0.2m
Enggano (INDONESIA)	5.35S	102.28E	1502z	11 Oct 2023	0.1m
Christmas Island (AUSTRALIA)	10.4S	105.67E	1521z	11 Oct 2023	0.1m
Sittwe (MYANMAR)	20.1N	92.90E	1544z	11 Oct 2023	0.2m
Tanjung (INDONESIA)	6.48S	105.66E	1604z	11 Oct 2023	0.2m
Cilicap (INDONESIA)	7.75S	109.01E	1624z	11 Oct 2023	0.2m
Prigi (INDONESIA)	8.28S	111.73E	1638z	11 Oct 2023	0.1m
Langkawi (MALAYSIA)	6.87N	99.77E	1702z	11 Oct 2023	0.1m
Point Murat (AUSTRALIA)	21.8S	114.19E	1730z	11 Oct 2023	0.3m
Waikelo (INDONESIA)	9.39S	119.22E	1742z	11 Oct 2023	0.1m

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

TEST TEST TEST - IOTWMS IOWAVE EXERCISE - NOT A REAL TSUNAMI EVENT

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5. TSP INDONESIA MAPS

M 8.3

Figure S2-11. Threat Map

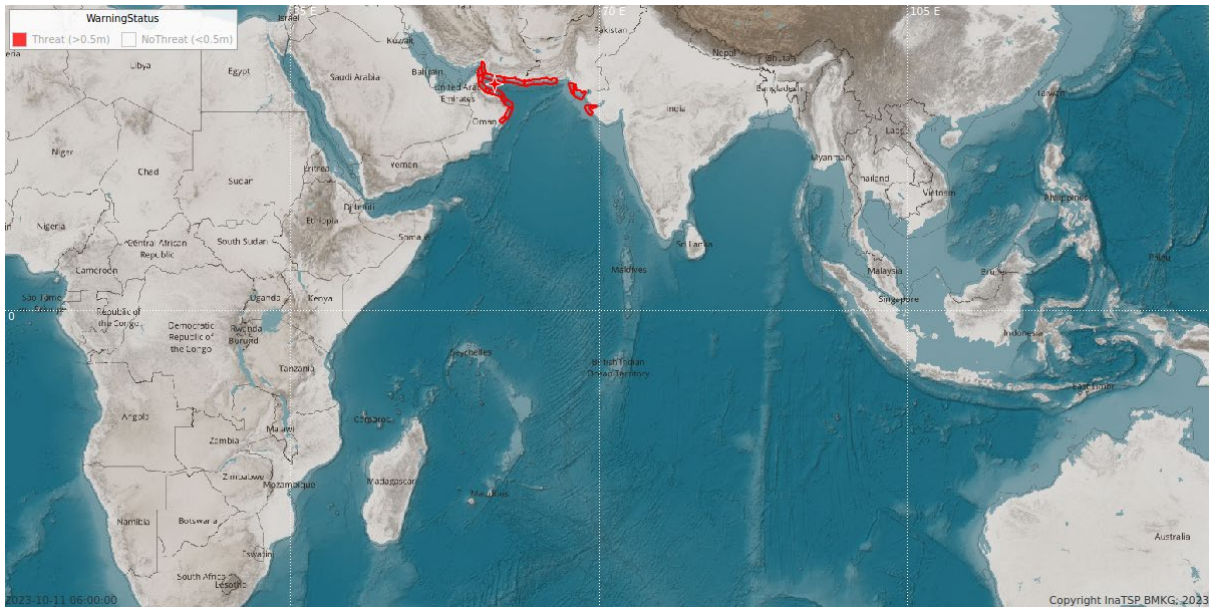


Figure S2-12. Travel Time Map

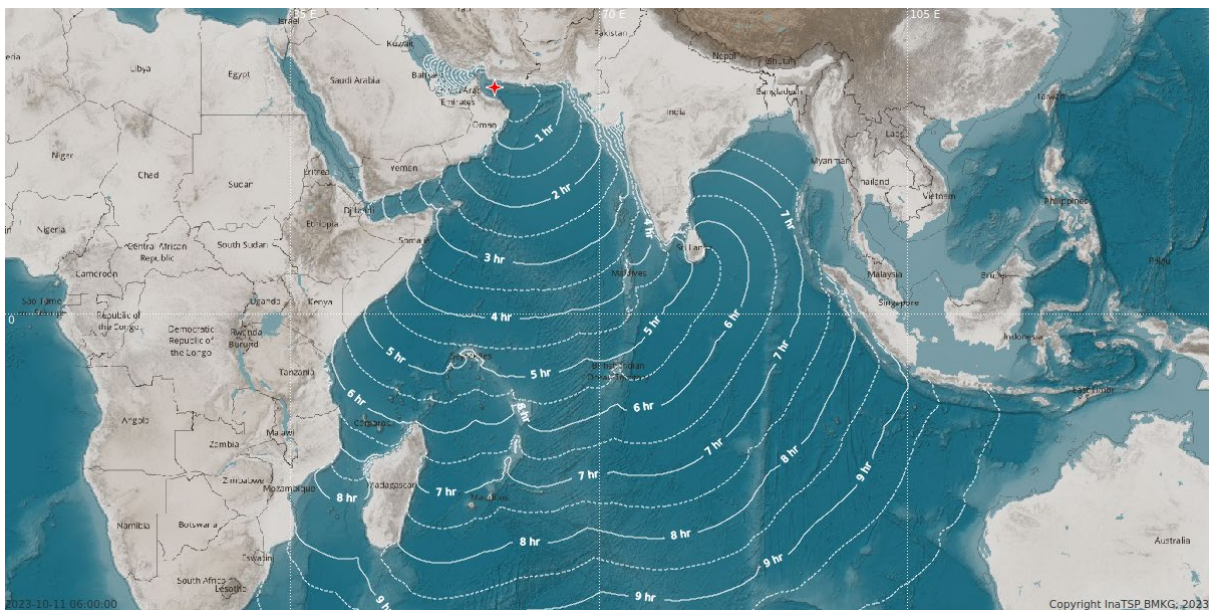
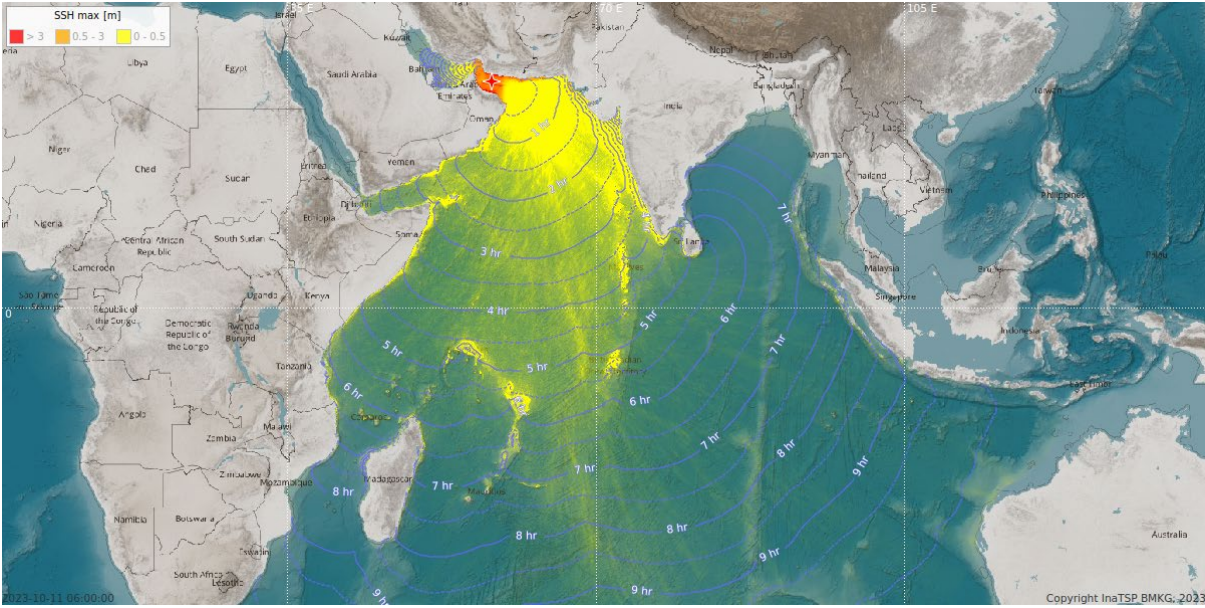


Figure S2-13. Wave Amplitude Map



M 8.7

Figure S2-14. Threat Map

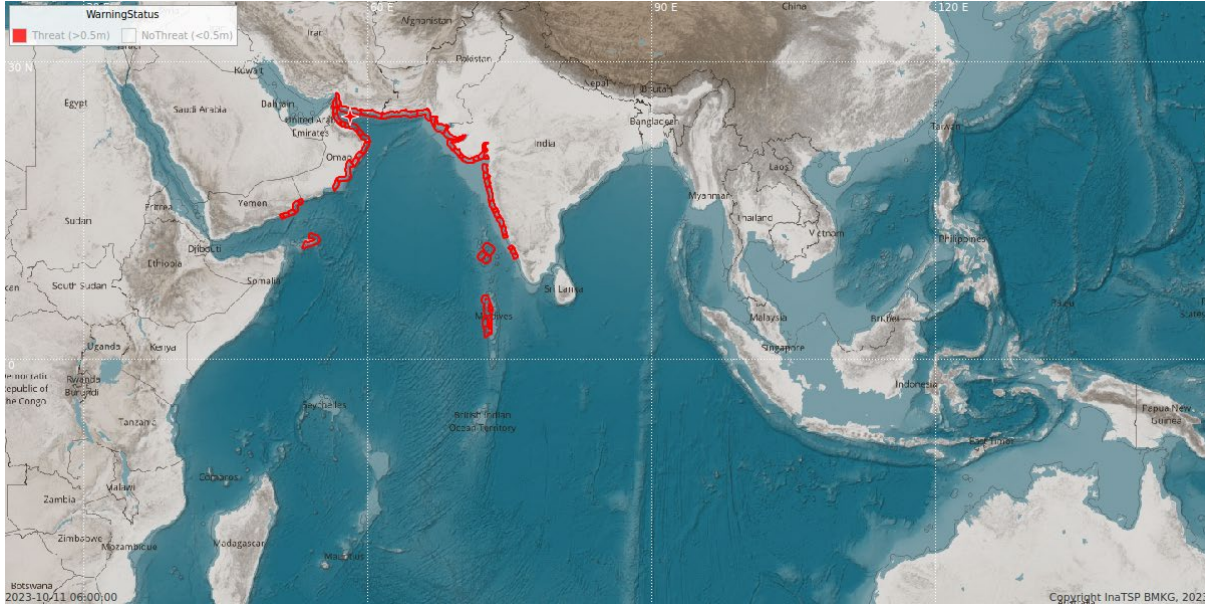


Figure S2-15. Travel Time Map

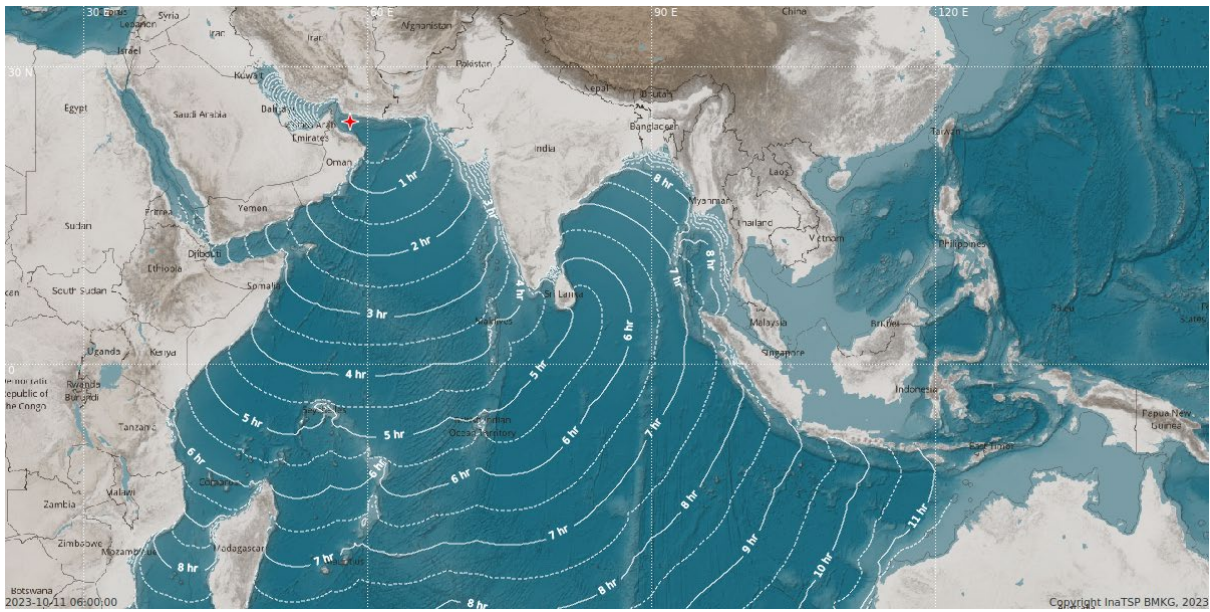
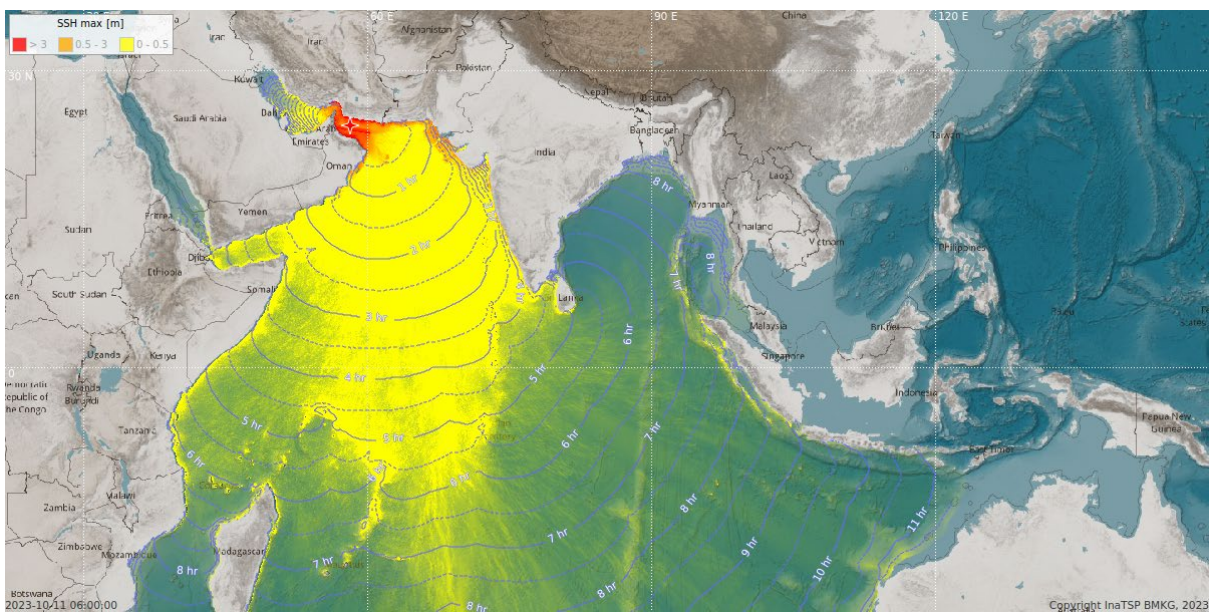


Figure S2-16. Wave Amplitude Map



M 9.0

Figure S2-17. Threat Map

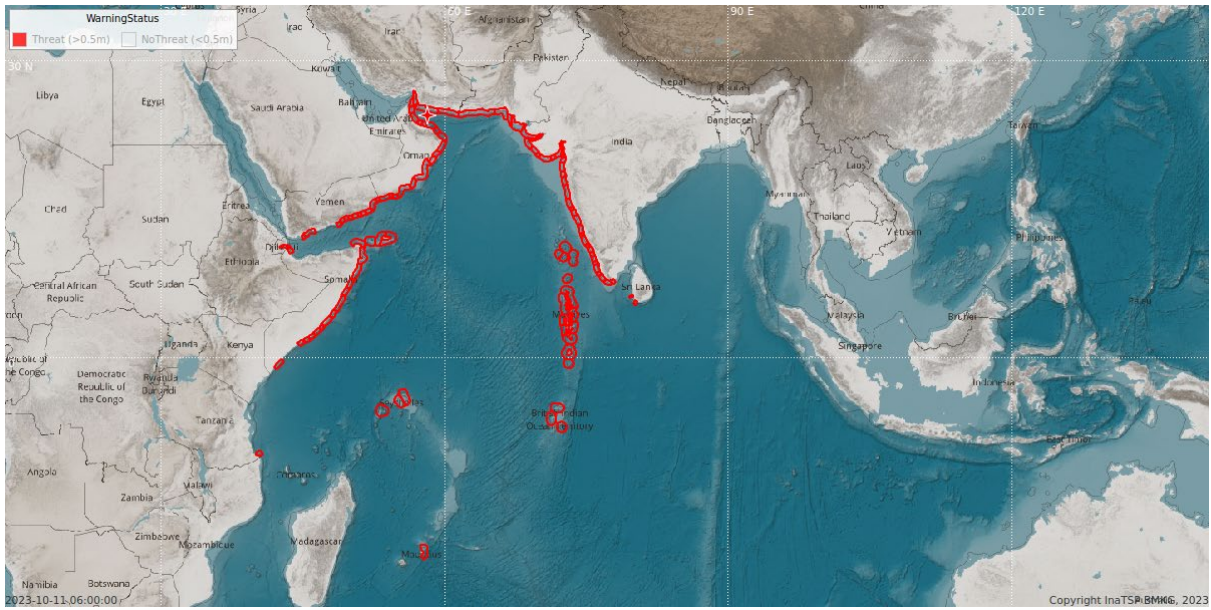


Figure S2-18. Travel Time Map

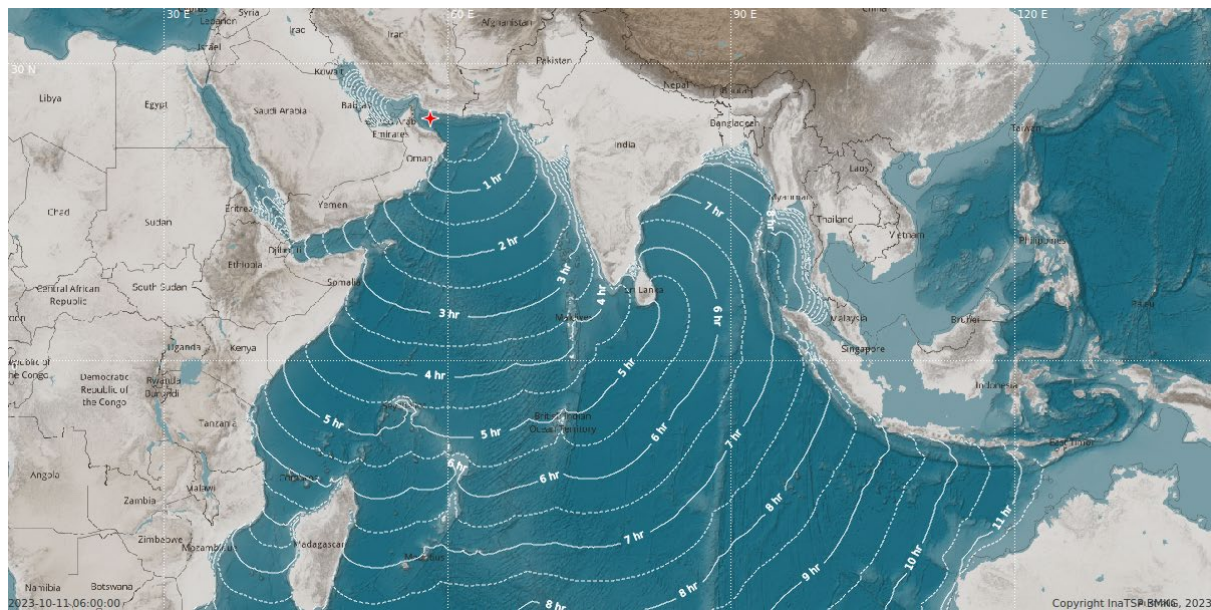
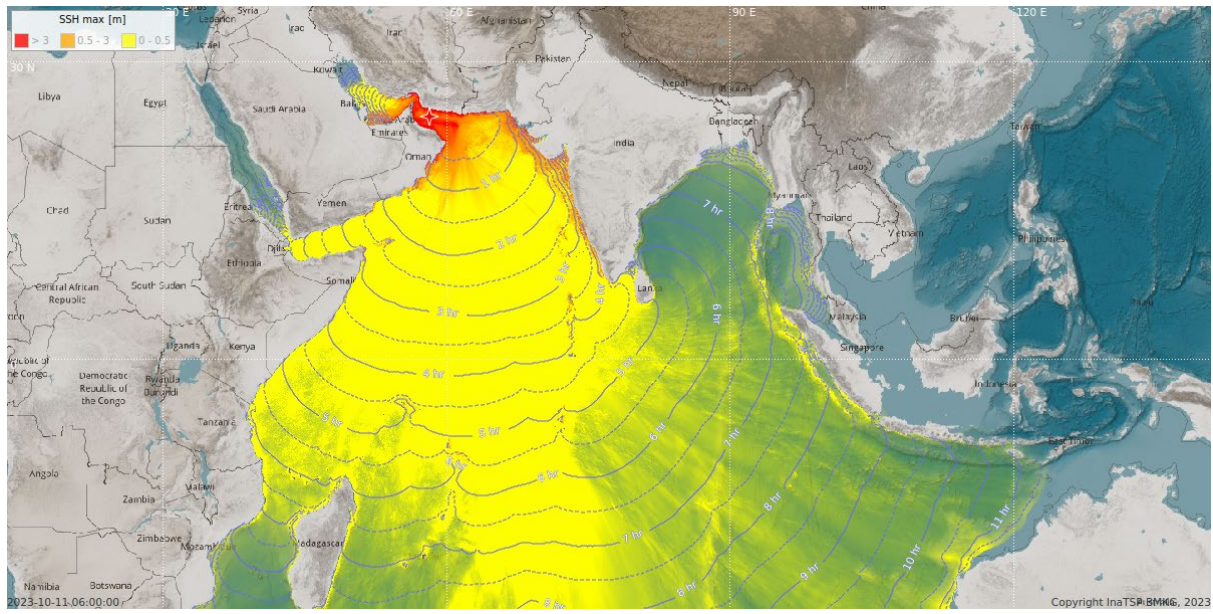


Figure S2-19. Maximum Wave Amplitude Map



6. TSP INDONESIA BULLETINS

BULLETIN 1

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-0605-001

TSUNAMI BULLETIN NUMBER 1 (TYPE-I EARTHQUAKE BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 0605 UTC, Oct 11, 2023

... 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 : 8.3 Mwp
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

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

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 2

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-0610-002

TSUNAMI BULLETIN NUMBER 2 (TYPE-II THREAT ASSESSMENT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 0610 UTC, Oct 11, 2023

... 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 : 8.7 Mwp (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

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.

INDIA

DWARKA 0839z 11Oct2023 1.1m
MANDVI 0840z 11Oct2023 1.1m
JAMNAGAR 0848z 11Oct2023 0.9m

AGATTI	0859z	11Oct2023	0.6m
AMINI	0916z	11Oct2023	0.6m
MANGROL	1006z	11Oct2023	0.8m
HAZIRA, DIU	1043z	11Oct2023	0.7m
PORBANDAR	1119z	11Oct2023	0.8m
MUMBAI	1138z	11Oct2023	0.6m
VASCO	1227z	11Oct2023	0.6m
JAIGARH	1229z	11Oct2023	0.6m
PANAJI	1232z	11Oct2023	0.6m
MALVAN BAY	1235z	11Oct2023	0.6m
ALIBAG PORT	1250z	11Oct2023	0.7m
KARWAR	1253z	11Oct2023	0.7m
KANNUR	1309z	11Oct2023	0.5m
MAHUVA	1312z	11Oct2023	0.7m
VAKKAD	1314z	11Oct2023	0.5m
MANGALORE	1331z	11Oct2023	0.6m
BEYPORE	1351z	11Oct2023	0.6m
PIPAVAV	1426z	11Oct2023	0.7m
UDUPI	1426z	11Oct2023	0.6m
KHAMBAT	1434z	11Oct2023	0.6m
TARAPUR	1448z	11Oct2023	0.6m
BHARUCH	1500z	11Oct2023	0.7m
KAVARATTI	1503z	11Oct2023	0.5m
BORSI	1631z	11Oct2023	0.6m

IRAN

BIR	0612z	11Oct2023	9.2m
PUSHT	0614z	11Oct2023	7.2m
MISKI	0652z	11Oct2023	4.6m

MALDIVES

GOIDHOO	0934z	11Oct2023	0.5m
FERIDHOO	1048z	11Oct2023	0.5m
NILANDHOO	1453z	11Oct2023	0.5m

OMAN

SOHAR	0600z	11Oct2023	9.5m
MUSCAT	0609z	11Oct2023	11.7m
BARKA	0610z	11Oct2023	10.2m
AL KHABURAH	0610z	11Oct2023	7.2m
QURAYYAT	0612z	11Oct2023	11.1m
SUR	0619z	11Oct2023	5.0m
AL ASHKHARAH	0631z	11Oct2023	2.3m
EAST MUSANDAM	0639z	11Oct2023	5.8m
MASIRAH	0654z	11Oct2023	0.8m
RAS AR RUWAYS	0657z	11Oct2023	1.3m
AD DUQM	0739z	11Oct2023	0.7m
AL JAZER	1228z	11Oct2023	0.6m

PAKISTAN

ORMARA	0626z	11Oct2023	2.4m
KARACHI	0803z	11Oct2023	1.4m
WINDER	0822z	11Oct2023	1.0m
SINDH	0824z	11Oct2023	1.2m

UNITED ARAB EMIRATES

KALBA	0600z	11Oct2023	8.7m
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YEMEN

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SOCOTRA ISLAND SOUTH          1108z 11Oct2023    0.7m  
AL GHAYDAH AIRPORT            1423z 11Oct2023    0.6m  
HUSWAYN                        1429z 11Oct2023    0.6m  
ALQUMRAH                      1457z 11Oct2023    0.5m  
MASILAH WADI                  1707z 11Oct2023    0.7m  
DAMQAWT                       1744z 11Oct2023    0.5m  
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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 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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

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TEST TEST TEST TEST TEST IOWave-Oct-2023  TEST TEST TEST TEST TEST TEST TEST  
TEST TEST TEST TEST TEST IOWave-Oct-2023  TEST TEST TEST TEST TEST TEST TEST
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BULLETIN 3

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-0630-003

TSUNAMI BULLETIN NUMBER 3 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 0630 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m

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.

DJIBOUTI

NW ARTA 1558z 11Oct2023 0.6m

INDIA

MANDVI	0815z	11Oct2023	1.5m
DWARKA	0818z	11Oct2023	1.8m
PORBANDAR	0819z	11Oct2023	1.7m
JAMNAGAR	0823z	11Oct2023	1.7m
MANGROL	0835z	11Oct2023	1.6m
HAZIRA, DIU	0842z	11Oct2023	1.4m
AGATTI	0853z	11Oct2023	0.8m
AMINI	0857z	11Oct2023	1.0m
MINICOY	0920z	11Oct2023	0.6m
ANDROTH	0920z	11Oct2023	0.9m
MALVAN BAY	0925z	11Oct2023	1.2m
PANAJI	0926z	11Oct2023	1.7m
VASCO	0926z	11Oct2023	1.3m
KARWAR	0935z	11Oct2023	1.2m
JAIGARH	0936z	11Oct2023	1.3m
KAVARATTI	1002z	11Oct2023	0.7m
ALIBAG PORT	1002z	11Oct2023	1.4m
MUMBAI	1008z	11Oct2023	1.5m
VADANAPPALLY	1013z	11Oct2023	0.9m
PIPAVAV	1014z	11Oct2023	1.4m
VAKKAD	1014z	11Oct2023	1.0m
MAHUVA	1017z	11Oct2023	1.4m
ALLEPPEY ALAPPUZHA	1018z	11Oct2023	0.7m
UDUPI	1021z	11Oct2023	1.3m
BEYPORE	1021z	11Oct2023	0.9m
COCHIN	1022z	11Oct2023	0.8m
KHAMBAT	1022z	11Oct2023	1.4m
MANGALORE	1046z	11Oct2023	1.2m
MAHE	1100z	11Oct2023	0.8m
KANNUR	1106z	11Oct2023	1.1m
KOODANKULAM	1113z	11Oct2023	0.8m
KASARAGOD	1128z	11Oct2023	1.1m
TARAPUR	1154z	11Oct2023	1.3m
QUILON	1256z	11Oct2023	0.9m
BHARUCH	1321z	11Oct2023	1.1m
TRIVANDRUM	1326z	11Oct2023	0.7m
HAZIRA	1332z	11Oct2023	1.0m
BORSI	1337z	11Oct2023	1.0m
DAMAN	1513z	11Oct2023	1.3m
KANYAKUMARI	1525z	11Oct2023	0.6m

IRAN

BIR	0610z	11Oct2023	13.1m
PUSHT	0611z	11Oct2023	13.8m
MISKI	0650z	11Oct2023	7.6m

MALDIVES

KULHUDUFFUSHI	0925z	11Oct2023	0.8m
GOIDHOO	0928z	11Oct2023	0.9m
FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST 1412z 11Oct2023 0.5m

OMAN

SOHAR 0600z 11Oct2023 12.2m
MUSCAT 0608z 11Oct2023 13.3m
AL KHABURAH 0608z 11Oct2023 9.2m
BARKA 0608z 11Oct2023 9.6m
QURAYYAT 0611z 11Oct2023 16.6m
SUR 0618z 11Oct2023 12.7m
AL ASHKHARAH 0627z 11Oct2023 6.0m
EAST MUSANDAM 0633z 11Oct2023 7.5m
MASIRAH 0649z 11Oct2023 1.7m
RAS AR RUWAYS 0652z 11Oct2023 3.4m
AD DUQM 0717z 11Oct2023 1.6m
HASIK 0745z 11Oct2023 0.8m
AL JAZER 0749z 11Oct2023 1.8m
SALALAH 0816z 11Oct2023 1.0m
MIRBAT 0839z 11Oct2023 0.7m
TAQAH 1044z 11Oct2023 0.7m

PAKISTAN

ORMARA 0614z 11Oct2023 3.6m
WINDER 0707z 11Oct2023 2.8m
KARACHI 0747z 11Oct2023 3.0m
SINDH 0749z 11Oct2023 2.2m

SEYCHELLES

FREGATE ISLAND 1031z 11Oct2023 0.7m
TAKAMAKA 1132z 11Oct2023 0.6m
ILE DESROCHES 1645z 11Oct2023 0.5m

SOMALIA

ABO 0914z 11Oct2023 1.0m
BANDER-BEYLA 0930z 11Oct2023 0.7m
TOOXIN 0957z 11Oct2023 0.8m
EYL 1040z 11Oct2023 0.8m
CEEL DHEER 1043z 11Oct2023 0.8m
JARIIBAN 1051z 11Oct2023 0.9m
ITALA 1119z 11Oct2023 0.5m
GALDOGOB 1154z 11Oct2023 0.8m
UARSCIECH 1244z 11Oct2023 0.6m
XARARDHEERE 1304z 11Oct2023 0.8m
MAREEG 1316z 11Oct2023 0.5m
BEYNAX BARRE 1342z 11Oct2023 0.5m
MUQDISHO 1454z 11Oct2023 0.5m
NE BEERNAASI 1514z 11Oct2023 0.5m
LOYADO 1707z 11Oct2023 0.6m

SRI LANKA

BERUWALA 1526z 11Oct2023 0.5m
GALLE 1547z 11Oct2023 0.6m

TANZANIA

MADANGWA 1321z 11Oct2023 0.5m

UNITED ARAB EMIRATES

KALBA 0600z 11Oct2023 11.1m

UNITED KINGDOM

MORESBY ISLAND 1058z 11Oct2023 0.7m
NW EGMONT ISLAND 1109z 11Oct2023 0.5m
DIEGO GARCIA 1301z 11Oct2023 0.5m

YEMEN

SOCOTRA ISLAND SOUTH 0817z 11Oct2023 1.1m
DAMQAWT 0822z 11Oct2023 0.7m
SOCOTRA ISLAND NORTH 0827z 11Oct2023 0.9m
AL GHAYDAH AIRPORT 0830z 11Oct2023 1.1m
SOCOTRA ISLAND WEST 0843z 11Oct2023 0.6m
HUSWAYN 0950z 11Oct2023 1.4m
MASILAH WADI 0959z 11Oct2023 1.0m
HAMI 1014z 11Oct2023 0.7m
ALQUMRAH 1100z 11Oct2023 1.3m
AL MUKALLA 1207z 11Oct2023 0.9m
BROM MAYFA 1210z 11Oct2023 0.5m
HARRAH 1246z 11Oct2023 0.7m
EAST TO HAMI 1333z 11Oct2023 0.8m
ADEN 1618z 11Oct2023 0.5m
KHANFAR 1618z 11Oct2023 0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 4

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-0700-004

TSUNAMI BULLETIN NUMBER 4 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 0700 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m

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.

DJIBOUTI

NW ARTA 1558z 11Oct2023 0.6m

INDIA

MANDVI 0815z 11Oct2023 1.5m
DWARKA 0818z 11Oct2023 1.8m
PORBANDAR 0819z 11Oct2023 1.7m
JAMNAGAR 0823z 11Oct2023 1.7m
MANGROL 0835z 11Oct2023 1.6m
HAZIRA, DIU 0842z 11Oct2023 1.4m
AGATTI 0853z 11Oct2023 0.8m
AMINI 0857z 11Oct2023 1.0m
MINICOY 0920z 11Oct2023 0.6m
ANDROTH 0920z 11Oct2023 0.9m
MALVAN BAY 0925z 11Oct2023 1.2m
PANAJI 0926z 11Oct2023 1.7m
VASCO 0926z 11Oct2023 1.3m
KARWAR 0935z 11Oct2023 1.2m
JAIGARH 0936z 11Oct2023 1.3m
KAVARATTI 1002z 11Oct2023 0.7m
ALIBAG PORT 1002z 11Oct2023 1.4m
MUMBAI 1008z 11Oct2023 1.5m
VADANAPPALLY 1013z 11Oct2023 0.9m
PIPAVAV 1014z 11Oct2023 1.4m
VAKKAD 1014z 11Oct2023 1.0m
MAHUVA 1017z 11Oct2023 1.4m
ALLEPPEY ALAPPUZHA 1018z 11Oct2023 0.7m
UDUPI 1021z 11Oct2023 1.3m
BEYPORE 1021z 11Oct2023 0.9m
COCHIN 1022z 11Oct2023 0.8m
KHAMBAT 1022z 11Oct2023 1.4m
MANGALORE 1046z 11Oct2023 1.2m
MAHE 1100z 11Oct2023 0.8m
KANNUR 1106z 11Oct2023 1.1m
KODANKULAM 1113z 11Oct2023 0.8m
KASARAGOD 1128z 11Oct2023 1.1m
TARAPUR 1154z 11Oct2023 1.3m
QUILON 1256z 11Oct2023 0.9m
BHARUCH 1321z 11Oct2023 1.1m
TRIVANDRUM 1326z 11Oct2023 0.7m
HAZIRA 1332z 11Oct2023 1.0m
BORSI 1337z 11Oct2023 1.0m
DAMAN 1513z 11Oct2023 1.3m
KANYAKUMARI 1525z 11Oct2023 0.6m

IRAN

BIR 0610z 11Oct2023 13.1m
PUSHT 0611z 11Oct2023 13.8m
MISKI 0650z 11Oct2023 7.6m

MALDIVES

KULHUDUFFUSHI 0925z 11Oct2023 0.8m
GOIDHOO 0928z 11Oct2023 0.9m
FERIDHOO 0941z 11Oct2023 1.0m
NILANDHOO 0953z 11Oct2023 0.6m
DHIYAMIGILI 0958z 11Oct2023 0.5m
MALE 1001z 11Oct2023 0.5m
THINADHOO 1012z 11Oct2023 0.6m
HITHADHOO 1025z 11Oct2023 0.5m
KOLHUFUSHI 1603z 11Oct2023 0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST 1412z 11Oct2023 0.5m

OMAN

SOHAR 0600z 11Oct2023 12.2m
MUSCAT 0608z 11Oct2023 13.3m
AL KHABURAH 0608z 11Oct2023 9.2m
BARKA 0608z 11Oct2023 9.6m
QURAYYAT 0611z 11Oct2023 16.6m
SUR 0618z 11Oct2023 12.7m
AL ASHKHARAH 0627z 11Oct2023 6.0m
EAST MUSANDAM 0633z 11Oct2023 7.5m
MASIRAH 0649z 11Oct2023 1.7m
RAS AR RUWAYS 0652z 11Oct2023 3.4m
AD DUQM 0717z 11Oct2023 1.6m
HASIK 0745z 11Oct2023 0.8m
AL JAZER 0749z 11Oct2023 1.8m
SALALAH 0816z 11Oct2023 1.0m
MIRBAT 0839z 11Oct2023 0.7m
TAQAH 1044z 11Oct2023 0.7m

PAKISTAN

ORMARA 0614z 11Oct2023 3.6m
WINDER 0707z 11Oct2023 2.8m
KARACHI 0747z 11Oct2023 3.0m
SINDH 0749z 11Oct2023 2.2m

SEYCHELLES

FREGATE ISLAND 1031z 11Oct2023 0.7m
TAKAMAKA 1132z 11Oct2023 0.6m
ILE DESROCHES 1645z 11Oct2023 0.5m

SOMALIA

ABO 0914z 11Oct2023 1.0m
BANDER-BEYLA 0930z 11Oct2023 0.7m
TOOXIN 0957z 11Oct2023 0.8m
EYL 1040z 11Oct2023 0.8m
CEEL DHEER 1043z 11Oct2023 0.8m
JARIIBAN 1051z 11Oct2023 0.9m
ITALA 1119z 11Oct2023 0.5m
GALDOGOB 1154z 11Oct2023 0.8m
UARSCIECH 1244z 11Oct2023 0.6m
XARARDHEERE 1304z 11Oct2023 0.8m
MAREEG 1316z 11Oct2023 0.5m
BEYNAX BARRE 1342z 11Oct2023 0.5m
MUQDISHO 1454z 11Oct2023 0.5m
NE BEERNAASI 1514z 11Oct2023 0.5m
LOYADO 1707z 11Oct2023 0.6m

SRI LANKA

BERUWALA 1526z 11Oct2023 0.5m
GALLE 1547z 11Oct2023 0.6m

TANZANIA

MADANGWA 1321z 11Oct2023 0.5m

UNITED ARAB EMIRATES

KALBA 0600z 11Oct2023 11.1m

UNITED KINGDOM

MORESBY ISLAND 1058z 11Oct2023 0.7m
NW EGMONT ISLAND 1109z 11Oct2023 0.5m
DIEGO GARCIA 1301z 11Oct2023 0.5m

YEMEN

SOCOTRA ISLAND SOUTH 0817z 11Oct2023 1.1m
DAMQAWT 0822z 11Oct2023 0.7m
SOCOTRA ISLAND NORTH 0827z 11Oct2023 0.9m
AL GHAYDAH AIRPORT 0830z 11Oct2023 1.1m
SOCOTRA ISLAND WEST 0843z 11Oct2023 0.6m
HUSWAYN 0950z 11Oct2023 1.4m
MASILAH WADI 0959z 11Oct2023 1.0m
HAMI 1014z 11Oct2023 0.7m
ALQUMRAH 1100z 11Oct2023 1.3m
AL MUKALLA 1207z 11Oct2023 0.9m
BROM MAYFA 1210z 11Oct2023 0.5m
HARRAH 1246z 11Oct2023 0.7m
EAST TO HAMI 1333z 11Oct2023 0.8m
ADEN 1618z 11Oct2023 0.5m
KHANFAR 1618z 11Oct2023 0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 5

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-0800-005

TSUNAMI BULLETIN NUMBER 5 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 0800 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m

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.

DJIBOUTI

NW ARTA 1558z 11Oct2023 0.6m

INDIA

MANDVI 0815z 11Oct2023 1.5m
DWARKA 0818z 11Oct2023 1.8m
PORBANDAR 0819z 11Oct2023 1.7m
JAMNAGAR 0823z 11Oct2023 1.7m
MANGROL 0835z 11Oct2023 1.6m
HAZIRA, DIU 0842z 11Oct2023 1.4m
AGATTI 0853z 11Oct2023 0.8m
AMINI 0857z 11Oct2023 1.0m
MINICOY 0920z 11Oct2023 0.6m
ANDROTH 0920z 11Oct2023 0.9m
MALVAN BAY 0925z 11Oct2023 1.2m
PANAJI 0926z 11Oct2023 1.7m
VASCO 0926z 11Oct2023 1.3m
KARWAR 0935z 11Oct2023 1.2m
JAIGARH 0936z 11Oct2023 1.3m
KAVARATTI 1002z 11Oct2023 0.7m
ALIBAG PORT 1002z 11Oct2023 1.4m
MUMBAI 1008z 11Oct2023 1.5m
VADANAPPALLY 1013z 11Oct2023 0.9m
PIPAVAV 1014z 11Oct2023 1.4m
VAKKAD 1014z 11Oct2023 1.0m
MAHUVA 1017z 11Oct2023 1.4m
ALLEPPEY ALAPPUZHA 1018z 11Oct2023 0.7m
UDUPI 1021z 11Oct2023 1.3m
BEYPORE 1021z 11Oct2023 0.9m
COCHIN 1022z 11Oct2023 0.8m
KHAMBAT 1022z 11Oct2023 1.4m
MANGALORE 1046z 11Oct2023 1.2m
MAHE 1100z 11Oct2023 0.8m
KANNUR 1106z 11Oct2023 1.1m
KODANKULAM 1113z 11Oct2023 0.8m
KASARAGOD 1128z 11Oct2023 1.1m
TARAPUR 1154z 11Oct2023 1.3m
QUILON 1256z 11Oct2023 0.9m
BHARUCH 1321z 11Oct2023 1.1m
TRIVANDRUM 1326z 11Oct2023 0.7m
HAZIRA 1332z 11Oct2023 1.0m
BORSI 1337z 11Oct2023 1.0m
DAMAN 1513z 11Oct2023 1.3m
KANYAKUMARI 1525z 11Oct2023 0.6m

IRAN

BIR 0610z 11Oct2023 13.1m
PUSHT 0611z 11Oct2023 13.8m
MISKI 0650z 11Oct2023 7.6m

MALDIVES

KULHUDUFFUSHI 0925z 11Oct2023 0.8m
GOIDHOO 0928z 11Oct2023 0.9m
FERIDHOO 0941z 11Oct2023 1.0m
NILANDHOO 0953z 11Oct2023 0.6m
DHIYAMIGILI 0958z 11Oct2023 0.5m
MALE 1001z 11Oct2023 0.5m
THINADHOO 1012z 11Oct2023 0.6m

HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA

MADANGWA 1321z 11Oct2023 0.5m

UNITED ARAB EMIRATES

KALBA 0600z 11Oct2023 11.1m

UNITED KINGDOM

MORESBY ISLAND 1058z 11Oct2023 0.7m
NW EGMONT ISLAND 1109z 11Oct2023 0.5m
DIEGO GARCIA 1301z 11Oct2023 0.5m

YEMEN

SOCOTRA ISLAND SOUTH 0817z 11Oct2023 1.1m
DAMQAWT 0822z 11Oct2023 0.7m
SOCOTRA ISLAND NORTH 0827z 11Oct2023 0.9m
AL GHAYDAH AIRPORT 0830z 11Oct2023 1.1m
SOCOTRA ISLAND WEST 0843z 11Oct2023 0.6m
HUSWAYN 0950z 11Oct2023 1.4m
MASILAH WADI 0959z 11Oct2023 1.0m
HAMI 1014z 11Oct2023 0.7m
ALQUMRAH 1100z 11Oct2023 1.3m
AL MUKALLA 1207z 11Oct2023 0.9m
BROM MAYFA 1210z 11Oct2023 0.5m
HARRAH 1246z 11Oct2023 0.7m
EAST TO HAMI 1333z 11Oct2023 0.8m
ADEN 1618z 11Oct2023 0.5m
KHANFAR 1618z 11Oct2023 0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 6

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-0900-006

TSUNAMI BULLETIN NUMBER 6 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 0900 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m

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.

DJIBOUTI

NW ARTA 1558z 11Oct2023 0.6m

INDIA

MANDVI 0815z 11Oct2023 1.5m
DWARKA 0818z 11Oct2023 1.8m
PORBANDAR 0819z 11Oct2023 1.7m
JAMNAGAR 0823z 11Oct2023 1.7m
MANGROL 0835z 11Oct2023 1.6m
HAZIRA, DIU 0842z 11Oct2023 1.4m
AGATTI 0853z 11Oct2023 0.8m
AMINI 0857z 11Oct2023 1.0m
MINICOY 0920z 11Oct2023 0.6m
ANDROTH 0920z 11Oct2023 0.9m
MALVAN BAY 0925z 11Oct2023 1.2m
PANAJI 0926z 11Oct2023 1.7m
VASCO 0926z 11Oct2023 1.3m
KARWAR 0935z 11Oct2023 1.2m
JAIGARH 0936z 11Oct2023 1.3m
KAVARATTI 1002z 11Oct2023 0.7m
ALIBAG PORT 1002z 11Oct2023 1.4m
MUMBAI 1008z 11Oct2023 1.5m
VADANAPPALLY 1013z 11Oct2023 0.9m
PIPAVAV 1014z 11Oct2023 1.4m
VAKKAD 1014z 11Oct2023 1.0m
MAHUVA 1017z 11Oct2023 1.4m
ALLEPPEY ALAPPUZHA 1018z 11Oct2023 0.7m
UDUPI 1021z 11Oct2023 1.3m
BEYPORE 1021z 11Oct2023 0.9m
COCHIN 1022z 11Oct2023 0.8m
KHAMBAT 1022z 11Oct2023 1.4m
MANGALORE 1046z 11Oct2023 1.2m
MAHE 1100z 11Oct2023 0.8m
KANNUR 1106z 11Oct2023 1.1m
KODANKULAM 1113z 11Oct2023 0.8m
KASARAGOD 1128z 11Oct2023 1.1m
TARAPUR 1154z 11Oct2023 1.3m
QUILON 1256z 11Oct2023 0.9m
BHARUCH 1321z 11Oct2023 1.1m
TRIVANDRUM 1326z 11Oct2023 0.7m
HAZIRA 1332z 11Oct2023 1.0m
BORSI 1337z 11Oct2023 1.0m
DAMAN 1513z 11Oct2023 1.3m
KANYAKUMARI 1525z 11Oct2023 0.6m

IRAN

BIR 0610z 11Oct2023 13.1m
PUSHT 0611z 11Oct2023 13.8m
MISKI 0650z 11Oct2023 7.6m

MALDIVES

KULHUDEFFUSHI 0925z 11Oct2023 0.8m
GOIDHOO 0928z 11Oct2023 0.9m
FERIDHOO 0941z 11Oct2023 1.0m

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NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA			

MADANGWA	1321z	11Oct2023	0.5m

UNITED ARAB EMIRATES			

KALBA	0600z	11Oct2023	11.1m

UNITED KINGDOM			

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN			

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m
AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m
EAST TO HAMI	1333z	11Oct2023	0.8m
ADEN	1618z	11Oct2023	0.5m
KHANFAR	1618z	11Oct2023	0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 7

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-1000-007

TSUNAMI BULLETIN NUMBER 7 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1000 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m

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.

DJIBOUTI

NW ARTA 1558z 11Oct2023 0.6m

INDIA

MANDVI 0815z 11Oct2023 1.5m
DWARKA 0818z 11Oct2023 1.8m
PORBANDAR 0819z 11Oct2023 1.7m
JAMNAGAR 0823z 11Oct2023 1.7m
MANGROL 0835z 11Oct2023 1.6m
HAZIRA, DIU 0842z 11Oct2023 1.4m
AGATTI 0853z 11Oct2023 0.8m
AMINI 0857z 11Oct2023 1.0m
MINICOY 0920z 11Oct2023 0.6m
ANDROTH 0920z 11Oct2023 0.9m
MALVAN BAY 0925z 11Oct2023 1.2m
PANAJI 0926z 11Oct2023 1.7m
VASCO 0926z 11Oct2023 1.3m
KARWAR 0935z 11Oct2023 1.2m
JAIGARH 0936z 11Oct2023 1.3m
KAVARATTI 1002z 11Oct2023 0.7m
ALIBAG PORT 1002z 11Oct2023 1.4m
MUMBAI 1008z 11Oct2023 1.5m
VADANAPPALLY 1013z 11Oct2023 0.9m
PIPAVAV 1014z 11Oct2023 1.4m
VAKKAD 1014z 11Oct2023 1.0m
MAHUVA 1017z 11Oct2023 1.4m
ALLEPPEY ALAPPUZHA 1018z 11Oct2023 0.7m
UDUPI 1021z 11Oct2023 1.3m
BEYPORE 1021z 11Oct2023 0.9m
COCHIN 1022z 11Oct2023 0.8m
KHAMBAT 1022z 11Oct2023 1.4m
MANGALORE 1046z 11Oct2023 1.2m
MAHE 1100z 11Oct2023 0.8m
KANNUR 1106z 11Oct2023 1.1m
KODANKULAM 1113z 11Oct2023 0.8m
KASARAGOD 1128z 11Oct2023 1.1m
TARAPUR 1154z 11Oct2023 1.3m
QUILON 1256z 11Oct2023 0.9m
BHARUCH 1321z 11Oct2023 1.1m
TRIVANDRUM 1326z 11Oct2023 0.7m
HAZIRA 1332z 11Oct2023 1.0m
BORSI 1337z 11Oct2023 1.0m
DAMAN 1513z 11Oct2023 1.3m
KANYAKUMARI 1525z 11Oct2023 0.6m

IRAN

BIR 0610z 11Oct2023 13.1m
PUSHT 0611z 11Oct2023 13.8m
MISKI 0650z 11Oct2023 7.6m

MALDIVES

KULHUDUFFUSHI 0925z 11Oct2023 0.8m
GOIDHOO 0928z 11Oct2023 0.9m

FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA

MADANGWA	1321z	11Oct2023	0.5m
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UNITED ARAB EMIRATES

KALBA	0600z	11Oct2023	11.1m
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UNITED KINGDOM

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m
AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m
EAST TO HAMI	1333z	11Oct2023	0.8m
ADEN	1618z	11Oct2023	0.5m
KHANFAR	1618z	11Oct2023	0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkgo.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 8

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-1100-008

TSUNAMI BULLETIN NUMBER 8 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1100 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m
Male	MALDIVE	4.19N	73.53E	1008z	UTC 11 Oct 2023	0.6m
Hanimaadhoo	MALDIVE	6.77N	73.17E	1015z	UTC 11 Oct 2023	0.6m
Aden	YEMEN	12.79N	44.97E	1020z	UTC 11 Oct 2023	0.4m
Gan	MALDIVE	0.69S	73.15E	1021z	UTC 11 Oct 2023	0.7m
Cochin	INDIA	9.96N	76.26E	1026z	UTC 11 Oct 2023	1.4m
Denis Island	SEYCHELLES	3.80S	55.67E	1030z	UTC 11 Oct 2023	0.4m
Djibouti	DJIBOUTI	11.60N	43.17E	1058z	UTC 11 Oct 2023	0.6m

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.

DJIBOUTI

NW ARTA 1558z 11Oct2023 0.6m

INDIA

MANDVI 0815z 11Oct2023 1.5m
DWARKA 0818z 11Oct2023 1.8m
PORBANDAR 0819z 11Oct2023 1.7m
JAMNAGAR 0823z 11Oct2023 1.7m
MANGROL 0835z 11Oct2023 1.6m
HAZIRA, DIU 0842z 11Oct2023 1.4m
AGATTI 0853z 11Oct2023 0.8m
AMINI 0857z 11Oct2023 1.0m
MINICOY 0920z 11Oct2023 0.6m
ANDROTH 0920z 11Oct2023 0.9m
MALVAN BAY 0925z 11Oct2023 1.2m
PANAJI 0926z 11Oct2023 1.7m
VASCO 0926z 11Oct2023 1.3m
KARWAR 0935z 11Oct2023 1.2m
JAIGARH 0936z 11Oct2023 1.3m
KAVARATTI 1002z 11Oct2023 0.7m
ALIBAG PORT 1002z 11Oct2023 1.4m
MUMBAI 1008z 11Oct2023 1.5m
VADANAPPALLY 1013z 11Oct2023 0.9m
PIPAVAV 1014z 11Oct2023 1.4m
VAKKAD 1014z 11Oct2023 1.0m
MAHUVA 1017z 11Oct2023 1.4m
ALLEPPEY ALAPPUZHA 1018z 11Oct2023 0.7m
UDUPI 1021z 11Oct2023 1.3m
BEYPORE 1021z 11Oct2023 0.9m
COCHIN 1022z 11Oct2023 0.8m
KHAMBAT 1022z 11Oct2023 1.4m
MANGALORE 1046z 11Oct2023 1.2m
MAHE 1100z 11Oct2023 0.8m
KANNUR 1106z 11Oct2023 1.1m
KODANKULAM 1113z 11Oct2023 0.8m
KASARAGOD 1128z 11Oct2023 1.1m
TARAPUR 1154z 11Oct2023 1.3m
QUILON 1256z 11Oct2023 0.9m
BHARUCH 1321z 11Oct2023 1.1m
TRIVANDRUM 1326z 11Oct2023 0.7m
HAZIRA 1332z 11Oct2023 1.0m
BORSI 1337z 11Oct2023 1.0m
DAMAN 1513z 11Oct2023 1.3m
KANYAKUMARI 1525z 11Oct2023 0.6m

IRAN

BIR 0610z 11Oct2023 13.1m

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PUSHT	0611z	11Oct2023	13.8m
MISKI	0650z	11Oct2023	7.6m

MALDIVES

KULHUDUFFUSHI	0925z	11Oct2023	0.8m
GOIDHOO	0928z	11Oct2023	0.9m
FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m

XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA

MADANGWA	1321z	11Oct2023	0.5m
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UNITED ARAB EMIRATES

KALBA	0600z	11Oct2023	11.1m
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UNITED KINGDOM

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m
AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m
EAST TO HAMI	1333z	11Oct2023	0.8m
ADEN	1618z	11Oct2023	0.5m
KHANFAR	1618z	11Oct2023	0.5m

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

IOC Technical Series, 181 (I) Supplement 2
page 170

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P.O. Box 3540 Jakarta
Website: <http://rtsp.bmkg.go.id/publicbull.php>
<https://www.bmkg.go.id>
<https://inatews.bmkg.go.id>
E-Mail: inartsp@bmkg.go.id
monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 9

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-1200-009

TSUNAMI BULLETIN NUMBER 9 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1200 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	Lon	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m
Male	MALDIVE	4.19N	73.53E	1008z	UTC 11 Oct 2023	0.6m
Hanimaadhoo	MALDIVE	6.77N	73.17E	1015z	UTC 11 Oct 2023	0.6m
Aden	YEMEN	12.79N	44.97E	1020z	UTC 11 Oct 2023	0.4m
Gan	MALDIVE	0.69S	73.15E	1021z	UTC 11 Oct 2023	0.7m
Cochin	INDIA	9.96N	76.26E	1026z	UTC 11 Oct 2023	1.4m
Denis Island	SEYCHELLES	3.80S	55.67E	1030z	UTC 11 Oct 2023	0.4m
Djibouti	DJIBOUTI	11.60N	43.17E	1058z	UTC 11 Oct 2023	0.6m
Colombo	SRI LANKA	6.95N	79.85E	1100z	UTC 11 Oct 2023	0.7m
Hambantota	SRI LANKA	6.12N	81.13E	1112z	UTC 11 Oct 2023	0.3m
Kirinda	SRI LANKA	6.20N	81.32E	1116z	UTC 11 Oct 2023	0.2m
Pt. LaRue	SEYCHELLES	4.50S	55.50E	1125z	UTC 11 Oct 2023	0.8m
Diego Garcia	UK	7.29S	72.39E	1133z	UTC 11 Oct 2023	0.3m
Agalega	MAURITIUS	10.35S	56.59E	1138z	UTC 11 Oct 2023	0.4m
Lamu	KENYA	2.27S	40.90E	1155z	UTC 11 Oct 2023	0.7m

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.

DJIBOUTI

NW ARTA	1558z 11Oct2023	0.6m
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INDIA

MANDVI	0815z 11Oct2023	1.5m
DWARKA	0818z 11Oct2023	1.8m
PORBANDAR	0819z 11Oct2023	1.7m
JAMNAGAR	0823z 11Oct2023	1.7m
MANGROL	0835z 11Oct2023	1.6m
HAZIRA, DIU	0842z 11Oct2023	1.4m
AGATTI	0853z 11Oct2023	0.8m
AMINI	0857z 11Oct2023	1.0m
MINICOY	0920z 11Oct2023	0.6m
ANDROTH	0920z 11Oct2023	0.9m
MALVAN BAY	0925z 11Oct2023	1.2m
PANAJI	0926z 11Oct2023	1.7m
VASCO	0926z 11Oct2023	1.3m
KARWAR	0935z 11Oct2023	1.2m
JAIGARH	0936z 11Oct2023	1.3m
KAVARATTI	1002z 11Oct2023	0.7m
ALIBAG PORT	1002z 11Oct2023	1.4m
MUMBAI	1008z 11Oct2023	1.5m
VADANAPPALLY	1013z 11Oct2023	0.9m
PIPAVAV	1014z 11Oct2023	1.4m
VAKKAD	1014z 11Oct2023	1.0m
MAHUVA	1017z 11Oct2023	1.4m
ALLEPPEY ALAPPUZHA	1018z 11Oct2023	0.7m
UDUPI	1021z 11Oct2023	1.3m
BEYPORE	1021z 11Oct2023	0.9m
COCHIN	1022z 11Oct2023	0.8m
KHAMBAT	1022z 11Oct2023	1.4m
MANGALORE	1046z 11Oct2023	1.2m
MAHE	1100z 11Oct2023	0.8m
KANNUR	1106z 11Oct2023	1.1m
KOODANKULAM	1113z 11Oct2023	0.8m
KASARAGOD	1128z 11Oct2023	1.1m
TARAPUR	1154z 11Oct2023	1.3m
QUILON	1256z 11Oct2023	0.9m
BHARUCH	1321z 11Oct2023	1.1m
TRIVANDRUM	1326z 11Oct2023	0.7m
HAZIRA	1332z 11Oct2023	1.0m
BORSI	1337z 11Oct2023	1.0m
DAMAN	1513z 11Oct2023	1.3m

KANYAKUMARI	1525z	11Oct2023	0.6m

IRAN			

BIR	0610z	11Oct2023	13.1m
PUSHT	0611z	11Oct2023	13.8m
MISKI	0650z	11Oct2023	7.6m

MALDIVES			

KULHUDUFFUSHI	0925z	11Oct2023	0.8m
GOIDHOO	0928z	11Oct2023	0.9m
FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS			

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m

OMAN			

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN			

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES			

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA			

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m

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EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA

MADANGWA	1321z	11Oct2023	0.5m
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UNITED ARAB EMIRATES

KALBA	0600z	11Oct2023	11.1m
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UNITED KINGDOM

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m
AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m
EAST TO HAMI	1333z	11Oct2023	0.8m
ADEN	1618z	11Oct2023	0.5m
KHANFAR	1618z	11Oct2023	0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 10

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-1300-010

TSUNAMI BULLETIN NUMBER 10 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1300 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m
Male	MALDIVE	4.19N	73.53E	1008z	UTC 11 Oct 2023	0.6m
Hanimaadhoo	MALDIVE	6.77N	73.17E	1015z	UTC 11 Oct 2023	0.6m
Aden	YEMEN	12.79N	44.97E	1020z	UTC 11 Oct 2023	0.4m
Gan	MALDIVE	0.69S	73.15E	1021z	UTC 11 Oct 2023	0.7m
Cochin	INDIA	9.96N	76.26E	1026z	UTC 11 Oct 2023	1.4m
Denis Island	SEYCHELLES	3.80S	55.67E	1030z	UTC 11 Oct 2023	0.4m
Djibouti	DJIBOUTI	11.60N	43.17E	1058z	UTC 11 Oct 2023	0.6m
Colombo	SRI LANKA	6.95N	79.85E	1100z	UTC 11 Oct 2023	0.7m
Hambantota	SRI LANKA	6.12N	81.13E	1112z	UTC 11 Oct 2023	0.3m
Kirinda	SRI LANKA	6.20N	81.32E	1116z	UTC 11 Oct 2023	0.2m
Pt. LaRue	SEYCHELLES	4.50S	55.50E	1125z	UTC 11 Oct 2023	0.8m
Diego Garcia	UK	7.29S	72.39E	1133z	UTC 11 Oct 2023	0.3m
Agalega	MAURITIUS	10.35S	56.59E	1138z	UTC 11 Oct 2023	0.4m
Lamu	KENYA	2.27S	40.90E	1155z	UTC 11 Oct 2023	0.7m
Mombasa	KENYA	4.07S	39.65E	1206z	UTC 11 Oct 2023	0.4m
Comores	COMORES	11.70S	43.25E	1209z	UTC 11 Oct 2023	0.2m
Dzaoudzi	FRANCE	12.78S	45.26E	1211z	UTC 11 Oct 2023	0.2m

Mtwara	TANZANIA	10.27S	40.20E	1224z	UTC	11 Oct 2023	0.3m
Trincomalee	SRI LANKA	8.56N	81.20E	1228z	UTC	11 Oct 2023	0.2m
Zanzibar	TANZANIA	6.15S	39.18E	1234z	UTC	11 Oct 2023	0.4m
Pemba	MOZAMBIQUE	12.97S	40.48E	1250z	UTC	11 Oct 2023	0.3m

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.

DJIBOUTI

NW ARTA	1558z	11Oct2023	0.6m
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INDIA

MANDVI	0815z	11Oct2023	1.5m
DWARKA	0818z	11Oct2023	1.8m
PORBANDAR	0819z	11Oct2023	1.7m
JAMNAGAR	0823z	11Oct2023	1.7m
MANGROL	0835z	11Oct2023	1.6m
HAZIRA, DIU	0842z	11Oct2023	1.4m
AGATTI	0853z	11Oct2023	0.8m
AMINI	0857z	11Oct2023	1.0m
MINICOY	0920z	11Oct2023	0.6m
ANDROTH	0920z	11Oct2023	0.9m
MALVAN BAY	0925z	11Oct2023	1.2m
PANAJI	0926z	11Oct2023	1.7m
VASCO	0926z	11Oct2023	1.3m
KARWAR	0935z	11Oct2023	1.2m
JAIGARH	0936z	11Oct2023	1.3m
KAVARATTI	1002z	11Oct2023	0.7m
ALIBAG PORT	1002z	11Oct2023	1.4m
MUMBAI	1008z	11Oct2023	1.5m
VADANAPPALLY	1013z	11Oct2023	0.9m
PIPAVAV	1014z	11Oct2023	1.4m
VAKKAD	1014z	11Oct2023	1.0m
MAHUVA	1017z	11Oct2023	1.4m
ALLEPPEY ALAPPUZHA	1018z	11Oct2023	0.7m
UDUPI	1021z	11Oct2023	1.3m
BEYPORE	1021z	11Oct2023	0.9m
COCHIN	1022z	11Oct2023	0.8m
KHAMBAT	1022z	11Oct2023	1.4m
MANGALORE	1046z	11Oct2023	1.2m
MAHE	1100z	11Oct2023	0.8m
KANNUR	1106z	11Oct2023	1.1m
KOODANKULAM	1113z	11Oct2023	0.8m

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KASARAGOD	1128z	11Oct2023	1.1m
TARAPUR	1154z	11Oct2023	1.3m
QUILON	1256z	11Oct2023	0.9m
BHARUCH	1321z	11Oct2023	1.1m
TRIVANDRUM	1326z	11Oct2023	0.7m
HAZIRA	1332z	11Oct2023	1.0m
BORSI	1337z	11Oct2023	1.0m
DAMAN	1513z	11Oct2023	1.3m
KANYAKUMARI	1525z	11Oct2023	0.6m

IRAN

BIR	0610z	11Oct2023	13.1m
PUSHT	0611z	11Oct2023	13.8m
MISKI	0650z	11Oct2023	7.6m

MALDIVES

KULHUDUFFUSHI	0925z	11Oct2023	0.8m
GOIDHOO	0928z	11Oct2023	0.9m
FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAHA	1132z	11Oct2023	0.6m

ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA			

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA			

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA			

MADANGWA	1321z	11Oct2023	0.5m

UNITED ARAB EMIRATES			

KALBA	0600z	11Oct2023	11.1m

UNITED KINGDOM			

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN			

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m
AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m
EAST TO HAMI	1333z	11Oct2023	0.8m
ADEN	1618z	11Oct2023	0.5m
KHANFAR	1618z	11Oct2023	0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

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BULLETIN 11

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
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TSP-InaTEWS-20231011-1400-011

TSUNAMI BULLETIN NUMBER 11 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1400 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m
Male	MALDIVE	4.19N	73.53E	1008z	UTC 11 Oct 2023	0.6m
Hanimaadhoo	MALDIVE	6.77N	73.17E	1015z	UTC 11 Oct 2023	0.6m
Aden	YEMEN	12.79N	44.97E	1020z	UTC 11 Oct 2023	0.4m
Gan	MALDIVE	0.69S	73.15E	1021z	UTC 11 Oct 2023	0.7m
Cochin	INDIA	9.96N	76.26E	1026z	UTC 11 Oct 2023	1.4m
Denis Island	SEYCHELLES	3.80S	55.67E	1030z	UTC 11 Oct 2023	0.4m
Djibouti	DJIBOUTI	11.60N	43.17E	1058z	UTC 11 Oct 2023	0.6m
Colombo	SRI LANKA	6.95N	79.85E	1100z	UTC 11 Oct 2023	0.7m
Hambantota	SRI LANKA	6.12N	81.13E	1112z	UTC 11 Oct 2023	0.3m
Kirinda	SRI LANKA	6.20N	81.32E	1116z	UTC 11 Oct 2023	0.2m
Pt. LaRue	SEYCHELLES	4.50S	55.50E	1125z	UTC 11 Oct 2023	0.8m
Diego Garcia	UK	7.29S	72.39E	1133z	UTC 11 Oct 2023	0.3m
Agalega	MAURITIUS	10.35S	56.59E	1138z	UTC 11 Oct 2023	0.4m
Lamu	KENYA	2.27S	40.90E	1155z	UTC 11 Oct 2023	0.7m
Mombasa	KENYA	4.07S	39.65E	1206z	UTC 11 Oct 2023	0.4m
Comores	COMORES	11.70S	43.25E	1209z	UTC 11 Oct 2023	0.2m
Dzaoudzi	FRANCE	12.78S	45.26E	1211z	UTC 11 Oct 2023	0.2m
Mtwara	TANZANIA	10.27S	40.20E	1224z	UTC 11 Oct 2023	0.3m

Trincomalee	SRI LANKA	8.56N	81.20E	1228z	UTC	11 Oct 2023	0.2m
Zanzibar	TANZANIA	6.15S	39.18E	1234z	UTC	11 Oct 2023	0.4m
Pemba	MOZAMBIQUE	12.97S	40.48E	1250z	UTC	11 Oct 2023	0.3m
Toamasina	MADAGASCAR	18.15S	49.43E	1302z	UTC	11 Oct 2023	0.3m
Pt.Louis	MAURITIUS	20.16S	57.50E	1304z	UTC	11 Oct 2023	2.0m
Rodrigues	MAURITIUS	19.68S	63.42E	1304z	UTC	11 Oct 2023	0.2m
Sainte Marie	FRANCE	20.89S	55.54E	1304z	UTC	11 Oct 2023	0.3m
Pointe des Galets	FRANCE	20.92S	55.28E	1305z	UTC	11 Oct 2023	0.3m
DART 53401	INDONESIA	0.05N	91.90E	1314z	UTC	11 Oct 2023	0.1m
Blue Bay	MAURITIUS	20.44S	57.71E	1316z	UTC	11 Oct 2023	0.2m
DART 23401	THAILAND	8.86N	88.55E	1328z	UTC	11 Oct 2023	0.1m
Chennai	INDIA	13.10N	80.30E	1339z	UTC	11 Oct 2023	0.1m
Telukdalam	INDONESIA	0.55N	97.82E	1348z	UTC	11 Oct 2023	0.3m

 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.

DJIBOUTI

 NW ARTA 1558z 11Oct2023 0.6m

INDIA

 MANDVI 0815z 11Oct2023 1.5m
 DWARKA 0818z 11Oct2023 1.8m
 PORBANDAR 0819z 11Oct2023 1.7m
 JAMNAGAR 0823z 11Oct2023 1.7m
 MANGROL 0835z 11Oct2023 1.6m
 HAZIRA, DIU 0842z 11Oct2023 1.4m
 AGATTI 0853z 11Oct2023 0.8m
 AMINI 0857z 11Oct2023 1.0m
 MINICOY 0920z 11Oct2023 0.6m
 ANDROTH 0920z 11Oct2023 0.9m
 MALVAN BAY 0925z 11Oct2023 1.2m
 PANAJI 0926z 11Oct2023 1.7m
 VASCO 0926z 11Oct2023 1.3m
 KARWAR 0935z 11Oct2023 1.2m
 JAIGARH 0936z 11Oct2023 1.3m
 KAVARATTI 1002z 11Oct2023 0.7m
 ALIBAG PORT 1002z 11Oct2023 1.4m
 MUMBAI 1008z 11Oct2023 1.5m
 VADANAPPALLY 1013z 11Oct2023 0.9m
 PIPAVAV 1014z 11Oct2023 1.4m
 VAKKAD 1014z 11Oct2023 1.0m
 MAHUVA 1017z 11Oct2023 1.4m

ALLEPPEY ALAPPUZHA	1018z	11Oct2023	0.7m
UDUPI	1021z	11Oct2023	1.3m
BEYPORE	1021z	11Oct2023	0.9m
COCHIN	1022z	11Oct2023	0.8m
KHAMBAT	1022z	11Oct2023	1.4m
MANGALORE	1046z	11Oct2023	1.2m
MAHE	1100z	11Oct2023	0.8m
KANNUR	1106z	11Oct2023	1.1m
KOODANKULAM	1113z	11Oct2023	0.8m
KASARAGOD	1128z	11Oct2023	1.1m
TARAPUR	1154z	11Oct2023	1.3m
QUILON	1256z	11Oct2023	0.9m
BHARUCH	1321z	11Oct2023	1.1m
TRIVANDRUM	1326z	11Oct2023	0.7m
HAZIRA	1332z	11Oct2023	1.0m
BORSI	1337z	11Oct2023	1.0m
DAMAN	1513z	11Oct2023	1.3m
KANYAKUMARI	1525z	11Oct2023	0.6m

IRAN

BIR	0610z	11Oct2023	13.1m
PUSHT	0611z	11Oct2023	13.8m
MISKI	0650z	11Oct2023	7.6m

MALDIVES

KULHUDUFFUSHI	0925z	11Oct2023	0.8m
GOIDHOO	0928z	11Oct2023	0.9m
FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
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page 184

WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSICIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA

MADANGWA	1321z	11Oct2023	0.5m
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UNITED ARAB EMIRATES

KALBA	0600z	11Oct2023	11.1m
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UNITED KINGDOM

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m
AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m

EAST TO HAMI	1333z 11Oct2023	0.8m
ADEN	1618z 11Oct2023	0.5m
KHANFAR	1618z 11Oct2023	0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
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BULLETIN 12

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-1500-012

TSUNAMI BULLETIN NUMBER 12 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1500 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m
Male	MALDIVE	4.19N	73.53E	1008z	UTC 11 Oct 2023	0.6m
Hanimaadhoo	MALDIVE	6.77N	73.17E	1015z	UTC 11 Oct 2023	0.6m
Aden	YEMEN	12.79N	44.97E	1020z	UTC 11 Oct 2023	0.4m
Gan	MALDIVE	0.69S	73.15E	1021z	UTC 11 Oct 2023	0.7m
Cochin	INDIA	9.96N	76.26E	1026z	UTC 11 Oct 2023	1.4m
Denis Island	SEYCHELLES	3.80S	55.67E	1030z	UTC 11 Oct 2023	0.4m
Djibouti	DJIBOUTI	11.60N	43.17E	1058z	UTC 11 Oct 2023	0.6m
Colombo	SRI LANKA	6.95N	79.85E	1100z	UTC 11 Oct 2023	0.7m
Hambantota	SRI LANKA	6.12N	81.13E	1112z	UTC 11 Oct 2023	0.3m
Kirinda	SRI LANKA	6.20N	81.32E	1116z	UTC 11 Oct 2023	0.2m
Pt. LaRue	SEYCHELLES	4.50S	55.50E	1125z	UTC 11 Oct 2023	0.8m
Diego Garcia	UK	7.29S	72.39E	1133z	UTC 11 Oct 2023	0.3m
Agalega	MAURITIUS	10.35S	56.59E	1138z	UTC 11 Oct 2023	0.4m
Lamu	KENYA	2.27S	40.90E	1155z	UTC 11 Oct 2023	0.7m
Mombasa	KENYA	4.07S	39.65E	1206z	UTC 11 Oct 2023	0.4m
Comores	COMORES	11.70S	43.25E	1209z	UTC 11 Oct 2023	0.2m
Dzaoudzi	FRANCE	12.78S	45.26E	1211z	UTC 11 Oct 2023	0.2m

KARWAR	0935z	11Oct2023	1.2m
JAIGARH	0936z	11Oct2023	1.3m
KAVARATTI	1002z	11Oct2023	0.7m
ALIBAG PORT	1002z	11Oct2023	1.4m
MUMBAI	1008z	11Oct2023	1.5m
VADANAPPALLY	1013z	11Oct2023	0.9m
PIPAVAV	1014z	11Oct2023	1.4m
VAKKAD	1014z	11Oct2023	1.0m
MAHUVA	1017z	11Oct2023	1.4m
ALLEPPEY ALAPPUZHA	1018z	11Oct2023	0.7m
UDUPI	1021z	11Oct2023	1.3m
BEYPORE	1021z	11Oct2023	0.9m
COCHIN	1022z	11Oct2023	0.8m
KHAMBAT	1022z	11Oct2023	1.4m
MANGALORE	1046z	11Oct2023	1.2m
MAHE	1100z	11Oct2023	0.8m
KANNUR	1106z	11Oct2023	1.1m
KOODANKULAM	1113z	11Oct2023	0.8m
KASARAGOD	1128z	11Oct2023	1.1m
TARAPUR	1154z	11Oct2023	1.3m
QUILON	1256z	11Oct2023	0.9m
BHARUCH	1321z	11Oct2023	1.1m
TRIVANDRUM	1326z	11Oct2023	0.7m
HAZIRA	1332z	11Oct2023	1.0m
BORSI	1337z	11Oct2023	1.0m
DAMAN	1513z	11Oct2023	1.3m
KANYAKUMARI	1525z	11Oct2023	0.6m

IRAN

BIR	0610z	11Oct2023	13.1m
PUSHT	0611z	11Oct2023	13.8m
MISKI	0650z	11Oct2023	7.6m

MALDIVES

KULHUDUFFUSHI	0925z	11Oct2023	0.8m
GOIDHOO	0928z	11Oct2023	0.9m
FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m

AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA

MADANGWA	1321z	11Oct2023	0.5m
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UNITED ARAB EMIRATES

KALBA	0600z	11Oct2023	11.1m
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UNITED KINGDOM

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m

AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m
EAST TO HAMI	1333z	11Oct2023	0.8m
ADEN	1618z	11Oct2023	0.5m
KHANFAR	1618z	11Oct2023	0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 13

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-1600-013

TSUNAMI BULLETIN NUMBER 13 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1600 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m
Male	MALDIVE	4.19N	73.53E	1008z	UTC 11 Oct 2023	0.6m
Hanimaadhoo	MALDIVE	6.77N	73.17E	1015z	UTC 11 Oct 2023	0.6m
Aden	YEMEN	12.79N	44.97E	1020z	UTC 11 Oct 2023	0.4m
Gan	MALDIVE	0.69S	73.15E	1021z	UTC 11 Oct 2023	0.7m
Cochin	INDIA	9.96N	76.26E	1026z	UTC 11 Oct 2023	1.4m
Denis Island	SEYCHELLES	3.80S	55.67E	1030z	UTC 11 Oct 2023	0.4m
Djibouti	DJIBOUTI	11.60N	43.17E	1058z	UTC 11 Oct 2023	0.6m
Colombo	SRI LANKA	6.95N	79.85E	1100z	UTC 11 Oct 2023	0.7m
Hambantota	SRI LANKA	6.12N	81.13E	1112z	UTC 11 Oct 2023	0.3m
Kirinda	SRI LANKA	6.20N	81.32E	1116z	UTC 11 Oct 2023	0.2m
Pt. LaRue	SEYCHELLES	4.50S	55.50E	1125z	UTC 11 Oct 2023	0.8m
Diego Garcia	UK	7.29S	72.39E	1133z	UTC 11 Oct 2023	0.3m
Agalega	MAURITIUS	10.35S	56.59E	1138z	UTC 11 Oct 2023	0.4m
Lamu	KENYA	2.27S	40.90E	1155z	UTC 11 Oct 2023	0.7m
Mombasa	KENYA	4.07S	39.65E	1206z	UTC 11 Oct 2023	0.4m
Comores	COMORES	11.70S	43.25E	1209z	UTC 11 Oct 2023	0.2m
Dzaoudzi	FRANCE	12.78S	45.26E	1211z	UTC 11 Oct 2023	0.2m
Mtwara	TANZANIA	10.27S	40.20E	1224z	UTC 11 Oct 2023	0.3m

Trincomalee	SRI LANKA	8.56N	81.20E	1228z	UTC	11 Oct 2023	0.2m
Zanzibar	TANZANIA	6.15S	39.18E	1234z	UTC	11 Oct 2023	0.4m
Pemba	MOZAMBIQUE	12.97S	40.48E	1250z	UTC	11 Oct 2023	0.3m
Toamasina	MADAGASCAR	18.15S	49.43E	1302z	UTC	11 Oct 2023	0.3m
Pt. Louis	MAURITIUS	20.16S	57.50E	1304z	UTC	11 Oct 2023	2.0m
Rodrigues	MAURITIUS	19.68S	63.42E	1304z	UTC	11 Oct 2023	0.2m
Sainte Marie	FRANCE	20.89S	55.54E	1304z	UTC	11 Oct 2023	0.3m
Pointe des Galets	FRANCE	20.92S	55.28E	1305z	UTC	11 Oct 2023	0.3m
DART 53401	INDONESIA	0.05N	91.90E	1314z	UTC	11 Oct 2023	0.1m
Blue Bay	MAURITIUS	20.44S	57.71E	1316z	UTC	11 Oct 2023	0.2m
DART 23401	THAILAND	8.86N	88.55E	1328z	UTC	11 Oct 2023	0.1m
Chennai	INDIA	13.10N	80.30E	1339z	UTC	11 Oct 2023	0.1m
Telukdalam	INDONESIA	0.55N	97.82E	1348z	UTC	11 Oct 2023	0.3m
Nancowry	INDIA	8.05N	93.55E	1401z	UTC	11 Oct 2023	0.1m
Tanahbala	INDONESIA	0.53S	98.50E	1405z	UTC	11 Oct 2023	0.2m
Meulaboh	INDONESIA	4.13N	96.13E	1407z	UTC	11 Oct 2023	0.2m
Cocos Island	AUSTRALIA	12.12S	96.89E	1410z	UTC	11 Oct 2023	0.1m
Sabang	INDONESIA	5.83N	95.33E	1414z	UTC	11 Oct 2023	0.1m
Port Blair	INDIA	11.68N	92.76E	1420z	UTC	11 Oct 2023	0.1m
Visakhapatnam	INDIA	17.68N	83.28E	1422z	UTC	11 Oct 2023	0.1m
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Enggano	INDONESIA	5.35S	102.28E	1502z	UTC	11 Oct 2023	0.2m
Padang	INDONESIA	0.95S	100.37E	1512z	UTC	11 Oct 2023	0.2m
Christmas Island	AUSTRALIA	10.43N	105.67E	1521z	UTC	11 Oct 2023	0.2m
Inhambane	MOZAMBIQUE	23.92S	35.50E	1532z	UTC	11 Oct 2023	0.1m
Sittwe	MYANMAR	20.15N	92.90E	1544z	UTC	11 Oct 2023	0.2m
Ko Taphao Noi	THAILAND	7.82N	98.42E	1556z	UTC	11 Oct 2023	0.2m

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.

DJIBOUTI

NW ARTA 1558z 11Oct2023 0.6m

INDIA

MANDVI 0815z 11Oct2023 1.5m
DWARKA 0818z 11Oct2023 1.8m
PORBANDAR 0819z 11Oct2023 1.7m
JAMNAGAR 0823z 11Oct2023 1.7m
MANGROL 0835z 11Oct2023 1.6m
HAZIRA, DIU 0842z 11Oct2023 1.4m
AGATTI 0853z 11Oct2023 0.8m
AMINI 0857z 11Oct2023 1.0m

MINICOY	0920z	11Oct2023	0.6m
ANDROTH	0920z	11Oct2023	0.9m
MALVAN BAY	0925z	11Oct2023	1.2m
PANAJI	0926z	11Oct2023	1.7m
VASCO	0926z	11Oct2023	1.3m
KARWAR	0935z	11Oct2023	1.2m
JAIGARH	0936z	11Oct2023	1.3m
KAVARATTI	1002z	11Oct2023	0.7m
ALIBAG PORT	1002z	11Oct2023	1.4m
MUMBAI	1008z	11Oct2023	1.5m
VADANAPPALLY	1013z	11Oct2023	0.9m
PIPAVAV	1014z	11Oct2023	1.4m
VAKKAD	1014z	11Oct2023	1.0m
MAHUVA	1017z	11Oct2023	1.4m
ALLEPPEY ALAPPUZHA	1018z	11Oct2023	0.7m
UDUPI	1021z	11Oct2023	1.3m
BEYPORE	1021z	11Oct2023	0.9m
COCHIN	1022z	11Oct2023	0.8m
KHAMBAT	1022z	11Oct2023	1.4m
MANGALORE	1046z	11Oct2023	1.2m
MAHE	1100z	11Oct2023	0.8m
KANNUR	1106z	11Oct2023	1.1m
KOODANKULAM	1113z	11Oct2023	0.8m
KASARAGOD	1128z	11Oct2023	1.1m
TARAPUR	1154z	11Oct2023	1.3m
QUILON	1256z	11Oct2023	0.9m
BHARUCH	1321z	11Oct2023	1.1m
TRIVANDRUM	1326z	11Oct2023	0.7m
HAZIRA	1332z	11Oct2023	1.0m
BORSI	1337z	11Oct2023	1.0m
DAMAN	1513z	11Oct2023	1.3m
KANYAKUMARI	1525z	11Oct2023	0.6m

IRAN

BIR	0610z	11Oct2023	13.1m
PUSHT	0611z	11Oct2023	13.8m
MISKI	0650z	11Oct2023	7.6m

MALDIVES

KULHUDUFFUSHI	0925z	11Oct2023	0.8m
GOIDHOO	0928z	11Oct2023	0.9m
FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m

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EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARI IBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA

MADANGWA	1321z	11Oct2023	0.5m
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UNITED ARAB EMIRATES

KALBA	0600z	11Oct2023	11.1m
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UNITED KINGDOM

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m
AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m
EAST TO HAMI	1333z	11Oct2023	0.8m
ADEN	1618z	11Oct2023	0.5m
KHANFAR	1618z	11Oct2023	0.5m

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>

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

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

E-Mail: inartsp@bmkg.go.id

monitrtwp@bmkg.go.id

END OF BULLETIN

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST

BULLETIN 14

TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TEST TEST TEST TEST TEST IOWave-Oct-2023 TEST TEST TEST TEST TEST TEST TEST TEST
TSP-InaTEWS-20231011-1700-014

TSUNAMI BULLETIN NUMBER 14 (TYPE-III CONFIRMED THREAT BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1700 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

2. EVALUATION

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

LOCATION	COUNTRIES	LAT	LON	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m
Male	MALDIVE	4.19N	73.53E	1008z	UTC 11 Oct 2023	0.6m
Hanimaadhoo	MALDIVE	6.77N	73.17E	1015z	UTC 11 Oct 2023	0.6m
Aden	YEMEN	12.79N	44.97E	1020z	UTC 11 Oct 2023	0.4m
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Sittwe	MYANMAR	20.15N	92.90E	1544z	UTC	11	Oct	2023	0.2m
Ko Taphao Noi	THAILAND	7.82N	98.42E	1556z	UTC	11	Oct	2023	0.2m
Pangandaran	INDONESIA	7.75S	108.50E	1604z	UTC	11	Oct	2023	0.2m
Tanjung Lesung	INDONESIA	6.48S	105.66E	1604z	UTC	11	Oct	2023	0.3m
DART 56001	AUSTRALIA	14.05S	110.03E	1608z	UTC	11	Oct	2023	0.1m
Cilacap	INDONESIA	7.75S	109.00E	1624z	UTC	11	Oct	2023	0.2m
Sadeng	INDONESIA	8.19S	110.80E	1630z	UTC	11	Oct	2023	0.2m
DART 53046	AUSTRALIA	11.45S	113.61E	1632z	UTC	11	Oct	2023	0.0m
Prigi	INDONESIA	8.28S	111.73E	1638z	UTC	11	Oct	2023	0.2m

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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DJIBOUTI

NW ARTA 1558z 11Oct2023 0.6m

INDIA

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MANDVI	0815z	11Oct2023	1.5m
DWARKA	0818z	11Oct2023	1.8m
PORBANDAR	0819z	11Oct2023	1.7m
JAMNAGAR	0823z	11Oct2023	1.7m
MANGROL	0835z	11Oct2023	1.6m
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AGATTI	0853z	11Oct2023	0.8m
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MINICOY	0920z	11Oct2023	0.6m
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PIPAVAV	1014z	11Oct2023	1.4m
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UDUPI	1021z	11Oct2023	1.3m
BEYPORE	1021z	11Oct2023	0.9m
COCHIN	1022z	11Oct2023	0.8m
KHAMBAT	1022z	11Oct2023	1.4m
MANGALORE	1046z	11Oct2023	1.2m
MAHE	1100z	11Oct2023	0.8m
KANNUR	1106z	11Oct2023	1.1m
KOODANKULAM	1113z	11Oct2023	0.8m
KASARAGOD	1128z	11Oct2023	1.1m
TARAPUR	1154z	11Oct2023	1.3m
QUILON	1256z	11Oct2023	0.9m
BHARUCH	1321z	11Oct2023	1.1m
TRIVANDRUM	1326z	11Oct2023	0.7m
HAZIRA	1332z	11Oct2023	1.0m
BORSI	1337z	11Oct2023	1.0m
DAMAN	1513z	11Oct2023	1.3m
KANYAKUMARI	1525z	11Oct2023	0.6m

IRAN

BIR	0610z	11Oct2023	13.1m
PUSHT	0611z	11Oct2023	13.8m
MISKI	0650z	11Oct2023	7.6m

MALDIVES

KULHUDUFFUSHI	0925z	11Oct2023	0.8m
GOIDHOO	0928z	11Oct2023	0.9m
FERIDHOO	0941z	11Oct2023	1.0m
NILANDHOO	0953z	11Oct2023	0.6m
DHIYAMIGILI	0958z	11Oct2023	0.5m
MALE	1001z	11Oct2023	0.5m
THINADHOO	1012z	11Oct2023	0.6m
HITHADHOO	1025z	11Oct2023	0.5m
KOLHUFUSHI	1603z	11Oct2023	0.5m

MAURITIUS

GRANDE REVIERE SUD EST-EAST	1412z	11Oct2023	0.5m
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OMAN

SOHAR	0600z	11Oct2023	12.2m
MUSCAT	0608z	11Oct2023	13.3m
AL KHABURAH	0608z	11Oct2023	9.2m
BARKA	0608z	11Oct2023	9.6m
QURAYYAT	0611z	11Oct2023	16.6m
SUR	0618z	11Oct2023	12.7m
AL ASHKHARAH	0627z	11Oct2023	6.0m
EAST MUSANDAM	0633z	11Oct2023	7.5m
MASIRAH	0649z	11Oct2023	1.7m
RAS AR RUWAYS	0652z	11Oct2023	3.4m
AD DUQM	0717z	11Oct2023	1.6m
HASIK	0745z	11Oct2023	0.8m
AL JAZER	0749z	11Oct2023	1.8m
SALALAH	0816z	11Oct2023	1.0m
MIRBAT	0839z	11Oct2023	0.7m
TAQAH	1044z	11Oct2023	0.7m

PAKISTAN

ORMARA	0614z	11Oct2023	3.6m
WINDER	0707z	11Oct2023	2.8m
KARACHI	0747z	11Oct2023	3.0m
SINDH	0749z	11Oct2023	2.2m

SEYCHELLES

FREGATE ISLAND	1031z	11Oct2023	0.7m
TAKAMAKA	1132z	11Oct2023	0.6m
ILE DESROCHES	1645z	11Oct2023	0.5m

SOMALIA

ABO	0914z	11Oct2023	1.0m
BANDER-BEYLA	0930z	11Oct2023	0.7m
TOOXIN	0957z	11Oct2023	0.8m
EYL	1040z	11Oct2023	0.8m
CEEL DHEER	1043z	11Oct2023	0.8m
JARIIBAN	1051z	11Oct2023	0.9m
ITALA	1119z	11Oct2023	0.5m
GALDOGOB	1154z	11Oct2023	0.8m
UARSCIECH	1244z	11Oct2023	0.6m
XARARDHEERE	1304z	11Oct2023	0.8m
MAREEG	1316z	11Oct2023	0.5m
BEYNAX BARRE	1342z	11Oct2023	0.5m
MUQDISHO	1454z	11Oct2023	0.5m
NE BEERNAASI	1514z	11Oct2023	0.5m
LOYADO	1707z	11Oct2023	0.6m

SRI LANKA

BERUWALA	1526z	11Oct2023	0.5m
GALLE	1547z	11Oct2023	0.6m

TANZANIA

MADANGWA	1321z	11Oct2023	0.5m
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UNITED ARAB EMIRATES

KALBA	0600z	11Oct2023	11.1m
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UNITED KINGDOM

MORESBY ISLAND	1058z	11Oct2023	0.7m
NW EGMONT ISLAND	1109z	11Oct2023	0.5m
DIEGO GARCIA	1301z	11Oct2023	0.5m

YEMEN

SOCOTRA ISLAND SOUTH	0817z	11Oct2023	1.1m
DAMQAWT	0822z	11Oct2023	0.7m
SOCOTRA ISLAND NORTH	0827z	11Oct2023	0.9m
AL GHAYDAH AIRPORT	0830z	11Oct2023	1.1m
SOCOTRA ISLAND WEST	0843z	11Oct2023	0.6m
HUSWAYN	0950z	11Oct2023	1.4m
MASILAH WADI	0959z	11Oct2023	1.0m
HAMI	1014z	11Oct2023	0.7m
ALQUMRAH	1100z	11Oct2023	1.3m
AL MUKALLA	1207z	11Oct2023	0.9m
BROM MAYFA	1210z	11Oct2023	0.5m
HARRAH	1246z	11Oct2023	0.7m
EAST TO HAMI	1333z	11Oct2023	0.8m
ADEN	1618z	11Oct2023	0.5m
KHANFAR	1618z	11Oct2023	0.5m

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

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BULLETIN 15

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TSP-InaTEWS-20231011-1800-015

TSUNAMI BULLETIN NUMBER 15 (TYPE-IV FINAL BULLETIN)
IOTWMS TSUNAMI SERVICE PROVIDER INDONESIA (InaTEWS-BMKG)
issued at 1800 UTC, Oct 11, 2023

... 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 (UPDATED)
Depth : 10km
Date : 11 Oct 2023
Origin Time: 0600 UTC
Latitude : 24.80N
Longitude : 58.20E
Location : Gulf of Oman

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	TIME (UTC)	DATE	AMPL (m)
Chabahar	IRAN	25.30N	60.60E	0610z	UTC 11 Oct 2023	6.0m
Jask	IRAN	25.63N	57.77E	0612z	UTC 11 Oct 2023	6.8m
Gwadar	PAKISTAN	25.11N	62.34E	0615z	UTC 11 Oct 2023	5.5m
Muscat	OMAN	23.63N	58.57E	0622z	UTC 11 Oct 2023	6.1m
DART 23228	INDIA	20.76N	65.28E	0653z	UTC 11 Oct 2023	2.2m
DART 23226	INDIA	20.20N	67.33E	0657z	UTC 11 Oct 2023	1.8m
Masirah	OMAN	20.68N	58.87E	0707z	UTC 11 Oct 2023	1.9m
Karachi	PAKISTAN	24.81N	66.97E	0724z	UTC 11 Oct 2023	3.1m
Ormara	PAKISTAN	25.20N	64.68E	0738z	UTC 11 Oct 2023	4.8m
Duqm	OMAN	19.66N	57.72E	0743z	UTC 11 Oct 2023	3.5m
Salalah	OMAN	16.93N	54.01E	0807z	UTC 11 Oct 2023	1.3m
Keti Bandar	PAKISTAN	24.13N	67.43E	0828z	UTC 11 Oct 2023	5.3m
Veeraval	INDIA	20.90N	70.36E	0852z	UTC 11 Oct 2023	1.6m
Minicoy	INDIA	8.28N	73.05E	0915z	UTC 11 Oct 2023	0.7m
Marmagao	INDIA	15.41N	73.80E	0936z	UTC 11 Oct 2023	1.8m
Male	MALDIVE	4.19N	73.53E	1008z	UTC 11 Oct 2023	0.6m
Hanimaadhoo	MALDIVE	6.77N	73.17E	1015z	UTC 11 Oct 2023	0.6m
Aden	YEMEN	12.79N	44.97E	1020z	UTC 11 Oct 2023	0.4m
Gan	MALDIVE	0.69S	73.15E	1021z	UTC 11 Oct 2023	0.7m
Cochin	INDIA	9.96N	76.26E	1026z	UTC 11 Oct 2023	1.4m
Denis Island	SEYCHELLES	3.80S	55.67E	1030z	UTC 11 Oct 2023	0.4m

Djibouti	DJIBOUTI	11.60N	43.17E	1058z	UTC	11	Oct	2023	0.6m
Colombo	SRI LANKA	6.95N	79.85E	1100z	UTC	11	Oct	2023	0.7m
Hambantota	SRI LANKA	6.12N	81.13E	1112z	UTC	11	Oct	2023	0.3m
Kirinda	SRI LANKA	6.20N	81.32E	1116z	UTC	11	Oct	2023	0.2m
Pt.LaRue	SEYCHELLES	4.50S	55.50E	1125z	UTC	11	Oct	2023	0.8m
Diego Garcia	UK	7.29S	72.39E	1133z	UTC	11	Oct	2023	0.3m
Agalega	MAURITIUS	10.35S	56.59E	1138z	UTC	11	Oct	2023	0.4m
Lamu	KENYA	2.27S	40.90E	1155z	UTC	11	Oct	2023	0.7m
Mombasa	KENYA	4.07S	39.65E	1206z	UTC	11	Oct	2023	0.4m
Comores	COMORES	11.70S	43.25E	1209z	UTC	11	Oct	2023	0.2m
Dzaoudzi	FRANCE	12.78S	45.26E	1211z	UTC	11	Oct	2023	0.2m
Mtwara	TANZANIA	10.27S	40.20E	1224z	UTC	11	Oct	2023	0.3m
Trincomalee	SRI LANKA	8.56N	81.20E	1228z	UTC	11	Oct	2023	0.2m
Zanzibar	TANZANIA	6.15S	39.18E	1234z	UTC	11	Oct	2023	0.4m
Pemba	MOZAMBIQUE	12.97S	40.48E	1250z	UTC	11	Oct	2023	0.3m
Toamasina	MADAGASCAR	18.15S	49.43E	1302z	UTC	11	Oct	2023	0.3m
Pt.Louis	MAURITIUS	20.16S	57.50E	1304z	UTC	11	Oct	2023	2.0m
Rodrigues	MAURITIUS	19.68S	63.42E	1304z	UTC	11	Oct	2023	0.2m
Sainte Marie	FRANCE	20.89S	55.54E	1304z	UTC	11	Oct	2023	0.3m
Pointe des Galets	FRANCE	20.92S	55.28E	1305z	UTC	11	Oct	2023	0.3m
DART 53401	INDONESIA	0.05N	91.90E	1314z	UTC	11	Oct	2023	0.1m
Blue Bay	MAURITIUS	20.44S	57.71E	1316z	UTC	11	Oct	2023	0.2m
DART 23401	THAILAND	8.86N	88.55E	1328z	UTC	11	Oct	2023	0.1m
Chennai	INDIA	13.10N	80.30E	1339z	UTC	11	Oct	2023	0.1m
Telukdalam	INDONESIA	0.55N	97.82E	1348z	UTC	11	Oct	2023	0.3m
Nancowry	INDIA	8.05N	93.55E	1401z	UTC	11	Oct	2023	0.1m
Tanahbala	INDONESIA	0.53S	98.50E	1405z	UTC	11	Oct	2023	0.2m
Meulaboh	INDONESIA	4.13N	96.13E	1407z	UTC	11	Oct	2023	0.2m
Cocos Island	AUSTRALIA	12.12S	96.89E	1410z	UTC	11	Oct	2023	0.1m
Sabang	INDONESIA	5.83N	95.33E	1414z	UTC	11	Oct	2023	0.1m
Port Blair	INDIA	11.68N	92.76E	1420z	UTC	11	Oct	2023	0.1m
Visakhapatnam	INDIA	17.68N	83.28E	1422z	UTC	11	Oct	2023	0.1m
Seblat	INDONESIA	3.22S	101.60E	1444z	UTC	11	Oct	2023	0.2m

4. ADVICE

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5. UPDATES

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

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